
Annize

Release 6.0.6471

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Inhaltsverzeichnis

1	Lizenz	3
2	Up-to-date?	5
3	Abhängigkeiten	7
4	Benutzerhandbuch	9
5	Kommandozeilenschnittstellen-Referenz	11
5.1	Positional Arguments	11
5.2	Named Arguments	11
5.3	Sub-commands	12
6	API-Referenz	13
6.1	annize namespace	13
	Python-Modulindex	127
	Stichwortverzeichnis	129

TODO jooh

KAPITEL 1

Lizenz

Annize wird unter den Bedingungen der AGPL 3 Lizenz verteilt. Das betrifft ebenso alle Dateien ohne Lizenzkopf (Nicht Quelldateien, wie Grafiken), außer sie sind ausdrücklich als Drittinhalt gekennzeichnet. Lesen Sie die Sektion ‚Abhängigkeiten‘ bezüglich enthaltener Drittinhalte.

KAPITEL 2

Up-to-date?

Lesen Sie diesen Text von einer anderen Quelle als der Homepage? Falls Sie unsicher sind ob Ihr Paket aktuell ist, sollten Sie die Homepage besuchen und das prüfen. Sie lesen derzeit die Dokumentation für Version 6.0.6471.

Abhängigkeiten

Annize nutzt einige Teile von Drittanbietern.



Benötigt: **Python 3.13**



Benötigt: **Python package PyGObject ~= 3.52**



Benötigt: **Python package hallyd ~= 0.90**



Benötigt: **Python package klovve ~= 1.6**



Benötigt: **Python package lxml ~= 6.0**



Benötigt: **Python package pycountry ~= 24.6**

Benötigt: **GTK 4**



Empfohlen: **GNU/Linux**



Enthalten: **background image** (Lizenz: <http://creativecommons.org/licenses/by-sa/3.0>; von [hier](#))



Enthalten: **font ,Inconsolata‘** (for websites; by Raph Levien; Lizenz: OFL; von [hier](#))



Enthalten: **font ,Khula‘** (for websites; by Erin McLaughlin; Lizenz: OFL; von [hier](#))



Enthalten: **font ,Symbola‘** (for logo symbol; Lizenz: free for use; von [hier](#))



Enthalten: **icon set ,Oxygen‘** (some icons; von [hier](#))



Enthalten: **third-party project logos** (von [hier](#))

KAPITEL 4

Benutzerhandbuch

TODO zz

Kommandozeilenschnittstellen-Referenz

```
usage: annize [-h] [--project PROJECT]
              [--with-answers-from-json-file WITH_ANSWERS_FROM_JSON_FILE]
              [--with-answers-from-json-string WITH_ANSWERS_FROM_JSON_STRING]
              [--with-answer WITH_ANSWER WITH_ANSWER]
              [command] ...
```

5.1 Positional Arguments

[command] Possible choices: do
 Das auszuführende Kommando.

5.2 Named Arguments

--project Projektverzeichnis oder -datei (sonst: das aktuelle Arbeitsverzeichnis). Annize wird die übergeordneten Verzeichnisse automatisch mit absuchen.

--with-answers-from-json-file TODO
 Default: []

--with-answers-from-json-string TODO
 Default: []

--with-answer TODO
 Default: []

5.3 Sub-commands

5.3.1 do

Führe einen Task aus.

```
annize do [-h] [task_name]
```

Positional Arguments

task_name	Taskname.
	Default: ''

6.1 annize namespace

6.1.1 Subpackages

annize.asset package

Submodules

annize.asset.data module

`annize.asset.data.readme_pdf(culture)`

Parameter

culture (*str*)

Rückgabetyp

Path

annize.asset.project_info module

annize.data package

Submodules

annize.data.color module

class `annize.data.color.Color`(* (*Keyword-only parameters separator (PEP 3102)*), *red*, *green*, *blue*)

Bases: `object`

Parameter

- **red** (*float*)
- **green** (*float*)
- **blue** (*float*)

property red: float

property green: float

property blue: float

property hue: float

property lightness: float

property saturation: float

with_modified(*, red=None, green=None, blue=None, hue=None, lightness=None, saturation=None)

Parameter

- **red** (float | None)
- **green** (float | None)
- **blue** (float | None)
- **hue** (float | None)
- **lightness** (float | None)
- **saturation** (float | None)

Rückgabetyp

[Color](#)

property html_color_spec: str

scalehue(*, brightness, saturation=None)

Parameter

- **brightness** (float)
- **saturation** (float | None)

Rückgabetyp

[Color](#)

transformed(*, brightness=None, saturation=None)

Parameter

- **brightness** (float | None)
- **saturation** (float | None)

Rückgabetyp

[Color](#)

annize.data.container module

class annize.data.container.**Basket**(*args, **kwargs)

Bases: list

annize.data.unique module

```

class annize.data.unique.UniqueId(localid=None)
    Bases: object
        Parameter
            localid (str / None)
        __uniqueid_counter = 0
        __uniqueid_lock = <unlocked _thread.lock object>
        property long_str: str
        property short_str: str
        property processonly_long_str: str
        property processonly_short_str: str
        __long_str(txt)
            Parameter
                txt (str)
            Rückgabotyp
                str

```

annize.data.version module

```

class annize.data.version.AbstractVersionPatternSegment
    Bases: ABC
        property segment_names: list[str]
        abstractmethod regexp_string()
            Rückgabotyp
                str
        abstractmethod segments_tuples_to_text(segments_tuples)
            Parameter
                segments_tuples (list[Tuple[str, str]])
            Rückgabotyp
                str
        _name_anon(namep)
            Parameter
                namep (str)
            Rückgabotyp
                None
        _str_to_val(txt)
            Parameter
                txt (str)

```

```

    Rückgabetypp
        object
    _abc_impl = <_abc._abc_data object>

class annize.data.version.NumericVersionPatternSegment(*, partname=None)
    Bases: AbstractVersionPatternSegment
    Parameter
        partname (str | None)
    property partname: str | None
    property segment_names: list[str]
    regexp_string()

    Rückgabetypp
        str
    segments_tuples_to_text(segments_tuples)

    Parameter
        segments_tuples (list[Tuple[str, str]])
    Rückgabetypp
        str
    _name_anon(namep)
    _str_to_val(txt)

    Parameter
        txt (str)
    Rückgabetypp
        object
    _abc_impl = <_abc._abc_data object>

class annize.data.version.SeparatorVersionPatternSegment(*, text)
    Bases: AbstractVersionPatternSegment
    Parameter
        text (str)
    regexp_string()

    Rückgabetypp
        str
    segments_tuples_to_text(segments_tuples)

    Parameter
        segments_tuples (list[Tuple[str, str]])
    Rückgabetypp
        str
    _abc_impl = <_abc._abc_data object>
```

```

class annize.data.version.OptionalVersionPatternSegment(*, segments)
    Bases: AbstractVersionPatternSegment
        Parameter
            segments (Iterable[AbstractVersionPatternSegment])
        property segment_names
        regexp_string()
        Rückgabetyt
            str
        segments_tuples_to_text(segments_tuples)
        Parameter
            segments_tuples (list[Tuple[str, str]])
        Rückgabetyt
            str
        _name_anon(namep)
        _abc_impl = <_abc._abc_data object>

class annize.data.version.ConcatenatedVersionPatternSegment(*, segments)
    Bases: AbstractVersionPatternSegment
        Parameter
            segments (Iterable[AbstractVersionPatternSegment])
        property segment_names
        regexp_string()
        Rückgabetyt
            str
        segments_tuples_to_text(segments_tuples)
        Parameter
            segments_tuples (list[Tuple[str, str]])
        Rückgabetyt
            str
        _name_anon(namep)
        _abc_impl = <_abc._abc_data object>

class annize.data.version.VersionPattern(*, segments)
    Bases: object
        Parameter
            segments (Iterable[AbstractVersionPatternSegment])
        property segments: list[AbstractVersionPatternSegment]
        property segment_names

```

text_to_segments_tuples(*text*)

Parameter

text (*str*)

Rückgabetyp

list[Tuple[str, str]]

segments_tuples_to_text(*segments_tuples*)

Parameter

segments_tuples (list[Tuple[str, str]])

Rückgabetyp

str

class annize.data.version.**Version**(*, *text=None*, *pattern=None*, ***segment_values*)

Bases: object

Parameter

- **text** (*str*)
- **pattern** (*VersionPattern*)

property **segments_tuples**

property **segments_values**: dict[str, Any]

property **text**: str

property **pattern**: *VersionPattern*

annize.features namespace

Subpackages

annize.features.changelog namespace

Submodules

annize.features.changelog.common module

Changelogs.

class annize.features.changelog.common.**Item**(*, *text*)

Bases: object

Parameter

text (*TrStr*)

property **text**: *TrStr*

class annize.features.changelog.common.**Entry**(*, *version*, *time*, *items*)

Bases: object

Parameter

- **version** (*Version* | *None*)
- **time** (*datetime* | *None*)
- **items** (*Iterable*[*TrStr* | *Item*])

```

    property items: list[Item]

    property time: datetime | None

    property version: Version | None

class annize.features.changelog.common.Changelog(*, entries)
    Bases: object
        Parameter
            entries (Iterable[Entry])
        property entries: list[Entry]

class annize.features.changelog.common.ByVersionControlSystemCommitMessagesChangelog(*,
                                                                                          ent-
                                                                                          ries)

    Bases: Changelog
        Parameter
            entries (Iterable[Entry])
        _S_CHANGE = '##CHANGE:'
        _S_LABEL = '##LABEL:'
        property entries

annize.features.changelog.common.default_changelog()

    Rückgabety
        Changelog

```

annize.features.dependencies namespace

Submodules

annize.features.dependencies.common module

Project dependency handling.

```

class annize.features.dependencies.common.Kind(*, label, importance)
    Bases: object
        Parameter
            • label (TrStr)
            • importance (int)
        property label: TrStr
        property importance: int

class annize.features.dependencies.common.Dependency(*, kind, label, comment, icon, importance=0)
    Bases: object
        Parameter
            • kind (Kind / None)
            • label (TrStr / None)

```

- `comment` (`TrStr` / `None`)
- `icon` (`str` / `None`)
- `importance` (`int`)

`property kind`: `Kind`

`property label`: `TrStr`

`property comment`: `TrStr`

`property icon`: `str`

`property importance`: `int`

`class annize.features.dependencies.common.Required(**b)`
Bases: `Kind`

`class annize.features.dependencies.common.Recommended(**b)`
Bases: `Kind`

`class annize.features.dependencies.common.Included(**b)`
Bases: `Kind`

`class annize.features.dependencies.common.GnuLinux(*, kind=None, comment)`
Bases: `Dependency`

`class annize.features.dependencies.common.Artwork(*, kind=None, label, origin, comment, license)`
Bases: `Dependency`

Parameter

- `origin` (`str`)
- `license` (`str` / `None`)

`annize.features.dependencies.common.dependencies_to_rst_text(dependencies)`

Parameter
`dependencies` (`list[Dependency]`)

Rückgabetyp
`str`

annize.features.dependencies.python module

Python project dependency handling.

`class annize.features.dependencies.python.Python(*, version, kind, comment)`
Bases: `Dependency`

Parameter
`version` (`str`)

`class annize.features.dependencies.python.PythonPackage(*, name, version, kind, comment)`
Bases: `Dependency`

Parameter

- `name` (`str`)
- `version` (`str`)

- **kind** ([Kind](#) / *None*)
- **comment** ([TrStr](#) / *None*)

property name: `str`

property version: `str`

```
class annize.features.dependencies.python.FromRequirementsFile(*, requirements_file, kind=None,
                                                             comment=None)
```

Bases: [Basket](#)

Parameter

requirements_file (`str` / *Path*)

annize.features.distributables namespace

Subpackages

annize.features.distributables.store namespace

Submodules

annize.features.distributables.store.pypi module

PyPI store for Python packages.

```
class annize.features.distributables.store.pypi.Connection(*, token)
```

Bases: `object`

Parameter

token (`str`)

property token: `str`

```
class annize.features.distributables.store.pypi.Upload(*, source, connection)
```

Bases: `object`

Parameter

- **source** ([FilesystemContent](#))
- **connection** ([Connection](#))

Submodules

annize.features.distributables.common module

Distributables.

This defines [Group](#) of packages. Package groups can be provided for download on the project homepage or similar.

There is also [PackageStore](#) for keeping a version history of packages (e.g. somewhere on disk).

```
class annize.features.distributables.common.PackageStore
```

Bases: `ABC`

Base class for a package store.

abstractmethod `store_package(items, *, name)`

Store package items.

Parameter

- **items** (*Sequence*[*FileSystemContent*]) – The items to store.
- **name** (*str*) – The item name.

Rückgabotyp

None

abstractmethod `package(*, name)`

Return package items.

Parameter

name (*str*) – The item name.

Rückgabotyp

Sequence[*FileSystemContent*] | None

abstractmethod `package_history(*, name, limit=3)`

Return the package history.

Parameter

- **name** (*str*) – The item name.
- **limit** (*int*) – The maximum number of history items to return.

Rückgabotyp

Sequence[*Sequence*[*FileSystemContent*]]

`_abc_impl = <_abc._abc_data object>`

class `annize.features.distributables.common.Group(*, title, files, description, package_store)`

Bases: `object`

A distributable group of package files.

Often this contains only a single file, but for some kinds of packages, there can be multiple files related to each other somehow.

Parameter

- **title** (*TrStr*) – The title of this group of package files.
- **files** (*Iterable*[*FileSystemContent*]) – The package files.
- **description** (*TrStr* / *None*) – Additional description text.
- **package_store** (*PackageStore* / *None*) – An optional package store.

property title: *TrStr*

The title of this group of package files.

files()

Return the files of this group.

Rückgabotyp

Sequence[*FileSystemContent*]

property description: *TrStr*

Additional description text.

property package_store: *PackageStore* | None

An optional package store.

__files_from_package_store()

Rückgabotyp

Iterable[*FilesystemContent*] | None

__store_files_to_package_store()

Rückgabotyp

None

__package_store_name()

Rückgabotyp

str

annize.features.distributables.debian module

Debian (.deb) packages.

class annize.features.distributables.debian.**Category**(**, debian_name, freedesktop_name*)

Bases: object

Parameter

- **debian_name** (*str*)
- **freedesktop_name** (*str*)

property **debian_name**: str

property **freedesktop_name**: str

class annize.features.distributables.debian.**MenuEntry**(**, name, title, category, command, is_gui, icon*)

Bases: object

Parameter

- **name** (*str*)
- **title** (*TrStr*)
- **category** (*Category*)
- **command** (*str*)
- **is_gui** (*bool*)
- **icon** (*str* | *Path* | *FilesystemContent* | None)

property **name**: str

property **title**: *TrStr*

property **category**: *Category* | None

property **command**: str

property **is_gui**: bool

property icon: *FilesystemContent* | None

class annize.features.distributables.debian.ExecutableLink(*, path, name)

Bases: object

Parameter

- **path** (*str*)
- **name** (*str* | None)

property path: *str*

property name: *str*

annize.features.distributables.debian._debian_category(*debian_name*, *freedesktop_name*)

Parameter

- **debian_name** (*str*)
- **freedesktop_name** (*str*)

Rückgabety

type[Category]

annize.features.distributables.debian.ApplicationsAccessibilityCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsAmateurradioCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsDatamanagementCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEditorsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEducationCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEmulatorsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsFilemanagementCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsGraphicsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsMobiledevicesCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkCommunicationCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkFiletransferCategory

alias of ACategory

`annize.features.distributables.debian.ApplicationsNetworkMonitoringCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsNetworkWebbrowsingCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsNetworkWebnewsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsOfficeCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsProgrammingCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsProjectmanagementCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceAstronomyCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceBiologyCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceChemistryCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceDataanalysisCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceElectronicsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceEngineeringCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceGeoscienceCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceMathematicsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceMedicineCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSciencePhysicsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsScienceSocialCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsShellsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSoundsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemAdministrationCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemHardwareCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemLanguageenvironmentCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemMonitoringCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemPackagemanagementCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsSystemSecurityCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsTerminalemulatorsCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsTextCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsTvandradiocategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsViewersCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsVideoCategory`
alias of ACategory

`annize.features.distributables.debian.ApplicationsWebdevelopmentCategory`
alias of ACategory

`annize.features.distributables.debian.GamesActionCategory`
alias of ACategory

`annize.features.distributables.debian.GamesAdventureCategory`
alias of ACategory

`annize.features.distributables.debian.GamesBlocksCategory`
alias of ACategory

`annize.features.distributables.debian.GamesBoardCategory`
alias of ACategory

`annize.features.distributables.debian.GamesCardCategory`
alias of ACategory

```
annize.features.distributables.debian.GamesPuzzlesCategory
    alias of ACategory
annize.features.distributables.debian.GamesSimulationCategory
    alias of ACategory
annize.features.distributables.debian.GamesStrategyCategory
    alias of ACategory
annize.features.distributables.debian.GamesToolsCategory
    alias of ACategory
annize.features.distributables.debian.GamesToysCategory
    alias of ACategory
annize.features.distributables.debian.HelpCategory
    alias of ACategory
annize.features.distributables.debian.ScreenSavingCategory
    alias of ACategory
annize.features.distributables.debian.ScreenLockingCategory
    alias of ACategory
class annize.features.distributables.debian.Section(*, name)
    Bases: object
    property name: str
annize.features.distributables.debian._debian_section(name)

    Parameter
        name (str)

    Rückgabotyp
        Type[Section]
annize.features.distributables.debian.AdministrationUtilitiesSection
    alias of ASection
annize.features.distributables.debian.MonoCliSection
    alias of ASection
annize.features.distributables.debian.CommunicationProgramsSection
    alias of ASection
annize.features.distributables.debian.DatabasesSection
    alias of ASection
annize.features.distributables.debian.DebianInstallerUdebPackagesSection
    alias of ASection
annize.features.distributables.debian.DebugPackagesSection
    alias of ASection
annize.features.distributables.debian.DevelopmentSection
    alias of ASection
```

`annize.features.distributables.debian.DocumentationSection`

alias of ASection

`annize.features.distributables.debian.EditorsSection`

alias of ASection

`annize.features.distributables.debian.EducationSection`

alias of ASection

`annize.features.distributables.debian.ElectronicsSection`

alias of ASection

`annize.features.distributables.debian.EmbeddedSoftwareSection`

alias of ASection

`annize.features.distributables.debian.FontsSection`

alias of ASection

`annize.features.distributables.debian.GamesSection`

alias of ASection

`annize.features.distributables.debian.GnomeSection`

alias of ASection

`annize.features.distributables.debian.GnuRSection`

alias of ASection

`annize.features.distributables.debian.GnustepSection`

alias of ASection

`annize.features.distributables.debian.GraphicsSection`

alias of ASection

`annize.features.distributables.debian.HamRadioSection`

alias of ASection

`annize.features.distributables.debian.HaskellSection`

alias of ASection

`annize.features.distributables.debian.WebServersSection`

alias of ASection

`annize.features.distributables.debian.InterpretersSection`

alias of ASection

`annize.features.distributables.debian.IntrospectionSection`

alias of ASection

`annize.features.distributables.debian.JavaSection`

alias of ASection

`annize.features.distributables.debian.JavascriptSection`

alias of ASection

`annize.features.distributables.debian.KdeSection`

alias of ASection

`annize.features.distributables.debian.KernelsSection`

alias of ASection

`annize.features.distributables.debian.LibraryDevelopmentSection`

alias of ASection

`annize.features.distributables.debian.LibrariesSection`

alias of ASection

`annize.features.distributables.debian.LispSection`

alias of ASection

`annize.features.distributables.debian.LanguagePacksSection`

alias of ASection

`annize.features.distributables.debian.MailSection`

alias of ASection

`annize.features.distributables.debian.MathematicsSection`

alias of ASection

`annize.features.distributables.debian.MetaPackagesSection`

alias of ASection

`annize.features.distributables.debian.MiscellaneousSection`

alias of ASection

`annize.features.distributables.debian.NetworkSection`

alias of ASection

`annize.features.distributables.debian.NewsgroupsSection`

alias of ASection

`annize.features.distributables.debian.OcamlSection`

alias of ASection

`annize.features.distributables.debian.OldLibrariesSection`

alias of ASection

`annize.features.distributables.debian.OtherOSsAndFSsSection`

alias of ASection

`annize.features.distributables.debian.PperlSection`

alias of ASection

`annize.features.distributables.debian.PhpSection`

alias of ASection

`annize.features.distributables.debian.PythonSection`

alias of ASection

`annize.features.distributables.debian.RubySection`

alias of ASection

`annize.features.distributables.debian.RustSection`

alias of ASection

`annize.features.distributables.debian.ScienceSection`

alias of ASection

`annize.features.distributables.debian.ShellsSection`

alias of ASection

`annize.features.distributables.debian.SoundSection`

alias of `ASection`

`annize.features.distributables.debian.TasksSection`

alias of `ASection`

`annize.features.distributables.debian.TexSection`

alias of `ASection`

`annize.features.distributables.debian.TextProcessingSection`

alias of `ASection`

`annize.features.distributables.debian.UtilitiesSection`

alias of `ASection`

`annize.features.distributables.debian.VersionControlSystemsSection`

alias of `ASection`

`annize.features.distributables.debian.VideoSection`

alias of `ASection`

`annize.features.distributables.debian.VirtualPackagesSection`

alias of `ASection`

`annize.features.distributables.debian.WebSoftwareSection`

alias of `ASection`

`annize.features.distributables.debian.XWindowSystemSoftwareSection`

alias of `ASection`

`annize.features.distributables.debian.XfceSection`

alias of `ASection`

`annize.features.distributables.debian.ZopePloneFrameworkSection`

alias of `ASection`

class `annize.features.distributables.debian.ServiceDescription`(*name, command*)

Bases: `object`

Description for Debian services to be included in a package.

Parameter

- **name** (*str*) – The display name.
- **command** (*str*) – The command to be executed.

class `annize.features.distributables.debian.Package`(*, *source, menuentries, executable_links, packagename, description, summary, section, homepage_url, version, documentation, authors, prerm="", postinst="", architecture='all'*)

Bases: `FilesystemContent`

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **source** (`FilesystemContent`)
- **menuentries** (*list* [`MenuEntry`])

- **executable_links** (*list*[[ExecutableLink](#)])
- **packagename** (*str* | *None*)
- **description** ([TrStr](#) | *None*)
- **summary** ([TrStr](#) | *None*)
- **section** ([Section](#) | *None*)
- **homepage_url** (*str* | *None*)
- **version** ([Version](#) | *None*)
- **documentation** ([FilesystemContent](#) | *None*)
- **authors** (*list*[[Author](#)])
- **prerm** (*str*)
- **postinst** (*str*)
- **architecture** (*str*)

_path()

```
class _BuildInfo(source: annize.fs.FilesystemContent, executable_links:
    list[annize.features.distributables.debian.ExecutableLink], menuentries:
    list[annize.features.distributables.debian.MenuEntry], services:
    list[annize.features.distributables.debian.ServiceDescription], description: str, name:
    str, version: annize.data.version.Version, homepage: str, author:
    annize.features.authors.Author, licensename: str, section:
    annize.features.distributables.debian.Section | None, summary: str,
    documentation_source: annize.fs.FilesystemContent | None, prerm: str, postinst: str,
    architecture: str, authorstring: str = None, pkgrootpath: str = None, pkgpath_debian: str
    = None, pkgpath_documentation: str = None, pkgpath_pixmaps: str = None,
    pkgpath_usrbin: str = None, config_files: list[str] = None, pkgsize: int = None, result:
    annize.fs.FilesystemContent = None)
```

Bases: `object`

Parameter

- **source** ([FilesystemContent](#))
- **executable_links** (*list*[[ExecutableLink](#)])
- **menuentries** (*list*[[MenuEntry](#)])
- **services** (*list*[[ServiceDescription](#)])
- **description** (*str*)
- **name** (*str*)
- **version** ([Version](#))
- **homepage** (*str*)
- **author** ([Author](#))
- **licensename** (*str*)
- **section** ([Section](#) | *None*)
- **summary** (*str*)
- **documentation_source** ([FilesystemContent](#) | *None*)

- `prerm(str)`
- `postinst(str)`
- `architecture(str)`
- `authorstring(str)`
- `pkgrootpath(str)`
- `pkgpath_debian(str)`
- `pkgpath_documentation(str)`
- `pkgpath_pixmap(str)`
- `pkgpath_usrbin(str)`
- `config_files(list[str])`
- `pkgsize(int)`
- `result(FilesystemContent)`

`source: FilesystemContent`

`executable_links: list[ExecutableLink]`

`menuentries: list[MenuEntry]`

`services: list[ServiceDescription]`

`description: str`

`name: str`

`version: Version`

`homepage: str`

`author: Author`

`licensename: str`

`section: Section | None`

`summary: str`

`documentation_source: FilesystemContent | None`

`prerm: str`

`postinst: str`

`architecture: str`

`authorstring: str = None`

`pkgrootpath: str = None`

`pkgpath_debian: str = None`

`pkgpath_documentation: str = None`

```

    pkgpath_pixmaps: str = None
    pkgpath_usrbin: str = None
    config_files: list[str] = None
    pkgsize: int = None
    result: FilesystemContent = None

classmethod _mkpackage(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        FilesystemContent

classmethod _mkpackage_prepareinfos(build, tmpdir)
    Parameter
        • build (_BuildInfo)
        • tmpdir (str | Path)
    Rückgabetyt
        None

classmethod _mkpackage_mkcopyright(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        None

classmethod _mkpackage_mkchangelog(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        None

classmethod _mkpackage_mkexeclinks(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        None

classmethod _mkpackage_mkmenuentries(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        None

```

classmethod `_mkpackage_mkservices(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_determinesize(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mkprepostcmds(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mkdebiancontrolfile(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mkdebianconffilesfile(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_correctbuildsourcepermissions(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_dpkg(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

annize.features.distributables.flatpak module

Flatpaks.

```
class annize.features.distributables.flatpak.MenuEntry(*, name, title, category, command, is_gui,
                                                         icon)
```

Bases: object

Parameter

- **name** (*str*)
- **title** (*TrStr*)
- **category** (*Tuple*)
- **command** (*str*)
- **is_gui** (*bool*)
- **icon** (*FilesystemContent* | *None*)

property **name**: *str*

property **title**: *TrStr*

property **category**: *Tuple*

property **command**: *str*

property **is_gui**: *bool*

property **icon**: *FilesystemContent* | *None*

```
class annize.features.distributables.flatpak.Filesystem(**b)
```

Bases: object

```
class annize.features.distributables.flatpak.Share(**b)
```

Bases: object

```
class annize.features.distributables.flatpak.EnvironmentVariable(**b)
```

Bases: object

```
class annize.features.distributables.flatpak.Repository(*, public_url, friendly_name_suggestion)
```

Bases: object

Parameter

- **public_url** (*str*)
- **friendly_name_suggestion** (*str* | *None*)

upload(*source*)

Parameter

source (*FilesystemContent*)

property **public_url**: *str*

property **friendly_name_suggestion**: *str*

```
class annize.features.distributables.flatpak.LocalRepository(*, public_url,
                                                             friendly_name_suggestion,
                                                             upload_path, upload_fsentry)
```

Bases: *Repository*

Parameter

- **public_url** (*str*)
- **friendly_name_suggestion** (*str* | *None*)
- **upload_path** (*str* | *None*)
- **upload_fsentry** (*FileSystemContent* | *None*)

upload(*source*)

Parameter

source (*FileSystemContent*)

```
class annize.features.distributables.flatpak.Group(*, source, title, description, repository,  
                                                    package_name, project_short_hint_name,  
                                                    package_short_name)
```

Bases: *Group*

Parameter

- **title** (*str*) – The title of this group of package files.
- **files** – The package files.
- **description** (*TrStr* | *None*) – Additional description text.
- **package_store** – An optional package store.
- **source** (*FileSystemContent*)
- **repository** (*Repository*)
- **package_name** (*str*)
- **project_short_hint_name** (*str* | *None*)
- **package_short_name** (*str* | *None*)

files()

Return the files of this group.

property description

Additional description text.

```
class annize.features.distributables.flatpak.FlatpakrefFile(*, refname, package_name, title,  
                                                            branch='master',  
                                                            runtime_repository_url, gpgkey,  
                                                            repository)
```

Bases: *FileSystemContent*

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **refname** (*str* | *None*)
- **package_name** (*str*)
- **title** (*str* | *None*)
- **branch** (*str*)
- **runtime_repository_url** (*str* | *None*)
- **gpgkey** (*bytes* | *None*)

- **repository** ([Repository](#))

_path()

class `annize.features.distributables.flatpak.GpgFile(*, refname=None, gpgkey=None)`

Bases: [FilesystemContent](#)

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **refname** (*str*)
- **gpgkey** (*bytes*)

_path()

class `annize.features.distributables.flatpak.FlatpakImage(*, source, package_name, sockets=('x11'), filesystems=('home'), shares=('network'))`

Bases: [FilesystemContent](#)

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **source** ([FilesystemContent](#))
- **package_name** (*str*)
- **sockets** (*Iterable[str]*)
- **filesystems** (*Iterable[str]*)
- **shares** (*Iterable[str]*)

_path()

class `_BuildInfo(source: annize.fs.FilesystemContent, name: str, sdk: str, platform: str, kitversion: str | None, command: str | None, sockets: Iterable[str], filesystems: Iterable[str], shares: Iterable[str], menu_entries: Iterable[annize.features.distributables.flatpak.MenuEntry], environment: dict[str, str], pkgrootpath: str = None, pkgpath_share: str = None, pkgpath_share_applications: str = None, pkgpath_share_icons: str = None, result: annize.fs.FilesystemContent = None)`

Bases: `object`

Parameter

- **source** ([FilesystemContent](#))
- **name** (*str*)
- **sdk** (*str*)
- **platform** (*str*)
- **kitversion** (*str* | *None*)
- **command** (*str* | *None*)
- **sockets** (*Iterable[str]*)
- **filesystems** (*Iterable[str]*)

