
Annize

Release 6.0.6470

Author name not set

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TODO Anise is a Python-based execution engine for automation tasks. Automation tasks exist in software development and probably all kinds of other sectors. They typically require the execution of different smaller and larger tools. Complex tasks often need a sequence of many steps to execute, with some steps having dependencies to each other. Manually triggering all these steps in the graphical interfaces of all the involved tools is possible in theory, but will generate errors and frustration after some cycles. The automation interfaces of those tools are sometimes easier, but sometimes they are error-prone. Some tasks may also need to ask the user for some information in an interactive way. Some smaller parts might also be machine-specific (e.g. filesystem paths or the code how to access a password vault), while the entire task must be runnable on some different machines. In some situations, this can lead to a rather intransparent forest of different tools, with unique oddnesses and special conventions. As the number of different project increases, you will see more and more different tools, often doing a similar job, but for different platforms or frameworks and, of course, with different usage conventions. Spontaneously written glue scripts help in the beginning, but will explode as the complexity exceeds some threshold. Typical tasks in software development could be:

- Generating documentation- Testing- Automatic code generation- Creating packages- Creating a homepage, automatically built from the available version information, the packages, the documentation and so on- Deploying this homepage to a web server- Handling version information - e.g. print it in the manual- and many moreThe Anise framework allows you to implement all those tasks in a structured but generic way in a combination of XML and Python code. Once you have created this stuff at a defined place in your project, Anise lets you easily execute your tasks from command line (or from any editor if you embed it somehow). This gives you a common and easy interface to all your 'tool glue' code.The Anise engine executes arbitrary Python sourcecode and provides some additional services like logging, parameter passing from command line, basic graphical userinterface support, a plugin interface, a flexible event system, injecting code and data from other place,dependencies between code fragments, and more.On top of this engine, Anise comes with a bunch of implementations that fulfill tasks (or parts of them) of software development. There is a testing module, a documentation- and homepage-generator, some package building methods and a lot more. The implementations use the event system in many places in order to allow customization in a somewhat technical but very flexible way. Even so, those implementations are rather specific and it depends on the particular case, if, and how many of those implementations are useful.

LICENSE

Annize is distributed under the terms of the AGPL 3 license. This also affects all included files without a license header (non-source files like images), unless they are explicitly mentioned as third-party content. Read the ‘Dependencies’ section for included third-party stuff.

UP-TO-DATE?

Are you currently reading from another source than the homepage? If you are in doubt whether your package is up-to-date, you should visit the project homepage and check that. You are currently reading the documentation for version 6.0.6470.

DEPENDENCIES

Annize makes use of some third-party parts.



Required: **Python 3.13**



Required: **Python package PyGObject** `~= 3.52`



Required: **Python package hallyd** `~= 0.90`



Required: **Python package klovve** `~= 1.6`



Required: **Python package lxml** `~= 6.0`



Required: **Python package pycountry** `~= 24.6`

Required: **GTK 4**



Recommended: **GNU/Linux**



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4.1 Installation

TODO zz

4.2 First Steps

TODO zz TODO zz cli TODO zz file format TODO zz gui

4.3 Project Configuration

TODO zz TODO zz classes TODO zz features/xml namespaces TODO zz names, references and append_to

4.3.1 Model

TODO zz

4.3.2 File Format

TODO zz

4.4 Graphical User Interface

TODO zz

4.5 The Annize Programming Interface

TODO zz TODO zz i18n TODO zz fs

4.5.1 Features

TODO zz

COMMAND LINE INTERFACE REFERENCE

```
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
 The command to execute.

5.2 Named Arguments

--project Project directory or Annize configuration file (otherwise: the current working directory). Annize will automatically try to find it in parent directories as well.

--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

Execute a task.

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

Positional Arguments

task_name	Task name.
	Default: ''

API REFERENCE

6.1 annize namespace

6.1.1 Subpackages

annize.asset package

Submodules

annize.asset.data module

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

Parameters

culture (*str*)

Return type

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`

Parameters

- **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*)

Parameters

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

Return type

[Color](#)

property html_color_spec: str

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

Parameters

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

Return type

[Color](#)

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

Parameters

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

Return type

[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

Parameters

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)

```

Parameters
 txt (str)

Return type
 str

annize.data.version module

```
class annize.data.version.AbstractVersionPatternSegment
```

Bases: ABC

```
property segment_names: list[str]
```

```
abstractmethod regexp_string()
```

Return type
 str

```
abstractmethod segments_tuples_to_text(segments_tuples)
```

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

Return type
 str

```
_name_anon(namep)
```

Parameters
 namep (str)

Return type
 None

```
_str_to_val(txt)
```

Parameters
 txt (str)

Return type
 object

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

```
class annize.data.version.NumericVersionPatternSegment(*, partname=None)
```

Bases: [AbstractVersionPatternSegment](#)

Parameters
 partname (str | None)

```
property partname: str | None
```

```
property segment_names: list[str]
```

```
regexp_string()
```

Return type

str

```
segments_tuples_to_text(segments_tuples)
```

Parameters

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

Return type

str

```
_name_anon(namep)
```

```
_str_to_val(txt)
```

Parameters

`txt` (*str*)

Return type

object

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

```
class annize.data.version.SeparatorVersionPatternSegment(*, text)
```

Bases: *AbstractVersionPatternSegment*

Parameters

`text` (*str*)

```
regexp_string()
```

Return type

str

```
segments_tuples_to_text(segments_tuples)
```

Parameters

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

Return type

str

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

```
class annize.data.version.OptionalVersionPatternSegment(*, segments)
```

Bases: *AbstractVersionPatternSegment*

Parameters

`segments` (*Iterable*[*AbstractVersionPatternSegment*])

```
property segment_names
```

```
regexp_string()
```

