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# **Annize**

***Release 6.0.6472***

**Author name not set**

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TODO jooh



# KAPITEL 1

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## Lizenz

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





## KAPITEL 2

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Up-to-date?

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Lesen Sie diesen Text von einer anderen Quelle als der Homepage? Falls Sie unsicher sind ob Ihr Paket aktuell ist, sollten Sie die Homepage besuchen und das prüfen. Sie lesen derzeit die Dokumentation für Version 6.0.6472.



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## Abhängigkeiten

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Annize nutzt einige Teile von Drittanbietern.



Benötigt: **Python 3.13**



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



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



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



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



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

Benötigt: **GTK 4**



Empfohlen: **GNU/Linux**



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



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



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



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



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



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

## KAPITEL 4

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### Benutzerhandbuch

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TODO zz



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## Kommandozeilenschnittstellen-Referenz

---

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

### 5.1 Positional Arguments

**[command]**            Possible choices: do  
                      Das auszuführende Kommando.

### 5.2 Named Arguments

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

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

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

**--with-answer**        TODO  
                      Default: []

## 5.3 Sub-commands

### 5.3.1 do

Führe einen Task aus.

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

#### Positional Arguments

<b>task_name</b>	Taskname.
	Default: ''



## 6.1 annize namespace

### 6.1.1 Subpackages

**annize.asset** package

**Submodules**

**annize.asset.data** module

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

**Parameter**

**culture** (*str*)

**Rückgabetyp**

*Path*

**annize.asset.project\_info** module

**annize.data** package

**Submodules**

**annize.data.color** module

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

Bases: `object`

**Parameter**

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

**property** red: float

**property** green: float

**property** blue: float

**property** hue: float

**property** lightness: float

**property** saturation: float

**with\_modified**(\*, red=None, green=None, blue=None, hue=None, lightness=None, saturation=None)

**Parameter**

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

**Rückgabetyp**

[Color](#)

**property** html\_color\_spec: str

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

**Parameter**

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

**Rückgabetyp**

[Color](#)

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

**Parameter**

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

**Rückgabetyp**

[Color](#)

## **annize.data.container module**

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

Bases: list

**annize.data.unique module**

```

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

```

**annize.data.version module**

```

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

```

```

    Rückgabotyp
    object
    _abc_impl = <_abc._abc_data object>

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

    Rückgabotyp
    str
    segments_tuples_to_text(segments_tuples)

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

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

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

    Rückgabotyp
    str
    segments_tuples_to_text(segments_tuples)

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

```

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

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

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

```

**text\_to\_segments\_tuples**(*text*)

Parameter

**text** (*str*)

Rückgabotyp

list[Tuple[str, str]]

**segments\_tuples\_to\_text**(*segments\_tuples*)

Parameter

**segments\_tuples** (list[Tuple[str, str]])

Rückgabotyp

str

**class** annize.data.version.**Version**(\*, *text=None*, *pattern=None*, *\*\*segment\_values*)

Bases: object

Parameter

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

property **segments\_tuples**

property **segments\_values**: dict[str, Any]

property **text**: str

property **pattern**: *VersionPattern*

**annize.features namespace**

**Subpackages**

**annize.features.changelog namespace**

**Submodules**

**annize.features.changelog.common module**

Changelogs.

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

Bases: object

Parameter

**text** (*TrStr*)

property **text**: *TrStr*

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

Bases: object

Parameter

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

```

    property items: list[Item]

    property time: datetime | None

    property version: Version | None

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

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

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

annize.features.changelog.common.default_changelog()

    Rückgabety
        Changelog

```

## annize.features.dependencies namespace

### Submodules

#### annize.features.dependencies.common module

Project dependency handling.