- `shares` (`Iterable[str]`)
- `menu_entries` (`Iterable[MenuEntry]`)
- `environment` (`dict[str, str]`)
- `pkgrootpath` (`str`)
- `pkgpath_share` (`str`)
- `pkgpath_share_applications` (`str`)
- `pkgpath_share_icons` (`str`)
- `result` (`FilesystemContent`)

source: `FilesystemContent`

`name: str`

`sdk: str`

`platform: str`

`kitversion: str | None`

`command: str | None`

`sockets: Iterable[str]`

`filesystems: Iterable[str]`

`shares: Iterable[str]`

`menu_entries: Iterable[MenuEntry]`

`environment: dict[str, str]`

`pkgrootpath: str = None`

`pkgpath_share: str = None`

`pkgpath_share_applications: str = None`

`pkgpath_share_icons: str = None`

`result: FilesystemContent = None`

classmethod `_mkpackage_prepareinfos(build, tmpdir)`

Parameter

- `build` (`_BuildInfo`)
- `tmpdir` (`Path`)

Rückgabotyp

`None`

classmethod `_mkpackage_flatpak_build_init(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

`None`

classmethod `_mkpackage_applysource(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_flatpak_build_finish(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_share(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_flatpak_build_export(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

`Path`

annize.features.distributables.python_wheel module

Python Wheels.

class `annize.features.distributables.python_wheel.ExecutableLink(*, linkname, modulename, methodname, is_gui)`

Bases: `object`

Parameter

- `linkname` (`str`)
- `modulename` (`str`)
- `methodname` (`str`)
- `is_gui` (`bool`)

property `linkname`: `str`

property `modulename`: `str`

property `methodname`: `str`

property `is_gui`: `bool`

```
class annize.features.distributables.python_wheel.Package(*, source, executable_links,
                                                         packagename, description,
                                                         homepage_url, long_description,
                                                         version, keywords, dependencies, license,
                                                         authors)
```

Bases: `FilesystemContent`

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **source** (`FilesystemContent`)
- **executable_links** (`Iterable[ExecutableLink]`)
- **packagename** (`str` | `None`)
- **description** (`TrStr` | `None`)
- **homepage_url** (`str` | `None`)
- **long_description** (`TrStr` | `None`)
- **version** (`Version` | `None`)
- **keywords** (`Keywords` | `None`)
- **dependencies** (`Iterable[PythonPackage]`)
- **license** (`License` | `None`)
- **authors** (`Iterable[Author]`)

`_path()`

```
class _BuildInfo(source: annize.fs.FilesystemContent, description: str, long_description: str, keywords:
                 annize.features.base.Keywords, name: str, version: annize.data.version.Version,
                 homepage: str, author: annize.features.authors.Author, license:
                 annize.features.licensing.License, executable_links:
                 list[annize.features.distributables.python_wheel.ExecutableLink], dependencies: list,
                 pkgrootpath: str = None, pkgpath_setuppy: str = None, setuppy_conf: dict[str, Any] |
                 None] = None, result: annize.fs.FilesystemContent = None)
```

Bases: `object`

Parameter

- **source** (`FilesystemContent`)
- **description** (`str`)
- **long_description** (`str`)
- **keywords** (`Keywords`)
- **name** (`str`)
- **version** (`Version`)
- **homepage** (`str`)
- **author** (`Author`)
- **license** (`License`)

```

    • executable_links (list[ExecutableLink])
    • dependencies (list)
    • pkgrootpath (str)
    • pkgpath_setuppy (str)
    • setuppy_conf (dict[str, Any | None])
    • result (FilesystemContent)
source: FilesystemContent
description: str
long_description: str
keywords: Keywords
name: str
version: Version
homepage: str
author: Author
license: License
executable_links: list[ExecutableLink]
dependencies: list
pkgrootpath: str = None
pkgpath_setuppy: str = None
setuppy_conf: dict[str, Any | None] = None
result: FilesystemContent = None
classmethod _mkpackage(build)
    Parameter
        build (_BuildInfo)
    Rückgabetyt
        FilesystemContent
classmethod _mkpackage_prepareinfos(build, tmpdir)
    Parameter
        • build (_BuildInfo)
        • tmpdir (Path)
    Rückgabetyt
        None

```

classmethod `_mkpackage_setuppyconf_prepare(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_setuppyconf_install_requires(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_setuppyconf_classifiers(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mkexeclinks(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mksetuppyconf(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_bdist_wheel(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

classmethod `_mkpackage_mkmanifestin(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

None

annize.features.distributables.tar module

Tarballs.

```
class annize.features.distributables.tar.Package(*, packagename, packagenamepostfix, source,
                                                version, license, documentation)
```

Bases: *FilesystemContent*

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **packagename** (*str* / *None*)
- **packagenamepostfix** (*str* / *None*)
- **source** (*FilesystemContent*)
- **version** (*Version* / *None*)
- **license** (*License* / *None*)
- **documentation** (*FilesystemContent* / *None*)

_path()

annize.features.documentation namespace

Subpackages

annize.features.documentation.sphinx namespace

Subpackages

annize.features.documentation.sphinx.output namespace

Submodules

annize.features.documentation.sphinx.output.common module

Sphinx-based documentation output.

```
annize.features.documentation.sphinx.output.common.register_output_generator(outputgenerator)
```

```
annize.features.documentation.sphinx.output.common.find_output_generator_for_outputspec(outputspec)
```

```
class annize.features.documentation.sphinx.output.common.OutputGenerator(outputspec)
```

Bases: ABC

Base class for documentation output specifications. See `render()`.

property outputspec: *OutputSpec*

abstractmethod classmethod is_compatible_for(*outputspec*)

Parameter

outputspec (*OutputSpec*)

Rückgabetyt

bool

abstractmethod formatname()

Returns the Sphinx format name.

Rückgabetyt

str

prepare_generate(*geninfo*)

Parameter

geninfo (*documentationsphinx.Document.GenerateInfo*)

Rückgabotyp

None

postproc(*preresult*)

Parameter

preresult (*FilesystemContent*)

Rückgabotyp

FilesystemContent

multilanguage_frame(*document*)

Parameter

document (*documentationsphinx.Document*)

Rückgabotyp

DocumentGenerateAllCulturesResult

_abc_impl = <_abc._abc_data object>

annize.features.documentation.sphinx.output.html module

Sphinx-based HTML documentation output.

```
class annize.features.documentation.sphinx.output.html.HtmlOutputSpec(*, is_homepage=False,
    short_title=None,
    short_desc=None,
    theme=None,
    masterlink=None,
    logo_image=None, background_image=None)
```

Bases: *HtmlOutputSpec*

Parameter

- **theme** (*str* / *None*) – The sphinx html theme name.
- **short_title** (*TrStr* / *None*) – The short html title.
- **short_desc** (*TrStr* / *None*) – The short description. Ignored by most themes.
- **masterlink** (*str* / *None*) – Url that overrides the target of the main heading (which is also a link).
- **is_homepage** (*bool*)
- **logo_image** (*str* / *Path* / *FilesystemContent* / *None*)
- **background_image** (*str* / *Path* / *FilesystemContent* / *None*)

property **short_title**: *TrStr* | *None*

property **short_desc**: *TrStr* | *None*

property **theme**: *str* | *None*


```

property masterlink: str | None

property logo_image: FilesystemContent | None

property background_image: FilesystemContent | None

_abc_impl = <_abc._abc_data object>

```

```
class annize.features.documentation.sphinx.output.html.HtmlOutputGenerator(outputspec)
```

Bases: *OutputGenerator*

HTML documentation output.

```
classmethod is_compatible_for(outputspec)
```

```
formatname()
```

Returns the Sphinx format name.

```
prepare_generate(geninfo)
```

```
multilanguage_frame(document)
```

```
_abc_impl = <_abc._abc_data object>
```

annize.features.documentation.sphinx.output.pdf module

Sphinx-based PDF documentation output.

```
class annize.features.documentation.sphinx.output.pdf.PdfOutputGenerator(outputspec)
```

Bases: *OutputGenerator*

PDF documentation output.

```
classmethod is_compatible_for(outputspec)
```

```
formatname()
```

Returns the Sphinx format name.

```
postproc(preresult)
```

Parameter

preresult (*str* | *Path*)

Rückgabotyp

Path

```
_abc_impl = <_abc._abc_data object>
```

annize.features.documentation.sphinx.output.plaintext module

Sphinx-based plaintext documentation output.

```
class annize.features.documentation.sphinx.output.plaintext.PlaintextOutputGenerator(outputspec)
```

Bases: *OutputGenerator*

Plaintext documentation output.

```
classmethod is_compatible_for(outputspec)
```

formatname()

Returns the Sphinx format name.

_abc_impl = <_abc._abc_data object>

Submodules

annize.features.documentation.sphinx._utils module

Internal Sphinx utilities.

annize.features.documentation.sphinx._utils.serialize_for_confpy(obj)

Parameter

obj (*Any*)

Rückgabety

str

annize.features.documentation.sphinx.common module

Sphinx-based documentation.

class annize.features.documentation.sphinx.common.**Document**(**project_name*, *title*, *authors*, *version*, *release*)

Bases: *Document*, ABC

Parameter

- **project_name** (*TrStr* / *None*)
- **title** (*TrStr* / *None*)
- **authors** (*list*[*Author*])
- **version** (*Version* / *None*)
- **release** (*TrStr* / *None*)

class **GenerateInfo**(*main_document*: 'Document', *intstruct*: *annize.fs.Path*, *outdir*: *annize.fs.FilesystemContent*, *confdir*: *annize.fs.FilesystemContent*, *culture*: *annize.i18n.Culture*, *configvalues*: *dict*, *configlines*: *list*, *entry_path*: *str* = '')

Bases: object

Parameter

- **main_document** (*Document*)
- **intstruct** (*Path*)
- **outdir** (*FilesystemContent*)
- **confdir** (*FilesystemContent*)
- **culture** (*Culture*)
- **configvalues** (*dict*)
- **configlines** (*list*)
- **entry_path** (*str*)

main_document: *Document*

```

    intstruct: Path
    outdir: FilesystemContent
    confdir: FilesystemContent
    culture: Culture
    configvalues: dict
    configlines: list
    entry_path: str = ''
    _to_dict()
abstractmethod _generate_sources(geninfo)
    Parameter
        geninfo (GenerateInfo)
    Rückgabety
        str
property projectname__original: TrStr | None
property project_name: TrStr
property title__original: TrStr | None
property title: TrStr
property authors: list[Author]
property version: Version | None
property release: TrStr | None
generate_all_cultures(outputspec)
generate(outputspec, *, culture=None)
__generate_set_misc(geninfo)
__generate_prepare_shortsnippets()
__generate_prepare_annizeicons()
__generate_set_culture()
__generate_set_version_and_release(geninfo)
__generate_geninfo_to_confpy()
_abc_impl = <_abc._abc_data object>
class annize.features.documentation.sphinx.common.CompositeDocument(*, documents, **kwargs)
    Bases: Document
    Parameter
        documents (Iterable[Document])

```

```
__get_inner_generateinfo(innerdoc)
```

Parameter

- **geninfo** ([GenerateInfo](#))
- **innerdoc** ([Document](#))

```
_generate_sources(geninfo)
```

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.ApiReferenceLanguage
```

Bases: [ABC](#)

Base class for a programming language in api references. See [ApiReferencePiece](#).

```
class ApiReferenceGenerateInfo(geninfo, source, heading)
```

Bases: [GenerateInfo](#)

Parameter

- **geninfo** ([GenerateInfo](#))
- **source** ([FilesystemContent](#))
- **heading** ([TrStr](#))

property **source**: [FilesystemContent](#)

property **heading**: [TrStr](#)

```
abstractmethod generate_sources(rgeninfo)
```

Parameter

rgeninfo ([ApiReferenceGenerateInfo](#))

Rückgabetyp

[str](#)

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.ApiReferenceDocument(*, language, heading,
                                                                    source, cultures,
                                                                    **kwargs)
```

Bases: [Document](#)

An api reference.

Parameter

- **language** ([ApiReferenceLanguage](#))
- **heading** ([TrStr](#) | *None*)
- **source** (*str* | *Path* | [FilesystemContent](#))
- **cultures** (*list* [[Culture](#)])

```
available_cultures()
```

```
__get_refgeninfo(geninfo)
```

Parameter

geninfo ([GenerateInfo](#))

```
_generate_sources(geninfo)
```

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.ArgparseCommandLineInterfaceDocument(*,
                                                                                       par-
                                                                                       ser_factory,
                                                                                       pro-
                                                                                       gram_name,
                                                                                       hea-
                                                                                       ding,
                                                                                       sour-
                                                                                       ce,
                                                                                       cul-
                                                                                       tu-
                                                                                       res,
                                                                                       **kwargs)
```

Bases: *Document*

Parameter

- **parser_factory** (*str*)
- **program_name** (*str*)
- **heading** (*str* | *None*)
- **source** (*str* | *Path* | *FilesystemContent*)
- **cultures** (*list*[*Culture*])

```
available_cultures()
```

```
_generate_sources(geninfo)
```

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.RstDocumentVariant(*, cul-
                                                                                       ture=<annize.i18n.UnspecifiedCulture
                                                                                       object>, source)
```

Bases: *object*

Parameter

- **culture** (*Culture*)
- **source** (*str* | *Path* | *FilesystemContent*)

```
property culture: Culture
```

```
property source: FilesystemContent
```

```
class annize.features.documentation.sphinx.common.RstDocument(*, variants, **kwargs)
```

Bases: *Document*

A reStructuredText formatted file or a directory of such files.

Parameter

```
variants (list[RstDocumentVariant])
```

```
available_cultures()
```

```
__get_variant(culture)
```

Parameter

culture (*Culture*)

Rückgabebetyp

RstDocumentVariant | None

```
_generate_sources(geninfo)
```

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.AboutProjectDocument(*, dependencies,  
                                                                    cultures, **kwargs)
```

Bases: *Document*

Parameter

- **dependencies** (*list*[*Dependency*])
- **cultures** (*list*[*Culture*])

```
available_cultures()
```

```
_generate_sources(geninfo)
```

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.sphinx.common.ReadmeDocument(*, project_name, title, authors,  
                                                                    version, release, documents,  
                                                                    dependencies, cultures)
```

Bases: *CompositeDocument*

A reStructuredText formatted file or a directory of such files.

Parameter

- **documents** (*Iterable*[*Document*])
- **dependencies** (*list*[*Dependency*])
- **cultures** (*list*[*Culture*])

```
_ABOUT_NAME = 'annize..about'
```

```
_abc_impl = <_abc._abc_data object>
```

```
available_cultures()
```

```
property title
```

annize.features.documentation.sphinx.cpp module

Sphinx-based C/C++ documentation.

```
class annize.features.documentation.sphinx.cpp.CppApiReferenceLanguage(**kwargs)
```

Bases: *DoxygenSupportedApiReferenceLanguage*

C++ language support for api references.

```
_abc_impl = <_abc._abc_data object>
```

annize.features.documentation.sphinx.doxygen_compat module

Sphinx-based documentation with Doxygen support.

```
class annize.features.documentation.sphinx.doxygen_compat.DoxygenSupportedApiReferenceLanguage(*,
    _doxy-
    ge-
    nopts=None,
    ex-
    tract_all=True,
    ex-
    tract_private=True,
    ex-
    tract_package=True,
    ex-
    tract_static=True,
    ex-
    tract_local=True,
    ex-
    tract_local=True,
    ex-
    tract_anon=True,
    ex-
    tract_priv=True,
    fi-
    le_patterns=None,
    in-
    li-
    ne_inheritance=True,
    in-
    her-
    it_docs=True,
    hi-
    de_undoc=True,
    hi-
    de_undoc=True,
    ex-
    clu-
    de_patterns=None,
    pre-
    de-
    fi-
    ned=None)
```

Bases: [*ApiReferenceLanguage*](#)

Language support for api references powered by Doxygen.

Parameter

- **_doxygenopts** (*dict[str, str] | None*)
- **extract_all** (*bool*)
- **extract_private** (*bool*)
- **extract_package** (*bool*)
- **extract_static** (*bool*)

- **extract_local_classes** (*bool*)
- **extract_local_methods** (*bool*)
- **extract_anon_nsplaces** (*bool*)
- **extract_priv_virtual** (*bool*)
- **file_patterns** (*str*)
- **inline_inherited_memb** (*bool*)
- **inherit_docs** (*bool*)
- **hide_undoc_members** (*bool*)
- **hide_undoc_classes** (*bool*)
- **exclude_patterns** (*str*)
- **predefined** (*list[str] | None*)

__info(*outpath*)

__prepare_generate(*rootpath, outpath*)

generate_sources(*srcpath, intstructpath, confdirpath, heading*)

_abc_impl = <_abc._abc_data object>

annize.features.documentation.sphinx.javascript module

Sphinx-based Javascript documentation.

class annize.features.documentation.sphinx.javascript.JavaScriptApiReferenceLanguage

Bases: [ApiReferenceLanguage](#)

JavaScript language support for api references.

__jsfiles(*dirf*)

Parameter

dirf (*str*)

Rückgabotyp

list[str]

__scanjsfile(*f*)

Parameter

f (*str*)

Rückgabotyp

str

generate_sources(*rgeninfo*)

_abc_impl = <_abc._abc_data object>

annize.features.documentation.sphinx.python module

Sphinx-based Python documentation.

```
class annize.features.documentation.sphinx.python.Python3ApiReferenceLanguage(*,
                                                                              show_undoc_members=True,
                                                                              show_protected_members=True)
```

Bases: [ApiReferenceLanguage](#)

Python 3 language support for api references.

Parameter

- **show_undoc_members** (*bool*)
- **show_protected_members** (*bool*)

__patch_property_types_in_docstrings (*pdir*)

Parameter

pdir (*str*)

Rückgabetyp

None

generate_sources (*rgeninfo*)

_abc_impl = <_abc._abc_data object>

annize.features.documentation.sphinx.rst module

Sphinx-based reStructuredText documentation.

```
class annize.features.documentation.sphinx.rst.RstGenerator
```

Bases: object

Generator for some documentation source parts.

```
static heading(text, *, variant='=', sub=False, anchor=None)
```

Generates documentation source for a section heading.

Parameter

- **text** ([TrStr](#) | *str*)
- **variant** (*str*)
- **sub** (*bool*)
- **anchor** (*str* | *None*)

Rückgabetyp

str

Submodules

annize.features.documentation.common module

Documentation.

```
class annize.features.documentation.common.DocumentGenerateResult(file, entry_path)
```

Bases: object

Parameter

- **file** ([FilesystemContent](#))
- **entry_path** (*str*)

property **file**: [FilesystemContent](#)

property **entry_path**: *str*

_set_entry_path(*entry_path*)

Parameter

entry_path (*str*)

Rückgabotyp

None

```
class annize.features.documentation.common.DocumentGenerateAllCulturesResult(file, entry_path,
                                                                              entry_paths_for_languages)
```

Bases: [DocumentGenerateResult](#)

Parameter

- **file** ([FilesystemContent](#))
- **entry_path** (*str*)
- **entry_paths_for_languages** (*dict[str, str]*)

entry_path_for_language(*language*)

Parameter

language (*str*)

Rückgabotyp

str

property **languages**: *list[str]*

```
class annize.features.documentation.common.Document
```

Bases: ABC

abstractmethod available_cultures()

Rückgabotyp

list[Culture]

abstractmethod generate(*outputspec*, *, *culture=<annize.i18n.UnspecifiedCulture object>*)

Parameter

culture ([Culture](#))

Rückgabotyp

[DocumentGenerateResult](#)

abstractmethod generate_all_cultures(*outputspec*)

Rückgabotyp

[DocumentGenerateAllCulturesResult](#)

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.common.OutputSpec
```

Bases: `ABC`

Base class for documentation output specifications. See `render()`.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.common.HtmlOutputSpec(*, is_homepage=False)
```

Bases: `OutputSpec`

HTML documentation output.

Parameter

is_homepage (*bool*) – If to render output for a homepage with slight different stylings and behavior.

property is_homepage

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.common.PdfOutputSpec
```

Bases: `OutputSpec`

PDF documentation output.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.common.PlaintextOutputSpec
```

Bases: `OutputSpec`

Plaintext documentation output.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.documentation.common.GeneratedDocument(*, document, outputspec, culture,  
                                                                filename)
```

Bases: `FilesystemContent`

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **document** (`Document`)
- **outputspec** (`OutputSpec`)
- **culture** (`Culture` | `None`)
- **filename** (`str` | `None`)

```
_path()
```

annize.features.files namespace

Subpackages

annize.features.files.transfer namespace

Submodules

annize.features.files.transfer.common module

File transfers.

```
class annize.features.files.transfer.common.Endpoint
```

Bases: ABC

```
    abstractmethod access_filesystem(rootpath)
```

Parameter

 rootpath (str)

Rückgabetyp

 ContextManager[Path, bool | None]

```
    _abc_impl = <_abc._abc_data object>
```

```
class annize.features.files.transfer.common.FsEndpoint(*, fsentry, path)
```

Bases: [Endpoint](#)

Parameter

- fsentry ([Path](#) | None)
- path (str | None)

```
    access_filesystem(rootpath)
```

Parameter

 rootpath (str)

```
    _abc_impl = <_abc._abc_data object>
```

```
class annize.features.files.transfer.common.Upload(*, source, destination_endpoint,  
                                                    destination_path)
```

Bases: object

Parameter

- source ([FilesystemContent](#))
- destination_endpoint ([Endpoint](#))
- destination_path (str | Path | None)

annize.features.files.transfer.ssh module

ssh-based file transfers.

```
class annize.features.files.transfer.ssh.Endpoint(*, host, port=22, username, identity_file,  
                                                    has_shell_access=False)
```

Bases: [Endpoint](#)

Parameter

- host (str)
- port (int)
- username (str)
- identity_file (str | None)
- has_shell_access (bool)

```

property host: str
property port: int
property username: str
property identity_file: str | None
property has_shell_access: bool
access_filesystem(rootpath)
locationstring(path=None)

    Parameter
        path (str | None)

    Rückgabetyt
        str

exec(cmdline)

    Parameter
        cmdline (str)

    Rückgabetyt
        TODO

_abc_impl = <_abc._abc_data object>

```

Submodules

annize.features.files.common module

Files and directories.

```
class annize.features.files.common.FsEntry(*, path, root)
```

Bases: [FilesystemContent](#)

A filesystem location, either relative to the Annize project root directory or another root.

If it is already known whether the entry is a file or a [Directory](#), consider using [File](#) or [Directory](#) instead. Special files (e.g. symlinks) can also be represented by a [File](#).

Parameter

- **path** (str | Path | None) – The path that points to the referenced content (relative to root).
- **root** (str | Path | FilesystemContent | None) – The root directory. If unset, it is the Annize project root directory.

```
property root: FilesystemContent
```

The root directory.

[relative_path](#) is considered to be relative to this one.

```
property relative_path: Path
```

The path that points to the referenced content (relative to [root](#)).

```
_path()
```

class annize.features.files.common.**File**(*, *path*, *root*)

Bases: [FsEntry](#)

A file location, either relative to the Annize project root directory or another root.

Parameter

- **path** (*str* / [Path](#) / *None*) – The path that points to the referenced content (relative to root).
- **root** (*str* / [Path](#) / [FilesystemContent](#) / *None*) – The root directory. If unset, it is the Annize project root directory.

class annize.features.files.common.**Exclude**(*, *by_path_pattern*, *by_path*, *by_name_pattern*, *by_name*)

Bases: [object](#)

An exclusion definition. Usually used with [Directory](#) and [DirectoryPart](#).

Parameter

- **by_path_pattern** (*str* / *None*) – Exclude by this regexp pattern on the full path.
- **by_path** (*str* / *None*) – Exclude this path.
- **by_name_pattern** (*str* / *None*) – Exclude by this regexp pattern on the file name.
- **by_name** (*str* / *None*) – Exclude this file name.

__does_exclude(*by_text*, *by_pattern*)

Parameter

- **text** (*str*)
- **by_text** (*str*)
- **by_pattern** ([Pattern](#))

Rückgabetyp

[bool](#)

does_exclude(*relative_path*, *source*, *destination*)

Return whether a given location is excluded by this exclusion definition.

Parameter

- **relative_path** ([Path](#)) – The relative path to check for exclusion.
- **source** ([Path](#)) – The absolute source path.
- **destination** ([Path](#)) – The absolute destination path.

Rückgabetyp

[bool](#)

class annize.features.files.common.**ExcludeAllBut**(*, *excludes*)

Bases: [Exclude](#)

A negative exclusion definition.

It will exclude an item whenever `_none_` of the given inner exclude definitions match.

Parameter

excludes (*list* [[Exclude](#)]) – List of inner exclude definitions.

does_exclude(*relative_path*, *source*, *destination*)

Return whether a given location is excluded by this exclusion definition.

Parameter

- **relative_path** – The relative path to check for exclusion.
- **source** – The absolute source path.
- **destination** – The absolute destination path.

class annize.features.files.common.**DirectoryPart**(*, *excludes*, *root*, *source_path*=None, *destination_path*=None, *path*=None, *destination_is_parent*=False)

Bases: object

A part of a directory. Used in [Directory](#).

Parameter

- **excludes** (*Iterable*[[Exclude](#)]) – List of exclusion definitions.
- **root** (*str* | *Path* | [FilesystemContent](#) | None) – The root directory. If unset, it is the root directory specified for the owning [Directory](#).
- **source_path** (*str* | *Path* | None) – The path that points to the referenced content (relative to root).
- **destination_path** (*str* | *Path* | None) – The relative destination path inside the owning [Directory](#).
- **path** (*str* | *Path* | None) – Shorter way to set *source_path* and *destination_path* to the same path.
- **destination_is_parent** (*bool*) – Whether to consider the destination path as the parent of the new destination (instead of the new destination itself). The actual destination will have the same basename as the source then.

property excludes: [Sequence](#)[[Exclude](#)]

Exclusion definitions.

property root: [FilesystemContent](#) | None

The root directory (or None for the owning [Directory](#).root).

[source_path](#) is considered to be relative to this one.

property source_path: [Path](#)

The path that points to the referenced content (relative to [root](#)).

property destination_path: [Path](#)

The relative destination path inside the owning [Directory](#).

See also [destination_is_parent](#).

property destination_is_parent: bool

Whether to consider the destination path as the parent of the new destination (instead of the new destination itself).

class annize.features.files.common.**Directory**(*, *path*, *root*, *excludes*, *parts*, *name*)

Bases: [FsEntry](#)

A directory location, either relative to the Annize project root directory or another root.

Depending on how it is configured, this might point to a dynamically generated temporary location (e.g. if it is composed of parts or excludes are specified).

Parameter

- **path** (*str* / *None*) – The path that points to the referenced directory (relative to **root**). If set, do not set **parts**!
- **root** (*str* / *Path* / *FilesystemContent* / *None*) – The root directory. If unset, it is the Annize project root directory.
- **excludes** (*Iterable*[*Exclude*]) – Exclusion specifications. If some are specified, this directory will be dynamically generated. If set, do not set **parts**!
- **parts** (*Iterable*[*DirectoryPart*]) – Directory parts. If some are specified, this directory will be dynamically generated. Also, do not set **path** or **excludes**!
- **name** (*str* / *None*) – The name that this directory shall have (instead of its original name). If specified, this directory will be dynamically generated. It must not contain directory separator characters (mostly "/").

property **parts**: Sequence[*DirectoryPart*]

property **excludes**: Sequence[*Exclude*]

_path()

__transfer_filter_for_exclude()

Parameter

exclude (*Exclude*)

Rückgabotyp

annize.fs.Path.TTransferFilter

class annize.features.files.common.**ProjectDirectory**

Bases: *FilesystemContent*

The Annize project root directory.

Parameter

generate_func – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).

_path()

class annize.features.files.common.**MachineRootDirectory**

Bases: *FilesystemContent*

The machine root directory, i.e. /.

Parameter

generate_func – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).

_path()

annize.features.homepage namespace

Subpackages

annize.features.homepage.sections namespace

Submodules

annize.features.homepage.sections.about module

Homepage about section.

```
class annize.features.homepage.sections.about.Section(*, head=<annize.i18n.ProvidedTrStr object>,
                                                    sort_index=10000)
```

Bases: [HomepageSection](#)

generate_content(info)

_abc_impl = <_abc._abc_data object>

annize.features.homepage.sections.changelog module

Homepage changelog section.

```
class annize.features.homepage.sections.changelog.Section(*, changelog,
                                                         head=<annize.i18n.ProvidedTrStr
                                                         object>, sort_index=60000)
```

Bases: [HomepageSection](#)

Parameter

changelog ([Changelog](#) / None)

generate_content(info)

_abc_impl = <_abc._abc_data object>

annize.features.homepage.sections.documentation module

Homepage documentation section.

```
class annize.features.homepage.sections.documentation.Section(*, documentation,
                                                                head=<annize.i18n.ProvidedTrStr
                                                                object>, sort_index=30000)
```

Bases: [HomepageSection](#)

Parameter

documentation (list [[Document](#)])

pre_process_generate(info)

generate_content(info)

_abc_impl = <_abc._abc_data object>

annize.features.homepage.sections.download module

Homepage download section.

```
class annize.features.homepage.sections.download.Section(*, distributables, dependencies,
                                                         head=<annize.i18n.ProvidedTrStr
                                                         object>, sort_index=40000)
```

Bases: [HomepageSection](#)

Parameter

- **distributables** (*list*[[Group](#)])
- **dependencies** (*list*[[Dependency](#)])

__generate_packagelist(*info*)

Parameter
info ([_GenerateInfo](#))

pre_process_generate(*info*)

post_process_generate(*info*)

generate_content(*info*)

_abc_impl = <[_abc._abc_data](#) object>

annize.features.homepage.sections.download.friendly_filesize(*isize*)

Parameter
isize (*int*)

Rückgabety
str

annize.features.homepage.sections.download.filehash(*filepath*)

Parameter
filepath (*str*)

Rückgabety
str

annize.features.homepage.sections.gallery module

Homepage media gallery section.

class **annize.features.homepage.sections.gallery.Section**(*, *head*=<[annize.i18n.ProvidedTrStr](#) object>, *sort_index*=50000, *media_galleries*)

Bases: [HomepageSection](#)

Parameter
media_galleries (*list*[[Gallery](#)])

pre_process_generate(*info*)

generate_content(*info*)

_abc_impl = <[_abc._abc_data](#) object>

annize.features.homepage.sections.imprint module

Homepage imprint section.

class **annize.features.homepage.sections.imprint.Section**(*, *imprint*, *head*=<[annize.i18n.ProvidedTrStr](#) object>, *sort_index*=70000)

Bases: [HomepageSection](#)

```

    Parameter
        imprint (TrStr)
generate_content(info)

_abc_impl = <_abc._abc_data object>

```

annize.features.homepage.sections.license module

Homepage license section.