Return type

str

```

segments_tuples_to_text(segments_tuples)

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

    Return type
        str

_name_anon(namep)

_abc_impl = <_abc._abc_data object>

class annize.data.version.ConcatenatedVersionPatternSegment(*, segments)
    Bases: AbstractVersionPatternSegment

    Parameters
        segments (Iterable[AbstractVersionPatternSegment])

    property segment_names

    regexp_string()

    Return type
        str

    segments_tuples_to_text(segments_tuples)

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

        Return type
            str

        _name_anon(namep)

        _abc_impl = <_abc._abc_data object>

class annize.data.version.VersionPattern(*, segments)
    Bases: object

    Parameters
        segments (Iterable[AbstractVersionPatternSegment])

    property segments: list[AbstractVersionPatternSegment]

    property segment_names

    text_to_segments_tuples(text)

        Parameters
            text (str)

        Return type
            list[Tuple[str, str]]

    segments_tuples_to_text(segments_tuples)

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

        Return type
            str

```

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

Bases: object

Parameters

- **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

Parameters

text (*TrStr*)

property text: *TrStr*

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

Bases: object

Parameters

- **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

Parameters

entries (*Iterable*[*Entry*])

property entries: list[*Entry*]

```
class annize.features.changelog.common.ByVersionControlSystemCommitMessagesChangelog(*, en-
                                                                    tries)
```

Bases: *Changelog*

Parameters

entries (*Iterable*[*Entry*])

_S_CHANGE = '##CHANGE:'

_S_LABEL = '##LABEL:'

property **entries**

`annize.features.changelog.common.default_changelog()`

Return type

Changelog

annize.features.dependencies namespace

Submodules

annize.features.dependencies.common module

Project dependency handling.

```
class annize.features.dependencies.common.Kind(*, label, importance)
```

Bases: object

Parameters

- **label** (*TrStr*)

- **importance** (*int*)

property **label**: *TrStr*

property **importance**: *int*

```
class annize.features.dependencies.common.Dependency(*, kind, label, comment, icon, importance=0)
```

Bases: object

Parameters

- **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](#)

Parameters

- **origin** (str)
- **license** (str | None)

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

Parameters

dependencies (list[[Dependency](#)])

Return type

str

annize.features.dependencies.python module

Python project dependency handling.

class annize.features.dependencies.python.**Python**(*, version, kind, comment)

Bases: [Dependency](#)

Parameters

version (str)

class annize.features.dependencies.python.**PythonPackage**(*, name, version, kind, comment)

Bases: [Dependency](#)

Parameters

- **name** (str)
- **version** (str)
- **kind** ([Kind](#) | None)
- **comment** (TrStr | None)

property name: str

property version: str

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

Bases: [Basket](#)

Parameters**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

Parameters**token** (*str*)**property token:** *str***class** annize.features.distributables.store.pypi.**Upload**(*, *source*, *connection*)

Bases: object

Parameters

- **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.

Parameters

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

Return type

None

abstractmethod **package**(*, *name*)

Return package items.

Parameters

name (*str*) – The item name.

Return type

Sequence[*FilesystemContent*] | None

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

Return the package history.

Parameters

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

Return type

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.

Parameters

- **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.

Return type

Sequence[*FilesystemContent*]

property description: *TrStr*

Additional description text.

property package_store: *PackageStore* | *None*

An optional package store.

__files_from_package_store()

Return type

Iterable[*FilesystemContent*] | None

__store_files_to_package_store()

Return type

None

```
__package_store_name()
```

Return type

str

annize.features.distributables.debian module

Debian (.deb) packages.

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

Bases: object

Parameters

- **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

Parameters

- **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

Parameters

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

property **path**: str

property name: `str`

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

Parameters

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

Return type

`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)

    Parameters
        name (str)

    Return type
        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`

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`annize.features.distributables.debian.InterpretersSection`

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`annize.features.distributables.debian.IntrospectionSection`

alias of ASection

`annize.features.distributables.debian.JavaSection`

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`annize.features.distributables.debian.JavascriptSection`

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`annize.features.distributables.debian.KdeSection`

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`annize.features.distributables.debian.KernelsSection`

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`annize.features.distributables.debian.LibraryDevelopmentSection`

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`annize.features.distributables.debian.LibrariesSection`

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`annize.features.distributables.debian.LispSection`

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`annize.features.distributables.debian.LanguagePacksSection`

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`annize.features.distributables.debian.MailSection`
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`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.

Parameters

- **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`

Parameters

- **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_pixmap: str = None,
    pkgpath_usrbin: str = None, config_files: list[str] = None, pkgsize: int = None, result:
    annize.fs.FileSystemContent = None)
```

Bases: `object`

Parameters

- **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)`

Parameters

`build` (`_BuildInfo`)

Return type

`FileSystemContent`

classmethod `_mkpackage_prepareinfos(build, tmpdir)`

Parameters

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

Return type

`None`

classmethod `_mkpackage_mkcopyright(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`None`

classmethod `_mkpackage_mkchangelog(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`None`

classmethod `_mkpackage_mkexeclinks(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`None`

classmethod `_mkpackage_mkmenuentries(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`None`

classmethod `_mkpackage_mkservices(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`None`

classmethod `_mkpackage_determinesize(build)`

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_mkprepostcmds(build)`**Parameters****build** (`_BuildInfo`)**Return type**

None

classmethod `_mkpackage_mkdebiancontrolfile(build)`**Parameters****build** (`_BuildInfo`)**Return type**

None

classmethod `_mkpackage_mkdebianconffilesfile(build)`**Parameters****build** (`_BuildInfo`)**Return type**

None

classmethod `_mkpackage_correctbuildsourcepermissions(build)`**Parameters****build** (`_BuildInfo`)**Return type**

None

classmethod `_mkpackage_dpkg(build)`**Parameters****build** (`_BuildInfo`)**Return type**

None

annize.features.distributables.flatpak module

Flatpaks.

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

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

    upload(source)

        Parameters
            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
        Parameters
            • public_url (str)
            • friendly_name_suggestion (str | None)
            • upload_path (str | None)
            • upload_fsentry (FilesystemContent | None)

    upload(source)

        Parameters
            source (FilesystemContent)

