
Annize

Release 6.0.6473

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TODO jooh

KAPITEL 1

Lizenz

Annize wird unter den Bedingungen der AGPL 3 Lizenz verteilt. Das betrifft ebenso alle Dateien ohne Lizenzkopf (Nichtquelldateien, 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 6.0.6473.

Abhängigkeiten

Annize nutzt einige Teile von Drittanbietern.



Benötigt: **Python 3.13**



Benötigt: **Python package hallyd** \approx 0.90



Benötigt: **Python package klovve** \approx 1.6



Benötigt: **Python package lxml** \approx 6.0



Benötigt: **Python package pycountry** \approx 24.6



Empfohlen: **GNU/Linux**



Enthalten: **background image** (Lizenz: <https://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)

```

```

    Rückgabotyp
    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()

    Rückgabotyp
    str
    segments_tuples_to_text(segments_tuples)

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

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

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

    Rückgabotyp
    str
    segments_tuples_to_text(segments_tuples)

    Parameter
        segments_tuples (list[Tuple[str, str]])
    Rückgabotyp
    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*)

Rückgabotyp

list[Tuple[str, str]]

segments_tuples_to_text(*segments_tuples*)

Parameter

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

Rückgabotyp

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(*, require-
                                                                ments_file='requirements.txt',
                                                                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)

Rückgabetyp

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_pixmap: 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(*, link_name, module_name, method_name, is_gui)`

Bases: `object`

Parameter

- `link_name` (`str`)
- `module_name` (`str`)
- `method_name` (`str`)
- `is_gui` (`bool`)

property `link_name`: `str`

property `module_name`: `str`

property `method_name`: `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`)

Rückgabetyp

`FilesystemContent`

`classmethod _mkpackage_prepareinfos`(`build`, `tmpdir`)

Parameter

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

Rückgabetyp

`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_directory,
                                                                                         cul-
                                                                                         tu-
                                                                                         res,
                                                                                         **kwargs)

Bases: Document

    Parameter

        • parser_factory (str)
        • program_name (str)
        • heading (str | None)
        • source_directory (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=False,
    ex-
    tract_package=False,
    ex-
    tract_static=False,
    ex-
    tract_local=False,
    ex-
    tract_local_package=False,
    ex-
    tract_anonymous=False,
    ex-
    tract_privacy=False,
    fi-
    le_patterns=None,
    in-
    li-
    ne_inheritance=True,
    in-
    her-
    it_docs=True,
    hi-
    de_undoc_namespaces=False,
    hi-
    de_undoc_aliases=False,
    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](#))

Rückgabety

[None](#)

attach_media_file([file](#))

Parameter

file ([FilesystemContent](#))

Rückgabety

[None](#)

property head: [TrStr](#)

property sort_index: [int](#)

pre_process_generate([info](#))

Parameter

info ([_PrePostProcGenerateInfo](#))

Rückgabety

[None](#)

abstractmethod generate_content([info](#))

Parameter

info ([_GenerateInfo](#))

Rückgabety

[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_string_name(string_name)
```

Parameter

string_name (*str*)

Rückgabetyp

dict[*str*, *str*]

```
translate(string_name, *, culture)
```

```
add_translations(string_name, variants)
```

Parameter

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

Rückgabetyp

None

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

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

Bases: [ProvidedTrStr](#)

Parameter

- **string_name** (*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, file_name)
```

Bases: *object*

Parameter

- **po_directory** (*str* | *Path* | [FileSystemContent](#))
- **mo_directory** (*str* | *Path*)
- **file_name** (*str* | *None*)

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_directory)
    Bases: Test
    Parameter
        source_directory (str | Path)
    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.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()
```

Rückgabetyp

`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]`)

Rückgabetyp

`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(*,full_name,email)
```

Bases: object

Parameter

- **full_name** (`TrStr`)
- **email** (`str` | `None`)

property **full_name**: `TrStr`

property **email**: `str` | `None`

```
annize.features.authors.project_authors()
```

Rückgabetyt

`list[Author]`

```
annize.features.authors.join_authors(authors)
```

Parameter

authors (`list[Author]`)

Rückgabetyt

`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()

    Rückgabetyt
    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*)

Rückgabety

Color

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

Parameter

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

Rückgabety

Any

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

Rückgabety

str

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

Rückgabety

TrStr

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

Rückgabety

TrStr

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

Rückgabety

TrStr

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

Rückgabety

str

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

Rückgabety

TrStr

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

Rückgabety

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()

    Rückgabetyt
    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*)

Rückgabety

Any

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

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

Parameter

obj (*Any*)

Rückgabety

`list[str]`

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

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

Parameter

obj (*Any*)

Rückgabety

`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*)

Rückgabety

`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*)

Rückgabety

`list[T]`

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

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

Parameter

obj (*Any*)

Rückgabety

`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). There might be features whose internal code does that in order to automatically handle relative paths.

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

TTransferFilteralias 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.

Rückgabotyp

[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*)

Rückgabotyp

[Path](#)

static transfer_action_copy(*source, destination*)

Parameter

- **source** ([Path](#))
- **destination** ([Path](#))

Rückgabotyp

None

static transfer_action_move(*source, destination*)

Parameter

- **source** ([Path](#))
- **destination** ([Path](#))

Rückgabotyp

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*)

Rückgabotyp

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 `full_name`: `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`])

Rückgabety**Culture** | None`annize.i18n.current_culture()`**Rückgabety****Culture**`annize.i18n.annize_user_interaction_culture()`**Rückgabety****Culture**`annize.i18n.friendly_join_string_list(strlist)`**Parameter****strlist** (*list*[**TrStr** | *str*])**Rückgabety****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*)

Rückgabotyp

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 **marshaller**

in_file(*fpath*, *marshaller*)

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)

    Rückgabetyt
        Tuple[bool, str]

classmethod _XmlParser__parse_attrib(key, value)

    Parameter
        • key (str)
        • value (str)

    Rückgabetyt
        Node

 XmlParser__parse_child(node, xnode)

    Parameter
        • node (Node)
        • xnode (Element)

    Rückgabetyt
        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 0x7f4929fbd490>, 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`)

Rückgabetyt

`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`)

Rückgabetyt

`None`

`__get_answer(config_key)`

Parameter

`config_key` (`str`)

Rückgabetyt

`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`)

Rückgabetyt

`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(**_)
```


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