```
class annize.features.homepage.sections.license.Section(*, head=<annize.i18n.ProvidedTrStr
object>, sort_index=20000)
```

```

Bases: HomepageSection
generate_content(info)

_abc_impl = <_abc._abc_data object>

```

Submodules

annize.features.homepage.common module

Homepage.

```
class annize.features.homepage.common.HomepageSection(*, head, sort_index=0)
```

Bases: ABC

Parameter

- head (TrStr)
- sort_index (int)

```
class _GenerateInfo(culture: annize.i18n.Culture, custom_arg: object | None, document_root_url: str,
document_variant_directory: annize.fs.Path, document_variant_url: str)
```

Bases: object

Parameter

- culture (Culture)
- custom_arg (object | None)
- document_root_url (str)
- document_variant_directory (Path)
- document_variant_url (str)

culture: Culture

custom_arg: object | None

document_root_url: str

document_variant_directory: Path

document_variant_url: str

```
class _PrePostProcGenerateInfo(document_root_directory: annize.fs.Path, document_root_url: str,  
                               custom_arg: object | None)
```

Bases: object

Parameter

- **document_root_directory** ([Path](#))
- **document_root_url** (*str*)
- **custom_arg** (*object | None*)

document_root_directory: [Path](#)

document_root_url: *str*

custom_arg: *object | None*

```
class Content(*, rst_text="", media_files=())
```

Bases: object

Parameter

- **rst_text** (*str*)
- **media_files** (*list[[FilesystemContent](#)]*)

property rst_text: *str*

property media_files: *list[[FilesystemContent](#)]*

append_rst(*rst_text*)

Rückgabotyp

None

attach_media_file(*file*)

Parameter

file ([FilesystemContent](#))

Rückgabotyp

None

property head: [TrStr](#)

property sort_index: *int*

pre_process_generate(*info*)

Parameter

info ([_PrePostProcGenerateInfo](#))

Rückgabotyp

None

abstractmethod generate_content(*info*)

Parameter

info ([_GenerateInfo](#))

Rückgabotyp

[Content](#)

`post_process_generate(info)`

Parameter

`info` (`_PrePostProcGenerateInfo`)

Rückgabetyp

None

`_abc_impl = <_abc._abc_data object>`

`class annize.features.homepage.common.Homepage(*, title, short_desc, sections, cultures)`

Bases: `object`

Parameter

- `title` (`TrStr` / `None`)
- `short_desc` (`TrStr` / `None`)
- `sections` (`list[HomepageSection]`)
- `cultures` (`list[Culture]`)

property `cultures`: `list[Culture]`

property `sections`: `list[HomepageSection]`

property `title`: `TrStr`

property `short_desc`: `TrStr`

`_append_section(section)`

Parameter

`section` (`HomepageSection`)

Rückgabetyp

None

`generate()`

`__generate_pre_post_proc(*, is_pre, document_root_directory, document_root_url)`

Parameter

- `custom_args` (`dict`)
- `is_pre` (`bool`)
- `document_root_directory` (`Path`)
- `document_root_url` (`str`)

`__generate_section(*, custom_args, culture, document_root_directory, document_root_url, document_variant_directory)`

Parameter

- `custom_args` (`dict`)
- `culture` (`Culture`)
- `document_root_directory` (`Path`)
- `document_root_url` (`str`)

- **document_variant_directory** ([Path](#))

```
class annize.features.homepage.common.SimpleProjectHomepage(*, changelog, dependencies,  
                                                            distributables, documentation,  
                                                            imprint, media_galleries, **kwargs)
```

Bases: [Homepage](#)

Parameter

- **changelog** ([Changelog](#) | *None*)
- **dependencies** (*list*[[Dependency](#)])
- **distributables** (*list*[[Group](#)])
- **documentation** (*list*[[Document](#)])
- **imprint** ([TrStr](#) | *None*)
- **media_galleries** (*list*[[Gallery](#)])

```
class annize.features.homepage.common.GeneratedHomepage(*, homepage)
```

Bases: [FilesystemContent](#)

Parameter

- **generate_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **homepage** ([Homepage](#))

_path()

annize.features.i18n namespace

Submodules

annize.features.i18n.common module

Internationalization, i.e. translation and similar tasks.

```
class annize.features.i18n.common.ProjectDefinedTranslationProvider
```

Bases: [TranslationProvider](#)

```
__translations_for_stringname(stringname)
```

Parameter

stringname (*str*)

Rückgabetyp

dict[*str*, *str*]

```
translate(stringname, *, culture)
```

```
add_translations(stringname, variants)
```

Parameter

- **stringname** (*str*)
- **variants** (*dict*[*str*, *str*])

Rückgabetyp

None

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.i18n.common.String(*, stringname, stringtr, **variants)
```

Bases: [ProvidedTrStr](#)

Parameter

- **stringname** (*str* | *None*)
- **stringtr** (*str* | *None*)
- **variants** (*str*)

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.features.i18n.common.Culture(*, iso_639_1_lang_code, subcode, fallback_cultures)
```

Bases: [Culture](#)

Parameter

- **iso_639_1_lang_code** (*str*)
- **subcode** (*str* | *None*)
- **fallback_cultures** (*list*[[Culture](#)])

```
class annize.features.i18n.common.UnspecifiedCulture
```

Bases: [UnspecifiedCulture](#)

```
class annize.features.i18n.common.IdCulture
```

Bases: [IdCulture](#)

```
class annize.features.i18n.common.ProjectCultures(*, cultures)
```

Bases: *list*

Parameter

cultures (*list*[[Culture](#)])

```
annize.features.i18n.common.project_cultures()
```

Rückgabety

list[[Culture](#)]

annize.features.i18n.gettext module

gettext-based internationalization.

```
class annize.features.i18n.gettext.UpdatePOs(*, po_directory)
```

Bases: *object*

Parameter

po_directory (*str* | *Path*)

```
class annize.features.i18n.gettext.GenerateMOs(*, po_directory, mo_directory)
```

Bases: *object*

Parameter

- **po_directory** (*str* | *Path* | [FileSystemContent](#))
- **mo_directory** (*str* | *Path*)

annize.features.injections namespace

Submodules

annize.features.injections.common module

Injectons.

```
class annize.features.injections.common.Injection
```

Bases: ABC

```
    abstractmethod inject(destination)
```

Parameter

destination (Path)

```
    _abc_impl = <_abc._abc_data object>
```

```
class annize.features.injections.common.FilesystemContentInjection(*, content)
```

Bases: [Injection](#)

Parameter

content (str | Path | FilesystemContent)

```
    property content: FilesystemContent
```

```
    inject(destination)
```

Parameter

destination (Path)

```
    _abc_impl = <_abc._abc_data object>
```

```
class annize.features.injections.common.Inject(*, injection, destination)
```

Bases: object

Parameter

- injection ([Injection](#))
- destination ([Path](#))

annize.features.injections.python module

Python injections.

```
class annize.features.injections.python.ProjectInfoInjection(*, filename='project_info.py',  
                                                             version)
```

Bases: [Injection](#)

Parameter

- filename (str)
- version ([Version](#) | None)

```
    inject(destination)
```

Parameter

destination (Path)

```
    _abc_impl = <_abc._abc_data object>
```


annize.features.testing namespace

Submodules

annize.features.testing.common module

Testing.

```

class annize.features.testing.common.RunTests(**b)
    Bases: object

class annize.features.testing.common.Test
    Bases: ABC
    abstractmethod run()
    _abc_impl = <_abc._abc_data object>

class annize.features.testing.common.TestGroup(*, tests)
    Bases: Test
    Parameter
        tests (list[Test])
    run()
    _abc_impl = <_abc._abc_data object>

```

annize.features.testing.pylint module

pylint testing.

```

class annize.features.testing.pylint.Test(*, source)
    Bases: Test
    Parameter
        source (FileSystemContent)
    run()
    _abc_impl = <_abc._abc_data object>

```

annize.features.testing.pytest module

pytest testing.

```

class annize.features.testing.pytest.Test(*, test_directory, source_directory)
    Bases: Test
    Parameter
        • test_directory (str | Path)
        • source_directory (str | Path)
    run()
    _abc_impl = <_abc._abc_data object>

```

annize.features.testing.pyunit module

pyunit testing.

```
class annize.features.testing.pyunit.Test(*, src)
```

Bases: *Test*

Parameter

src (*str*)

run()

_abc_impl = <_abc._abc_data object>

annize.features.version_control namespace

Submodules

annize.features.version_control.common module

Version control.

```
class annize.features.version_control.common.VersionControlSystem
```

Bases: *ABC*

abstractmethod **get_current_revision**()

Rückgabotyp

str

abstractmethod **get_revision_list**()

Rückgabotyp

list[str]

abstractmethod **get_commit_message**(*revision*)

Parameter

revision (*str*)

Rückgabotyp

str

abstractmethod **get_commit_time**(*revision*)

Parameter

revision (*str*)

Rückgabotyp

datetime

abstractmethod **get_revision_number**(*revision*)

Parameter

revision (*str*)

Rückgabotyp

int

_abc_impl = <_abc._abc_data object>

```
class annize.features.version_control.common.BuildVersion(*, base_version, vcs)
```

Bases: [Version](#)

Parameter

- **base_version** ([Version](#))
- **vcs** ([VersionControlSystem](#))

__effversion()

property segments_tuples

property text

```
annize.features.version_control.common.default_version_control_system()
```

Rückgabotyp

[VersionControlSystem](#) | None

annize.features.version_control.git module

git-based version control.

```
class annize.features.version_control.git.VersionControlSystem(*, path)
```

Bases: [VersionControlSystem](#)

Parameter

path (*str* | None)

property path: [Path](#)

__call_git(cmdline)

Parameter

cmdline (*list[str]*)

Rückgabotyp

str

get_current_revision()

get_revision_list()

get_commit_message(revision)

get_commit_time(revision)

get_revision_number(revision)

_abc_impl = <_abc._abc_data object>

```
class annize.features.version_control.git.ExcludeByGitIgnores
```

Bases: [Exclude](#)

Parameter

- **by_path_pattern** – Exclude by this regexp pattern on the full path.
- **by_path** – Exclude this path.
- **by_name_pattern** – Exclude by this regexp pattern on the file name.
- **by_name** – Exclude this file name.

does_exclude(*relative_path*, *source*, *destination*)

Return whether a given location is excluded by this exclusion definition.

Parameter

- **relative_path** – The relative path to check for exclusion.
- **source** – The absolute source path.
- **destination** – The absolute destination path.

Submodules

annize.features.authors module

Project author information.

class annize.features.authors.**Author**(*, *fullname*, *email*)

Bases: object

Parameter

- **fullname** (*TrStr*)
- **email** (*str* | *None*)

property fullname: *TrStr*

property email: *str* | *None*

annize.features.authors.**project_authors**()

Rückgabety

list[*Author*]

annize.features.authors.**join_authors**(*authors*)

Parameter

authors (*list*[*Author*])

Rückgabety

Author

annize.features.base module

Project base information.

class annize.features.base.**Data**(*, *project_name*=*None*, *pretty_project_name*=*None*, *summary*=*None*, *long_description*=*None*, *homepage_url*=*None*, *imprint*=*None*, *project_directory*=*None*)

Bases: object

Parameter

- **project_name** (*str*)
- **pretty_project_name** (*TrStr* | *None*)
- **summary** (*TrStr* | *None*)
- **long_description** (*TrStr* | *None*)
- **homepage_url** (*str* | *None*)

```

        • imprint (TrStr / None)
        • project_directory (str / None)
property project_name: str
property pretty_project_name: TrStr
property summary: TrStr
property long_description: TrStr
property homepage_url: str
property imprint: TrStr
property project_directory: str
class annize.features.base.BrandColor(*red, green, blue)
    Bases: Color
        Parameter
            • red (float)
            • green (float)
            • blue (float)
class annize.features.base.DateTime(*iso)
    Bases: datetime
        Parameter
            iso (str)
class annize.features.base.Keywords(*from_string='', split_by=' ', keywords=())
    Bases: object
        Parameter
            • from_string (str)
            • split_by (str)
            • keywords (list[str])
property keywords: list[str]
class annize.features.base.Keyword(text)
    Bases: Keywords
        Parameter
            text (str)
annize.features.base.project_keywords()
        Rückgabety
            Keywords
class annize.features.base.Basket(*items)
    Bases: Basket
        Parameter
            items (list[object])

```

class annize.features.base.**List**(*, *items*)

Bases: `list`

Parameter

items (*list[object]*)

class annize.features.base.**FirstOf**(*, *objects*)

Bases: `Basket`

Parameter

objects (*list[object]*)

annize.features.base.**brand_color**(*, *none_on_undefined=False*)

Parameter

none_on_undefined (*bool*)

Rückgabotyp

`Color`

annize.features.base.**_get_data**(*key, default*)

Parameter

- **key** (*str*)
- **default** (*Any*)

Rückgabotyp

Any

annize.features.base.**project_name**()

Rückgabotyp

`str`

annize.features.base.**pretty_project_name**()

Rückgabotyp

`TrStr`

annize.features.base.**summary**()

Rückgabotyp

`TrStr`

annize.features.base.**long_description**()

Rückgabotyp

`TrStr`

annize.features.base.**homepage_url**()

Rückgabotyp

`str`

annize.features.base.**imprint**()

Rückgabotyp

`TrStr`

annize.features.base.**project_directory**()

Rückgabotyp

`Path`

annize.features.licensing module

Project licensing information.

class annize.features.licensing.**License**(*, *name*, *text*, ***additional_info*)

Bases: object

Parameter

- **name** (*TrStr*)
- **text** (*TrStr* / *None*)

property name: *TrStr*

property text: *TrStr* | *None*

additional_info(*key*, *, *default=None*)

Parameter

- **key** (*str*)
- **default** (*Any*)

Rückgabety

Any

annize.features.licensing.**_license**(*name*)

Parameter

name (*str*)

Rückgabety

Type[*License*]

annize.features.licensing.**AFLv3**

alias of *ALicense*

annize.features.licensing.**AGPLv3**

alias of *ALicense*

annize.features.licensing.**Apache2**

alias of *ALicense*

annize.features.licensing.**Artistic1**

alias of *ALicense*

annize.features.licensing.**BSD2clause**

alias of *ALicense*

annize.features.licensing.**BSD3clause**

alias of *ALicense*

annize.features.licensing.**Cc0v1**

alias of *ALicense*

annize.features.licensing.**CcBy3**

alias of *ALicense*

annize.features.licensing.**CcByNc3**

alias of *ALicense*

`annize.features.licensing.CcByNcNd3`
alias of `ALicense`

`annize.features.licensing.CcByNcSa3`
alias of `ALicense`

`annize.features.licensing.CcByNd3`
alias of `ALicense`

`annize.features.licensing.CcBySa3`
alias of `ALicense`

`annize.features.licensing.GPLv3`
alias of `ALicense`

`annize.features.licensing.LGPLv3`
alias of `ALicense`

`annize.features.licensing.MIT`
alias of `ALicense`

`annize.features.licensing.MPLv11`
alias of `ALicense`

`annize.features.licensing.MPLv2`
alias of `ALicense`

`annize.features.licensing.PublicDomain`
alias of `ALicense`

`annize.features.licensing.project_licenses()`

Rückgabetyp
list[[License](#)]

`annize.features.media_galleries` module

Media galleries.

class `annize.features.media_galleries.MediaType(*values)`
Bases: `Enum`

IMAGE = `'image'`

VIDEO = `'video'`

class `annize.features.media_galleries.Gallery(*, source, title)`
Bases: `object`

Parameter

- **source** ([FilesystemContent](#))
- **title** ([TrStr](#) | `None`)

class `Item(file, description, mediatype)`
Bases: `object`

Parameter

- **file** ([FilesystemContent](#))

- **description** (*TrStr* | *None*)
- **mediatype** (*MediaType*)

property file: *FilesystemContent*

property description: *TrStr* | *None*

property mediatype: *MediaType*

property items: list[*Item*]

property title: *TrStr*

_description_for_mediafile(*itemfile*)

Parameter
itemfile (*FilesystemContent*)

Rückgabotyp
TrStr

annize.features.task module

Tasks.

class annize.features.task.**Task**(*, *innertasks*, *is_advanced=False*)

Bases: object

Parameter

- **innertasks** (*list[object]*)
- **is_advanced** (*bool*)

property is_advanced: bool

annize.features.version module

Project versioning.

class annize.features.version.**Line**(*, *version*)

Bases: object

Parameter

version (*Version*)

property version: *Version*

class annize.features.version.**Version**(*, *text*, *pattern*, ***segment_values*)

Bases: *Version*

Parameter

- **text** (*str* | *None*)
- **pattern** (*VersionPattern* | *None*)

annize.features.version.**default_version_pattern**()

Rückgabotyp
VersionPattern

`annize.features.version.project_versions()`

Rückgabetyp

`list[Version]`

class `annize.features.version.CommonVersionPattern`

Bases: `VersionPattern`

annize.flow package

Execution of Annize projects.

See e.g. `annize.flow.runner.Runner` and `annize.flow.run_context.RunContext`.

Submodules

annize.flow.run_context module

Run contexts. Typically used by the infrastructure in the course of the execution of an Annize project.

See also `RunContext` and `current()`.

class `annize.flow.run_context.RunContext`

Bases: `object`

Holds data for a single execution of an Annize project (usually happening in a `annize.flow.runner.Runner`).

Beyond a few fixed data, like the root path of the Annize project configuration files, it stores every object that was created by definition in the Annize project configuration. Many parts of this API (e.g. many method names) use the term ‚object‘ for all data items stored in a run context.

Each of those objects has at least one name. This can be a „friendly name“, i.e. a name that was explicitly specified in the project. If no name was specified, there will at least be an automatically generated one, so every object is uniquely addressable by name.

There are further ways to access stored data, which do not involve names. See this class‘ methods.

For each object in the store, arbitrary metadata can be stored as well.

See also `current()`.

The owner of a run context (i.e. parts of Annize infrastructure!) needs to enter the context (`with-block`) during execution. TODO xx why?

Do not use directly.

`_IS_TOPLEVEL_OBJECT__METADATA_KEY = 'annize..is_toplevel_object'`

`_ANNIZE_CONFIG_ROOTPATH__NAME = 'annize..annize_config_rootpath'`

prepare(`*`, `annize_config_rootpath`)

Prepare the execution.

Needs to be called once, before the actual execution begins, in order to make some basic data available.

Parameter

annize_config_rootpath (*Path*) – The Annize project configuration root path.

Rückgabetyp

`None`

object_by_name(*name*, *default=None*, *, *create_nonexistent=False*)

Return an object by one of its names (or a default value).

See also [set_object_name\(\)](#).

Parameter

- **name** (*str*) – An object name.
- **default** (*Any*) – The default value to return when no object exists with the given name.
- **create_nonexistent** (*bool*) – (If the default value is going to be returned because no object existed with the given name) Whether to store the default value in the data store with the given name, so it can be found later.

Rückgabotyp

Any

object_names(*obj*)

Return all object names for a given object (with friendly names first).

This method always returns a non-empty list. Even if the given object was not stored at all yet, it automatically gets added to the store implicitly.

See also [set_object_name\(\)](#).

Parameter

obj (*Any*) – The object.

Rückgabotyp

list[str]

object_name(*obj*)

Return one object name for a given object (preferably a friendly one).

This method always returns a valid name. Even if the given object was not stored at all yet, it automatically gets added to the store implicitly.

See also [set_object_name\(\)](#).

Parameter

obj (*Any*) – The object.

Rückgabotyp

str

set_object_name(*obj*, *name*)

Assign a name to an object.

All names assigned earlier remain valid as well.

See also [object_by_name\(\)](#), [object_names\(\)](#) and others.

Parameter

- **obj** (*Any*) – The object.
- **name** (*str*) – The new name.

Rückgabotyp

None

objects_by_type(*obj_type*, *toplevel_only*=True)

Return all stored objects that are instance of a given type.

See also [add_object\(\)](#) and others.

Parameter

- **obj_type** (*type[T]*) – The type.
- **toplevel_only** (*bool*) – Whether to return only objects that are defined on project level.

Rückgabotyp

list[T]

add_object(*obj*)

Add an object to the store and return its name.

If the object already is the store, and already has a friendly name, this one is returned. So, in fact, this method has the same effect as [object_name\(\)](#). It might just express your intent better than that one in some cases.

See also [object_by_name\(\)](#), [objects_by_type\(\)](#) and others.

Parameter

obj (*Any*) – The object to add.

Rückgabotyp

str

is_friendly_name(*name*)

Returns whether the given name is a friendly one.

Parameter

name (*str*) – The name to check.

Rückgabotyp

bool

is_toplevel_object(*obj*)

Return whether a given object represents the definition of an object on the Annize project file root level (e.g. by the top level tags in .xml configuration files).

Parameter

obj (*Any*) – The object to check.

Rückgabotyp

bool

mark_object_as_toplevel(*obj*)

Mark an object as a toplevel one. See [is_toplevel_object\(\)](#).

Parameter

obj (*Any*) – The object.

Rückgabotyp

None

object_metadata(*obj*, *key*, *default*=None)

Return a piece of metadata for a given object (or a default value if there is no value by the given key).

See also [set_object_metadata\(\)](#).

Parameter

- **obj** (*Any*) – The object.
- **key** (*str*) – The metadata key.
- **default** (*Any*) – The default value.

Rückgabotyp*Any***set_object_metadata**(*obj*, *key*, *value=None*)

Store a piece of metadata for a given object.

See also [object_metadata\(\)](#).**Parameter**

- **obj** (*Any*) – The object.
- **key** (*str*) – The metadata key.
- **value** (*Any*) – The metadata value to store for this object and key.

Rückgabotyp

None

__put_object(*name*, *obj*)**Parameter**

- **name** (*str*)
- **obj** (*Any*)

Rückgabotyp

None

__object_raw_name(*obj*)**Parameter****obj** (*Any*)**Rückgabotyp***str***__object_metadata_dict**(*obj*)**Parameter****obj** (*Any*)**Rückgabotyp***dict*[*str*, *Any*]**annize.flow.run_context.current()**

Return the current run context.

Note: In most cases you do not need to use this function directly. See the other functions defined on module level.

If there is no current run context (i.e. this function is called outside the execution of an Annize project), [OutOfContextError](#) will be raised.**Rückgabotyp**[RunContext](#)**exception annize.flow.run_context.OutOfContextError**Bases: [TypeError](#)

`annize.flow.run_context.object_by_name(name, default=None, *, create_nonexistent=False)`

Same as `RunContext.object_by_name()` on the `_current_run` context (`current()`).

Parameter

- **name** (*str*)
- **default** (*Any*)
- **create_nonexistent** (*bool*)

Rückgabotyp

Any

`annize.flow.run_context.object_names(obj)`

Same as `RunContext.object_names()` on the `_current_run` context (`current()`).

Parameter

obj (*Any*)

Rückgabotyp

`list[str]`

`annize.flow.run_context.object_name(obj)`

Same as `RunContext.object_name()` on the `_current_run` context (`current()`).

Parameter

obj (*Any*)

Rückgabotyp

`str`

`annize.flow.run_context.set_object_name(obj, name)`

Same as `RunContext.set_object_name()` on the `_current_run` context (`current()`).

Parameter

- **obj** (*Any*)
- **name** (*str*)

Rückgabotyp

`None`

`annize.flow.run_context.objects_by_type(obj_type, toplevel_only=True)`

Same as `RunContext.objects_by_type()` on the `_current_run` context (`current()`).

Parameter

- **obj_type** (`type[T]`)
- **toplevel_only** (*bool*)

Rückgabotyp

`list[T]`

`annize.flow.run_context.add_object(obj)`

Same as `RunContext.add_object()` on the `_current_run` context (`current()`).

Parameter

obj (*Any*)

Rückgabotyp

`str`

`annize.flow.run_context.is_friendly_name(name)`

Same as [RunContext.is_friendly_name\(\)](#) on the `_current_run` context ([current\(\)](#)).

Parameter

name (*str*)

Rückgabotyp

`bool`

`annize.flow.run_context.is_toplevel_object(obj)`

Same as [RunContext.is_toplevel_object\(\)](#) on the `_current_run` context ([current\(\)](#)).

Parameter

obj (*Any*)

Rückgabotyp

`bool`

`annize.flow.run_context.object_metadata(obj, key, default=None)`

Same as [RunContext.object_metadata\(\)](#) on the `_current_run` context ([current\(\)](#)).

Parameter

- **obj** (*Any*)
- **key** (*str*)
- **default** (*Any*)

Rückgabotyp

Any

`annize.flow.run_context.set_object_metadata(obj, key, value=None)`

Same as [RunContext.set_object_metadata\(\)](#) on the `_current_run` context ([current\(\)](#)).

Parameter

- **obj** (*Any*)
- **key** (*str*)
- **value** (*Any*)

Rückgabotyp

`None`

annize.flow.runner module

The Annize project runner.

See [Runner](#).

class `annize.flow.runner.Runner(*, project, selected_task=None, user_feedback=None)`

Bases: `ABC`

TODO.

Parameter

- **project** (`Project`)
- **selected_task** (`str` | `None`)
- **user_feedback** (`TODO`)

run_runner()

Rückgabotyp
 None

_dispatch(func)

__do_run(project)

Parameter
 project ([Project](#))

abstractmethod show_task_chooser()

Rückgabotyp
 None

abstractmethod show_task_execution()

Rückgabotyp
 None

abstractmethod show_task_execution_success()

Rückgabotyp
 None

get_tasks()

Rückgabotyp
 list[str]

__set_tasks(tasks)

Parameter
 tasks (list[str])

Rückgabotyp
 None

get_selected_task()

Rückgabotyp
 str

set_selected_task(task_name)

Parameter
 task_name (str)

Rückgabotyp
 None

is_finished()

Rückgabotyp
 bool

get_success_state()

Rückgabotyp
 Tuple[bool, str]


```
__set_success_state(success, message)
```

Parameter

- **success** (*bool*)
- **message** (*str*)

Rückgabotyp

None

```
wait_finished()
```

Rückgabotyp

None

```
_abc_impl = <_abc._abc_data object>
```

annize.fs package

Annize filesystem API.

Used by Annize Features.

See [Path](#), [FilesystemContent](#) and others.

```
class annize.fs.FilesystemContent(generate_func)
```

Bases: object

Base class for a source of arbitrary filesystem content.

It provides access to that content by [path\(\)](#). Some implementations will return a static path to already existing content, while other implementations will return a temporary path to ad-hoc generated content.

This content can be a file, a complete directory, or anything else. It could even return a path that points to nothing. It depends on the actual implementation what kind of content it provides.

This type is used instead of plain paths in situations where dynamic filesystem content might be exchanged (usually via some temporary files) instead of already existing files or directories. So, a `FilesystemContent` usually provides a path for reading. There is no strict rule against writing at that path, but that might lead to expected behavior (e.g. when the path points to a temporary copy of something, so changes do not take the desired effect, or when it has undesired side effects on other consumers of the same instance).

Parameter

generate_func (*Callable[[], TInputPath]*) – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).

```
path()
```

Return the path that points to the content.

It always returns the same path and does not do any further processing when called more than once (so it is safe and cheap to call that multiple times).

Rückgabotyp

[Path](#)

```
class annize.fs.Path(*args, **kwargs)
```

Bases: [Path](#), [FilesystemContent](#)

A path.

This is compatible to `pathlib.Path`, but provides some convenience methods that can save a few lines of code for typical operations.

Each path is also a *FilesystemContent*. However, since *FilesystemContent* only allows absolute paths, using a relative path as a *FilesystemContent* will fail at runtime! See also *content()*.

Parameter

args (*str* / *Path* / *FilesystemContent*) – Path parts. Often this is one string, one *pathlib.Path* or one *FilesystemContent*. The latter one is only allowed as the first part.

_path()

Return itself (in order to implement *FilesystemContent*).

Rückgabotyp

Path

path()

Return itself (in order to implement *FilesystemContent*).

Rückgabotyp

Path

children()

Like *iterdir()*, but sorted by name.

Rückgabotyp

Sequence[*Path*]

ctime()

Return the ctime for this path.

Rückgabotyp

datetime

mtime()

Return the mtime for this path.

Rückgabotyp

datetime

write_file(data)

Write data to a file at this path (like *write_text* or *write_bytes*).

Parameter

data (*bytes* / *TrStr* / *str*) – The data to write.

Rückgabotyp

None

remove(*, missing_ok=True)

Remove the file, directory, symlink, ... at this path.

Parameter

missing_ok (*bool*) – Whether it is okay if there is nothing at this path.

Rückgabotyp

None

file_size()

Return the file size in bytes.

Rückgabotyp

int

temp_clone(*, *temp_root_path*=None, *basename*=None)

Return a temporary clone of the content at this path.

Parameter

- **temp_root_path** (*str* | *Path* | None) – Optional root directory for temporary files. If unset, an OS-default will be used.
- **basename** (*str* | None) – Optional new basename. If unset, the original one will be used.

Rückgabotyp

Path

TTransferFilter

alias of Callable[[*Path*, *Path*, *Path*], bool]

copy_to(*destination*, *, *destination_as_parent*=False, *merge*=False, *overwrite*=False, *transfer_filter*=None)

Copy the file, directory, symlink, ... at this path to a given destination. All missing parent directories in the destination path get created automatically.

Parameter

- **destination** (*str* | *Path*) – The destination.
- **destination_as_parent** (*bool*) – Whether to consider the destination as the parent of the new destination (instead of the new destination itself). The actual destination will have the same basename as the source then.
- **merge** (*bool*) – Whether to merge the source content into the destination. If not, each new destination directory will replace the existing one or even fail.
- **overwrite** (*bool*) – Whether to allow overwriting of the destination.
- **transfer_filter** (Callable[[*Path*, *Path*, *Path*], *bool*] | None) – The optional transfer filter to use. It can exclude particular parts from the transfer. It is a function with three *Path* parameters: The relative path of an item, the absolute source path and the absolute destination path. It returns False to skip that item.

Rückgabotyp

Path

move_to(*destination*, *, *destination_as_parent*=False, *merge*=False, *overwrite*=False, *transfer_filter*=None)

Move the file, directory, symlink, ... at this path to a given destination. All missing parent directories in the destination path get created automatically.

Parameter

- **destination** (*str* | *Path*) – The destination.
- **destination_as_parent** (*bool*) – Whether to consider the destination as the parent of the new destination (instead of the new destination itself). The actual destination will have the same basename as the source then.
- **merge** (*bool*) – Whether to merge the source content into the destination. If not, each new destination directory will replace the existing one or even fail.
- **overwrite** (*bool*) – Whether to allow overwriting of the destination.
- **transfer_filter** (Callable[[*Path*, *Path*, *Path*], *bool*] | None) – The optional transfer filter to use. It can exclude particular parts from the transfer. It is a function with three *Path* parameters: The relative path of an item, the absolute source path and the absolute destination path. It returns False to skip that item.