```

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

Bases: [Group](#)

Parameters

- **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](#)

Parameters

- **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](#)

Parameters

- **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](#)

Parameters

- **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`

Parameters

- **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)

    Parameters
        • build (_BuildInfo)
        • tmpdir (Path)

    Return type
        None
classmethod _mkpackage_flatpak_build_init(build)

    Parameters
        build (_BuildInfo)

    Return type
        None
classmethod _mkpackage_applysource(build)

    Parameters
        build (_BuildInfo)

    Return type
        None
```

classmethod `_mkpackage_flatpak_build_finish(build)`

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_share(build)`

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_flatpak_build_export(build)`

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage(build)`

Parameters

`build` (`_BuildInfo`)

Return type

`Path`

annize.features.distributables.python_wheel module

Python Wheels.

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

Bases: `object`

Parameters

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

property `linkname`: `str`

property `modulename`: `str`

property `methodname`: `str`

property `is_gui`: `bool`

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

Bases: [FilesystemContent](#)

Parameters

- **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](#)

Parameters

- **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)

    Parameters
        build (_BuildInfo)

    Return type
        FilesystemContent
classmethod _mkpackage_prepareinfos(build, tmpdir)

    Parameters
        • build (_BuildInfo)
        • tmpdir (Path)

    Return type
        None
classmethod _mkpackage_setuppyconf_prepare(build)

    Parameters
        build (_BuildInfo)

    Return type
        None

```

classmethod `_mkpackage_setuptoolsconf_install_requires`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_setuptoolsconf_classifiers`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_mkexeclinks`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_mksetuptoolsconf`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_bdist_wheel`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

classmethod `_mkpackage_mkmanifestin`(*build*)

Parameters

`build` (`_BuildInfo`)

Return type

None

annize.features.distributables.tar module

Tarballs.

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

Bases: `FilesystemContent`

Parameters

- **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*)

Parameters

outputspec (*OutputSpec*)

Return type

bool

abstractmethod formatname()

Returns the Sphinx format name.

Return type

str

prepare_generate(*geninfo*)

Parameters

geninfo (*documentationsphinx.Document.GenerateInfo*)

Return type

None

postproc(*preresult*)

Parameters

preresult ([FilesystemContent](#))

Return type

[FilesystemContent](#)

multilanguage_frame(*document*)

Parameters

document ([documentationsphinx.Document](#))

Return type

[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](#)

Parameters

- **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)
        Parameters
            preresult (str | Path)
        Return type
            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)`

Parameters

`obj` (*Any*)

Return type

`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`

Parameters

- `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`

Parameters

- `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)
    Parameters
        geninfo (GenerateInfo)
    Return type
        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
    Parameters
        documents (Iterable[Document])
    __get_inner_generateinfo(innerdoc)
    Parameters
        • 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`

Parameters

- **geninfo** (`GenerateInfo`)
- **source** (`FilesystemContent`)
- **heading** (`TrStr`)

property **source**: `FilesystemContent`

property **heading**: `TrStr`

```
abstractmethod generate_sources(rgeninfo)
```

Parameters

rgeninfo (`ApiReferenceGenerateInfo`)

Return type

`str`

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

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

Bases: `Document`

An api reference.

Parameters

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

```
available_cultures()
```

```
__get_refgeninfo(geninfo)
```

Parameters

geninfo (`GenerateInfo`)

```
_generate_sources(geninfo)
```

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

```
class annize.features.documentation.sphinx.common.ArgparseCommandLineInterfaceDocument(*,
                                                                                       parser_factory,
                                                                                       pro-
                                                                                       gram_name,
                                                                                       head-
                                                                                       ing,
                                                                                       source,
                                                                                       cul-
                                                                                       tures,
                                                                                       **kwargs)
```

Bases: *Document*

Parameters

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

available_cultures()

_generate_sources(*geninfo*)

_abc_impl = *<_abc._abc_data object>*

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

Bases: *object*

Parameters

- **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.

Parameters

variants (*list*[*RstDocumentVariant*])

available_cultures()

__get_variant(*culture*)

Parameters

culture (*Culture*)

Return type

RstDocumentVariant | *None*

```
_generate_sources(geninfo)
```

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

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

Bases: *Document*

Parameters

- **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.

Parameters

- **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(*,
    _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_nspaces=bool,
    extract_priv_virtual=bool,
    file_patterns=str,
    inline_inherited_members=bool,
    inherit_docs=bool,
    hide_undocumented_members=bool,
    exclude_patterns=str,
    pre_declarations=None,
    )

```

Bases: [ApiReferenceLanguage](#)

Language support for api references powered by Doxygen.

Parameters

- **_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_nspaces** (*bool*)
- **extract_priv_virtual** (*bool*)
- **file_patterns** (*str*)
- **inline_inherited_members** (*bool*)
- **inherit_docs** (*bool*)
- **hide_undocumented_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*)

Parameters

dirf (*str*)

Return type

list[str]

__scanjsfile(*f*)

Parameters

f (*str*)

Return type

str

generate_sources(*rinfo*)

_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.

Parameters

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


```
__patch_property_types_in_docstrings(pdir)
```

Parameters

pdir (*str*)

Return type

None

```
generate_sources(rgeinfo)
```

```
_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.

Parameters

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

Return type

str

Submodules

annize.features.documentation.common module

Documentation.