```

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

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

```

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

`property kind`: `Kind`

`property label`: `TrStr`

`property comment`: `TrStr`

`property icon`: `str`

`property importance`: `int`

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

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

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

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

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

**Parameter**

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

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

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

**Rückgabety**  
`str`

## **annize.features.dependencies.python module**

Python project dependency handling.

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

**Parameter**  
`version` (`str`)

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

**Parameter**

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



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

**property name:** *str*

**property version:** *str*

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

Bases: [Basket](#)

**Parameter**

**requirements\_file** (*str* / *Path*)

**annize.features.distributables namespace**

**Subpackages**

**annize.features.distributables.store namespace**

**Submodules**

**annize.features.distributables.store.pypi module**

PyPI store for Python packages.

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

Bases: *object*

**Parameter**

**token** (*str*)

**property token:** *str*

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

Bases: *object*

**Parameter**

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

**Submodules**

**annize.features.distributables.common module**

Distributables.

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

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

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

Bases: *ABC*

Base class for a package store.

**abstractmethod** `store_package(items, *, name)`

Store package items.

**Parameter**

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

**Rückgabotyp**

None

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

Return package items.

**Parameter**

**name** (*str*) – The item name.

**Rückgabotyp**

*Sequence*[*FileSystemContent*] | None

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

Return the package history.

**Parameter**

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

**Rückgabotyp**

*Sequence*[*Sequence*[*FileSystemContent*]]

`_abc_impl = <_abc._abc_data object>`

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

Bases: object

A distributable group of package files.

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

**Parameter**

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

**property title:** *TrStr*

The title of this group of package files.

**files()**

Return the files of this group.

**Rückgabotyp**

*Sequence*[*FileSystemContent*]

**property description:** *TrStr*

Additional description text.

property package\_store: *PackageStore* | None

An optional package store.

\_\_files\_from\_package\_store()

Rückgabotyp

*Iterable*[*FilesystemContent*] | None

\_\_store\_files\_to\_package\_store()

Rückgabotyp

None

\_\_package\_store\_name()

Rückgabotyp

str

### annize.features.distributables.debian module

Debian (.deb) packages.

**class** annize.features.distributables.debian.**Category**(\**, debian\_name, freedesktop\_name*)

Bases: object

Parameter

- **debian\_name** (*str*)
- **freedesktop\_name** (*str*)

property **debian\_name**: str

property **freedesktop\_name**: str

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

Bases: object

Parameter

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

property **name**: str

property **title**: *TrStr*

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

property **command**: str

property **is\_gui**: bool

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

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

Bases: object

**Parameter**

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

**property path:** *str*

**property name:** *str*

annize.features.distributables.debian.\_debian\_category(*debian\_name*, *freedesktop\_name*)

**Parameter**

- **debian\_name** (*str*)
- **freedesktop\_name** (*str*)

**Rückgabetyp**

type[Category]

annize.features.distributables.debian.ApplicationsAccessibilityCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsAmateurradioCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsDatamanagementCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEditorsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEducationCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsEmulatorsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsFilemanagementCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsGraphicsCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsMobiledevicesCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkCommunicationCategory

alias of ACategory

annize.features.distributables.debian.ApplicationsNetworkFiletransferCategory

alias of ACategory

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

    Parameter
        name (str)

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