```

    Rückgabetypp
        Path

class TransferFilters
    Bases: object

    class And(*inner_filters)
        Bases: object
        Parameter
            inner_filters (Path.TTransferFilter)

class _TransferHelper
    Bases: object

    static transfer_to(source, destination, *, merge, overwrite, destination_as_parent, action,
                       transfer_filter=None)

        Parameter
            • source (Path)
            • destination (Path)
            • merge (bool)
            • overwrite (bool)
            • destination_as_parent (bool)
            • action (Callable)
            • transfer_filter (Callable[[Path, Path, Path], bool] | None)

        Rückgabetypp
            Path

    static transfer_action_copy(source, destination)

        Parameter
            • source (Path)
            • destination (Path)

        Rückgabetypp
            None

    static transfer_action_move(source, destination)

        Parameter
            • source (Path)
            • destination (Path)

        Rückgabetypp
            None

    static _TransferHelper__transfer_piece(action, transfer_filter, source, destination, merge,
                                           overwrite, relative_path="")

        Parameter
            • action (Callable)
            • transfer_filter (Callable[[Path, Path, Path], bool] | None)
            • source (Path)
            • destination (Path)
            • merge (bool)
            • overwrite (bool)
            • relative_path (str)

        Rückgabetypp
            None

annize.fs.content(f, *, root=None)

    Return a FilesystemContent for an arbitrary given path or FilesystemContent.
```

If the input already is a valid [FilesystemContent](#), it gets returned as-is. If the input is a string, it automatically gets interpreted as a path (like [Path](#)). If it is a relative path, this function will return a [FilesystemContent](#) that interprets it relative to the current Annize project root directory (which only makes sense when used inside an Annize project execution) or another root location.

Parameter

- **f**(*str* | *Path* | [FilesystemContent](#)) – The input path or filesystem content.
- **root**(*str* | *Path* | [FilesystemContent](#) | *None*) – The path or filesystem content to be used as root directory for relative paths in **f**.

Rückgabetyp

[FilesystemContent](#)

`annize.fs.fresh_temp_directory(name=None, *, temp_root_path=None)`

Return a fresh empty temporary directory for arbitrary usage.

This directory will automatically be removed after the Annize project run has been finished. It can only be used for a `with`-block, which removes it directly after this block. Each instance can only be used once in the latter way.

For usage without a `with`-block, see [annize.fs.ext.FreshTempDirectory.path](#).

Parameter

- **name**(*str* | *Path* | *None*) – The optional directory name. Otherwise, the implementation will choose a name.
- **temp_root_path**(*str* | *Path* | *None*) – Optional root directory for temporary files. If unset, an OS-default will be used.

Rückgabetyp

[FreshTempDirectory](#)

`annize.fs.dynamic_file(*, content, file_name=None, temp_root_path=None)`

Return a 'filesystem content' that provides a file with some given content.

Parameter

- **content**(*str* | *bytes* | *Callable*[[*str* | *bytes*]]) – The content of this dynamic file. This may be either direct content (*str* or *bytes*) or a function that returns content.
- **file_name**(*str* | *None*) – The optional file name. Otherwise, the implementation will choose a name.
- **temp_root_path**(*str* | *Path* | *None*) – Optional root directory for temporary files. If unset, an OS-default will be used.

Rückgabetyp

[FilesystemContent](#)

Submodules

[annize.fs.ext module](#)

Annize filesystem API extensions.

Note: Commonly used functionality is also available in simpler ways (e.g. somehow in [annize.fs](#)).

class annize.fs.ext.**FreshTempDirectory**(*name=None, *, temp_root_path=None*)

Bases: object

A fresh empty temp directory for arbitrary usage.

See [annize.fs.fresh_temp_directory\(\)](#).

Do not use directly.

Parameter

- **name** (*str | Path | None*)
- **temp_root_path** (*str | Path | None*)

property path: [Path](#)

The path of this temp directory.

It is empty after creation and will be removed automatically after usage.

__cleanup()

class annize.fs.ext.**DynamicFile**(**, content, file_name=None, temp_root_path=None*)

Bases: [FilesystemContent](#)

A filesystem content that provides a file with some given content.

See [annize.fs.dynamic_file\(\)](#).

Do not use directly.

Parameter

- **content** (*str | bytes | Callable[[], str | bytes]*)
- **file_name** (*str | None*)
- **temp_root_path** (*str | Path | None*)

_TStaticContent = *str | bytes*

_TContent

alias of *str | bytes | Callable[[], str | bytes]*

_path()

class annize.fs.ext.**Mount**(*src, dst, *, options=(), mount_command=('mount',),
umount_command=('umount',))*)

Bases: object

Mounting of a filesystem.

This mounts a filesystem as long as its context is entered (**with-block**).

Parameter

- **src** (*str | Path*) – The filesystem to mount. Often a device file.
- **dst** (*str | Path*) – The mount-point.
- **options** (*Iterable[str]*) – Additional mount options.
- **mount_command** (*Sequence[str]*) – The mount command to use.
- **umount_command** (*Sequence[str]*) – The umount command to use.

property destination: *Path*

The mount-point.

annize.i18n package

TODO.

See *tr()*.

class annize.i18n.TranslationProvider

Bases: ABC

abstractmethod translate(*stringname*, *, *culture*)

Parameter

- **stringname** (*str*)
- **culture** (*Culture*)

Rückgabetyt

str | None

_abc_impl = <_abc._abc_data object>

class annize.i18n.GettextTranslationProvider(*mopath*)

Bases: *TranslationProvider*

translate(*stringname*, *, *culture*)

Parameter

- **stringname** (*str*)
- **culture** (*Culture*)

_abc_impl = <_abc._abc_data object>

annize.i18n.add_translation_provider(*provider*, *, *priority*=0)

Parameter

- **provider** (*TranslationProvider*)
- **priority** (*int*)

Rückgabetyt

None

annize.i18n.translation_providers()

Rückgabetyt

list[*TranslationProvider*]

annize.i18n.tr(*stringname*, *, *culture*=None)

Parameter

- **stringname** (*str*)
- **culture** (*Culture* | *str* | None)

Rückgabetyt

str

```
class annize.i18n.TrStr
```

```
    Bases: ABC
```

```
    static tr(stringname)
```

```
        Parameter
```

```
            stringname (str)
```

```
        Rückgabetyt
```

```
            TrStr
```

```
    translate(culture=None)
```

```
        Parameter
```

```
            culture (Culture | str | None)
```

```
        Rückgabetyt
```

```
            str
```

```
    abstractmethod get_variant(culture)
```

```
        Parameter
```

```
            culture (Culture)
```

```
        Rückgabetyt
```

```
            str
```

```
    property stringname: str
```

```
    format(*args, **kwargs)
```

```
        Rückgabetyt
```

```
            TrStr
```

```
    _abc_impl = <_abc._abc_data object>
```

```
class annize.i18n.ProvidedTrStr(stringname)
```

```
    Bases: TrStr
```

```
        Parameter
```

```
            stringname (str)
```

```
    property stringname
```

```
    get_variant(culture)
```

```
    _abc_impl = <_abc._abc_data object>
```

```
annize.i18n.TrStrOrStr = annize.i18n.TrStr | str
```

```
    Type annotation for something that can be either a str or a TrStr.
```

```
annize.i18n.tr_if_trstr(txt, culture=None)
```

```
    Parameter
```

```
        • txt (TrStr | str)
```

```
        • culture (Culture | str | None)
```

```
    Rückgabetyt
```

```
        str
```


`annize.i18n.to_trstr(txt)`

Parameter

`txt` (`TrStr` | `str`)

Rückgabetyp

`TrStr`

class `annize.i18n.Culture`(*english_lang_name*, *iso_639_1_lang_code*, *subcode*, *fallback_cultures*)

Bases: `object`

Parameter

- `english_lang_name` (`str`)
- `iso_639_1_lang_code` (`str`)
- `subcode` (`str` | `None`)
- `fallback_cultures` (`Iterable`[`Culture`])

static `get_from_iso_639_1_lang_code`(*iso_639_1_lang_code*, *subcode*=`None`, *fallback_cultures*=())

Parameter

- `iso_639_1_lang_code` (`str`)
- `subcode` (`str` | `None`)
- `fallback_cultures` (`Iterable`[`Culture`])

property `english_lang_name`: `str`

property `iso_639_1_lang_code`: `str`

property `subcode`: `str`

property `fullname`: `str`

property `fallback_cultures`: `Iterable`[`Culture`]

`__find_lcall()`

`__get_env()`

`__set_env`(*language*, *locale_lc_all*)

class `annize.i18n.UnspecifiedCulture`

Bases: `Culture`

class `annize.i18n.IdCulture`

Bases: `Culture`

class `annize.i18n._CultureFence`

Bases: `Culture`

`annize.i18n.get_culture`(*culture*, *, *fallback_cultures*=())

Parameter

- `culture` (`Culture` | `str` | `None`)
- `fallback_cultures` (`Iterable`[`Culture`])

Rückgabotyp`Culture` | `None``annize.i18n.current_culture()`**Rückgabotyp**`Culture``annize.i18n.annize_user_interaction_culture()`**Rückgabotyp**`Culture``annize.i18n.friendly_join_string_list(strlist)`**Parameter**`strlist` (`list`[`TrStr` | `str`])**Rückgabotyp**`TrStr`**exception** `annize.i18n.NoCurrentCultureError`Bases: `TypeError`**exception** `annize.i18n.TranslationUnavailableError`(`stringname`, `language`)Bases: `TypeError`**Parameter**

- `stringname` (`str`)
- `language` (`str`)

annize.object package

Handling of Annize objects.

There is no particular subclass that all Annize objects inherit from! Annize objects can be of arbitrary types.

There are some decorators for optional configuration and finetuning of Annize objects' methods and attributes here.

In submodules, there are routines for object and object type handling, internally used by the infrastructure.

`annize.object.explicit_only(arg_name)`**Parameter**`arg_name` (`str`)**Submodules****annize.object.controller module**

TODO.

class `annize.object.controller._CreateObjectHelper`Bases: `object`**class** `ParameterConfig`(`parameter_name`: `str`, `explicit_only`: `bool` | `None` = `None`)Bases: `object`**Parameter**

- `parameter_name` (`str`)

```

        • explicit_only (bool | None)
parameter_name: str
explicit_only: bool | None = None
with_updates(oconfig)
    Parameter
        oconfig (ParameterConfig)
    Rückgabetyp
        ParameterConfig
static create_object(call_type, args, kwargs)
    Parameter
        • args (Iterable)
        • kwargs (dict)
static _CreateObjectHelper__convert_kwargs_from_string(argument_infos, args, kwargs)
static _CreateObjectHelper__determine_matching_keywords_for_arg(arg, call_type,
                                                                    argument_infos)
static _CreateObjectHelper__fill_empty_lists(argument_infos, args, kwargs)
static _CreateObjectHelper__fill_unspecified_optionals(argument_infos, args, kwargs)
static _CreateObjectHelper__get_parameter_config(call_type, arg_name)
    Parameter
        • call_type (type)
        • arg_name (str)
    Rückgabetyp
        ParameterConfig
static _CreateObjectHelper__put_item_into_kwargs(arg, kwargs, kwarg_name, param_type_info)
static _CreateObjectHelper__shift_args_to_kwargs(call_type, argument_infos, args, kwargs)
annize.object.controller.create_object(call_type, args, kwargs)
    Parameter
        • args (Iterable)
        • kwargs (dict)
exception annize.object.controller.MultipleValuesForSingleArgumentError(argname)
    Bases: TypeError
    Parameter
        argname (str)

```

annize.object.parameter_info module

TODO.

```
class annize.object.parameter_info.ParameterInfo(name, resolved_type, is_optional,  
                                                construct_from_string_func)
```

Bases: object

Parameter

- **name** (*str*)
- **resolved_type** (*type* | *None*)
- **is_optional** (*bool*)
- **construct_from_string_func** (*Callable[[str], Any]* | *None*)

property **name**: *str*

property **resolved_type**: *type* | *None*

matches_object(*obj*)

Parameter

obj (*object*)

Rückgabotyp

bool

matches_type(*type_*)

Parameter

type_ (*type*)

Rückgabotyp

bool

matches_inner_type(*type_*)

Parameter

type_ (*type*)

Rückgabotyp

bool

property **is_optional**: *bool*

property **inner_type_info**: *ParameterInfo* | *None*

property **allows_multiple_args**: *bool*

property **is_constructable_from_string**: *bool*

construct_from_string(*s*)

Parameter

s (*str*)

Rückgabotyp

Any

```
class annize.object.parameter_info.ListParameterInfo(name, is_optional, innertypeinfo)
```

Bases: [ParameterInfo](#)

Parameter

- **name** (*str*)
- **is_optional** (*bool*)

property **allows_multiple_args**

property **inner_type_info**

```
class annize.object.parameter_info.UnionParameterInfo(name, is_optional,
                                                         union_member_type_infos)
```

Bases: [ParameterInfo](#)

Parameter

- **name** (*str*)
- **is_optional** (*bool*)

property **resolved_type**

matches_object(*obj*)

```
annize.object.parameter_info._get_type_info(for_type, as_optional=False)
```

Parameter

as_optional (*bool*)

Rückgabety

[ParameterInfo](#)

```
annize.object.parameter_info.type_parameter_infos(*, for_callable)
```

Parameter

for_callable (*Callable*)

Rückgabety

dict[str, [ParameterInfo](#)]

annize.project package

Annize projects.

See [Project](#), [Node](#) and also the submodules.

```
class annize.project.Project(node, annize_config_rootpath)
```

Bases: object

An Annize project.

The configuration structure is available in [node](#).

Do not use directly.

Load a project with [annize.project.loader](#). Create a fresh project with TODO.

Parameter

- **node** ([ProjectNode](#))
- **annize_config_rootpath** (*str* | *Path*)

property node: *ProjectNode*

The project node.

This contains the entire configuration structure of this project.

property annize_config_rootpath: *Path*

The „config root path“ of this Annize project.

This is usually not the same as the project’s „root path“, but a subdirectory like `,-meta‘` inside it.

static load(*project_path*)

Load a project from disk. Return `None` if the given path does not point into an Annize project.

Parameter

project_path (*str* / *Path*) – A path somewhere inside the project to be opened.

Rückgabotyp

Project | `None`

save()

Save the current state of the project back to disk.

static create_new(*project_root_path*, *subdirectory_name*='meta')

Create a new Annize project.

This will create an initial version of the Annize project configuration on disk as well.

Parameter

- **project_root_path** (*str* / *Path*) – The project root path.
- **subdirectory_name** (*str*) – The subdirectory name where to store the Annize configuration files inside the project root directory. This is not arbitrary but must be one of the well known ones!

Rückgabotyp

Project

class annize.project.Node

Bases: `ABC`

Nodes are the building blocks of a project.

They exist in a serialized way in the project files (usually xml), and when the project is loaded to memory (see [annize.project.loader](#)) they are represented by a structure of `Node` instances.

Each `Node` has various features (see methods and properties of this class), e.g. it can be observed for changes. Each node can also have children. This is just a base class for more specific node types, though. See also its subclasses in the same module.

The most relevant subclass in many regards is [ObjectNode](#).

class ChangeEvent(*target_node*)

Bases: `object`

Base class for events on a [Node](#). See subclasses and [Node.add_change_handler\(\)](#).

Parameter

target_node (*Node*)

property target_node: *Node*

The target node this event is about.

class ChildrenListChangeEvent(*target_node*, *child_node*, *child_position*)

Bases: [ChangeEvent](#)

Base class for events on a [Node](#) that are about changes on the list of children. See subclasses.

Parameter

- **target_node** ([Node](#))
- **child_node** ([Node](#))
- **child_position** (*int*)

property child_node: [Node](#)

The child node this event is about.

property child_position: *int*

The position of the child node in the list of children.

class ChildAddedEvent(*target_node*, *child_node*, *child_position*)

Bases: [ChildrenListChangeEvent](#)

Node event that occurs when a child node was added.

Parameter

- **target_node** ([Node](#))
- **child_node** ([Node](#))
- **child_position** (*int*)

class ChildRemovedEvent(*target_node*, *child_node*, *child_position*)

Bases: [ChildrenListChangeEvent](#)

Node event that occurs when a child node was removed.

Parameter

- **target_node** ([Node](#))
- **child_node** ([Node](#))
- **child_position** (*int*)

class PropertyChangeEvent(*target_node*, *property_name*, *old_value*, *new_value*)

Bases: [ChangeEvent](#)

Node event that occurs when a property of a node was changed.

Parameter

- **target_node** ([Node](#))
- **property_name** (*str*)
- **old_value** (*Any*)
- **new_value** (*Any*)

property property_name: *str*

The property name.

property old_value: *Any*

The old property value.

property new_value: Any

The new property value.

add_change_handler(*handler*, *, *also_watch_children*)

Add a function that handles changes on this node.

See also [remove_change_handler\(\)](#).

Parameter

- **handler** (*Callable*[[[ChangeEvent](#)], *None*]) – The handler function to add.
- **also_watch_children** (*bool*) – Whether this function shall also observe this node's children.

remove_change_handler(*handler*)

Remove a change handler function that was added by [add_change_handler\(\)](#) earlier.

If that function was added multiple times, it will remove all of them. If the function was not added, this will do nothing.

Parameter

handler (*Callable*[[[ChangeEvent](#)], *None*]) – The handler function to remove.

__changed__helpers(*event*)

Parameter

event ([ChangeEvent](#))

_changed__child_added(*child_node*, *child_position*)

Parameter

- **child_node** ([Node](#))
- **child_position** (*int*)

_changed__child_removed(*child_node*, *child_position*)

Parameter

- **child_node** ([Node](#))
- **child_position** (*int*)

_changed__property_changed(*node*, *property_name*, *old_value*, *new_value*)

Parameter

- **node** ([Node](#))
- **property_name** (*str*)
- **old_value** (*Any*)
- **new_value** (*Any*)

property parent: [Node](#) | *None*

This node's parent node.

property children: *Iterable*[[Node](#)]

This node's child nodes.

insert_child(*i*, *node*)

Insert a new child node.

Parameter

- **i** (*int*) – The position.
- **node** (*Node*) – The node to insert.

Rückgabotyp

None

append_child(*node*)

Append a new child node.

Parameter

- **node** (*Node*) – The node to append.

Rückgabotyp

None

remove_child(*node*)

Remove a child node.

If that node is not a child node, it raises a `ValueError`.

Parameter

- **node** (*Node*) – The node to remove.

Rückgabotyp

None

abstractmethod classmethod _allowed_child_types()

Return a list of node types that this node type allows to have as child nodes.

Rückgabotyp

Iterable[*type*[*Node*]]

clone(*with_children=True*, *with_marshallers=False*)

Parameter

- **with_children** (*bool*)
- **with_marshallers** (*bool*)

Rückgabotyp

Node

description(***, *with_children=True*, *multiline=True*)

Parameter

- **with_children** (*bool*)
- **multiline** (*bool*)

Rückgabotyp

str

__description(*indent*, *with_children*, *multiline*)

Parameter

- **indent** (*int*)

- **with_children** (*bool*)

- **multiline** (*bool*)

Rückgabotyp

str

abstractmethod **_str_helper()**

Rückgabotyp

Iterable[str]

_abc_impl = **<_abc._abc_data object>**

class **annize.project.ProjectNode**

Bases: *Node*

An Annize project root node.

Each project has exactly one root node. It has no parent. Its children are the Annize project configuration files. It has no direct serialized representation (or, one could argue, it is the directory that contains these files).

save()

Store the current state to the Annize project configuration files.

insert_child(*i, node*)

Insert a new child node.

Parameter

- **i** – The position.
- **node** – The node to insert.

__changed_handler(*event*)

Parameter

event (*ChangeEvent*)

get_changes(**, since=0, until=9223372036854775807*)

Return all changes that happened to the project, since the moment of loading it or any later point in time, and until now or any earlier point in time.

All timestamp arguments are based on a virtual clock (which basically increases by 1 for each change). See TODO.

Parameter

- **since** (*int*) – The timestamp where to start with returning changes (inclusive).
- **until** (*int*) – The timestamp where to stop with return changes (non-inclusive).

Rückgabotyp

list[ChangeEvent]

__compacted_changelist()

Parameter

events (*list[ChangeEvent]*)

Rückgabotyp

list[ChangeEvent | None]

undo_changes(*since*)

Undo all changes that happened to the project since a given point in time.

Parameter

since (*int*) – The timestamp where to start with undoing changes (inclusive).

Rückgabotyp

None

static load(*path*)

Parameter

path (*str* | *Path*)

Rückgabotyp

[ProjectNode](#)

classmethod _allowed_child_types()

Return a list of node types that this node type allows to have as child nodes.

_str_helper()

_abc_impl = <_abc._abc_data object>

class annize.project.**FileNode**(*path*, *marshaller*)

Bases: [Node](#)

An Annize project file node.

Each project has one file node per configuration file. They are the children of the [ProjectNode](#). The children of a file node are mostly of type [ObjectNode](#), but can also be different ones.

Parameter

- **path** (*str* | *Path*)

- **marshaller** (*TODO*)

property path: *Path*

The file path.

property marshaller: *TODO*

_str_helper()

classmethod _allowed_child_types()

Return a list of node types that this node type allows to have as child nodes.

_abc_impl = <_abc._abc_data object>

class annize.project.**ArgumentNode**

Bases: [Node](#), [ABC](#)

Base class for nodes that can be used as an argument, usually in an [ObjectNode](#).

See subclasses.

property name: *str* | *None*

The name of this argument node.

Names are used for a few purposes (the documentation will mention that where it is important), but primarily you can refer to a named argument with a [ReferenceNode](#) and you can use it for [append_to](#).

property append_to: str | None

The name of another argument node where this argument node gets appended to its children at runtime.

This essentially makes this argument node appear twice at runtime. It will also be in the place where it was defined; just a reference to that argument is created as a result.

property arg_name: str | None

The argument name where this argument is associated to in the parent object.

Valid argument names depend on the type of object that the parent is representing.

_str_helper()

_abc_impl = <_abc._abc_data object>

class annize.project.ObjectNode

Bases: [ArgumentNode](#)

An Annize project object node.

In a typical Annize project, most nodes are object nodes. Most structure in their project files represent them (usually the tags in xml files). All the other node types are basically related to containing object nodes (like file nodes or the project root node) or have other support purposes.

Children are mostly other object nodes, [ScalarValueNode](#) or [ReferenceNode](#). They are associated to a particular parameter name (of the object type) by their [ArgumentNode.arg_name](#).

property type_name: str

The name of the type of this object.

property feature: str

The Annize feature name that provides this object.

_str_helper()

classmethod _allowed_child_types()

Return a list of node types that this node type allows to have as child nodes.

_abc_impl = <_abc._abc_data object>

class annize.project.ScalarValueNode

Bases: [ArgumentNode](#)

An Annize project scalar value node.

It represents a fixed string value.

property value: str

The string that this node represents.

_str_helper()

__shorten(maxlen=100)

Parameter

- **obj** (*Any*)
- **maxlen** (*int*)

Rückgabetyp

str

```
classmethod _allowed_child_types()
```

Return a list of node types that this node type allows to have as child nodes.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.project.ReferenceNode
```

Bases: *ArgumentNode*

A reference node.

This node represents a reference to another node (by its *ArgumentNode.name*)

```
class OnUnresolvableAction(*values)
```

Bases: Enum

```
FAIL = 'fail'
```

```
SKIP = 'skip'
```

```
property reference_key: str
```

The name of the node this node references to.

```
property on_unresolvable: OnUnresolvableAction
```

```
_str_helper()
```

```
classmethod _allowed_child_types()
```

Return a list of node types that this node type allows to have as child nodes.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.project.BlockNode
```

Bases: *Node*

A block node without any own behavior.

The purpose of that block differs for particular subclass.

```
_str_helper()
```

```
classmethod _allowed_child_types()
```

Return a list of node types that this node type allows to have as child nodes.

```
_abc_impl = <_abc._abc_data object>
```

```
class annize.project.BlockNodeWithScope
```

Bases: *BlockNode*

Base class for a block node with an additional scope definition.

The purpose of the block and the scope definition depend on the particular subclass.

```
class Scope(*values)
```

Bases: Enum

```
BLOCK = 'block'
```

```
FILE = 'file'
```

```
PROJECT = 'project'
```

_str_helper()

property scope: *Scope*

The scope of this block.

_abc_impl = <_abc._abc_data object>

class annize.project.OnFeatureUnavailableNode

Bases: *BlockNodeWithScope*

An Annize project on-Feature-unavailable definition node.

They control how Annize behaves when the project configuration refers to a Feature that is not available.

The scope defines whether this rule applies only for the block, for the entire file that contains it, or for the entire project, while *do* defines if and how much gets ignored when the specified Feature is not available.

class Action(*values)

Bases: Enum

FAIL = 'fail'

SKIP_BLOCK = 'skip_block'

SKIP_NODE = 'skip_node'

_str_helper()

property feature: str

The name of the Feature that gets checked by this node. Empty string or * (the default) means all features.

property do: *Action*

The action when the specified Feature is not available.

_abc_impl = <_abc._abc_data object>

exception annize.project.FeatureUnavailableError(feature_name)

Bases: ModuleNotFoundError

Parameter

feature_name (str)

exception annize.project.BadStructureError(message)

Bases: ValueError

Parameter

message (str)

exception annize.project.MaterializerError(message)

Bases: TypeError

Parameter

message (str)

exception annize.project.ParserError(message)

Bases: ValueError

Parsing error like bad input xml.

Parameter

message (str)

exception `annize.project.UnresolvableReferenceError(reference_key)`

Bases: `MaterializerError`

Parameter

reference_key (*str*)

Subpackages

`annize.project.file_formats` package

File formats for Annize configuration files.

See also the submodules.

class `annize.project.file_formats.FileFormat`

Bases: `ABC`

A file format for Annize configuration files.

class `Marshaler`

Bases: `ABC`

abstractmethod `add_change(change)`

Parameter

change (*TODO*)

Rückgabety

`None`

`_abc_impl = <_abc._abc_data object>`

classmethod `parse_file(path)`

Read the given file and return a project file node for it.

Parameter

path (*str* | *Path*) – The file to parse.

Rückgabety

`FileNode`

`_abc_impl = <_abc._abc_data object>`

`annize.project.file_formats.register_file_format(format_name)`

Parameter

format_name (*str*)

`annize.project.file_formats.get_format(format_name)`

Parameter

format_name (*str*)

Rückgabety

`FileFormat` | `None`

`annize.project.file_formats.parse(path)`

Parameter

path (*str* | *Path*)

Rückgabety

`ProjectNode`

Submodules

annize.project.file_formats.xml module

Support for Annize configuration XML files.

class annize.project.file_formats.xml.**XmlFileFormat**

Bases: *FileFormat*

classmethod **parse_file**(*path*)

Read the given file and return a project file node for it.

Parameter

path – The file to parse.

_abc_impl = <_abc._abc_data object>

class annize.project.file_formats.xml.**_XmlParser**

Bases: object

class **_Context**

Bases: object

property **marshaler**

in_file(*fpath*, *marshaler*)

Parameter

fpath (*str* | *Path*)

in_node(*xnode*)

static **_Context__nodeshort**(*xnode*, *maxlen=100*)

Parameter

xnode (*Element*)

class **_TagParts**(*name*, *namespace=""*)

Bases: object

Parameter

namespace (*str*)

ATTRIBUTE_COMMAND_START = '~'

ATTRIBUTE_COMMAND_END = '~'

classmethod **escape_attribute_string**(*txt*)

Parameter

txt (*str*)

Rückgabetypp

str

parse_file(*fpath*)

Parameter

fpath (*str* | *Path*)

Rückgabetypp

FileNode


```

classmethod _XmlParser__interpret_attribute_string(txt)

    Parameter
        txt (str)

    Rückgabotyp
        Tuple[bool, str]

classmethod _XmlParser__parse_attrib(key, value)

    Parameter
        • key (str)
        • value (str)

    Rückgabotyp
        Node

 XmlParser__parse_child(node, xnode)

    Parameter
        • node (Node)
        • xnode (Element)

    Rückgabotyp
        Tuple[Node, Element]

 XmlParser__parse_children(node, xparent)

    Parameter
        • node (Node)
        • xparent (Element)

 XmlParser__parse_tag(node, argname, callname, feature, xnode)

    Parameter
        node (Node)

class annize.project.file_formats.xml.Marshaler
    Bases: Marshaler

class XmlDocumentLocation(element: <cyfunction Element at 0x7f6e7a167ed0>, attr_name: str = "")
    Bases: object

    Parameter
        • element (Element)
        • attr_name (str)

    element: Element

    attr_name: str = ''

    add_change(change)

```

`add_element(node, xelem)`

Parameter

- `node` (`Node`)
- `xelem` (`Element`)

`add_element_attr(node, xelem, attrname)`

Parameter

- `node` (`Node`)
- `xelem` (`Element`)
- `attrname` (`str`)

`_abc_impl = <_abc._abc_data object>`

`add_element_tree(node, xtree)`

Parameter

- `node` (`Node`)
- `xtree` (`ElementTree`)

`save_filenode_to_file(node)`

Parameter

- `node` (`FileNode`)

annize.project.materializer package

Materializing of Annize projects into a working runtime structure (usually used by the Runner application).

See `materialize()`.

All submodules are only used internally by this one. There is a core part, some preprocessor functions, and some behaviors that implement what it does for different types of project nodes.

`class annize.project.materializer.MaterializationResult(root_objects, node_association, problems)`

Bases: `object`

Parameter

- `root_objects` (`list[Any]`)
- `node_association` (`dict[Node, list[Any]]`)
- `problems` (`dict[Node | None, list[Exception]]`)

property `root_objects`: `list[Any]`

`objects_for_node(node)`

Parameter

- `node` (`Node`)

Rückgabotyp

`list[Any] | None`

erroneous_nodes()

Rückgabotyp
list[Node]

errors_for_node(node)

Parameter
node (Any)

Rückgabotyp
list[Exception]

`annize.project.materializer.materialize(project, *, feature_loader=None)`

Parameter

- **project** (ProjectNode)
- **feature_loader** (FeatureLoader | None)

Rückgabotyp
MaterializationResult

`annize.project.materializer._translate_from_clone(real_nodes_for_clones, node_association, errors)`

`annize.project.materializer._node_clone_link(original, clone)`

Subpackages

annize.project.materializer.behaviors package

Behaviors.

See [Behavior](#).

class `annize.project.materializer.behaviors.Behavior`

Bases: ABC

A behavior implements what the materializer does for a given node. See subclasses in the submodules.

abstractmethod `node_context(nodemat)`

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter
nodemat (NodeMaterialization) – The node materialization for the current node.

Rückgabotyp
ContextManager

`_abc_impl = <_abc._abc_data object>`

Submodules

annize.project.materializer.behaviors.argument module

See [ArgumentBehavior](#) and [AssociateArgumentNodeBehavior](#).