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

Bases: object

Parameters

- **file** (*FilesystemContent*)
- **entry_path** (*str*)

property file: *FilesystemContent*

property entry_path: *str*

```
_set_entry_path(entry_path)
```

Parameters

entry_path (*str*)

Return type

None

```
class annize.features.documentation.common.DocumentGenerateAllCulturesResult(file, entry_path,
                                                                              en-
                                                                              try_paths_for_languages)
```

Bases: [DocumentGenerateResult](#)

Parameters

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

entry_path_for_language (*language*)

Parameters

language (*str*)

Return type

str

property languages: *list[str]*

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

Bases: [ABC](#)

abstractmethod available_cultures()

Return type

list[[Culture](#)]

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

Parameters

culture ([Culture](#))

Return type

[DocumentGenerateResult](#)

abstractmethod generate_all_cultures(*outputspec*)

Return type

[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.

Parameters

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`

Parameters

- **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)`

Parameters

rootpath (`str`)

Return type

`ContextManager[Path, bool | None]`

`_abc_impl = <_abc._abc_data object>`

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

Bases: [Endpoint](#)

Parameters

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

```
access_filesystem(rootpath)
```

Parameters

rootpath (*str*)

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

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

Bases: *object*

Parameters

- **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](#)

Parameters

- **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*)

Parameters

path (*str* | *None*)

Return type

str

exec(*cmdline*)

Parameters

cmdline (*str*)

Return type

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*.

Parameters

- **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.

Parameters

- **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*.

Parameters

- **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*)

Parameters

- **text** (*str*)
- **by_text** (*str*)
- **by_pattern** (*Pattern*)

Return type

bool

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

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

Parameters

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

Return type

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.

Parameters

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.

Parameters

- **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](#).

Parameters

- **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).

Parameters

- **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()

Parameters

exclude ([Exclude](#))

Return type

`annize.fs.Path.TTransferFilter`

class `annize.features.files.common.ProjectDirectory`

Bases: [FilesystemContent](#)

The Annize project root directory.

Parameters

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. `/`.

Parameters

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](#)

Parameters

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](#)

Parameters

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](#)

Parameters

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

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

__generate_packagelist(*info*)

Parameters

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)
```

Parameters

isize (*int*)

Return type

str

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

Parameters

filepath (*str*)

Return type

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](#)

Parameters

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](#)

Parameters

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](#)

Parameters

- `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](#)

Parameters

- `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](#)

Parameters

- `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*

Parameters

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

property `rst_text:` *str*

property `media_files:` *list*[*FilesystemContent*]

append_rst(*rst_text*)

Return type
None

attach_media_file(*file*)

Parameters
file (*FilesystemContent*)

Return type
None

property `head:` *TrStr*

property `sort_index:` *int*

pre_process_generate(*info*)

Parameters
info (*_PrePostProcGenerateInfo*)

Return type
None

abstractmethod `generate_content`(*info*)

Parameters
info (*_GenerateInfo*)

Return type
Content

post_process_generate(*info*)

Parameters
info (*_PrePostProcGenerateInfo*)

Return type
None

`_abc_impl = <_abc._abc_data object>`

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

Bases: object

Parameters

- **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*)

Parameters

section ([HomepageSection](#))

Return type

None

generate()

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

Parameters

- **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*)

Parameters

- **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](#)

Parameters

- **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](#)

Parameters

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

`_path()`

`annize.features.i18n` namespace

Submodules

`annize.features.i18n.common` module

Internationalization, i.e. translation and similar tasks.

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

Bases: [TranslationProvider](#)

`__translations_for_stringname`(*stringname*)

Parameters

stringname (*str*)

Return type

`dict[str, str]`

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

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

Parameters

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

Return type

`None`

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

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

Bases: [ProvidedTrStr](#)

Parameters

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

```

        • variants (str)
    _abc_impl = <_abc._abc_data object>

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

    Parameters
        • 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

    Parameters
        cultures (list[Culture])

annize.features.i18n.common.project_cultures()

    Return type
        list[Culture]

```

annize.features.i18n.gettext module

gettext-based internationalization.

```

class annize.features.i18n.gettext.UpdatePOs(*, po_directory)
    Bases: object

    Parameters
        po_directory (str | Path)

class annize.features.i18n.gettext.GenerateMOs(*, po_directory, mo_directory)
    Bases: object

    Parameters
        • po_directory (str | Path | FileSystemContent)
        • mo_directory (str | Path)

```

annize.features.injections namespace

Submodules

annize.features.injections.common module

Injects.

```

class annize.features.injections.common.Injection
    Bases: ABC

```

abstractmethod `inject(destination)`

Parameters

destination ([Path](#))

`_abc_impl = <_abc._abc_data object>`

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

Bases: [Injection](#)

Parameters

content (`str` | [Path](#) | [FilesystemContent](#))

property `content`: [FilesystemContent](#)

inject(`destination`)

Parameters

destination ([Path](#))

`_abc_impl = <_abc._abc_data object>`

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

Bases: `object`

Parameters

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

`annize.features.injections.python` module

Python injections.

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

Bases: [Injection](#)

Parameters

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

inject(`destination`)

Parameters

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
    Parameters
        tests (list[Test])
    run()
    _abc_impl = <_abc._abc_data object>

```

annize.features.testing.pylint module

pylint testing.

```

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

```

annize.features.testing.pytest module

pytest testing.

```

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

```

annize.features.testing.pyunit module

pyunit testing.

```

class annize.features.testing.pyunit.Test(*, src)
    Bases: Test
    Parameters
        src (str)

```

```
run()
```

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

`annize.features.version_control` namespace

Submodules

`annize.features.version_control.common` module

Version control.

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

Bases: `ABC`

```
abstractmethod get_current_revision()
```

Return type

`str`

```
abstractmethod get_revision_list()
```

Return type

`list[str]`

```
abstractmethod get_commit_message(revision)
```

Parameters

revision (`str`)

Return type

`str`

```
abstractmethod get_commit_time(revision)
```

Parameters

revision (`str`)

Return type

`datetime`

```
abstractmethod get_revision_number(revision)
```

Parameters

revision (`str`)

Return type

`int`

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

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

Bases: `Version`

Parameters

- **base_version** (`Version`)
- **vcs** (`VersionControlSystem`)

```
__effversion()
```

property segments_tuples

property text

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

Return type

`VersionControlSystem` | `None`

annize.features.version_control.git module

git-based version control.