```

`annize.features.distributables.debian.DocumentationSection`

alias of ASection

`annize.features.distributables.debian.EditorsSection`

alias of ASection

`annize.features.distributables.debian.EducationSection`

alias of ASection

`annize.features.distributables.debian.ElectronicsSection`

alias of ASection

`annize.features.distributables.debian.EmbeddedSoftwareSection`

alias of ASection

`annize.features.distributables.debian.FontsSection`

alias of ASection

`annize.features.distributables.debian.GamesSection`

alias of ASection

`annize.features.distributables.debian.GnomeSection`

alias of ASection

`annize.features.distributables.debian.GnuRSection`

alias of ASection

`annize.features.distributables.debian.GnustepSection`

alias of ASection

`annize.features.distributables.debian.GraphicsSection`

alias of ASection

`annize.features.distributables.debian.HamRadioSection`

alias of ASection

`annize.features.distributables.debian.HaskellSection`

alias of ASection

`annize.features.distributables.debian.WebServersSection`

alias of ASection

`annize.features.distributables.debian.InterpretersSection`

alias of ASection

`annize.features.distributables.debian.IntrospectionSection`

alias of ASection

`annize.features.distributables.debian.JavaSection`

alias of ASection

`annize.features.distributables.debian.JavascriptSection`

alias of ASection

`annize.features.distributables.debian.KdeSection`

alias of ASection

`annize.features.distributables.debian.KernelsSection`

alias of ASection



`annize.features.distributables.debian.LibraryDevelopmentSection`

alias of ASection

`annize.features.distributables.debian.LibrariesSection`

alias of ASection

`annize.features.distributables.debian.LispSection`

alias of ASection

`annize.features.distributables.debian.LanguagePacksSection`

alias of ASection

`annize.features.distributables.debian.MailSection`

alias of ASection

`annize.features.distributables.debian.MathematicsSection`

alias of ASection

`annize.features.distributables.debian.MetaPackagesSection`

alias of ASection

`annize.features.distributables.debian.MiscellaneousSection`

alias of ASection

`annize.features.distributables.debian.NetworkSection`

alias of ASection

`annize.features.distributables.debian.NewsgroupsSection`

alias of ASection

`annize.features.distributables.debian.OcamlSection`

alias of ASection

`annize.features.distributables.debian.OldLibrariesSection`

alias of ASection

`annize.features.distributables.debian.OtherOSsAndFSsSection`

alias of ASection

`annize.features.distributables.debian.PperlSection`

alias of ASection

`annize.features.distributables.debian.PhpSection`

alias of ASection

`annize.features.distributables.debian.PythonSection`

alias of ASection

`annize.features.distributables.debian.RubySection`

alias of ASection

`annize.features.distributables.debian.RustSection`

alias of ASection

`annize.features.distributables.debian.ScienceSection`

alias of ASection

`annize.features.distributables.debian.ShellsSection`

alias of ASection

`annize.features.distributables.debian.SoundSection`

alias of `ASection`

`annize.features.distributables.debian.TasksSection`

alias of `ASection`

`annize.features.distributables.debian.TexSection`

alias of `ASection`

`annize.features.distributables.debian.TextProcessingSection`

alias of `ASection`

`annize.features.distributables.debian.UtilitiesSection`

alias of `ASection`

`annize.features.distributables.debian.VersionControlSystemsSection`

alias of `ASection`

`annize.features.distributables.debian.VideoSection`

alias of `ASection`

`annize.features.distributables.debian.VirtualPackagesSection`

alias of `ASection`

`annize.features.distributables.debian.WebSoftwareSection`

alias of `ASection`

`annize.features.distributables.debian.XWindowSystemSoftwareSection`

alias of `ASection`

`annize.features.distributables.debian.XfceSection`

alias of `ASection`

`annize.features.distributables.debian.ZopePloneFrameworkSection`

alias of `ASection`

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

Bases: `object`

Description for Debian services to be included in a package.

**Parameter**

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

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

Bases: `FilesystemContent`

**Parameter**

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

- **executable\_links** (*list*[[ExecutableLink](#)])
- **packagename** (*str* | *None*)
- **description** ([TrStr](#) | *None*)
- **summary** ([TrStr](#) | *None*)
- **section** ([Section](#) | *None*)
- **homepage\_url** (*str* | *None*)
- **version** ([Version](#) | *None*)
- **documentation** ([FilesystemContent](#) | *None*)
- **authors** (*list*[[Author](#)])
- **prerm** (*str*)
- **postinst** (*str*)
- **architecture** (*str*)

**\_path()**

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

Bases: `object`

#### Parameter

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

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

`source: FilesystemContent`

`executable_links: list[ExecutableLink]`

`menuentries: list[MenuEntry]`

`services: list[ServiceDescription]`

`description: str`

`name: str`

`version: Version`

`homepage: str`

`author: Author`

`licensename: str`

`section: Section | None`

`summary: str`

`documentation_source: FilesystemContent | None`

`prerm: str`

`postinst: str`

`architecture: str`

`authorstring: str = None`

`pkgrootpath: str = None`

`pkgpath_debian: str = None`

`pkgpath_documentation: str = None`

```

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

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

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

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

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

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

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

```

**classmethod** `_mkpackage_mkservices(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_determinesize(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mkprepostcmds(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mkdebiancontrolfile(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mkdebianconffilesfile(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_correctbuildsourcepermissions(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_dpkg(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

## **annize.features.distributables.flatpak module**

Flatpaks.

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

Bases: object

**Parameter**

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

property **name**: *str*

property **title**: *TrStr*

property **category**: *Tuple*

property **command**: *str*

property **is\_gui**: *bool*

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

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

Bases: object

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

Bases: object

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

Bases: object

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

Bases: object

**Parameter**

- **public\_url** (*str*)
- **friendly\_name\_suggestion** (*str* | *None*)

**upload**(*source*)

**Parameter**

**source** (*FilesystemContent*)

property **public\_url**: *str*

property **friendly\_name\_suggestion**: *str*

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

Bases: *Repository*

**Parameter**

- **public\_url** (*str*)
- **friendly\_name\_suggestion** (*str* | *None*)
- **upload\_path** (*str* | *None*)
- **upload\_fsentry** (*FilesystemContent* | *None*)

**upload**(*source*)

**Parameter**

**source** (*FilesystemContent*)

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

Bases: *Group*

**Parameter**

- **title** (*str*) – The title of this group of package files.
- **files** – The package files.
- **description** (*TrStr* | *None*) – Additional description text.
- **package\_store** – An optional package store.
- **source** (*FilesystemContent*)
- **repository** (*Repository*)
- **package\_name** (*str*)
- **project\_short\_hint\_name** (*str* | *None*)
- **package\_short\_name** (*str* | *None*)

**files**()

Return the files of this group.