```
class annize.project.materializer.behaviors.argument.ArgumentBehavior(callfct, *,  
                                                                    feature_loader)
```

Bases: [Behavior](#)

Behavior that handles argument nodes (incl. creation of an object for an object node).

Parameter

feature_loader ([FeatureLoader](#))

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter

nodemat – The node materialization for the current node.

_abc_impl = <_abc._abc_data object>

```
class annize.project.materializer.behaviors.argument.AssociateArgumentNodeBehavior(association)
```

Bases: [Behavior](#)

Parameter

association (*dict*[[ArgumentNode](#), *list*[*Any*]])

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter

nodemat – The node materialization for the current node.

_abc_impl = <_abc._abc_data object>

annize.project.materializer.behaviors.basket module

See [BasketBehavior](#).

```
class annize.project.materializer.behaviors.basket.BasketBehavior
```

Bases: [Behavior](#)

Behavior that handles baskets.

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter

nodemat – The node materialization for the current node.

_abc_impl = <_abc._abc_data object>

annize.project.materializer.behaviors.block module

See [BlockBehavior](#).

class annize.project.materializer.behaviors.block.**BlockBehavior**

Bases: [Behavior](#)

Behavior that handles block.

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter

nodemat – The node materialization for the current node.

_abc_impl = <_abc._abc_data object>

annize.project.materializer.behaviors.feature_unavailable module

See [FeatureUnavailableBehavior](#).

class

annize.project.materializer.behaviors.feature_unavailable.**FeatureUnavailableBehavior**

Bases: [Behavior](#)

Behavior that handles on-feature-unavailable nodes.

__context_skipnode_featureignorelist(*node*)

__context_catchexceptions(*nodemat, featureignorelist*)

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter**nodemat** – The node materialization for the current node.**_abc_impl** = <_abc._abc_data object>**annize.project.materializer.behaviors.reference module**See [ReferenceBehavior](#).**class** annize.project.materializer.behaviors.reference.**ReferenceBehavior**Bases: [Behavior](#)

Behavior that handles reference nodes.

node_context(*nodemat*)

For a node, the materializer will enter the context returned by this function for all behaviors.

The materializer itself does that for the root node. Behaviors itself are responsible for triggering that same process on children.

So, any node gets materialized in the context of all behaviors on all parent nodes. Actual materialization logic happens in this function, in the course of setting up and taking down all these contexts.

Parameter**nodemat** – The node materialization for the current node.**_abc_impl** = <_abc._abc_data object>**Submodules****annize.project.materializer.core module**

Inner core parts of the project materializer. Only used internally by the parent package.

class annize.project.materializer.core.**NodeMaterialization**(*materializer, node, store*)

Bases: object

Parameter

- **materializer** ([ProjectMaterializer](#))
- **node** ([Node](#))
- **store** (*dict*)

property node: [Node](#)**set_materialized_result**(*resultlist*)**set_problems**(*problems*)**Parameter****problems** (*Iterable[Exception]*)**get_materialized_children_tuples**()**get_materialized_children**()**Rückgabetyp***Iterable[Any]*

```

try_get_materialization_for_node(node)

    Parameter
        node (Node)

property has_result

property result

property problems: list[Exception]

class annize.project.materializer.core.ProjectMaterializer(node, *, behaviors)
    Bases: object

        Parameter

            • node (Node)

            • behaviors (Iterable[annize.project.materializer.behaviors.Behavior])

        __materialization_for_node(node, store)

            Parameter

                • node (Node)

                • store (dict)

            Rückgabetyt
                NodeMaterialization

        __materialize(node, store)

            Parameter

                • node (Node)

                • store (dict)

            Rückgabetyt
                None

        _materialize_hlp_childobjs(node, store)

            Parameter

                • node (Node)

                • store (dict)

            Rückgabetyt
                list[Tuple[Node, list[Any]]]

        __get_erroneous_nodes(materializationstore, old_erroneous_nodes)

        get_materialized()

            Rückgabetyt
                Tuple[list[Any] | None, dict[Node, list[Exception]]]

exception annize.project.materializer.core.InternalError
    Bases: Exception

```

exception `annize.project.materializer.core.ChildrenNotMaterializableError(node)`

Bases: [*InternalError*](#)

Parameter

node ([*Node*](#))

annize.project.materializer.preprocessors module

Some preprocessor functions used by the materializer.

Only used internally by the parent package.

`annize.project.materializer.preprocessors.resolve_appendtonodes(topnode)`

Parameter

topnode ([*Node*](#))

Rückgabetyt

[*Node*](#)

`annize.project.materializer.preprocessors.normalize_blockscopes(topnode)`

Parameter

topnode ([*Node*](#))

Rückgabetyt

[*Node*](#)

Submodules

annize.project.feature_loader module

Feature module loader.

See [*FeatureLoader*](#).

class `annize.project.feature_loader.FeatureLoader`

Bases: [*ABC*](#)

Base class for a feature module loader.

abstractmethod `load_feature(name)`

Parameter

name ([*str*](#))

Rückgabetyt

[*Any*](#) | [*None*](#)

abstractmethod `get_all_available_feature_names()`

Rückgabetyt

[*list*](#)[[*str*](#)]

`_abc_impl = <_abc._abc_data object>`

class `annize.project.feature_loader.DefaultFeatureLoader`

Bases: [*FeatureLoader*](#)

Default feature module loader.


```

_FEATURES_NAMESPACE = 'annize.features'
_COMMON_NAMESPACE_POSTFIX = 'common'

load_feature(name)

get_all_available_feature_names()

__find_feature_modules_in_package(package_name)

    Parameter
        package_name (str)

    Rückgabetyt
        list[str]

_abc_impl = <_abc._abc_data object>

```

annize.project.inspector module

Project inspector.

See [Inspector](#).

```
class annize.project.inspector.Inspector(feature_loader)
```

Bases: object

Inspectors are used in order to get various additional metadata about parts of a project, which are useful e.g. for project configuration UIs.

```

    Parameter
        feature_loader (FeatureLoader)

```

```
class ArgumentMatchings(all_matchings)
```

Bases: object

```

    Parameter
        all_matchings (list[ArgumentMatching])

```

```
class ArgumentMatching(arg_name, nodes, allows_multiple_args)
```

Bases: object

```

    Parameter
        • arg_name (str)
        • nodes (list[ArgumentNode])
        • allows_multiple_args (bool)

```

```
    property argname: str
```

```
    property allows_multiple_args: bool
```

```
    property nodes: list[ArgumentNode]
```

```
matching_by_argname(arg_name)
```

```

    Parameter
        arg_name (str)
    Rückgabetyt
        ArgumentMatching|None

```

```
all()
```

```

    Rückgabetyt
        list[ArgumentMatching]

```

class `TypeInfo`(*feature*, *typename*, *ctype*)

Bases: `object`

Parameter

- **feature** (*str* | *None*)
- **typename** (*str*)
- **ctype** (*type*)

property `feature`: `str` | `None`

property `typename`: `str`

property `type`: `type`

match_arguments(*node*)

Parameter

node (`Node`)

Rückgabotyp

`ArgumentMatchings`

match_node(*node*)

Parameter

node (`Node`)

Rückgabotyp

`ArgumentMatching` | `None`

get_all_types()

Rückgabotyp

`list`[`TypeInfo`]

get_types_for_argument(*node*, *argname*)

Parameter

- **node** (`Node`)
- **argname** (*str*)

Rückgabotyp

`list`[`TypeInfo`]

get_project_node(*node*)

Parameter

node (`Node`)

Rückgabotyp

`ProjectNode` | `None`

get_node_by_name(*subtree*, *name*)

Parameter

- **subtree** (`ProjectNode`)
- **name** (*str*)

Rückgabotyp`Node` | `None``resolve_reference_node(node, *, deep=True)`**Parameter**

- **node** (`Node`)
- **deep** (`bool`)

Rückgabotyp`ArgumentNode` | `None``__get_node_materialtype(node)`**Parameter****node** (`Node`)**Rückgabotyp**`type` | `None`**annize.project.loader module**

Loading Annize projects from disk.

See also `load_project()`.

`annize.project.loader.load_project(project_path)`

Load a project from disk. Return `None` if the given path does not lead to a location inside an Annize project.

Do not use it directly. See `annize.project.Project.load()`.

Parameter

project_path (`str` | `Path`) – A path to somewhere inside an Annize project.

Rückgabotyp`Project` | `None`

`annize.project.loader.find_project_annize_config_root_file(project_path)`

Return the main configuration file for an Annize project given by a path (the path may point to somewhere inside the project; not only inside the Annize configuration directory), or `None` if the given path does not lead to a location inside an Annize project.

Parameter

project_path (`str` | `Path`) – A path into the Annize project.

Rückgabotyp`Path` | `None`

`annize.project.loader.project_root_directory(annize_config_rootpath)`

Parameter

annize_config_rootpath (`str` | `Path`)

Rückgabotyp`Path`

annize.ui package

`annize.ui.app(app_name, **kwargs)`

Parameter

app_name (*str*)

Subpackages

annize.ui.apps package

Subpackages

annize.ui.apps.runner package

Subpackages

annize.ui.apps.runner.models package

Submodules

annize.ui.apps.runner.models.main module

annize.ui.apps.runner.models.task_chooser module

annize.ui.apps.runner.models.task_execution module

annize.ui.apps.runner.models.user_feedback module

annize.ui.apps.runner.views package

Submodules

annize.ui.apps.runner.views.main module

annize.ui.apps.runner.views.task_chooser module

annize.ui.apps.runner.views.task_execution module

annize.ui.apps.runner.views.user_feedback module

annize.ui.apps.studio package

Subpackages

annize.ui.apps.studio.models package

Submodules

annize.ui.apps.studio.models.add_child module

annize.ui.apps.studio.models.main module

annize.ui.apps.studio.models.main_tab_panel module

annize.ui.apps.studio.models.object_editor module

annize.ui.apps.studio.models.problems_list module

`annize.ui.apps.studio.models.project_config` module

`annize.ui.apps.studio.views` package

Submodules

`annize.ui.apps.studio.views.add_child` module

`annize.ui.apps.studio.views.main` module

`annize.ui.apps.studio.views.main_tab_panel` module

`annize.ui.apps.studio.views.object_editor` module

`annize.ui.apps.studio.views.problems_list` module

`annize.ui.apps.studio.views.project_config` module

`annize.user_feedback` package

class `annize.user_feedback.UserFeedbackController`

Bases: `ABC`

abstractmethod `message_dialog(message, answers, config_key)`

Parameter

- `message` (*str*)
- `answers` (*list[str]*)
- `config_key` (*str | None*)

Rückgabotyp

int

abstractmethod `input_dialog(question, suggested_answer, config_key)`

Parameter

- `question` (*str*)
- `suggested_answer` (*str*)
- `config_key` (*str | None*)

Rückgabotyp

str | None

abstractmethod `choice_dialog(question, choices, config_key)`

Parameter

- `question` (*str*)
- `choices` (*list[str]*)
- `config_key` (*str | None*)

Rückgabotyp

int | None

`_abc_impl = <_abc._abc_data object>`

class annize.user_feedback.NullUserFeedbackController

Bases: object

message_dialog(*_)

input_dialog(*_)

choice_dialog(*_)

exception annize.user_feedback.UnsatisfiableUserFeedbackAttemptError

Bases: RuntimeError

annize.user_feedback._controllers_tuples_for_context(*context*)

Parameter

context (RunContext)

Rückgabety

list[Tuple[int, UserFeedbackController]]

annize.user_feedback._controllers_for_context(*context*)

Parameter

context (RunContext)

Rückgabety

list[UserFeedbackController]

annize.user_feedback._add_controller_to_context(*, *controller*, *context*, *priority_index*=0)

Parameter

- **controller** (UserFeedbackController)
- **context** (RunContext)
- **priority_index** (int)

Rückgabety

None

annize.user_feedback.message_dialog(*message*, *answers*, *, *config_key*=None)

Parameter

- **message** (TrStr | str)
- **answers** (Iterable[TrStr | str])
- **config_key** (str | None)

Rückgabety

int

annize.user_feedback.input_dialog(*message*, *, *suggested_answer*, *config_key*=None)

Parameter

- **message** (TrStr | str)
- **suggested_answer** (TrStr | str)
- **config_key** (str | None)

Rückgabety

str | None

`annize.user_feedback.choice_dialog(message, choices, *, config_key=None)`

Parameter

- `message` (`TrStr` | `str`)
- `choices` (`Iterable[TrStr | str]`)
- `config_key` (`str` | `None`)

Rückgabotyp

`int` | `None`

Submodules

`annize.user_feedback.static` module

`class annize.user_feedback.static.StaticUserFeedbackController(answers)`

Bases: `UserFeedbackController`

Parameter

`answers` (`dict[str, Any]`)

`add_answer(config_key, value)`

Parameter

- `config_key` (`str`)
- `value` (`Any`)

Rückgabotyp

`None`

`__get_answer(config_key)`

Parameter

`config_key` (`str`)

Rückgabotyp

`Any`

`message_dialog(message, answers, config_key)`

`input_dialog(question, suggested_answer, config_key)`

`choice_dialog(question, choices, config_key)`

`_abc_impl = <_abc._abc_data object>`

`annize.user_feedback.tty` module

`class annize.user_feedback.tty.TtyUserFeedbackController`

Bases: `UserFeedbackController`

`__dialog_frame_message(message)`

Parameter

`message` (`str`)

Rückgabotyp

`str`

__dialog_frame_configkey(*config_key*)

Parameter

config_key (*str*)

Rückgabetyp

str

__dialog_frame_actions(*text*)

Parameter

text (*str*)

Rückgabetyp

str

__action_line(*num*, *text*)

Parameter

- **num** (*Any*)
- **text** (*str*)

Rückgabetyp

str

__dialog(*message*, *config_key*, *actiontext*)

Parameter

- **message** (*str*)
- **config_key** (*str*)
- **actiontext** (*str*)

Rückgabetyp

str

message_dialog(*message*, *answers*, *config_key*)

input_dialog(*question*, *suggested_answer*, *config_key*)

choice_dialog(*question*, *choices*, *config_key*)

_abc_impl = <_abc._abc_data object>

6.1.2 Submodules

6.1.3 annize.annize_cli module

The Annize CLI.

annize.annize_cli.main()

annize.annize_cli.parser(*, *only_documentation=True*)

Parameter

only_documentation (*bool*)

Rückgabetyp

ArgumentParser


```
class annize.annize_cli.Commands(project, with_answers_from_json_file, with_answers_from_json_string,
                                with_answer, **_)
```

Bases: object

Parameter

- **project** (*str*)
- **with_answers_from_json_file** (*Iterable[str]*)
- **with_answers_from_json_string** (*Iterable[str]*)
- **with_answer** (*Iterable[Tuple[str, str]]*)

```
class ConsoleRunner(*, project, selected_task=None, user_feedback=None)
```

Bases: [Runner](#)

Parameter

- **project** ([Project](#))
- **selected_task** (*str | None*)
- **user_feedback** (*TODO*)

show_task_chooser()

show_task_execution()

show_task_execution_success()

run_runner()

_abc_impl = *<_abc._abc_data object>*

```
project_default = '/home/pino/projects/annize'
```

```
classmethod __answers_from_json_files(destination, with_answers_from_json_files)
```

Parameter

- **destination** (*dict*)
- **with_answers_from_json_files** (*Iterable[str]*)

```
classmethod __answers_from_json_strings(destination, with_answers_from_json_strings)
```

Parameter

- **destination** (*dict*)
- **with_answers_from_json_strings** (*Iterable[str]*)

```
classmethod __answers_from_single_answers(destination, with_answers)
```

Parameter

- **destination** (*dict*)
- **with_answers** (*Iterable[Tuple[str, str]]*)

```
do(task_name, **_)
```

Parameter

task_name (*str*)