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

Bases: `VersionControlSystem`

Parameters

path (`str` | `None`)

property path: `Path`

__call_git(*cmdline*)

Parameters

cmdline (`list[str]`)

Return type

`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`

Parameters

- **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.

Parameters

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

Submodules

annize.features.authors module

Project author information.

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

Bases: object

Parameters

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

property fullname: *TrStr*

property email: *str* | *None*

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

Return type

list[*Author*]

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

Parameters

authors (*list*[*Author*])

Return type

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

Parameters

- **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

        Parameters
            • red (float)
            • green (float)
            • blue (float)

class annize.features.base.DateTime(*, iso)
    Bases: datetime

        Parameters
            iso (str)

class annize.features.base.Keywords(*, from_string='', split_by=' ', keywords=())
    Bases: object

        Parameters
            • from_string (str)
            • split_by (str)
            • keywords (list[str])

    property keywords: list[str]

class annize.features.base.Keyword(text)
    Bases: Keywords

        Parameters
            text (str)

annize.features.base.project_keywords()

    Return type
        Keywords

class annize.features.base.Basket(*, items)
    Bases: Basket

        Parameters
            items (list[object])

class annize.features.base.List(*, items)
    Bases: list

        Parameters
            items (list[object])

```

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

Bases: [Basket](#)

Parameters

objects (*list[object]*)

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

Parameters

none_on_undefined (*bool*)

Return type

[Color](#)

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

Parameters

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

Return type

Any

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

Return type

str

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

Return type

[TrStr](#)

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

Return type

[TrStr](#)

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

Return type

[TrStr](#)

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

Return type

str

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

Return type

[TrStr](#)

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

Return type

[Path](#)

annize.features.licensing module

Project licensing information.

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

Bases: object

Parameters

- **name** ([TrStr](#))
- **text** ([TrStr](#) | *None*)

property name: [TrStr](#)

property text: [TrStr](#) | *None*

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

Parameters

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

Return type

Any

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

Parameters

name (*str*)

Return type

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()`

Return typelist[[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`**Parameters**

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

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

- **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*)

Parameters**itemfile** (`FilesystemContent`)**Return type**`TrStr`**annize.features.task module**

Tasks.

class `annize.features.task.Task`(*, *innertasks*, *is_advanced=False*)Bases: `object`**Parameters**

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

property is_advanced: `bool`**annize.features.version module**

Project versioning.

class `annize.features.version.Line`(*, *version*)Bases: `object`**Parameters****version** (`Version`)**property version:** `Version`**class** `annize.features.version.Version`(*, *text*, *pattern*, ***segment_values*)Bases: `Version`**Parameters**

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

`annize.features.version.default_version_pattern`()**Return type**`VersionPattern`

`annize.features.version.project_versions()`

Return type

`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.

Parameters

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

Return type

`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\(\)](#).

Parameters

- **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.

Return type

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\(\)](#).

Parameters

obj (*Any*) – The object.

Return type

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\(\)](#).

Parameters

obj (*Any*) – The object.

Return type

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.

Parameters

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

Return type

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.

Parameters

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

Return type

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.

Parameters

obj (*Any*) – The object to add.

Return type

str

is_friendly_name(*name*)

Returns whether the given name is a friendly one.

Parameters

name (*str*) – The name to check.

Return type

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).

Parameters

obj (*Any*) – The object to check.

Return type

bool

mark_object_as_toplevel(*obj*)

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

Parameters

obj (*Any*) – The object.

Return type

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\(\)](#).

Parameters

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

Return type*Any***set_object_metadata**(*obj*, *key*, *value=None*)

Store a piece of metadata for a given object.

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

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

Return type

None

__put_object(*name*, *obj*)**Parameters**

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

Return type

None

__object_raw_name(*obj*)**Parameters****obj** (*Any*)**Return type***str***__object_metadata_dict**(*obj*)**Parameters****obj** (*Any*)**Return type**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.

Return type[*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()`).

Parameters

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

Return type

Any

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

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

Parameters

obj (*Any*)

Return type

`list[str]`

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

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

Parameters

obj (*Any*)

Return type

`str`

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

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

Parameters

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

Return type

`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()`).

Parameters

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

Return type

`list[T]`

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

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

Parameters

obj (*Any*)

Return type

str

`annize.flow.run_context.is_friendly_name(name)`Same as `RunContext.is_friendly_name()` on the `_current_` run context (`current()`).**Parameters****name** (str)**Return type**

bool

`annize.flow.run_context.is_toplevel_object(obj)`Same as `RunContext.is_toplevel_object()` on the `_current_` run context (`current()`).**Parameters****obj** (Any)**Return type**

bool

`annize.flow.run_context.object_metadata(obj, key, default=None)`Same as `RunContext.object_metadata()` on the `_current_` run context (`current()`).**Parameters**

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

Return type

Any

`annize.flow.run_context.set_object_metadata(obj, key, value=None)`Same as `RunContext.set_object_metadata()` on the `_current_` run context (`current()`).**Parameters**

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

Return type

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.

Parameters

- **project** ([Project](#))
- **selected_task** (str / None)

- `user_feedback` (*TODO*)

`run_runner()`

Return type

None

`_dispatch(func)`

`__do_run(project)`

Parameters

project (*Project*)

`abstractmethod show_task_chooser()`

Return type

None

`abstractmethod show_task_execution()`

Return type

None

`abstractmethod show_task_execution_success()`

Return type

None

`get_tasks()`

Return type

list[str]

`__set_tasks(tasks)`

Parameters

tasks (*list[str]*)

Return type

None

`get_selected_task()`

Return type

str

`set_selected_task(task_name)`

Parameters

task_name (*str*)

Return type

None

`is_finished()`

Return type

bool

get_success_state()

Return type

Tuple[bool, str]

__set_success_state(*success, message*)

Parameters

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

Return type

None

wait_finished()

Return type

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).

Parameters

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).

Return type

[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()*.

Parameters

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*).

Return type

Path

path()

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

Return type

Path

children()

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

Return type

Sequence[*Path*]

ctime()

Return the ctime for this path.

Return type

datetime

mtime()

Return the mtime for this path.

Return type

datetime

write_file(data)

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

Parameters

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

Return type

None

remove(*, missing_ok=True)

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

Parameters

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

Return type

None

file_size()

Return the file size in bytes.

Return type

int

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

Return a temporary clone of the content at this path.

Parameters

- **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.

Return type

Path

TTransferFilter

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

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

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

Parameters

- **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.

Return type

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.

Parameters

- **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.

Return type

Path

class TransferFilters

Bases: *object*

class And(**inner_filters*)

Bases: *object*

Parameters

inner_filters (*Path.TTransferFilter*)

class _TransferHelper

Bases: *object*

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

Parameters

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

Return type

Path

static transfer_action_copy(*source*, *destination*)

Parameters

- **source** (*Path*)
- **destination** (*Path*)

Return type

None

static transfer_action_move(*source*, *destination*)

Parameters

- **source** (*Path*)
- **destination** (*Path*)

Return type

None

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

Parameters

- **action** (*Callable*)
- **transfer_filter** (*Callable*[[*Path*, *Path*, *Path*], *bool*] | *None*)
- **source** (*Path*)
- **destination** (*Path*)
- **merge** (*bool*)
- **overwrite** (*bool*)

- **relative_path** (*str*)

Return type

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.

Parameters

- **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*.

Return type

[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](#).

Parameters

- **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.

Return type

[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.

Parameters

- **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.

Return type

[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.

Parameters

- **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.

Parameters

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

_TStaticContent = *str* | *bytes*

_TContent

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

Parameters

- **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)*

Parameters

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

Return type

str | *None*

_abc_impl = *<_abc._abc_data object>*

class *annize.i18n.GettextTranslationProvider(mopath)*

Bases: *TranslationProvider*

translate(*stringname, *, culture*)

Parameters

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

_abc_impl = *<_abc._abc_data object>*

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

Parameters

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

Return type

None

annize.i18n.translation_providers()

Return type

list[TranslationProvider]

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

Parameters

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

Return type

str

`class annize.i18n.TrStr`

Bases: *ABC*

static `tr(stringname)`

Parameters

stringname (*str*)

Return type

TrStr

translate(*culture=None*)

Parameters

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

Return type

str

abstractmethod `get_variant(culture)`

Parameters

culture (*Culture*)

Return type

str

property `stringname: str`

format(**args, **kwargs*)

Return type

TrStr

`_abc_impl = <_abc._abc_data object>`

`class annize.i18n.ProvidedTrStr(stringname)`

Bases: *TrStr*

Parameters

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)
```

Parameters

- **txt** ([TrStr](#) | *str*)
- **culture** ([Culture](#) | *str* | *None*)

Return type

str

```
annize.i18n.to_trstr(txt)
```

Parameters

txt ([TrStr](#) | *str*)

Return type

[TrStr](#)

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

Bases: *object*

Parameters

- **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=())
```

Parameters

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

```
property english_lang_name: str
```

```
property iso_639_1_lang_code: str
```

```
property subcode: str
```

```
property fullname: str
```

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

```
__find_lcall()
```

```
__get_env()
```

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

```
class annize.i18n.UnspecifiedCulture
```

Bases: [Culture](#)

```
class annize.i18n.IdCulture
```

Bases: [Culture](#)

class `annize.i18n._CultureFence`

Bases: `Culture`

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

Parameters

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

Return type

`Culture` | `None`

`annize.i18n.current_culture()`

Return type

`Culture`

`annize.i18n.annize_user_interaction_culture()`

Return type

`Culture`

`annize.i18n.friendly_join_string_list(strlist)`

Parameters

`strlist` (`list[TrStr | str]`)

Return type

`TrStr`

exception `annize.i18n.NoCurrentCultureError`

Bases: `TypeError`

exception `annize.i18n.TranslationUnavailableError(stringname, language)`

Bases: `TypeError`

Parameters

- `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)`

Parameters

`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

Parameters

- **parameter_name** (*str*)
- **explicit_only** (*bool | None*)

parameter_name: *str*

explicit_only: *bool | None = None*

with_updates(*oconfig*)

Parameters

oconfig (*ParameterConfig*)

Return type

ParameterConfig

static create_object(*call_type, args, kwargs*)

Parameters

- **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*)

Parameters

- **call_type** (*type*)
- **arg_name** (*str*)

Return type

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)`

Parameters

- **args** (*Iterable*)
- **kwargs** (*dict*)

exception `annize.object.controller.MultipleValuesForSingleArgumentError(argname)`

Bases: `TypeError`

Parameters

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`

Parameters

- **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*)

Parameters

obj (*object*)

Return type

bool

matches_type(*type_*)

Parameters

type_ (*type*)

Return type

bool

matches_inner_type(*type_*)

Parameters

type_ (*type*)

Return type

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)

```

Parameters
s (*str*)

Return type
Any

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

Bases: [ParameterInfo](#)

Parameters

- **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](#)

Parameters

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

```
property resolved_type
```

```
matches_object(obj)
```

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

Parameters
as_optional (*bool*)

Return type
[ParameterInfo](#)

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

Parameters
for_callable (*Callable*)

Return type
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`.

Parameters

- **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.

Parameters

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

Return type

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.

Parameters

- **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!

Return type

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()*.

Parameters

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.

Parameters

- **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.