```
studio(**_)
```


a

- annize, 13
- annize.annize_cli, 124
- annize.asset, 13
- annize.asset.data, 13
- annize.asset.project_info, 13
- annize.data, 13
- annize.data.color, 13
- annize.data.container, 14
- annize.data.unique, 15
- annize.data.version, 15
- annize.features, 18
- annize.features.authors, 72
- annize.features.base, 72
- annize.features.changelog, 18
- annize.features.changelog.common, 18
- annize.features.dependencies, 19
- annize.features.dependencies.common, 19
- annize.features.dependencies.python, 20
- annize.features.distributables, 21
- annize.features.distributables.common, 21
- annize.features.distributables.debian, 23
- annize.features.distributables.flatpak, 34
- annize.features.distributables.python_wheel, 39
- annize.features.distributables.store, 21
- annize.features.distributables.store.pypi, 21
- annize.features.distributables.tar, 42
- annize.features.documentation, 43
- annize.features.documentation.common, 53
- annize.features.documentation.sphinx, 43
- annize.features.documentation.sphinx._utils, 46
- annize.features.documentation.sphinx.common, 46
- annize.features.documentation.sphinx.cpp, 50
- annize.features.documentation.sphinx.doxygen_compat, 51
- annize.features.documentation.sphinx.javascript, 52
- annize.features.documentation.sphinx.output, 43
- annize.features.documentation.sphinx.output.common, 43
- annize.features.documentation.sphinx.output.html, 44
- annize.features.documentation.sphinx.output.pdf, 45
- annize.features.documentation.sphinx.output.plaintext, 45
- annize.features.documentation.sphinx.python, 53
- annize.features.documentation.sphinx.rst, 53
- annize.features.files, 55
- annize.features.files.common, 57
- annize.features.files.transfer, 55
- annize.features.files.transfer.common, 56
- annize.features.files.transfer.ssh, 56
- annize.features.homepage, 60
- annize.features.homepage.common, 63
- annize.features.homepage.sections, 60
- annize.features.homepage.sections.about, 61
- annize.features.homepage.sections.changelog, 61
- annize.features.homepage.sections.documentation, 61
- annize.features.homepage.sections.download, 61
- annize.features.homepage.sections.gallery, 62
- annize.features.homepage.sections.imprint, 62
- annize.features.homepage.sections.license, 63
- annize.features.i18n, 66
- annize.features.i18n.common, 66
- annize.features.i18n.gettext, 67
- annize.features.injections, 68
- annize.features.injections.common, 68
- annize.features.injections.python, 68
- annize.features.licensing, 75
- annize.features.media_galleries, 76

- annize.features.task, 77
- annize.features.testing, 69
 - annize.features.testing.common, 69
 - annize.features.testing.pylint, 69
 - annize.features.testing.pytest, 69
 - annize.features.testing.pyunit, 70
- annize.features.version, 77
- annize.features.version_control, 70
 - annize.features.version_control.common, 70
 - annize.features.version_control.git, 71
- annize.flow, 78
 - annize.flow.run_context, 78
 - annize.flow.runner, 83
- annize.fs, 85
 - annize.fs.ext, 89
- annize.i18n, 91
- annize.object, 94
 - annize.object.controller, 94
 - annize.object.parameter_info, 96
- annize.project, 97
 - annize.project.feature_loader, 116
 - annize.project.file_formats, 107
 - annize.project.file_formats.xml, 108
 - annize.project.inspector, 117
 - annize.project.loader, 119
 - annize.project.materializer, 110
 - annize.project.materializer.behaviors, 111
 - annize.project.materializer.behaviors.argument, 112
 - annize.project.materializer.behaviors.basket, 112
 - annize.project.materializer.behaviors.block, 113
 - annize.project.materializer.behaviors.feature_unavailable, 113
 - annize.project.materializer.behaviors.reference, 114
 - annize.project.materializer.core, 114
 - annize.project.materializer.preprocessors, 116
- annize.ui, 120
 - annize.ui.apps, 120
- annize.user_feedback, 121
 - annize.user_feedback.static, 123
 - annize.user_feedback.tty, 123

Sonderzeichen

- `_ABOUT_NAME` (Attribut von `annize.features.documentation.sphinx.common.ReadmeDocument`), 50
- `_ANNIZE_CONFIG_ROOTPATH_NAME` (Attribut von `annize.flow.run_context.RunContext`), 78
- `_COMMON_NAMESPACE_POSTFIX` (Attribut von `annize.project.feature_loader.DefaultFeatureLoader`), 117
- `_Context__nodeshort()` (statische Methode von `annize.project.file_formats.xml._XmlParser._Context`), 108
- `_CreateObjectHelper` (Klasse in `annize.object.controller`), 94
- `_CreateObjectHelper.ParameterConfig` (Klasse in `annize.object.controller`), 94
- `_CreateObjectHelper__convert_kwargs_from_string()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__determine_matching_keywords_for_arg()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__fill_empty_lists()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__fill_unspecified_optionals()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__get_parameter_config()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__put_item_into_kwargs()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CreateObjectHelper__shift_args_to_kwargs()` (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
- `_CultureFence` (Klasse in `annize.i18n`), 93
- `_FEATURES_NAMESPACE` (Attribut von `annize.project.feature_loader.DefaultFeatureLoader`), 116
- `_IS_TOPLEVEL_OBJECT__METADATA_KEY` (Attribut von `annize.flow.run_context.RunContext`), 78
- `_S_CHANGE` (Attribut von `annize.features.changelog.common.ByVersionControlSystemCommitM`), 19
- `_S_LABEL` (Attribut von `annize.features.changelog.common.ByVersionControlSystemCommitM`), 19
- `_TContent` (Attribut von `annize.fs.ext.DynamicFile`), 90
- `_TStaticContent` (Attribut von `annize.fs.ext.DynamicFile`), 90
- `_TransferHelper__transfer_piece()` (statische Methode von `annize.fs.Path._TransferHelper`), 88
- `_XmlParser` (Klasse in `annize.project.file_formats.xml`), 108
- `_XmlParser._Context` (Klasse in `annize.project.file_formats.xml`), 108
- `_XmlParser._TagParts` (Klasse in `annize.project.file_formats.xml`), 108
- `_XmlParser__interpret_attribute_string()` (Klassenmethode von `annize.project.file_formats.xml._XmlParser`), 108
- `_XmlParser__parse_attrib()` (Klassenmethode von `annize.project.file_formats.xml._XmlParser`), 109
- `_XmlParser__parse_child()` (Methode von `annize.project.file_formats.xml._XmlParser`), 109
- `_XmlParser__parse_children()` (Methode von `annize`), 109

`ze.project.file_formats.xml._XmlParser`), 109
`__XmlParser__parse_tag()` (Methode von `anni-ze.project.file_formats.xml._XmlParser`), 109
`__action_line()` (Methode von `anni-ze.user_feedback.tty.TtyUserFeedbackController`), 124
`__answers_from_json_files()` (Klassenmethode von `annize.annize_cli.Commands`), 125
`__answers_from_json_strings()` (Klassenmethode von `annize.annize_cli.Commands`), 125
`__answers_from_single_answers()` (Klassenmethode von `annize.annize_cli.Commands`), 125
`__call_git()` (Methode von `anni-ze.features.version_control.git.VersionControlSystem`), 71
`__changed__helpers()` (Methode von `anni-ze.project.Node`), 100
`__changed_handler()` (Methode von `anni-ze.project.ProjectNode`), 102
`__cleanup()` (Methode von `anni-ze.fs.ext.FreshTempDirectory`), 90
`__compact_changelist()` (Methode von `anni-ze.project.ProjectNode`), 102
`__context_catchexceptions()` (Methode von `anni-ze.project.materializer.behaviors.feature_unavailable.FeatureUnavailableBehavior`), 113
`__context_skipnode_featureignorelist()` (Methode von `anni-ze.project.materializer.behaviors.feature_unavailable.FeatureUnavailableBehavior`), 113
`__description()` (Methode von `annize.project.Node`), 101
`__dialog()` (Methode von `anni-ze.user_feedback.tty.TtyUserFeedbackController`), 124
`__dialog_frame_actions()` (Methode von `anni-ze.user_feedback.tty.TtyUserFeedbackController`), 124
`__dialog_frame_configkey()` (Methode von `anni-ze.user_feedback.tty.TtyUserFeedbackController`), 123
`__dialog_frame_message()` (Methode von `anni-ze.user_feedback.tty.TtyUserFeedbackController`), 123
`__do_run()` (Methode von `annize.flow.runner.Runner`), 84
`__does_exclude()` (Methode von `anni-ze.features.files.common.Exclude`), 58
`__effversion()` (Methode von `anni-ze.features.version_control.common.BuildVersion`), 71
`__files_from_package_store()` (Methode von `anni-ze.features.distributables.common.Group`), 23
`__find_feature_modules_in_package()` (Methode von `anni-ze.project.feature_loader.DefaultFeatureLoader`), 117
`__find_lcall()` (Methode von `annize.i18n.Culture`), 93
`__generate_geninfo_to_confpy()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__generate_packagelist()` (Methode von `anni-ze.features.homepage.sections.download.Section`), 62
`__generate_pre_post_proc()` (Methode von `anni-ze.features.homepage.common.Homepage`), 65
`__generate_prepare_annizeicons()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__generate_prepare_shortsnippets()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__generate_section()` (Methode von `anni-ze.features.homepage.common.Homepage`), 65
`__generate_section_culture_for()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__generate_set_misc()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__generate_set_version_and_release()` (Methode von `anni-ze.features.documentation.sphinx.common.Document`), 47
`__get_answer()` (Methode von `anni-ze.user_feedback.static.StaticUserFeedbackController`), 123
`__get_env()` (Methode von `annize.i18n.Culture`), 93
`__get_erroneous_nodes()` (Methode von `anni-ze.project.materializer.core.ProjectMaterializer`), 115
`__get_inner_generateinfo()` (Methode von `anni-ze.features.documentation.sphinx.common.CompositeDocument`), 47
`__get_node_materialtype()` (Methode von `anni-ze.project.inspector.Inspector`), 119
`__get_refgeninfo()` (Methode von `anni-ze.features.documentation.sphinx.common.ApiReferenceDocument`), 48
`__get_variant()` (Methode von `anni-ze.features.documentation.sphinx.common.RstDocument`), 49
`__info()` (Methode von `anni-ze.features.documentation.sphinx.doxygen_compat.DoxygenSupport`), 119

52	__jsfiles()	(Methode von anni-ze.data.version.AbstractVersionPatternSegment),	52	_abc_impl	(Attribut von anni-ze.data.version.AbstractVersionPatternSegment),
52	__long_str()	(Methode von anni-ze.data.unique.UniqueId), 15	52	_abc_impl	(Attribut von anni-ze.data.version.ConcatenatedVersionPatternSegment),
115	__materialization_for_node()	(Methode von anni-ze.project.materializer.core.ProjectMaterializer),	115	_abc_impl	(Attribut von anni-ze.data.version.NumericVersionPatternSegment),
115	__materialize()	(Methode von anni-ze.project.materializer.core.ProjectMaterializer),	115	_abc_impl	(Attribut von anni-ze.data.version.OptionalVersionPatternSegment),
115	__object_metadata_dict()	(Methode von anni-ze.flow.run_context.RunContext), 81	115	_abc_impl	(Attribut von anni-ze.data.version.SeparatorVersionPatternSegment),
115	__object_raw_name()	(Methode von anni-ze.flow.run_context.RunContext), 81	115	_abc_impl	(Attribut von anni-ze.data.version.SeparatorVersionPatternSegment),
115	__package_store_name()	(Methode von anni-ze.features.distributables.common.Group),	115	_abc_impl	(Attribut von anni-ze.features.distributables.common.PackageStore),
115	__patch_property_types_in_docstrings()	(Methode von anni-ze.features.documentation.sphinx.python.Python3ApiReferenceLanguage),	115	_abc_impl	(Attribut von anni-ze.features.documentation.common.Document),
115	__prepare_generate()	(Methode von anni-ze.features.documentation.sphinx.doxygen_compat.DoxygenSupportedApiReferenceLanguage),	115	_abc_impl	(Attribut von anni-ze.features.documentation.common.HtmlOutputSpec),
115	__put_object()	(Methode von anni-ze.flow.run_context.RunContext), 81	115	_abc_impl	(Attribut von anni-ze.features.documentation.common.OutputSpec),
115	__scanjsfile()	(Methode von anni-ze.features.documentation.sphinx.javascript.JavaScriptApiReferenceLanguage),	115	_abc_impl	(Attribut von anni-ze.features.documentation.common.PdfOutputSpec),
115	__set_env()	(Methode von annize.i18n.Culture), 93	115	_abc_impl	(Attribut von anni-ze.features.documentation.common.PlaintextOutputSpec),
115	__set_success_state()	(Methode von anni-ze.flow.runner.Runner), 84	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.AboutProjectDocument),
115	__set_tasks()	(Methode von anni-ze.flow.runner.Runner), 84	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.AboutProjectDocument),
115	__shorten()	(Methode von anni-ze.project.ScalarValueNode), 104	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.ApiReferenceDocument),
115	__store_files_to_package_store()	(Methode von annize.features.distributables.common.Group),	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.ApiReferenceLanguage),
115	__transfer_filter_for_exclude()	(Methode von annize.features.files.common.Directory), 60	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.ArgparseCommandLine),
115	__translations_for_stringname()	(Methode von anni-ze.features.i18n.common.ProjectDefinedTranslations),	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.CompositeDocument),
115	__uniqueid_counter	(Attribut von anni-ze.data.unique.UniqueId), 15	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.Document),
115	__uniqueid_lock	(Attribut von anni-ze.data.unique.UniqueId), 15	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.Document),
115	_abc_impl	(Attribut von anni-ze.annize_cli.Commands.ConsoleRunner),	115	_abc_impl	(Attribut von anni-ze.features.documentation.sphinx.common.ReadmeDocument),

_abc_impl (Attribut von anni- ze.features.homepage.sections.gallery.Section),
 ze.features.documentation.sphinx.common.RstDocument), 62
 50 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.homepage.sections.imprint.Section),
 ze.features.documentation.sphinx.cpp.CppApiReferenceLanguage), 62
 50 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.homepage.sections.license.Section),
 ze.features.documentation.sphinx.doxygen_compat.DoxygenSupportedApiReferenceLanguage),
 52 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.i18n.common.ProjectDefinedTranslationProvider),
 ze.features.documentation.sphinx.javascript.JavaScriptApiReferenceLanguage),
 52 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.i18n.common.String), 67
 ze.features.documentation.sphinx.output.common.CatalogGenerator), (Attribut von anni-
 44 ze.features.injections.common.FilesystemContentInjection),
 _abc_impl (Attribut von anni- 68
 ze.features.documentation.sphinx.output.html.HtmlCatalogGenerator), (Attribut von anni-
 45 ze.features.injections.common.Injection),
 _abc_impl (Attribut von anni- 68
 ze.features.documentation.sphinx.output.html.HtmlCatalogGenerator), (Attribut von anni-
 45 ze.features.injections.python.ProjectInfoInjection),
 _abc_impl (Attribut von anni- 68
 ze.features.documentation.sphinx.output.pdf.PdfOutputGenerator), (Attribut von anni-
 45 ze.features.testing.common.Test), 69
 _abc_impl (Attribut von anni- _abc_impl (Attribut von anni-
 ze.features.documentation.sphinx.output.plaintext.PlaintextOutputGenerator), common.TestGroup), 69
 46 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.testing.pylint.Test), 69
 ze.features.documentation.sphinx.python.Python3ApiReferenceLanguage), (Attribut von anni-
 53 ze.features.testing.pytest.Test), 69
 _abc_impl (Attribut von anni- _abc_impl (Attribut von anni-
 ze.features.files.transfer.common.Endpoint), ze.features.testing.pyunit.Test), 70
 56 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.version_control.common.VersionControlSystem),
 ze.features.files.transfer.common.FsEndpoint), 70
 56 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.features.version_control.git.VersionControlSystem),
 ze.features.files.transfer.ssh.Endpoint), 57 71
 _abc_impl (Attribut von anni- _abc_impl (Attribut von annize.flow.runner.Runner), 85
 ze.features.homepage.common.HomepageSection), _abc_impl (Attribut von anni-
 65 ze.i18n.GettextTranslationProvider), 91
 _abc_impl (Attribut von anni- _abc_impl (Attribut von annize.i18n.ProvidedTrStr), 92
 ze.features.homepage.sections.about.Section), _abc_impl (Attribut von annize.i18n.TrStr), 92
 61 _abc_impl (Attribut von anni-
 _abc_impl (Attribut von anni- ze.i18n.TranslationProvider), 91
 ze.features.homepage.sections.changelog.Section), _abc_impl (Attribut von annize.project.ArgumentNode),
 61 104
 _abc_impl (Attribut von anni- _abc_impl (Attribut von annize.project.BlockNode), 105
 ze.features.homepage.sections.documentation.Section), _abc_impl (Attribut von anni-
 61 ze.project.BlockNodeWithScope), 106
 _abc_impl (Attribut von anni- _abc_impl (Attribut von annize.project.FileNode), 103
 ze.features.homepage.sections.download.Section), _abc_impl (Attribut von annize.project.Node), 102
 62 _abc_impl (Attribut von annize.project.ObjectNode),
 _abc_impl (Attribut von anni- 104

`_abc_impl` (Attribut von `annize.project.OnFeatureUnavailableNode`), 106
`_abc_impl` (Attribut von `annize.project.ProjectNode`), 103
`_abc_impl` (Attribut von `annize.project.ReferenceNode`), 105
`_abc_impl` (Attribut von `annize.project.ScalarValueNode`), 105
`_abc_impl` (Attribut von `annize.project.feature_loader.DefaultFeatureLoader`), 117
`_abc_impl` (Attribut von `annize.project.feature_loader.FeatureLoader`), 116
`_abc_impl` (Attribut von `annize.project.file_formats.FileFormat`), 107
`_abc_impl` (Attribut von `annize.project.file_formats.FileFormat.Marshaler`), 107
`_abc_impl` (Attribut von `annize.project.file_formats.xml.Marshaler`), 110
`_abc_impl` (Attribut von `annize.project.file_formats.xml.XmlFileFormat`), 108
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.Behavior`), 111
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.argument.ArgumentBehavior`), 112
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.argument.AssociativeBehavior`), 112
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.basket.BasketBehavior`), 113
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.block.BlockBehavior`), 113
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.feature_unavailable.FeatureUnavailableBehavior`), 114
`_abc_impl` (Attribut von `annize.project.materializer.behaviors.reference.ReferenceBehavior`), 114
`_abc_impl` (Attribut von `annize.user_feedback.UserFeedbackController`), 121
`_abc_impl` (Attribut von `annize.user_feedback.static.StaticUserFeedbackController`), 123
`_abc_impl` (Attribut von `annize.user_feedback.tty.TtyUserFeedbackController`), 124
`_add_controller_to_context()` (im Modul `annize.user_feedback`), 122
`_allowed_child_types()` (Klassenmethode von `annize.project.BlockNode`), 105
`_allowed_child_types()` (Klassenmethode von `annize.project.FileNode`), 103
`_allowed_child_types()` (Klassenmethode von `annize.project.Node`), 101
`_allowed_child_types()` (Klassenmethode von `annize.project.ObjectNode`), 104
`_allowed_child_types()` (Klassenmethode von `annize.project.ProjectNode`), 103
`_allowed_child_types()` (Klassenmethode von `annize.project.ReferenceNode`), 105
`_allowed_child_types()` (Klassenmethode von `annize.project.ScalarValueNode`), 104
`_append_section()` (Methode von `annize.features.homepage.common.Homepage`), 65
`_changed__child_added()` (Methode von `annize.project.Node`), 100
`_changed__child_removed()` (Methode von `annize.project.Node`), 100
`_changed__property_changed()` (Methode von `annize.project.Node`), 100
`_controllers_for_context()` (im Modul `annize.user_feedback`), 122
`_controllers_tuples_for_context()` (im Modul `annize.user_feedback`), 122
`_debian_category()` (im Modul `annize.features.distributables.debian`), 24
`_debian_subdir()` (im Modul `annize.features.distributables.debian`), 27
`_description_for_mediafile()` (Methode von `annize.features.media_galleries.Gallery`), 77
`_dispatch()` (Methode von `annize.flow.runner.Runner`), 84
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.AboutProjectDocument`), 50
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.ApiReferenceDocument`), 48
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.ArgparseCommandLineDocument`), 49
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.CompositeDocument`), 48
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.Document`), 47
`_generate_sources()` (Methode von `annize.features.documentation.sphinx.common.RstDocument`), 47

50
 _get_data() (im Modul *annize.features.base*), 74
 _get_type_info() (im Modul *annize.object.parameter_info*), 97
 _license() (im Modul *annize.features.licensing*), 75
 _materialize_hlp_childobjs() (Methode von *annize.project.materializer.core.ProjectMaterializer*), 115
 _mkpackage() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 39
 _mkpackage() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 41
 _mkpackage_applysource() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 38
 _mkpackage_bdist_wheel() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_correctbuildsourcepermissions() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_determinesize() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_dpkg() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_flatpak_build_export() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 39
 _mkpackage_flatpak_build_finish() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 39
 _mkpackage_flatpak_build_init() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 38
 _mkpackage_mkchangelog() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_mkcopyright() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_mkdebianconffilesfile() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_mkdebcontrolfile() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_mkexeclinks() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_mkexeclinks() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_mkmanifestin() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_mkmenuentries() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_mkprepostcmds() (Klassenmethode von *annize.features.distributables.debian.Package*), 34
 _mkpackage_mkservices() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_mksetuppyconf() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_prepareinfos() (Klassenmethode von *annize.features.distributables.debian.Package*), 33
 _mkpackage_prepareinfos() (Klassenmethode von *annize.features.distributables.flatpak.FlatpakImage*), 38
 _mkpackage_prepareinfos() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 41
 _mkpackage_setuppyconf_classifiers() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_setuppyconf_install_requires() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 42
 _mkpackage_setuppyconf_prepare() (Klassenmethode von *annize.features.distributables.python_wheel.Package*), 41
 _mkpackage_share() (Klassenmethode von *annize*),

`ze.features.distributables.flatpak.FlatpakImage)`, `_str_helper()` (Methode von `anni-ze.project.ArgumentNode`), 104
`_name_anon()` (Methode von `anni-ze.data.version.AbstractVersionPatternSegment`), `_str_helper()` (Methode von `anni-ze.project.BlockNode`), 105
`_name_anon()` (Methode von `anni-ze.data.version.ConcatenatedVersionPatternSegment`), `_str_helper()` (Methode von `anni-ze.project.BlockNodeWithScope`), 105
`_name_anon()` (Methode von `anni-ze.data.version.NumericVersionPatternSegment`), `_str_helper()` (Methode von `annize.project.FileNode`), 103
`_name_anon()` (Methode von `anni-ze.data.version.OptionalVersionPatternSegment`), `_str_helper()` (Methode von `annize.project.Node`), 102
`_node_clone_link()` (im Modul `anni-ze.project.materializer`), 111
`_path()` (Methode von `anni-ze.features.distributables.debian.Package`), `_str_helper()` (Methode von `anni-ze.project.ReferenceNode`), 105
`_path()` (Methode von `anni-ze.features.distributables.flatpak.FlatpakImage`), `_str_helper()` (Methode von `anni-ze.project.ScalarValueNode`), 104
`_path()` (Methode von `anni-ze.features.distributables.flatpak.FlatpakrefFile`), `_str_to_val()` (Methode von `anni-ze.data.version.AbstractVersionPatternSegment`), 15
`_path()` (Methode von `anni-ze.features.distributables.flatpak.GpgFile`), `_str_to_val()` (Methode von `anni-ze.data.version.NumericVersionPatternSegment`), 16
`_path()` (Methode von `anni-ze.features.distributables.python_wheel.Package`), `_to_dict()` (Methode von `anni-ze.features.documentation.sphinx.common.Document.GenerateIn`), 47
`_path()` (Methode von `anni-ze.features.distributables.tar.Package`), 43
`_path()` (Methode von `anni-ze.features.documentation.common.GeneratedDocument`), 50
`_path()` (Methode von `anni-ze.features.files.common.Directory`), 60
`_path()` (Methode von `anni-ze.features.files.common.FsEntry`), 57
`_path()` (Methode von `anni-ze.features.files.common.MachineRootDirectory`), 60
`_path()` (Methode von `anni-ze.features.files.common.ProjectDirectory`), 60
`_path()` (Methode von `anni-ze.features.homepage.common.GeneratedHomepage`), 66
`_path()` (Methode von `annize.fs.Path`), 86
`_path()` (Methode von `annize.fs.ext.DynamicFile`), 90
`_set_entry_path()` (Methode von `anni-ze.features.documentation.common.DocumentGenerateResult`), 54

A
`AboutProjectDocument` (Klasse in `anni-ze.features.documentation.sphinx.common`), 50
`AbstractVersionPatternSegment` (Klasse in `anni-ze.data.version`), 15
`access_filesystem()` (Methode von `anni-ze.features.files.transfer.common.Endpoint`), 56
`access_filesystem()` (Methode von `anni-ze.features.files.transfer.common.FsEndpoint`), 56
`access_filesystem()` (Methode von `anni-ze.features.files.transfer.ssh.Endpoint`), 57
`add_answer()` (Methode von `anni-ze.user_feedback.static.StaticUserFeedbackController`), 123
`add_change()` (Methode von `anni-ze.project.file_formats.FileFormat.Marshaler`), 107
`add_change()` (Methode von `anni-ze.project.file_formats.xml.Marshaler`), 109

`add_change_handler()` (Methode von `annize.project.Node`), 100
`add_element()` (Methode von `annize.project.file_formats.xml.Marshaler`), 109
`add_element_attr()` (Methode von `annize.project.file_formats.xml.Marshaler`), 110
`add_element_tree()` (Methode von `annize.project.file_formats.xml.Marshaler`), 110
`add_object()` (im Modul `annize.flow.run_context`), 82
`add_object()` (Methode von `annize.flow.run_context.RunContext`), 80
`add_translation_provider()` (im Modul `annize.i18n`), 91
`add_translations()` (Methode von `annize.features.i18n.common.ProjectDefinedTranslations`), 66
`additional_info()` (Methode von `annize.features.licensing.License`), 75
`AdministrationUtilitiesSection` (in Modul `annize.features.distributables.debian`), 27
`AFLv3` (in Modul `annize.features.licensing`), 75
`AGPLv3` (in Modul `annize.features.licensing`), 75
`all()` (Methode von `annize.project.inspector.Inspector.ArgumentMatchings`), 117
`allows_multiple_args` (`annize.object.parameter_info.ListParameterInfo` property), 97
`allows_multiple_args` (`annize.object.parameter_info.ParameterInfo` property), 96
`allows_multiple_args` (`annize.project.inspector.Inspector.ArgumentMatchings` property), 117
`annize`
 module, 13
`annize.annize_cli`
 module, 124
`annize.asset`
 module, 13
`annize.asset.data`
 module, 13
`annize.asset.project_info`
 module, 13
`annize.data`
 module, 13
`annize.data.color`
 module, 13
`annize.data.container`
 module, 14
`annize.data.unique`
 module, 15
`annize.data.version`
 module, 15
`annize.features`
 module, 18
`annize.features.authors`
 module, 72
`annize.features.base`
 module, 72
`annize.features.changelog`
 module, 18
`annize.features.changelog.common`
 module, 18
`annize.features.dependencies`
 module, 19
`annize.features.dependencies.common`
 module, 19
`annize.features.dependencies.python`
 module, 20
`annize.features.distributables`
 module, 21
`annize.features.distributables.common`
 module, 21
`annize.features.distributables.debian`
 module, 23
`annize.features.distributables.flatpak`
 module, 34
`annize.features.distributables.python_wheel`
 module, 39
`annize.features.distributables.store`
 module, 21
`annize.features.distributables.store.pypi`
 module, 21
`annize.features.distributables.tar`
 module, 42
`annize.features.documentation`
 module, 43
`annize.features.documentation.common`
 module, 53
`annize.features.documentation.sphinx`
 module, 43
`annize.features.documentation.sphinx._utils`
 module, 46
`annize.features.documentation.sphinx.common`
 module, 46
`annize.features.documentation.sphinx.cpp`
 module, 50
`annize.features.documentation.sphinx.doxygen_compat`
 module, 51
`annize.features.documentation.sphinx.javascript`
 module, 52
`annize.features.documentation.sphinx.output`
 module, 43
`annize.features.documentation.sphinx.output.common`
 module, 43
`annize.features.documentation.sphinx.output.html`
 module, 44

annize.features.documentation.sphinx.output.pdf	annize.features.task
module, 45	module, 77
annize.features.documentation.sphinx.output.plantuml	annize.features.testing
module, 45	module, 69
annize.features.documentation.sphinx.python	annize.features.testing.common
module, 53	module, 69
annize.features.documentation.sphinx.rst	annize.features.testing.pylint
module, 53	module, 69
annize.features.files	annize.features.testing.pytest
module, 55	module, 69
annize.features.files.common	annize.features.testing.pyunit
module, 57	module, 70
annize.features.files.transfer	annize.features.version
module, 55	module, 77
annize.features.files.transfer.common	annize.features.version_control
module, 56	module, 70
annize.features.files.transfer.ssh	annize.features.version_control.common
module, 56	module, 70
annize.features.homepage	annize.features.version_control.git
module, 60	module, 71
annize.features.homepage.common	annize.flow
module, 63	module, 78
annize.features.homepage.sections	annize.flow.run_context
module, 60	module, 78
annize.features.homepage.sections.about	annize.flow.runner
module, 61	module, 83
annize.features.homepage.sections.changelog	annize.fs
module, 61	module, 85
annize.features.homepage.sections.documentation	annize.fs.ext
module, 61	module, 89
annize.features.homepage.sections.download	annize.i18n
module, 61	module, 91
annize.features.homepage.sections.gallery	annize.object
module, 62	module, 94
annize.features.homepage.sections.imprint	annize.object.controller
module, 62	module, 94
annize.features.homepage.sections.license	annize.object.parameter_info
module, 63	module, 96
annize.features.i18n	annize.project
module, 66	module, 97
annize.features.i18n.common	annize.project.feature_loader
module, 66	module, 116
annize.features.i18n.gettext	annize.project.file_formats
module, 67	module, 107
annize.features.injections	annize.project.file_formats.xml
module, 68	module, 108
annize.features.injections.common	annize.project.inspector
module, 68	module, 117
annize.features.injections.python	annize.project.loader
module, 68	module, 119
annize.features.licensing	annize.project.materializer
module, 75	module, 110
annize.features.media_galleries	annize.project.materializer.behaviors
module, 76	module, 111

`annize.project.materializer.behaviors.argument` `ApplicationsEditorsCategory` (in Modul `annize.module`, 112
`annize.project.materializer.behaviors.basket` `ApplicationsEducationCategory` (in Modul `annize.module`, 112
`annize.project.materializer.behaviors.block` `ApplicationsEmulatorsCategory` (in Modul `annize.module`, 113
`annize.project.materializer.behaviors.feature` `ApplicationsFilemanagementCategory` (in Modul `annize.module`, 113
`annize.project.materializer.behaviors.reference` `ApplicationsGraphicsCategory` (in Modul `annize.module`, 114
`annize.project.materializer.core` `ApplicationsMobiledevicesCategory` (in Modul `annize.module`, 114
`annize.project.materializer.preprocessors` `ApplicationsNetworkCategory` (in Modul `annize.module`, 116
`annize.ui` `ApplicationsNetworkCommunicationCategory` (in Modul `annize.module`, 120
`annize.ui.apps` `ApplicationsNetworkFiletransferCategory` (in Modul `annize.module`, 120
`annize.user_feedback` `ApplicationsNetworkMonitoringCategory` (in Modul `annize.module`, 121
`annize.user_feedback.static` `ApplicationsNetworkWebbrowsingCategory` (in Modul `annize.module`, 123
`annize.user_feedback.tty` `ApplicationsNetworkWebnewsCategory` (in Modul `annize.module`, 123
`annize_config_rootpath` (`annize.project.Project` property), 98
`annize_user_interaction_culture()` (in Modul `annize.i18n`), 94
`Apache2` (in Modul `annize.features.licensing`), 75
`ApiReferenceDocument` (Klasse in `annize.features.documentation.sphinx.common`), 48
`ApiReferenceLanguage` (Klasse in `annize.features.documentation.sphinx.common`), 48
`ApiReferenceLanguage.ApiReferenceGenerateInfo` (Klasse in `annize.features.documentation.sphinx.common`), 48
`app()` (in Modul `annize.ui`), 120
`append_child()` (Methode von `annize.project.Node`), 101
`append_rst()` (Methode von `annize.features.homepage.common.HomepageSection.Content`), 64
`append_to` (`annize.project.ArgumentNode` property), 103
`ApplicationsAccessibilityCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsAmateurradioCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsDatamanagementCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsEditorsCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsEducationCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsEmulatorsCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsFilemanagementCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsGraphicsCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsMobiledevicesCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsNetworkCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsNetworkCommunicationCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsNetworkFiletransferCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsNetworkMonitoringCategory` (in Modul `annize.features.distributables.debian`), 24
`ApplicationsNetworkWebbrowsingCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsNetworkWebnewsCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsOfficeCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsProgrammingCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsProjectmanagementCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceAstronomyCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceBiologyCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceChemistryCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceDataanalysisCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceElectronicsCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceEngineeringCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceGeoscienceCategory` (in Modul `annize.features.distributables.debian`), 25
`ApplicationsScienceMathematicsCategory` (in Modul `annize.features.distributables.debian`), 25

- 25
- ApplicationsScienceMedicineCategory (in Modul *annize.features.distributables.debian*), 25
- ApplicationsSciencePhysicsCategory (in Modul *annize.features.distributables.debian*), 25
- ApplicationsScienceSocialCategory (in Modul *annize.features.distributables.debian*), 25
- ApplicationsShellsCategory (in Modul *annize.features.distributables.debian*), 25
- ApplicationsSoundsCategory (in Modul *annize.features.distributables.debian*), 25
- ApplicationsSystemAdministrationCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemHardwareCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemLanguageenvironmentCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemMonitoringCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemPackagemanagementCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsSystemSecurityCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsTerminalemulatorsCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsTextCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsTvandradiocategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsVideoCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsViewersCategory (in Modul *annize.features.distributables.debian*), 26
- ApplicationsWebdevelopmentCategory (in Modul *annize.features.distributables.debian*), 26
- architecture (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- arg_name (*annize.project.ArgumentNode* property), 104
- argname (*annize.project.inspector.Inspector.ArgumentMatching* property), 117
- ArgparseCommandLineInterfaceDocument (Klasse in *annize.features.documentation.sphinx.common*), 49
- ArgumentBehavior (Klasse in *annize.project.materializer.behaviors.argument*), 112
- ArgumentNode (Klasse in *annize.project*), 103
- Artistic1 (in Modul *annize.features.licensing*), 75
- Artwork (Klasse in *annize.features.dependencies.common*), 20
- AssociateArgumentNodeBehavior (Klasse in *annize.project.materializer.behaviors.argument*), 112
- attach_media_file() (Methode von *annize.features.homepage.common.HomepageSection.Content*), 64
- attr_name (Attribut von *annize.project.file_formats.xml.Marshaler.XmlDocumentLocation*), 109
- ATTRIBUTE_COMMAND_END (Attribut von *annize.project.file_formats.xml._XmlParser*), 108
- ATTRIBUTE_COMMAND_START (Attribut von *annize.project.file_formats.xml._XmlParser*), 108
- author (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- author (Attribut von *annize.features.distributables.python_wheel.Package._BuildInfo*), 41
- Author (Klasse in *annize.features.authors*), 72
- authors (*annize.features.documentation.sphinx.common.Document* property), 47
- authorstring (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- available_cultures() (Methode von *annize.features.documentation.common.Document*), 54
- available_cultures() (Methode von *annize.features.documentation.sphinx.common.AboutProjectDocument*), 50
- available_cultures() (Methode von *annize.features.documentation.sphinx.common.ApiReferenceDocument*), 48
- available_cultures() (Methode von *annize.features.documentation.sphinx.common.ArgparseCommandLineInterfaceDocument*), 49
- available_cultures() (Methode von *annize.features.documentation.sphinx.common.ReadmeDocument*), 50
- available_cultures() (Methode von *annize.features.documentation.sphinx.common.RstDocument*), 49
- ## B
- background_image (Attribut von *annize.features.documentation.sphinx.output.html.HtmlOutputSpec* property), 45
- BadStructureError, 106
- Basket (Klasse in *annize.data.container*), 14

- Basket (Klasse in *annize.features.base*), 73
- BasketBehavior (Klasse in *annize.project.materializer.behaviors.basket*), 112
- Behavior (Klasse in *annize.project.materializer.behaviors*), 111
- BLOCK (Attribut von *annize.project.BlockNodeWithScope.Scope*), 105
- BlockBehavior (Klasse in *annize.project.materializer.behaviors.block*), 113
- BlockNode (Klasse in *annize.project*), 105
- BlockNodeWithScope (Klasse in *annize.project*), 105
- BlockNodeWithScope.Scope (Klasse in *annize.project*), 105
- blue (*annize.data.color.Color* property), 14
- brand_color() (im Modul *annize.features.base*), 74
- BrandColor (Klasse in *annize.features.base*), 73
- BSD2clause (in Modul *annize.features.licensing*), 75
- BSD3clause (in Modul *annize.features.licensing*), 75
- BuildVersion (Klasse in *annize.features.version_control.common*), 70
- ByVersionControlSystemCommitMessagesChangelog (Klasse in *annize.features.changelog.common*), 19
- ## C
- category (*annize.features.distributables.debian.MenuEntry* property), 23
- category (*annize.features.distributables.flatpak.MenuEntry* property), 35
- Category (Klasse in *annize.features.distributables.debian*), 23
- Cc0v1 (in Modul *annize.features.licensing*), 75
- CcBy3 (in Modul *annize.features.licensing*), 75
- CcByNc3 (in Modul *annize.features.licensing*), 75
- CcByNcNd3 (in Modul *annize.features.licensing*), 75
- CcByNcSa3 (in Modul *annize.features.licensing*), 76
- CcByNd3 (in Modul *annize.features.licensing*), 76
- CcBySa3 (in Modul *annize.features.licensing*), 76
- Changelog (Klasse in *annize.features.changelog.common*), 19
- child_node (*annize.project.Node.ChildrenListChangeEvent* property), 99
- child_position (in *annize.project.Node.ChildrenListChangeEvent* property), 99
- children (*annize.project.Node* property), 100
- children() (Methode von *annize.fs.Path*), 86
- ChildrenNotMaterializableError, 115
- choice_dialog() (im Modul *annize.user_feedback*), 123
- choice_dialog() (Methode von *annize.user_feedback.NullUserFeedbackController*), 122
- choice_dialog() (Methode von *annize.user_feedback.StaticUserFeedbackController*), 123
- choice_dialog() (Methode von *annize.user_feedback.tty.TtyUserFeedbackController*), 124
- choice_dialog() (Methode von *annize.user_feedback.UserFeedbackController*), 121
- clone() (Methode von *annize.project.Node*), 101
- Color (Klasse in *annize.data.color*), 13
- command (*annize.features.distributables.debian.MenuEntry* property), 23
- command (*annize.features.distributables.flatpak.MenuEntry* property), 35
- command (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- Commands (Klasse in *annize.annize_cli*), 124
- Commands.ConsoleRunner (Klasse in *annize.annize_cli*), 125
- comment (*annize.features.dependencies.common.Dependency* property), 20
- CommonVersionPattern (Klasse in *annize.features.version*), 78
- CommunicationProgramsSection (in Modul *annize.features.distributables.debian*), 27
- CompositeDocument (Klasse in *annize.features.documentation.sphinx.common*), 47
- ConcatenatedVersionPatternSegment (Klasse in *annize.data.version*), 17
- confdir (Attribut von *annize.features.documentation.sphinx.common.Document.GenerateIn*), 47
- config_files (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 33
- confglines (Attribut von *annize.features.documentation.sphinx.common.Document.GenerateIn*), 47
- configvalues (Attribut von *annize.features.documentation.sphinx.common.Document.GenerateIn*), 47
- Connection (Klasse in *annize.features.distributables.store.pypi*), 21
- construct_from_string() (Methode von *annize.object.parameter_info.ParameterInfo*), 96
- content (*annize.features.injections.common.FilesystemContentInjection* property), 68
- content() (im Modul *annize.fs*), 88
- copy_to() (Methode von *annize.fs.Path*), 87

- CppApiReferenceLanguage (Klasse in `annize.features.documentation.sphinx.cpp`), 50
 create_new() (statische Methode von `annize.project.Project`), 98
 create_object() (im Modul `annize.object.controller`), 95
 create_object() (statische Methode von `annize.object.controller._CreateObjectHelper`), 95
 ctime() (Methode von `annize.fs.Path`), 86
 culture (Attribut von `annize.features.documentation.sphinx.common.ResourceDescription`), 49
 culture (Attribut von `annize.features.documentation.sphinx.common.DocumentDescription`), 47
 culture (Attribut von `annize.features.homepage.common.HomepageSection._GenerateInfo`), 63
 Culture (Klasse in `annize.features.i18n.common`), 67
 Culture (Klasse in `annize.i18n`), 93
 cultures (Attribut von `annize.features.homepage.common.HomepageSection`), 65
 current() (im Modul `annize.flow.run_context`), 81
 current_culture() (im Modul `annize.i18n`), 94
 custom_arg (Attribut von `annize.features.homepage.common.HomepageSection._GenerateInfo`), 63
 custom_arg (Attribut von `annize.features.homepage.common.HomepageSection._PrePostProcG`), 64
- ## D
- Data (Klasse in `annize.features.base`), 72
 DatabasesSection (in Modul `annize.features.distributables.debian`), 27
 DateTime (Klasse in `annize.features.base`), 73
 debian_name (Attribut von `annize.features.distributables.debian.Category`), 23
 DebianInstallerUdebPackagesSection (in Modul `annize.features.distributables.debian`), 27
 DebugPackagesSection (in Modul `annize.features.distributables.debian`), 27
 default_changelog() (im Modul `annize.features.changelog.common`), 19
 default_version_control_system() (im Modul `annize.features.version_control.common`), 71
 default_version_pattern() (im Modul `annize.features.version`), 77
 DefaultFeatureLoader (Klasse in `annize.project.feature_loader`), 116
 dependencies (Attribut von `annize.features.distributables.python_wheel.Package._BuildInfo`), 41
 dependencies_to_rst_text() (im Modul `annize.features.dependencies.common`), 20
 Dependency (Klasse in `annize.features.dependencies.common`), 19
 description (Attribut von `annize.features.distributables.common.Group`), 22
 description (Attribut von `annize.features.distributables.flatpak.Group`), 36
 description (Attribut von `annize.features.media_galleries.Gallery.Item`), 77
 description (Attribut von `annize.features.distributables.debian.Package._BuildInfo`), 32
 description (Attribut von `annize.features.distributables.python_wheel.Package._BuildInfo`), 41
 description() (Methode von `annize.project.Node`), 101
 destination (Attribut von `annize.fs.ext.Mount`), 90
 destination_is_parent (Attribut von `annize.features.files.common.DirectoryPart`), 59
 destination_path (Attribut von `annize.features.files.common.DirectoryPart`), 59
 DevelopmentSection (in Modul `annize.features.distributables.debian`), 27
 Directory (Klasse in `annize.features.files.common`), 59
 DirectoryPart (Klasse in `annize.features.files.common`), 59
 do (Methode von `annize.project.OnFeatureUnavailableNode`), 106
 do() (Methode von `annize.annize_cli.Commands`), 125
 Document (Klasse in `annize.features.documentation.common`), 54
 Document (Klasse in `annize.features.documentation.sphinx.common`), 46
 Document.GenerateInfo (Klasse in `annize.features.documentation.sphinx.common`), 46
 document_root_directory (Attribut von `annize.features.homepage.common.HomepageSection._PrePostProcG`), 64
 document_root_url (Attribut von `annize.features.homepage.common.HomepageSection._GenerateInfo`), 63
 document_root_url (Attribut von `annize.features.homepage.common.HomepageSection._PrePostProcG`), 64
 document_variant_directory (Attribut von `annize.features.homepage.common.HomepageSection._GenerateInfo`), 63
 document_variant_url (Attribut von `annize.features.homepage.common.HomepageSection._GenerateInfo`), 63

- 63
documentation_source (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- DocumentationSection (in Modul *annize.features.distributables.debian*), 27
- DocumentGenerateAllCulturesResult (Klasse in *annize.features.documentation.common*), 54
- DocumentGenerateResult (Klasse in *annize.features.documentation.common*), 53
- does_exclude() (Methode von *annize.features.files.common.Exclude*), 58
- does_exclude() (Methode von *annize.features.files.common.ExcludeAllBut*), 58
- does_exclude() (Methode von *annize.features.version_control.git.ExcludeByGitIgnore*), 71
- DoxygenSupportedApiReferenceLanguage (Klasse in *annize.features.documentation.sphinx.doxygen_compatibility*), 51
- dynamic_file() (im Modul *annize.fs*), 89
- DynamicFile (Klasse in *annize.fs.ext*), 90
- ## E
- EditorsSection (in Modul *annize.features.distributables.debian*), 28
- EducationSection (in Modul *annize.features.distributables.debian*), 28
- ElectronicsSection (in Modul *annize.features.distributables.debian*), 28
- element (Attribut von *annize.project.file_formats.xml.Marshaler.XmlDocumentLocation*), 109
- email (*annize.features.authors.Author* property), 72
- EmbeddedSoftwareSection (in Modul *annize.features.distributables.debian*), 28
- Endpoint (Klasse in *annize.features.files.transfer.common*), 56
- Endpoint (Klasse in *annize.features.files.transfer.ssh*), 56
- english_lang_name (*annize.i18n.Culture* property), 93
- entries (*annize.features.changelog.common.ByVersionControlSystemCommitMessagesChangelog* property), 19
- entries (*annize.features.changelog.common.Changelog* property), 19
- Entry (Klasse in *annize.features.changelog.common*), 18
- entry_path (*annize.features.documentation.common.DocumentGenerateResult* property), 54
- entry_path (Attribut von *annize.features.documentation.sphinx.common.DocumentGenerateResult*), 47
- entry_path_for_language() (Methode von *annize.features.documentation.common.DocumentGenerateAllCulturesResult*), 54
- environment (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- EnvironmentVariable (Klasse in *annize.features.distributables.flatpak*), 35
- erroneous_nodes() (Methode von *annize.project.materializer.MaterializationResult*), 110
- errors_for_node() (Methode von *annize.project.materializer.MaterializationResult*), 111
- escape_attribute_string() (Klassenmethode von *annize.project.file_formats.xml._XmlParser*), 108
- Exclude (Klasse in *annize.features.files.common*), 58
- ExcludeAllBut (Klasse in *annize.features.files.common*), 58
- ExcludeByGitIgnores (Klasse in *annize.features.version_control.git*), 71
- Excludes (*annize.features.files.common.Directory* property), 60
- excludes (*annize.features.files.common.DirectoryPart* property), 59
- exec() (Methode von *annize.features.files.transfer.ssh.Endpoint*), 57
- executable_links (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- executable_links (Attribut von *annize.features.distributables.python_wheel.Package._BuildInfo*), 41
- ExecutableLink (Klasse in *annize.features.distributables.debian*), 24
- ExecutableLink (Klasse in *annize.features.distributables.python_wheel*), 39
- explicit_only (Attribut von *annize.object.controller._CreateObjectHelper.ParameterConfig*), 95
- explicit_only() (im Modul *annize.object*), 94
- ## F
- FailSystemCommitMessagesChangelog
- FAIL (Attribut von *annize.project.OnFeatureUnavailableNode.Action*), 106
- FAIL (Attribut von *annize.project.inspector.Inspector.TypeInfo* property), 105
- fallback_cultures (*annize.i18n.Culture* property), 93
- feature (*annize.project.ObjectNode* property), 104

feature (*annize.project.OnFeatureUnavailableNode* property), 106
 FeatureLoader (Klasse in *annize.project.feature_loader*), 116
 FeatureUnavailableBehavior (Klasse in *annize.project.materializer.behaviors.feature_unavailable*), 113
 FeatureUnavailableError, 106
 file (*annize.features.documentation.common.DocumentGenerator* property), 54
 file (*annize.features.media_galleries.Gallery.Item* property), 77
 FILE (Attribut von *annize.project.BlockNodeWithScope.Scope*), 105
 File (Klasse in *annize.features.files.common*), 57
 file_size() (Methode von *annize.fs.Path*), 86
 FileFormat (Klasse in *annize.project.file_formats*), 107
 FileFormat.Marshaler (Klasse in *annize.project.file_formats*), 107
 filehash() (im Modul *annize.features.homepage.sections.download*), 62
 FileNode (Klasse in *annize.project*), 103
 files() (Methode von *annize.features.distributables.common.Group*), 22
 files() (Methode von *annize.features.distributables.flatpak.Group*), 36
 Filesystem (Klasse in *annize.features.distributables.flatpak*), 35
 FilesystemContent (Klasse in *annize.fs*), 85
 FilesystemContentInjection (Klasse in *annize.features.injections.common*), 68
 filesystems (Attribut von *annize.features.distributables.flatpak.FlatpakImage.BuildInfo*), 38
 find_output_generator_for_outputspec() (im Modul *annize.features.documentation.sphinx.output.common*), 43
 find_project_annize_config_root_file() (im Modul *annize.project.loader*), 119
 FirstOf (Klasse in *annize.features.base*), 74
 FlatpakImage (Klasse in *annize.features.distributables.flatpak*), 37
 FlatpakImage._BuildInfo (Klasse in *annize.features.distributables.flatpak*), 37
 FlatpakrefFile (Klasse in *annize.features.distributables.flatpak*), 36
 FontsSection (in Modul *annize.features.distributables.debian*), 28
 format() (Methode von *annize.i18n.TrStr*), 92
 formatname() (Methode von *annize.features.documentation.sphinx.output.common.OutputGenerator*), 43
 formatname() (Methode von *annize.features.documentation.sphinx.output.html.HtmlOutputGenerator*), 45
 formatname() (Methode von *annize.features.documentation.sphinx.output.pdf.PdfOutputGenerator*), 45
 formatname() (Methode von *annize.features.documentation.sphinx.output.plaintext.PlaintextOutputGenerator*), 45
 freedesktop_name (Attribut von *annize.features.distributables.debian.Category* property), 23
 fresh_temp_directory() (im Modul *annize.fs*), 89
 FreshTempDirectory (Klasse in *annize.fs.ext*), 89
 friendly_filesize() (im Modul *annize.features.homepage.sections.download*), 62
 friendly_join_string_list() (im Modul *annize.i18n*), 94
 friendly_name_suggestion (Attribut von *annize.features.distributables.flatpak.Repository* property), 35
 FromRequirementsFile (Klasse in *annize.features.dependencies.python*), 21
 FsEndpoint (Klasse in *annize.features.files.transfer.common*), 56
 FsEntry (Klasse in *annize.features.files.common*), 57
 fullname (*annize.features.authors.Author* property), 72
 fullname (*annize.i18n.Culture* property), 93
G
 Gallery (Klasse in *annize.features.media_galleries*), 76
 Gallery.Item (Klasse in *annize.features.media_galleries*), 76
 GamesActionCategory (in Modul *annize.features.distributables.debian*), 26
 GamesAdventureCategory (in Modul *annize.features.distributables.debian*), 26
 GamesBlocksCategory (in Modul *annize.features.distributables.debian*), 26
 GamesBoardCategory (in Modul *annize.features.distributables.debian*), 26
 GamesCardCategory (in Modul *annize.features.distributables.debian*), 26
 GamesPuzzlesCategory (in Modul *annize.features.distributables.debian*), 26
 GamesSection (in Modul *annize.features.distributables.debian*), 28
 GamesSimulationCategory (in Modul *annize.features.distributables.debian*), 27
 GamesStrategyCategory (in Modul *annize.features.distributables.debian*), 27

GamesToolsCategory (in Modul <i>annize.features.distributables.debian</i>), 27	GeneratedDocument (Klasse in <i>annize.features.documentation.common</i>), 55
GamesToysCategory (in Modul <i>annize.features.distributables.debian</i>), 27	GeneratedHomepage (Klasse in <i>annize.features.homepage.common</i>), 66
generate() (Methode von <i>annize.features.documentation.common.Document</i>), 54	GenerateMOs (Klasse in <i>annize.features.i18ngettext</i>), 67
generate() (Methode von <i>annize.features.documentation.sphinx.common.Document</i>), 47	get_all_available_feature_names() (Methode von <i>annize.project.feature_loader.DefaultFeatureLoader</i>), 117
generate() (Methode von <i>annize.features.homepage.common.Homepage</i>), 65	get_all_available_feature_names() (Methode von <i>annize.project.feature_loader.FeatureLoader</i>), 116
generate_all_cultures() (Methode von <i>annize.features.documentation.common.Document</i>), 54	get_all_types() (Methode von <i>annize.project.inspector.Inspector</i>), 118
generate_all_cultures() (Methode von <i>annize.features.documentation.sphinx.common.Document</i>), 47	get_changes() (Methode von <i>annize.project.ProjectNode</i>), 102
generate_content() (Methode von <i>annize.features.homepage.common.HomepageSection</i>), 64	get_commit_message() (Methode von <i>annize.features.version_control.common.VersionControlSystem</i>), 70
generate_content() (Methode von <i>annize.features.homepage.sections.about.Section</i>), 61	get_commit_message() (Methode von <i>annize.features.version_control.git.VersionControlSystem</i>), 71
generate_content() (Methode von <i>annize.features.homepage.sections.changelog.Section</i>), 61	get_commit_time() (Methode von <i>annize.features.version_control.common.VersionControlSystem</i>), 70
generate_content() (Methode von <i>annize.features.homepage.sections.documentation.Section</i>), 61	get_commit_time() (Methode von <i>annize.features.version_control.git.VersionControlSystem</i>), 71
generate_content() (Methode von <i>annize.features.homepage.sections.download.Section</i>), 62	get_culture() (im Modul <i>annize.i18n</i>), 93
generate_content() (Methode von <i>annize.features.homepage.sections.gallery.Section</i>), 62	get_current_revision() (Methode von <i>annize.features.version_control.common.VersionControlSystem</i>), 70
generate_content() (Methode von <i>annize.features.homepage.sections.imprint.Section</i>), 63	get_current_revision() (Methode von <i>annize.features.version_control.git.VersionControlSystem</i>), 71
generate_content() (Methode von <i>annize.features.homepage.sections.license.Section</i>), 63	get_format() (im Modul <i>annize.project.file_formats</i>), 107
generate_sources() (Methode von <i>annize.features.documentation.sphinx.common.ApiReferenceLanguage</i>), 48	get_from_iso_639_1_lang_code() (statische Methode von <i>annize.i18n.Culture</i>), 93
generate_sources() (Methode von <i>annize.features.documentation.sphinx.doxygen_compat.DoxygenModuleApiReferenceLanguage</i>), 52	get_materialized() (Methode von <i>annize.project.materializer.core.ProjectMaterializer</i>), 115
generate_sources() (Methode von <i>annize.features.documentation.sphinx.python.Python3ApiReferenceLanguage</i>), 52	get_materialized_children() (Methode von <i>annize.project.materializer.core.NodeMaterialization</i>), 114
generate_sources() (Methode von <i>annize.features.documentation.sphinx.python.Python3ApiReferenceLanguage</i>), 52	get_materialized_children_tuples() (Methode von <i>annize.project.materializer.core.NodeMaterialization</i>), 114
generate_sources() (Methode von <i>annize.features.documentation.sphinx.python.Python3ApiReferenceLanguage</i>), 52	get_project_node() (Methode von <i>annize.project.inspector.Inspector</i>), 118
generate_sources() (Methode von <i>annize.features.documentation.sphinx.python.Python3ApiReferenceLanguage</i>), 52	get_project_node() (Methode von <i>annize.project.inspector.Inspector</i>), 118

get_revision_list() (Methode von annize.features.version_control.common.VersionControlSystem), 64
 70
 get_revision_list() (Methode von annize.features.version_control.git.VersionControlSystem), 71
 get_revision_number() (Methode von annize.features.version_control.common.VersionControlSystem), 70
 get_revision_number() (Methode von annize.features.version_control.git.VersionControlSystem), 71
 get_selected_task() (Methode von annize.flow.runner.Runner), 84
 get_success_state() (Methode von annize.flow.runner.Runner), 84
 get_tasks() (Methode von annize.flow.runner.Runner), 84
 get_types_for_argument() (Methode von annize.project.inspector.Inspector), 118
 get_variant() (Methode von annize.i18n.ProvidedTrStr), 92
 get_variant() (Methode von annize.i18n.TrStr), 92
 GettextTranslationProvider (Klasse in annize.i18n), 91
 GnomeSection (in Modul annize.features.distributables.debian), 28
 GnuLinux (Klasse in annize.features.dependencies.common), 20
 GnuRSection (in Modul annize.features.distributables.debian), 28
 GnustepSection (in Modul annize.features.distributables.debian), 28
 GpgFile (Klasse in annize.features.distributables.flatpak), 37
 GPLv3 (in Modul annize.features.licensing), 76
 GraphicsSection (in Modul annize.features.distributables.debian), 28
 green (annize.data.color.Color property), 14
 Group (Klasse in annize.features.distributables.common), 22
 Group (Klasse in annize.features.distributables.flatpak), 36

H
 HamRadioSection (in Modul annize.features.distributables.debian), 28
 has_result (annize.project.materializer.core.NodeMaterialization property), 115
 has_shell_access (annize.features.files.transfer.ssh.Endpoint property), 57
 HaskellSection (in Modul annize.features.distributables.debian), 28
 head (annize.features.homepage.common.HomepageSection property), 64
 heading (annize.features.documentation.sphinx.common.ApiReferenceLang property), 48
 heading() (statische Methode von annize.features.documentation.sphinx.rst.RstGenerator), 53
 HsCategory (in Modul annize.features.distributables.debian), 27
 homepage (Attribut von annize.features.distributables.debian.Package._BuildInfo), 32
 homepage (Attribut von annize.features.distributables.python_wheel.Package._BuildInfo), 41
 Homepage (Klasse in annize.features.homepage.common), 65
 homepage_url (annize.features.base.Data property), 73
 homepage_url() (im Modul annize.features.base), 74
 HomepageSection (Klasse in annize.features.homepage.common), 63
 HomepageSection._GenerateInfo (Klasse in annize.features.homepage.common), 63
 HomepageSection._PrePostProcGenerateInfo (Klasse in annize.features.homepage.common), 63
 HomepageSection.Content (Klasse in annize.features.homepage.common), 64
 host (annize.features.files.transfer.ssh.Endpoint property), 56
 html_color_spec (annize.data.color.Color property), 14
 HtmlOutputGenerator (Klasse in annize.features.documentation.sphinx.output.html), 45
 HtmlOutputSpec (Klasse in annize.features.documentation.common), 55
 HtmlOutputSpec (Klasse in annize.features.documentation.sphinx.output.html), 44
 hue (annize.data.color.Color property), 14
 |
 icon (annize.features.dependencies.common.Dependency property), 20
 icon (annize.features.distributables.debian.MenuEntry property), 23
 icon (annize.features.distributables.flatpak.MenuEntry property), 35
 IdCulture (Klasse in annize.features.i18n.common), 67
 IdCulture (Klasse in annize.i18n), 93
 identity_file (annize.features.files.transfer.ssh.Endpoint property), 57

IMAGE (Attribut von `annize.features.media_galleries.MediaType`), 76
 importance (`annize.features.dependencies.common.Dependency` property), 20
 importance (`annize.features.dependencies.common.Kind` property), 19
 imprint (`annize.features.base.Data` property), 73
 imprint() (im Modul `annize.features.base`), 74
 in_file() (Methode von `annize.project.file_formats.xml._XmlParser._Context`), 108
 in_node() (Methode von `annize.project.file_formats.xml._XmlParser._Context`), 108
 Included (Klasse in `annize.features.dependencies.common`), 20
 Inject (Klasse in `annize.features.injections.common`), 68
 inject() (Methode von `annize.features.injections.common.FilesystemContentInjection`), 68
 inject() (Methode von `annize.features.injections.common.Injection`), 68
 inject() (Methode von `annize.features.injections.python.ProjectInfoInjection`), 68
 Injection (Klasse in `annize.features.injections.common`), 68
 inner_type_info (in `annize.object.parameter_info.ListParameterInfo` property), 97
 inner_type_info (in `annize.object.parameter_info.ParameterInfo` property), 96
 input_dialog() (im Modul `annize.user_feedback`), 122
 input_dialog() (Methode von `annize.user_feedback.NullUserFeedbackController`), 122
 input_dialog() (Methode von `annize.user_feedback.static.StaticUserFeedbackController`), 123
 input_dialog() (Methode von `annize.user_feedback.tty.TtyUserFeedbackController`), 124
 input_dialog() (Methode von `annize.user_feedback.UserFeedbackController`), 121
 insert_child() (Methode von `annize.project.Node`), 100
 insert_child() (Methode von `annize.project.ProjectNode`), 102
 Inspector (Klasse in `annize.project.inspector`), 117
 Inspector.ArgumentMatchings (Klasse in `annize.project.inspector`), 117
 Inspector.TypeInfo (Klasse in `annize.project.inspector`), 117
 InternalError, 115
 InterpretersSection (in Modul `annize.features.distributables.debian`), 28
 IntrospectionSection (in Modul `annize.features.distributables.debian`), 28
 intstruct (Attribut von `annize.features.documentation.sphinx.common.Document.GenerateIntrospectionSection`), 46
 is_advanced (`annize.features.task.Task` property), 77
 is_compatible_for() (Klassenmethode von `annize.features.documentation.sphinx.output.common.OutputGenerator`), 43
 is_compatible_for() (Klassenmethode von `annize.features.documentation.sphinx.output.html.HtmlOutputGenerator`), 45
 is_compatible_for() (Klassenmethode von `annize.features.documentation.sphinx.output.pdf.PdfOutputGenerator`), 45
 is_compatible_for() (Klassenmethode von `annize.features.documentation.sphinx.output.plaintext.PlaintextOutputGenerator`), 45
 is_constructable_from_string (in `annize.object.parameter_info.ParameterInfo` property), 96
 is_finished() (Methode von `annize.flow.runner.Runner`), 84
 is_friendly_name() (im Modul `annize.flow.run_context`), 82
 is_friendly_name() (Methode von `annize.flow.run_context.RunContext`), 80
 is_gui (`annize.features.distributables.debian.MenuEntry` property), 23
 is_gui (`annize.features.distributables.flatpak.MenuEntry` property), 35
 is_gui (`annize.features.distributables.python_wheel.ExecutableLink` property), 39
 is_homepage (`annize.features.documentation.common.HtmlOutputSpec` property), 55
 is_optional (`annize.object.parameter_info.ParameterInfo` property), 96
 is_toplevel_object() (im Modul `annize.flow.run_context`), 83
 is_toplevel_object() (Methode von `annize.flow.run_context.RunContext`), 80
 iso_639_1_lang_code (`annize.i18n.Culture` property), 93
 Item (Klasse in `annize.features.changelog.common`), 18
 items (`annize.features.changelog.common.Entry` property), 18

items (*annize.features.media_galleries.Gallery* property), 77

J

JavaScriptApiReferenceLanguage (*Klasse in annize.features.documentation.sphinx.javascript*), 52

JavascriptSection (*in Modul annize.features.distributables.debian*), 28

JavaSection (*in Modul annize.features.distributables.debian*), 28

join_authors() (*im Modul annize.features.authors*), 72

K

KdeSection (*in Modul annize.features.distributables.debian*), 28

KernelsSection (*in Modul annize.features.distributables.debian*), 28

Keyword (*Klasse in annize.features.base*), 73

keywords (*annize.features.base.Keywords* property), 73

keywords (*Attribut von annize.features.distributables.python_wheel.Package._BuildInfo*), 41

Keywords (*Klasse in annize.features.base*), 73

kind (*annize.features.dependencies.common.Dependency* property), 20

Kind (*Klasse in annize.features.dependencies.common*), 19

kitversion (*Attribut von annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38

L

label (*annize.features.dependencies.common.Dependency* property), 20

label (*annize.features.dependencies.common.Kind* property), 19

LanguagePacksSection (*in Modul annize.features.distributables.debian*), 29

languages (*annize.features.documentation.common.DocumentGeneratorAndCulinaryResources* property), 54

LGPLv3 (*in Modul annize.features.licensing*), 76

LibrariesSection (*in Modul annize.features.distributables.debian*), 29

LibraryDevelopmentSection (*in Modul annize.features.distributables.debian*), 28

license (*Attribut von annize.features.distributables.python_wheel.Package._BuildInfo*), 41

License (*Klasse in annize.features.licensing*), 75

licensename (*Attribut von annize.features.distributables.debian.Package._BuildInfo*), 32

lightness (*annize.data.color.Color* property), 14

Line (*Klasse in annize.features.version*), 77

linkname (*annize.features.distributables.python_wheel.ExecutableLink* property), 39

LispSection (*in Modul annize.features.distributables.debian*), 29

List (*Klasse in annize.features.base*), 73

ListParameterInfo (*Klasse in annize.object.parameter_info*), 96

load() (*statische Methode von annize.project.Project*), 98

load() (*statische Methode von annize.project.ProjectNode*), 103

load_feature() (*Methode von annize.project.feature_loader.DefaultFeatureLoader*), 117

load_feature() (*Methode von annize.project.feature_loader.FeatureLoader*), 116

load_project() (*im Modul annize.project.loader*), 119

LocalRepository (*Klasse in annize.features.distributables.flatpak*), 35

locationstring() (*Methode von annize.features.files.transfer.ssh.Endpoint*), 57

logo_image (*annize.features.documentation.sphinx.output.html.HtmlOutput* property), 45

long_description (*annize.features.base.Data* property), 73

long_description (*Attribut von annize.features.distributables.python_wheel.Package._BuildInfo*), 41

long_description() (*im Modul annize.features.base*), 74

long_str (*annize.data.unique.UniqueId* property), 15

M

MachineRootDirectory (*Klasse in annize.features.files.common*), 60

MailSection (*in Modul annize.features.distributables.debian*), 29

main() (*im Modul annize_cli*), 124

main_document (*Attribut von annize.features.documentation.sphinx.common.Document.GeneratorAndCulinaryResources*), 46

mark_object_as_toplevel() (*Methode von annize.flow.run_context.RunContext*), 80

marshaler (*annize.project.file_formats.xml.XmlParser.Context* property), 108

marshaler (*annize.project.FileNode* property), 103

Marshaler (*Klasse in annize.project.file_formats.xml*), 109

Marshaler.XmlDocumentLocation (*Klasse in annize.project.file_formats.xml*), 109

masterlink (*annize.features.documentation.sphinx.output.html.HtmlOutput* property), 44

[match_arguments\(\)](#) (Methode von `annize.project.inspector.Inspector`), 118
[match_node\(\)](#) (Methode von `annize.project.inspector.Inspector`), 118