Parameters

- **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.

Parameters

- **target_node** (*Node*)
- **child_node** (*Node*)
- **child_position** (*int*)

class `PropertyChangedEvent`(*target_node*, *property_name*, *old_value*, *new_value*)

Bases: [ChangeEvent](#)

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

Parameters

- **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\(\)](#).

Parameters

- **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.

Parameters

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

__changed__helpers(*event*)

Parameters

event ([ChangeEvent](#))

__changed__child_added(*child_node*, *child_position*)

Parameters

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

__changed__child_removed(*child_node*, *child_position*)

Parameters

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

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

Parameters

- **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.

Parameters

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

Return type

None

append_child(*node*)

Append a new child node.

Parameters

node (*Node*) – The node to append.

Return type

None

remove_child(*node*)

Remove a child node.

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

Parameters

node (*Node*) – The node to remove.

Return type

None

abstractmethod classmethod _allowed_child_types()

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

Return type

Iterable[type[Node]]

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

Parameters

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

Return type[Node](#)**description**(*, *with_children=True, multiline=True*)**Parameters**

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

Return type

str

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

- **indent** (*int*)
- **with_children** (*bool*)
- **multiline** (*bool*)

Return type

str

abstractmethod **_str_helper**()**Return type**[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.

Parameters

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

__changed_handler(*event*)**Parameters****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](#).

Parameters

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

Return typelist[[ChangeEvent](#)]**__compacted_changelist()****Parameters****events** (*list*[[ChangeEvent](#)])**Return type**list[[ChangeEvent](#) | None]**undo_changes**(*since*)

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

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

None

static load(*path*)**Parameters****path** (*str* | *Path*)**Return type**[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.

Parameters

- **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)

Parameters

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

Return type

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

Parameters

feature_name (*str*)

exception `annize.project.BadStructureError(message)`

Bases: `ValueError`

Parameters

message (*str*)

exception `annize.project.MaterializerError(message)`

Bases: `TypeError`

Parameters

message (*str*)

exception `annize.project.ParserError(message)`

Bases: `ValueError`

Parsing error like bad input xml.

Parameters

message (*str*)

exception `annize.project.UnresolvableReferenceError(reference_key)`

Bases: `MaterializerError`

Parameters

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)`

Parameters

change (*TODO*)

Return type

`None`

`_abc_impl = <_abc._abc_data object>`

classmethod `parse_file(path)`

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

Parameters

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

Return type

`FileNode`

`_abc_impl = <_abc._abc_data object>`

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

Parameters

format_name (*str*)

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

Parameters

format_name (*str*)

Return type

[FileFormat](#) | *None*

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

Parameters

path (*str* | *Path*)

Return type

[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.

Parameters

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)
```

Parameters

fpath (*str* | *Path*)

```
in_node(xnode)
```

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

Parameters

xnode (*Element*)

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

Bases: *object*

Parameters

namespace (*str*)


```

ATTRIBUTE_COMMAND_START = '~'

ATTRIBUTE_COMMAND_END = '~'

classmethod escape_attribute_string(txt)

    Parameters
        txt (str)

    Return type
        str

parse_file(fpath)

    Parameters
        fpath (str | Path)

    Return type
        FileNode

classmethod _XmlParser__interpret_attribute_string(txt)

    Parameters
        txt (str)

    Return type
        Tuple[bool, str]

classmethod _XmlParser__parse_attrib(key, value)

    Parameters
        • key (str)
        • value (str)

    Return type
        Node

 XmlParser__parse_child(node, xnode)

    Parameters
        • node (Node)
        • xnode (Element)

    Return type
        Tuple[Node, Element]

 XmlParser__parse_children(node, xparent)

    Parameters
        • node (Node)
        • xparent (Element)

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

    Parameters
        node (Node)

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

```

```
class XmlDocumentLocation(element: <cyfunction Element at 0x7f19acd13780>, attr_name: str = "")
    Bases: object

    Parameters
        • element (Element)
        • attr_name (str)

    element: Element
    attr_name: str = ''

    add_change(change)

    add_element(node, xelem)

        Parameters
            • node (Node)
            • xelem (Element)

    add_element_attr(node, xelem, attrname)

        Parameters
            • node (Node)
            • xelem (Element)
            • attrname (str)

    _abc_impl = <_abc._abc_data object>

    add_element_tree(node, xtree)

        Parameters
            • node (Node)
            • xtree (ElementTree)

    save_filenode_to_file(node)

        Parameters
            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

    Parameters
        • 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)

    Parameters
        node (Node)

    Return type
        list[Any] | None

erroneous_nodes()

    Return type
        list[Node]

errors_for_node(node)

    Parameters
        node (Any)

    Return type
        list[Exception]

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

    Parameters
        • project (ProjectNode)
        • feature_loader (FeatureLoader | None)

    Return type
        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.

Parameters

nodemat ([NodeMaterialization](#)) – The node materialization for the current node.

Return type*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).

Parameters

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.

Parameters

nodemat – The node materialization for the current node.

`_abc_impl = <_abc._abc_data object>`

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

Bases: *Behavior*

Parameters

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.

Parameters

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.

Parameters

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.

Parameters

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.

Parameters

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.

Parameters

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

Parameters

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

property **node**: [Node](#)

set_materialized_result(*resultlist*)

set_problems(*problems*)

Parameters

problems (*Iterable[Exception]*)

get_materialized_children_tuples()

get_materialized_children()

Return type

Iterable[Any]

try_get_materialization_for_node(*node*)

Parameters

node (*Node*)

property has_result

property result

property problems: *list[Exception]*

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

Bases: *object*

Parameters

- **node** (*Node*)

- **behaviors** (*Iterable[annize.project.materializer.behaviors.Behavior]*)

__materialization_for_node(*node*, *store*)

Parameters

- **node** (*Node*)

- **store** (*dict*)

Return type

NodeMaterialization

__materialize(*node*, *store*)

Parameters

- **node** (*Node*)

- **store** (*dict*)

Return type

None

_materialize_hlp_childobjs(*node*, *store*)

Parameters

- **node** (*Node*)

- **store** (*dict*)

Return type

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

__get_erroneous_nodes(*materializationstore*, *old_erroneous_nodes*)

get_materialized()

Return type

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`

Parameters

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)`

Parameters

topnode (`Node`)

Return type

`Node`

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

Parameters

topnode (`Node`)

Return type

`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)`

Parameters

name (`str`)

Return type

`Any | None`

abstractmethod `get_all_available_feature_names()`

Return type

`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)
```

Parameters

package_name (*str*)

Return type

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.

Parameters

feature_loader ([FeatureLoader](#))

```
class ArgumentMatchings(all_matchings)
```

Bases: object

Parameters

all_matchings (list[[ArgumentMatching](#)])

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

Bases: object

Parameters

- **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)
```

Parameters

arg_name (*str*)

Return type*ArgumentMatching* | None**all()****Return type**list[*ArgumentMatching*]**class TypeInfo**(*feature*, *typename*, *ctype*)

Bases: object

Parameters

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

property feature: *str* | None**property typename:** *str***property type:** *type***match_arguments**(*node*)**Parameters****node** (*Node*)**Return type***ArgumentMatchings***match_node**(*node*)**Parameters****node** (*Node*)**Return type***ArgumentMatching* | None**get_all_types**()**Return type**list[*TypeInfo*]**get_types_for_argument**(*node*, *argname*)**Parameters**

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

Return typelist[*TypeInfo*]**get_project_node**(*node*)**Parameters****node** (*Node*)**Return type***ProjectNode* | None

get_node_by_name(*subtree, name*)

Parameters

- **subtree** ([ProjectNode](#))
- **name** (*str*)

Return type

[Node](#) | None

resolve_reference_node(*node, *, deep=True*)

Parameters

- **node** ([Node](#))
- **deep** (*bool*)

Return type

[ArgumentNode](#) | None

__get_node_materialtype(*node*)

Parameters

node ([Node](#))

Return type

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\(\)](#).

Parameters

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

Return type

[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.

Parameters

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

Return type

Path | None

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

Parameters

annize_config_rootpath (*str* | *Path*)

Return type

Path

annize.ui package

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

Parameters

`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)`

Parameters

- `message` (*str*)
- `answers` (*list[str]*)
- `config_key` (*str | None*)

Return type

int

abstractmethod `input_dialog(question, suggested_answer, config_key)`

Parameters

- `question` (*str*)
- `suggested_answer` (*str*)
- `config_key` (*str | None*)

Return type

str | None

abstractmethod `choice_dialog(question, choices, config_key)`

Parameters

- `question` (*str*)
- `choices` (*list[str]*)
- `config_key` (*str | None*)

Return type

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)`**Parameters**`context` (RunContext)**Return type**

list[Tuple[int, UserFeedbackController]]

`annize.user_feedback._controllers_for_context(context)`**Parameters**`context` (RunContext)**Return type**

list[UserFeedbackController]

`annize.user_feedback._add_controller_to_context(*, controller, context, priority_index=0)`**Parameters**

- `controller` (UserFeedbackController)
- `context` (RunContext)
- `priority_index` (int)

Return type

None

`annize.user_feedback.message_dialog(message, answers, *, config_key=None)`**Parameters**

- `message` (TrStr | str)
- `answers` (Iterable[TrStr | str])
- `config_key` (str | None)

Return type

int

`annize.user_feedback.input_dialog(message, *, suggested_answer, config_key=None)`**Parameters**

- `message` (TrStr | str)

- **suggested_answer** (`TrStr` / `str`)
- **config_key** (`str` / `None`)

Return type`str` | `None`

`annize.user_feedback.choice_dialog(message, choices, *, config_key=None)`

Parameters

- **message** (`TrStr` / `str`)
- **choices** (`Iterable[TrStr / str]`)
- **config_key** (`str` / `None`)

Return type`int` | `None`**Submodules****annize.user_feedback.static module**

class `annize.user_feedback.static.StaticUserFeedbackController`(*answers*)

Bases: `UserFeedbackController`

Parameters

answers (`dict[str, Any]`)

add_answer(*config_key, value*)

Parameters

- **config_key** (`str`)
- **value** (`Any`)

Return type`None`

__get_answer(*config_key*)

Parameters

config_key (`str`)

Return type`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*)

Parameters

message (*str*)

Return type

str

__dialog_frame_configkey(*config_key*)

Parameters

config_key (*str*)

Return type

str

__dialog_frame_actions(*text*)

Parameters

text (*str*)

Return type

str

__action_line(*num, text*)

Parameters

- **num** (*Any*)
- **text** (*str*)

Return type

str

__dialog(*message, config_key, actionstext*)

Parameters

- **message** (*str*)
- **config_key** (*str*)
- **actionstext** (*str*)

Return type

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)
```

Parameters

only_documentation (*bool*)

Return type

ArgumentParser

```
class annize.annize_cli.Commands(project, with_answers_from_json_file, with_answers_from_json_string,
                                with_answer, **_)
```

Bases: *object*

Parameters

- **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*

Parameters

- **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)
```

Parameters

- **destination** (*dict*)
- **with_answers_from_json_files** (*Iterable[str]*)

```
classmethod __answers_from_json_strings(destination, with_answers_from_json_strings)
```

Parameters

- **destination** (*dict*)
- **with_answers_from_json_strings** (*Iterable[str]*)

classmethod `__answers_from_single_answers(destination, with_answers)`

Parameters

- **destination** (*dict*)
- **with_answers** (*Iterable[Tuple[str, str]]*)

do(*task_name*, ***_*)

Parameters

task_name (*str*)

studio(***_*)

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