[matches_inner_type\(\)](#) (Methode von `annize.object.parameter_info.ParameterInfo`), 96
[matches_object\(\)](#) (Methode von `annize.object.parameter_info.ParameterInfo`), 96
[matches_object\(\)](#) (Methode von `annize.object.parameter_info.UnionParameterInfo`), 97
[matches_type\(\)](#) (Methode von `annize.object.parameter_info.ParameterInfo`), 96
[matching_by_argname\(\)](#) (Methode von `annize.project.inspector.Inspector.ArgumentMatchings`), 117
[MaterializationResult](#) (Klasse in `annize.project.materializer`), 110
[materialize\(\)](#) (im Modul `annize.project.materializer`), 111
[MaterializerError](#), 106
[MathematicsSection](#) (in Modul `annize.features.distributables.debian`), 29
[media_files](#) (`annize.features.homepage.common.HomepageSection` property), 64
[mediatype](#) (`annize.features.media_galleries.Gallery.Item` property), 77
[MediaType](#) (Klasse in `annize.features.media_galleries`), 76
[menu_entries](#) (Attribut von `annize.features.distributables.flatpak.FlatpakImage._BuildInfo`), 38
[menuentries](#) (Attribut von `annize.features.distributables.debian.Package._BuildInfo`), 32
[MenuEntry](#) (Klasse in `annize.features.distributables.debian`), 23
[MenuEntry](#) (Klasse in `annize.features.distributables.flatpak`), 34
[message_dialog\(\)](#) (im Modul `annize.user_feedback`), 122
[message_dialog\(\)](#) (Methode von `annize.user_feedback.NullUserFeedbackController`), 122
[message_dialog\(\)](#) (Methode von `annize.user_feedback.static.StaticUserFeedbackController`), 123
[message_dialog\(\)](#) (Methode von `annize.user_feedback.tty.TtyUserFeedbackController`), 124
[message_dialog\(\)](#) (Methode von `annize.user_feedback.UserFeedbackController`), 121
[MetaPackagesSection](#) (in Modul `annize.features.distributables.debian`), 29
[methodname](#) (`annize.features.distributables.python_wheel.ExecutableLink` property), 39
[MiscellaneousSection](#) (in Modul `annize.features.distributables.debian`), 29
[MIT](#) (in Modul `annize.features.licensing`), 76
[module](#)
[annize](#), 13
[annize.annize_cli](#), 124
[annize.asset](#), 13
[annize.asset.data](#), 13
[annize.asset.project_info](#), 13
[annize.data](#), 13
[annize.data.color](#), 13
[annize.data.container](#), 14
[annize.data.unique](#), 15
[annize.data.version](#), 15
[annize.features](#), 18
[annize.features.authors](#), 72
[annize.features.base](#), 72
[annize.features.changelog](#), 18
[annize.features.changelog.common](#), 18
[annize.features.dependencies](#), 19
[annize.features.dependencies.common](#), 19
[annize.features.dependencies.python](#), 20
[annize.features.distributables](#), 21
[annize.features.distributables.common](#), 21
[annize.features.distributables.debian](#), 23
[annize.features.distributables.flatpak](#), 34
[annize.features.distributables.python_wheel](#), 39
[annize.features.distributables.store](#), 21
[annize.features.distributables.store.pypi](#), 21
[annize.features.distributables.tar](#), 42
[annize.features.documentation](#), 43
[annize.features.documentation.common](#), 53
[annize.features.documentation.sphinx](#), 43
[annize.features.documentation.sphinx._utils](#), 46
[annize.features.documentation.sphinx.common](#), 46
[annize.features.documentation.sphinx.cpp](#), 50
[annize.features.documentation.sphinx.doxygen_compat](#), 51
[annize.features.documentation.sphinx.javascript](#), 52
[annize.features.documentation.sphinx.output](#), 43

annize.features.documentation.sphinx.output.common, 43
 annize.features.documentation.sphinx.output.html, 44
 annize.features.documentation.sphinx.output.pdf, 45
 annize.features.documentation.sphinx.output.plaintext, 45
 annize.features.documentation.sphinx.python, 53
 annize.features.documentation.sphinx.rst, 53
 annize.features.files, 55
 annize.features.files.common, 57
 annize.features.files.transfer, 55
 annize.features.files.transfer.common, 56
 annize.features.files.transfer.ssh, 56
 annize.features.homepage, 60
 annize.features.homepage.common, 63
 annize.features.homepage.sections, 60
 annize.features.homepage.sections.about, 61
 annize.features.homepage.sections.changelog, 61
 annize.features.homepage.sections.documentation, 61
 annize.features.homepage.sections.download, 61
 annize.features.homepage.sections.gallery, 62
 annize.features.homepage.sections.imprint, 62
 annize.features.homepage.sections.license, 63
 annize.features.i18n, 66
 annize.features.i18n.common, 66
 annize.features.i18n.gettext, 67
 annize.features.injections, 68
 annize.features.injections.common, 68
 annize.features.injections.python, 68
 annize.features.licensing, 75
 annize.features.media_galleries, 76
 annize.features.task, 77
 annize.features.testing, 69
 annize.features.testing.common, 69
 annize.features.testing.pylint, 69
 annize.features.testing.pytest, 69
 annize.features.testing.pyunit, 70
 annize.features.version, 77
 annize.features.version_control, 70
 annize.features.version_control.common, 70
 annize.features.version_control.git, 71
 annize.flow, 78
 annize.flow.run_context, 78
 annize.flow.runner, 83
 annize.fs, 85
 annize.fs.ext, 89
 annize.i18n, 91
 annize.object, 94
 annize.object.controller, 94
 annize.object.parameter_info, 96
 annize.project, 97
 annize.project.feature_loader, 116
 annize.project.file_formats, 107
 annize.project.file_formats.xml, 108
 annize.project.inspector, 117
 annize.project.loader, 119
 annize.project.materializer, 110
 annize.project.materializer.behaviors, 111
 annize.project.materializer.behaviors.argument, 112
 annize.project.materializer.behaviors.basket, 112
 annize.project.materializer.behaviors.block, 113
 annize.project.materializer.behaviors.feature_unavailable, 113
 annize.project.materializer.behaviors.reference, 114
 annize.project.materializer.core, 114
 annize.project.materializer.preprocessors, 116
 annize.ui, 120
 annize.ui.apps, 120
 annize.user_feedback, 121
 annize.user_feedback.static, 123
 annize.user_feedback.tty, 123
 modulename (*annize.features.distributables.python_wheel.ExecutableLink* property), 39
 MonoCliSection (in Modul *annize.features.distributables.debian*), 27
 Mount (Klasse in *annize.fs.ext*), 90
 move_to() (Methode von *annize.fs.Path*), 87
 MPLv11 (in Modul *annize.features.licensing*), 76
 MPLv2 (in Modul *annize.features.licensing*), 76
 mtime() (Methode von *annize.fs.Path*), 86
 multilanguage_frame() (Methode von *annize.features.documentation.sphinx.output.common.OutputGenerator*), 44
 multilanguage_frame() (Methode von *annize.features.documentation.sphinx.output.html.HtmlOutputGenerator*), 45
 MultipleValuesForSingleArgumentError, 95

N

name (*annize.features.dependencies.python.PythonPackage*

property), 21
 name (annize.features.distributables.debian.ExecutableLink
 property), 24
 name (annize.features.distributables.debian.MenuEntry
 property), 23
 name (annize.features.distributables.debian.Section pro-
 perty), 27
 name (annize.features.distributables.flatpak.MenuEntry
 property), 35
 name (annize.features.licensing.License property), 75
 name (annize.object.parameter_info.ParameterInfo pro-
 perty), 96
 name (annize.project.ArgumentNode property), 103
 name (Attribut von anni-
 ze.features.distributables.debian.Package._BuildInfo),
 32
 name (Attribut von anni-
 ze.features.distributables.flatpak.FlatpakImage._BuildInfo),
 38
 name (Attribut von anni-
 ze.features.distributables.python_wheel.Package._BuildInfo),
 41
 NetworkSection (in Modul anni-
 ze.features.distributables.debian), 29
 new_value (annize.project.Node.PropertyChangedEvent
 property), 99
 NewsgroupsSection (in Modul anni-
 ze.features.distributables.debian), 29
 NoCurrentCultureError, 94
 node (annize.project.materializer.core.NodeMaterialization
 property), 114
 node (annize.project.Project property), 97
 Node (Klasse in annize.project), 98
 Node.ChangeEvent (Klasse in annize.project), 98
 Node.ChildAddedEvent (Klasse in annize.project), 99
 Node.ChildRemovedEvent (Klasse in annize.project),
 99
 Node.ChildrenListChangeEvent (Klasse in anni-
 ze.project), 98
 Node.PropertyChangedEvent (Klasse in anni-
 ze.project), 99
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.argument.ArgumentBehavior),
 112
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.argument.AssociatedArgumentNodeBehavior),
 112
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.basket.BasketBehavior),
 112
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.Behavior),
 111
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.block.BlockBehavior),
 113
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.feature_unavailable.FeatureUn-
 availableBehavior), 113
 node_context() (Methode von anni-
 ze.project.materializer.behaviors.reference.ReferenceBehavior),
 114
 NodeMaterialization (Klasse in anni-
 ze.project.materializer.core), 114
 nodes (annize.project.inspector.Inspector.ArgumentMatchings.ArgumentM-
 atchings property), 117
 normalize_blockscopes() (im Modul anni-
 ze.project.materializer.preprocessors), 116
 NullUserFeedbackController (Klasse in anni-
 ze.user_feedback), 121
 NumericVersionPatternSegment (Klasse in anni-
 ze.data.version), 16
O
 object_by_name() (im Modul annize.flow.run_context),
 81
 object_by_name() (Methode von anni-
 ze.flow.run_context.RunContext), 78
 object_metadata() (im Modul anni-
 ze.flow.run_context), 83
 object_metadata() (Methode von anni-
 ze.flow.run_context.RunContext), 80
 object_name() (im Modul annize.flow.run_context), 82
 object_name() (Methode von anni-
 ze.flow.run_context.RunContext), 79
 object_names() (im Modul annize.flow.run_context),
 82
 object_names() (Methode von anni-
 ze.flow.run_context.RunContext), 79
 ObjectNode (Klasse in annize.project), 104
 objects_by_type() (im Modul anni-
 ze.flow.run_context), 82
 objects_by_type() (Methode von anni-
 ze.flow.run_context.RunContext), 79
 objects_for_node() (Methode von anni-
 ze.project.materializer.MaterializationResult),
 110
 OcamlSection (in Modul anni-
 ze.features.distributables.debian), 29
 old_value (annize.project.Node.PropertyChangedEvent
 property), 99
 OldLibrariesSection (in Modul anni-
 ze.features.distributables.debian), 29
 on_unresolvable (annize.project.ReferenceNode pro-
 perty), 105
 OnFeatureUnavailableNode (Klasse in anni-
 ze.project), 106

- OnFeatureUnavailableNode.Action (Klasse in *annize.project*), 106
- OptionalVersionPatternSegment (Klasse in *annize.data.version*), 16
- OtherOSsAndFSSsSection (in Modul *annize.features.distributables.debian*), 29
- outdir (Attribut von *annize.features.documentation.sphinx.common.DocumentGenerator*), 47
- OutOfContextError, 81
- OutputGenerator (Klasse in *annize.features.documentation.sphinx.output.common*), 43
- outputspec (*annize.features.documentation.sphinx.output.common* property), 43
- OutputSpec (Klasse in *annize.features.documentation.common*), 55
- ## P
- Package (Klasse in *annize.features.distributables.debian*), 30
- Package (Klasse in *annize.features.distributables.python_wheel*), 40
- Package (Klasse in *annize.features.distributables.tar*), 42
- package() (Methode von *annize.features.distributables.common.PackageStore*), 22
- Package._BuildInfo (Klasse in *annize.features.distributables.debian*), 31
- Package._BuildInfo (Klasse in *annize.features.distributables.python_wheel*), 40
- package_history() (Methode von *annize.features.distributables.common.PackageStore*), 22
- package_store (*annize.features.distributables.common.Group* property), 22
- PackageStore (Klasse in *annize.features.distributables.common*), 21
- parameter_name (Attribut von *annize.object.controller.CreateObjectHelper.ParameterConfig*), 95
- ParameterInfo (Klasse in *annize.object.parameter_info*), 96
- parent (*annize.project.Node* property), 100
- parse() (im Modul *annize.project.file_formats*), 107
- parse_file() (Klassenmethode von *annize.project.file_formats.FileFormat*), 107
- parse_file() (Klassenmethode von *annize.project.file_formats.xml.XmlFileFormat*), 108
- parse_file() (Methode von *annize.project.file_formats.xml.XmlParser*), 108
- parser() (im Modul *annize.annize_cli*), 124
- ParserError, 106
- partname (*annize.data.version.NumericVersionPatternSegment* property), 16
- paths (*annize.features.files.common.Directory* property), 60
- path (*annize.features.distributables.debian.ExecutableLink* property), 24
- path (*annize.features.version_control.git.VersionControlSystem* property), 71
- path (*annize.features.version_control.git.TempDirectory* property), 90
- path (*annize.project.FileNode* property), 103
- Path (Klasse in *annize.fs*), 85
- path() (Methode von *annize.fs.FilesystemContent*), 85
- path() (Methode von *annize.fs.Path*), 86
- Path._TransferHelper (Klasse in *annize.fs*), 88
- Path.TransferFilters (Klasse in *annize.fs*), 88
- Path.TransferFilters.And (Klasse in *annize.fs*), 88
- pattern (*annize.data.version.Version* property), 18
- PdfOutputGenerator (Klasse in *annize.features.documentation.sphinx.output.pdf*), 45
- PdfOutputSpec (Klasse in *annize.features.documentation.common*), 55
- PerlSection (in Modul *annize.features.distributables.debian*), 29
- PhpSection (in Modul *annize.features.distributables.debian*), 29
- pkgpath_debian (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- pkgpath_documentation (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- pkgpath_pixmaps (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32
- pkgpath_setuppy (Attribut von *annize.features.distributables.python_wheel.Package._BuildInfo*), 41
- pkgpath_share (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- pkgpath_share_applications (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- pkgpath_share_icons (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- pkgpath_usrbin (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 38

33
 pkgrootpath (Attribut von anni-prepare_generate() (Methode von anni-
 ze.features.distributables.debian.Package._BuildInfo), ze.features.documentation.sphinx.output.html.HtmlOutputGenera
 32
 45
 pkgrootpath (Attribut von anni-prerm (Attribut von anni-
 ze.features.distributables.flatpak.FlatpakImage._BuildInfo), ze.features.distributables.debian.Package._BuildInfo),
 38
 32
 pkgrootpath (Attribut von anni-pretty_project_name (annize.features.base.Data pro-
 ze.features.distributables.python_wheel.Package._BuildInfo)property), 73
 41
 pretty_project_name() (im Modul anni-
 pkgsize (Attribut von anni-ze.features.base), 74
 ze.features.distributables.debian.Package._BuildInfo), 115
 33
 PlaintextOutputGenerator (Klasse in anni-processonly_long_str (annize.data.unique.UniqueId
 ze.features.documentation.sphinx.output.plaintext), property), 15
 45
 processonly_short_str (anni-
 PlaintextOutputSpec (Klasse in anni-ze.data.unique.UniqueId property), 15
 ze.features.documentation.common), 55
 PROJECT (Attribut von anni-
 platform (Attribut von anni-ze.project.BlockNodeWithScope.Scope), 105
 ze.features.distributables.flatpak.FlatpakImage._BuildInfo), (Klasse in annize.project), 97
 38
 project_authors() (im Modul anni-
 port (annize.features.files.transfer.ssh.Endpoint proper- ze.features.authors), 72
 ty), 57
 project_cultures() (im Modul anni-
 post_process_generate() (Methode von anni-ze.features.i18n.common), 67
 ze.features.homepage.common.HomepageSection)project_default (Attribut von anni-
 64
 ze.annize_cli.Commands), 125
 post_process_generate() (Methode von anni-project_directory (annize.features.base.Data proper-
 ze.features.homepage.sections.download.Section), ty), 73
 62
 project_directory() (im Modul anni-
 postinst (Attribut von anni-ze.features.base), 74
 ze.features.distributables.debian.Package._BuildInfo), 73
 32
 project_keywords() (im Modul annize.features.base),
 73
 postproc() (Methode von anni-project_licenses() (im Modul anni-
 ze.features.documentation.sphinx.output.common.OutputGenerator)es.licensing), 76
 44
 project_name (annize.features.base.Data property), 73
 postproc() (Methode von anni-project_name (annize.features.documentation.sphinx.common.Document
 ze.features.documentation.sphinx.output.pdf.PdfOutputGenerator)property), 47
 45
 project_name() (im Modul annize.features.base), 74
 pre_process_generate() (Methode von anni-project_root_directory() (im Modul anni-
 ze.features.homepage.common.HomepageSection), ze.project.loader), 119
 64
 project_versions() (im Modul anni-
 pre_process_generate() (Methode von anni-ze.features.version), 77
 ze.features.homepage.sections.documentation.Section)ProjectCultures (Klasse in anni-
 61
 ze.features.i18n.common), 67
 pre_process_generate() (Methode von anni-ProjectDefinedTranslationProvider (Klasse in an-
 ze.features.homepage.sections.download.Section), nize.features.i18n.common), 66
 62
 ProjectDirectory (Klasse in anni-
 pre_process_generate() (Methode von anni-ze.features.files.common), 60
 ze.features.homepage.sections.gallery.Section), ProjectInfoInjection (Klasse in anni-
 62
 ze.features.injections.python), 68
 prepare() (Methode von anni-ProjectMaterializer (Klasse in anni-
 ze.flow.run_context.RunContext), 78
 ze.project.materializer.core), 115
 prepare_generate() (Methode von anni-projectname__original (anni-
 ze.features.documentation.sphinx.output.common.OutputGenerator)es.documentation.sphinx.common.Document
 78

- property), 47
- ProjectNode (Klasse in *annize.project*), 102
- property_name (in *annize.project.Node.PropertyChangedEvent* property), 99
- ProvidedTrStr (Klasse in *annize.i18n*), 92
- public_url (*annize.features.distributables.flatpak.Repository* property), 35
- PublicDomain (in Modul *annize.features.licensing*), 76
- Python (Klasse in *annize.features.dependencies.python*), 20
- Python3ApiReferenceLanguage (Klasse in *annize.features.documentation.sphinx.python*), 53
- PythonPackage (Klasse in *annize.features.dependencies.python*), 20
- PythonSection (in Modul *annize.features.distributables.debian*), 29
- ## R
- readme_pdf() (im Modul *annize.asset.data*), 13
- ReadmeDocument (Klasse in *annize.features.documentation.sphinx.common*), 50
- Recommended (Klasse in *annize.features.dependencies.common*), 20
- red (*annize.data.color.Color* property), 13
- reference_key (*annize.project.ReferenceNode* property), 105
- ReferenceBehavior (Klasse in *annize.project.materializer.behaviors.reference*), 114
- ReferenceNode (Klasse in *annize.project*), 105
- ReferenceNode.OnUnresolvableAction (Klasse in *annize.project*), 105
- regex_string() (Methode von *annize.data.version.AbstractVersionPatternSegment*), 15
- regex_string() (Methode von *annize.data.version.ConcatenatedVersionPatternSegment*), 17
- regex_string() (Methode von *annize.data.version.NumericVersionPatternSegment*), 16
- regex_string() (Methode von *annize.data.version.OptionalVersionPatternSegment*), 17
- regex_string() (Methode von *annize.data.version.SeparatorVersionPatternSegment*), 16
- register_file_format() (im Modul *annize.project.file_formats*), 107
- register_output_generator() (im Modul *annize.features.documentation.sphinx.output.common*), 43
- relative_path (*annize.features.files.common.FsEntry* property), 57
- release (*annize.features.documentation.sphinx.common.Document* property), 47
- remove() (Methode von *annize.fs.Path*), 86
- remove_change_handler() (Methode von *annize.project.Node*), 100
- remove_child() (Methode von *annize.project.Node*), 101
- Repository (Klasse in *annize.features.distributables.flatpak*), 35
- Required (Klasse in *annize.features.dependencies.common*), 20
- resolve_appendtonodes() (im Modul *annize.project.materializer.preprocessors*), 116
- resolve_reference_node() (Methode von *annize.project.inspector.Inspector*), 119
- resolved_type (*annize.object.parameter_info.ParameterInfo* property), 96
- resolved_type (*annize.object.parameter_info.UnionParameterInfo* property), 97
- result (*annize.project.materializer.core.NodeMaterialization* property), 115
- result (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 33
- result (Attribut von *annize.features.distributables.flatpak.FlatpakImage._BuildInfo*), 38
- result (Attribut von *annize.features.distributables.python_wheel.Package._BuildInfo*), 41
- root (*annize.features.files.common.DirectoryPart* property), 59
- root (*annize.features.files.common.FsEntry* property), 57
- root_objects (*annize.project.materializer.MaterializationResult* property), 110
- rst_text (*annize.features.homepage.common.HomepageSection.Content* property), 64
- RstDocument (Klasse in *annize.features.documentation.sphinx.common*), 49
- RstDocumentVariant (Klasse in *annize.features.documentation.sphinx.common*), 49
- RstGenerator (Klasse in *annize.features.documentation.sphinx.rst*), 53
- RubySection (in Modul *annize.features.distributables.debian*), 29
- run() (Methode von *annize.features.testing.common.Test*), 69

- run() (Methode von `annize.features.testing.common.TestGroup`), 69
- run() (Methode von `annize.features.testing.pylint.Test`), 69
- run() (Methode von `annize.features.testing.pytest.Test`), 69
- run() (Methode von `annize.features.testing.pyunit.Test`), 70
- run_runner() (Methode von `annize.annize_cli.Commands.ConsoleRunner`), 125
- run_runner() (Methode von `annize.flow.runner.Runner`), 83
- RunContext (Klasse in `annize.flow.run_context`), 78
- Runner (Klasse in `annize.flow.runner`), 83
- RunTests (Klasse in `annize.features.testing.common`), 69
- RustSection (in Modul `annize.features.distributables.debian`), 29
- ## S
- saturation (`annize.data.color.Color` property), 14
- save() (Methode von `annize.project.Project`), 98
- save() (Methode von `annize.project.ProjectNode`), 102
- save_filenode_to_file() (Methode von `annize.project.file_formats.xml.Marshaler`), 110
- ScalarValueNode (Klasse in `annize.project`), 104
- scalehue() (Methode von `annize.data.color.Color`), 14
- ScienceSection (in Modul `annize.features.distributables.debian`), 29
- scope (`annize.project.BlockNodeWithScope` property), 106
- ScreenLockingCategory (in Modul `annize.features.distributables.debian`), 27
- ScreenSavingCategory (in Modul `annize.features.distributables.debian`), 27
- sdk (Attribut von `annize.features.distributables.flatpak.FlatpakImage_BuildInfo`), 38
- section (Attribut von `annize.features.distributables.debian.Package_BuildInfo`), 32
- Section (Klasse in `annize.features.distributables.debian`), 27
- Section (Klasse in `annize.features.homepage.sections.about`), 61
- Section (Klasse in `annize.features.homepage.sections.changelog`), 61
- Section (Klasse in `annize.features.homepage.sections.documentation`), 61
- Section (Klasse in `annize.features.homepage.sections.download`), 61
- Section (Klasse in `annize.features.homepage.sections.gallery`), 62
- Section (Klasse in `annize.features.homepage.sections.imprint`), 62
- Section (Klasse in `annize.features.homepage.sections.license`), 63
- sections (`annize.features.homepage.common.Homepage` property), 65
- segment_names (`annize.data.version.AbstractVersionPatternSegment` property), 15
- segment_names (`annize.data.version.ConcatenatedVersionPatternSegment` property), 17
- segment_names (`annize.data.version.NumericVersionPatternSegment` property), 16
- segment_names (`annize.data.version.OptionalVersionPatternSegment` property), 17
- segment_names (`annize.data.version.VersionPattern` property), 17
- segments (`annize.data.version.VersionPattern` property), 17
- segments_tuples (`annize.data.version.Version` property), 18
- segments_tuples (`annize.features.version_control.common.BuildVersion` property), 71
- segments_tuples_to_text() (Methode von `annize.data.version.AbstractVersionPatternSegment`), 15
- segments_tuples_to_text() (Methode von `annize.data.version.ConcatenatedVersionPatternSegment`), 17
- segments_tuples_to_text() (Methode von `annize.data.version.NumericVersionPatternSegment`), 16
- segments_tuples_to_text() (Methode von `annize.data.version.OptionalVersionPatternSegment`), 17
- segments_tuples_to_text() (Methode von `annize.data.version.SeparatorVersionPatternSegment`), 16
- segments_tuples_to_text() (Methode von `annize.data.version.VersionPattern`), 18
- segments_values (`annize.data.version.Version` property), 18
- SeparatorVersionPatternSegment (Klasse in `annize.data.version`), 16
- serialize_for_confpy() (im Modul `annize.features.documentation.sphinx._utils`), 46
- ServiceDescription (Klasse in `annize`), 46

`ze.features.distributables.debian)`, 30
services (Attribut von `anni-ze.project.ReferenceNode.OnUnresolvableAction`), 105
`ze.features.distributables.debian.Package._BuildInfo`), 32
set_materialized_result() (Methode von `anni-ze.project.materializer.core.NodeMaterialization`), 114
set_object_metadata() (in Modul `anni-ze.flow.run_context`), 83
set_object_metadata() (Methode von `anni-ze.flow.run_context.RunContext`), 81
set_object_name() (in Modul `anni-ze.flow.run_context`), 82
set_object_name() (Methode von `anni-ze.flow.run_context.RunContext`), 79
set_problems() (Methode von `anni-ze.project.materializer.core.NodeMaterialization`), 114
set_selected_task() (Methode von `anni-ze.flow.runner.Runner`), 84
setuppy_conf (Attribut von `anni-ze.features.distributables.python_wheel.Package._BuildInfo`), 41
Share (Klasse in `anni-ze.features.distributables.flatpak`), 35
shares (Attribut von `anni-ze.features.distributables.flatpak.FlatpakImage._BuildInfo`), 38
ShellsSection (in Modul `anni-ze.features.distributables.debian`), 29
short_desc (`anni-ze.features.documentation.sphinx.output.html.HtmlOutputSpec` property), 44
short_desc (`anni-ze.features.homepage.common.Homepage` property), 65
short_str (`anni-ze.data.unique.UniqueId` property), 15
short_title (`anni-ze.features.documentation.sphinx.output.html.HtmlOutputSpec` property), 44
show_task_chooser() (Methode von `anni-ze.annize_cli.Commands.ConsoleRunner`), 125
show_task_chooser() (Methode von `anni-ze.flow.runner.Runner`), 84
show_task_execution() (Methode von `anni-ze.annize_cli.Commands.ConsoleRunner`), 125
show_task_execution() (Methode von `anni-ze.flow.runner.Runner`), 84
show_task_execution_success() (Methode von `anni-ze.annize_cli.Commands.ConsoleRunner`), 125
show_task_execution_success() (Methode von `anni-ze.flow.runner.Runner`), 84
SimpleProjectHomepage (Klasse in `anni-ze.features.homepage.common`), 66
SKIP (Attribut von `anni-ze.project.ReferenceNode.OnUnresolvableAction`), 105
SKIP_BLOCK (Attribut von `anni-ze.project.OnFeatureUnavailableNode.Action`), 106
SKIP_NODE (Attribut von `anni-ze.project.OnFeatureUnavailableNode.Action`), 106
sockets (Attribut von `anni-ze.features.distributables.flatpak.FlatpakImage._BuildInfo`), 38
sort_index (`anni-ze.features.homepage.common.HomepageSection` property), 64
SoundSection (in Modul `anni-ze.features.distributables.debian`), 29
source (`anni-ze.features.documentation.sphinx.common.ApiReferenceLanguage` property), 48
source (`anni-ze.features.documentation.sphinx.common.RstDocumentVariable` property), 49
source (Attribut von `anni-ze.features.distributables.debian.Package._BuildInfo`), 32
source (Attribut von `anni-ze.features.distributables.flatpak.FlatpakImage._BuildInfo`), 38
source (Attribut von `anni-ze.features.distributables.python_wheel.Package._BuildInfo`), 41
source_path (`anni-ze.features.files.common.DirectoryPart` property), 69
StaticUserFeedbackController (Klasse in `anni-ze.user_feedback.static`), 123
store_package() (Methode von `anni-ze.features.distributables.common.PackageStore`), 120
String (Klasse in `anni-ze.features.i18n.common`), 67
stringname (`anni-ze.i18n.ProvidedTrStr` property), 92
stringname (`anni-ze.i18n.TrStr` property), 92
studio() (Methode von `anni-ze.annize_cli.Commands`), 125
subcode (`anni-ze.i18n.Culture` property), 93
summary (`anni-ze.features.base.Data` property), 73
summary (Attribut von `anni-ze.features.distributables.debian.Package._BuildInfo`), 32
summary() (in Modul `anni-ze.features.base`), 74
T
target_node (`anni-ze.project.Node.ChangeEvent` property), 98
Task (Klasse in `anni-ze.features.task`), 77
TasksSection (in Modul `anni-ze.features.distributables.debian`), 30

- temp_clone() (Methode von `annize.fs.Path`), 86
- Test (Klasse in `annize.features.testing.common`), 69
- Test (Klasse in `annize.features.testing.pylint`), 69
- Test (Klasse in `annize.features.testing.pytest`), 69
- Test (Klasse in `annize.features.testing.pyunit`), 70
- TestGroup (Klasse in `annize.features.testing.common`), 69
- TexSection (in Modul `annize.features.distributables.debian`), 30
- text (`annize.data.version.Version` property), 18
- text (`annize.features.changelog.common.Item` property), 18
- text (`annize.features.licensing.License` property), 75
- text (`annize.features.version_control.common.BuildVersion` property), 71
- text_to_segments_tuples() (Methode von `annize.data.version.VersionPattern`), 17
- TextProcessingSection (in Modul `annize.features.distributables.debian`), 30
- theme (`annize.features.documentation.sphinx.output.html.HtmlOutputSpacer_feedback.tty`), 44
- time (`annize.features.changelog.common.Entry` property), 19
- title (`annize.features.distributables.common.Group` property), 22
- title (`annize.features.distributables.debian.MenuEntry` property), 23
- title (`annize.features.distributables.flatpak.MenuEntry` property), 35
- title (`annize.features.documentation.sphinx.common.Document` property), 47
- title (`annize.features.documentation.sphinx.common.ReadmeDocument` property), 50
- title (`annize.features.homepage.common.Homepage` property), 65
- title (`annize.features.media_galleries.Gallery` property), 77
- title__original (`annize.features.documentation.sphinx.common.Document` property), 47
- to_trstr() (im Modul `annize.i18n`), 92
- token (`annize.features.distributables.store.pypi.Connection` property), 21
- tr() (im Modul `annize.i18n`), 91
- tr() (statische Methode von `annize.i18n.TrStr`), 92
- tr_if_trstr() (im Modul `annize.i18n`), 92
- transfer_action_copy() (statische Methode von `annize.fs.Path._TransferHelper`), 88
- transfer_action_move() (statische Methode von `annize.fs.Path._TransferHelper`), 88
- transfer_to() (statische Methode von `annize.fs.Path._TransferHelper`), 88
- transformed() (Methode von `annize.data.color.Color`), 14
- translate() (Methode von `annize.features.i18n.common.ProjectDefinedTranslationProvider`), 66
- translate() (Methode von `annize.i18n.GettextTranslationProvider`), 91
- translate() (Methode von `annize.i18n.TranslationProvider`), 91
- translate() (Methode von `annize.i18n.TrStr`), 92
- translation_providers() (im Modul `annize.i18n`), 91
- TranslationProvider (Klasse in `annize.i18n`), 91
- TranslationUnavailableError, 94
- TrStr (Klasse in `annize.i18n`), 91
- TrStrOrStr (in Modul `annize.i18n`), 92
- try_get_materialization_for_node() (Methode von `annize.project.materializer.core.NodeMaterialization`), 114
- TTransferFilter (Attribut von `annize.fs.Path`), 87
- TtyUserFeedbackController (Klasse in `annize.features.documentation.sphinx.output.html.HtmlOutputSpacer_feedback.tty`), 123
- type (`annize.project.inspector.Inspector.TypeInfo` property), 118
- type_name (`annize.project.ObjectNode` property), 104
- type_parameter_infos() (im Modul `annize.object.parameter_info`), 97
- typename (`annize.project.inspector.Inspector.TypeInfo` property), 118
- ## U
- undo_changes() (Methode von `annize.project.ProjectNode`), 102
- UnionParameterInfo (Klasse in `annize.object.parameter_info`), 97
- UniqueId (Klasse in `annize.data.unique`), 15
- UnresolvableReferenceError, 106
- UnsatisfiableUserFeedbackAttemptError, 122
- UnspecifiedCulture (Klasse in `annize.features.i18n.common`), 67
- UnspecifiedCulture (Klasse in `annize.i18n`), 93
- UpdatePOs (Klasse in `annize.features.i18n.gettext`), 67
- Upload (Klasse in `annize.features.distributables.store.pypi`), 21
- Upload (Klasse in `annize.features.files.transfer.common`), 56
- upload() (Methode von `annize.features.distributables.flatpak.LocalRepository`), 36
- upload() (Methode von `annize.features.distributables.flatpak.Repository`), 35
- UserFeedbackController (Klasse in `annize.user_feedback`), 121
- username (`annize.features.files.transfer.ssh.Endpoint` property), 57

UtilitiesSection (in Modul *annize.features.distributables.debian*), 30

XWindowSystemSoftwareSection (in Modul *annize.features.distributables.debian*), 30

V

value (*annize.project.ScalarValueNode* property), 104

version (*annize.features.changelog.common.Entry* property), 19

version (*annize.features.dependencies.python.PythonPackage* property), 21

version (*annize.features.documentation.sphinx.common.Document* property), 47

version (*annize.features.version.Line* property), 77

version (Attribut von *annize.features.distributables.debian.Package._BuildInfo*), 32

version (Attribut von *annize.features.distributables.python_wheel.Package._BuildInfo*), 41

Version (Klasse in *annize.data.version*), 18

Version (Klasse in *annize.features.version*), 77

VersionControlSystem (Klasse in *annize.features.version_control.common*), 70

VersionControlSystem (Klasse in *annize.features.version_control.git*), 71

VersionControlSystemsSection (in Modul *annize.features.distributables.debian*), 30

VersionPattern (Klasse in *annize.data.version*), 17

VIDEO (Attribut von *annize.features.media_galleries.MediaType*), 76

VideoSection (in Modul *annize.features.distributables.debian*), 30

VirtualPackagesSection (in Modul *annize.features.distributables.debian*), 30

W

wait_finished() (Methode von *annize.flow.runner.Runner*), 85

WebServersSection (in Modul *annize.features.distributables.debian*), 28

WebSoftwareSection (in Modul *annize.features.distributables.debian*), 30

with_modified() (Methode von *annize.data.color.Color*), 14

with_updates() (Methode von *annize.object.controller._CreateObjectHelper.ParameterConfig*), 95

write_file() (Methode von *annize.fs.Path*), 86

X

XfceSection (in Modul *annize.features.distributables.debian*), 30

XmlFileFormat (Klasse in *annize.project.file_formats.xml*), 108

Z

ZopePloneFrameworkSection (in Modul *annize.features.distributables.debian*), 30