**property description**

Additional description text.

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

Bases: *FilesystemContent*

**Parameter**

- **generate\_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **refname** (*str* | *None*)
- **package\_name** (*str*)
- **title** (*str* | *None*)
- **branch** (*str*)
- **runtime\_repository\_url** (*str* | *None*)
- **gpgkey** (*bytes* | *None*)



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

**\_path()**

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

Bases: [FilesystemContent](#)

#### Parameter

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

**\_path()**

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

Bases: [FilesystemContent](#)

#### Parameter

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

**\_path()**

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

Bases: `object`

#### Parameter

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

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

source: `FilesystemContent`

`name: str`

`sdk: str`

`platform: str`

`kitversion: str | None`

`command: str | None`

`sockets: Iterable[str]`

`filesystems: Iterable[str]`

`shares: Iterable[str]`

`menu_entries: Iterable[MenuEntry]`

`environment: dict[str, str]`

`pkgrootpath: str = None`

`pkgpath_share: str = None`

`pkgpath_share_applications: str = None`

`pkgpath_share_icons: str = None`

`result: FilesystemContent = None`

`classmethod _mkpackage_prepareinfos(build, tmpdir)`

Parameter

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

Rückgabotyp

`None`

`classmethod _mkpackage_flatpak_build_init(build)`

Parameter

`build` (`_BuildInfo`)

Rückgabotyp

`None`

**classmethod** `_mkpackage_applysource(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabety**

None

**classmethod** `_mkpackage_flatpak_build_finish(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabety**

None

**classmethod** `_mkpackage_share(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabety**

None

**classmethod** `_mkpackage_flatpak_build_export(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabety**

None

**classmethod** `_mkpackage(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabety**

`Path`

## **annize.features.distributables.python\_wheel module**

Python Wheels.

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

Bases: `object`

**Parameter**

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

**property** `linkname`: `str`

**property** `modulename`: `str`

**property** `methodname`: `str`

**property** `is_gui`: `bool`

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

Bases: `FilesystemContent`

#### Parameter

- **generate\_func** – The content generator function. It has no parameters and returns an absolute path to the content (usually inside some temporary directory).
- **source** (`FilesystemContent`)
- **executable\_links** (`Iterable[ExecutableLink]`)
- **packagename** (`str` | `None`)
- **description** (`TrStr` | `None`)
- **homepage\_url** (`str` | `None`)
- **long\_description** (`TrStr` | `None`)
- **version** (`Version` | `None`)
- **keywords** (`Keywords` | `None`)
- **dependencies** (`Iterable[PythonPackage]`)
- **license** (`License` | `None`)
- **authors** (`Iterable[Author]`)

**\_path()**

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

Bases: `object`

#### Parameter

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

```

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

```

**classmethod** `_mkpackage_setuppyconf_prepare(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_setuppyconf_install_requires(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_setuppyconf_classifiers(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mkexeclinks(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mksetuppyconf(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_bdist_wheel(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

**classmethod** `_mkpackage_mkmanifestin(build)`

**Parameter**

`build` (`_BuildInfo`)

**Rückgabotyp**

None

## **annize.features.distributables.tar module**

Tarballs.

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

Bases: *FilesystemContent*

#### Parameter

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

**\_path()**

**annize.features.documentation namespace**

**Subpackages**

**annize.features.documentation.sphinx namespace**

**Subpackages**

**annize.features.documentation.sphinx.output namespace**

**Submodules**

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

Sphinx-based documentation output.

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

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

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

Bases: ABC

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

**property outputspec:** *OutputSpec*

**abstractmethod classmethod is\_compatible\_for**(*outputspec*)

#### Parameter

**outputspec** (*OutputSpec*)

#### Rückgabetyt

bool

**abstractmethod formatname**()

Returns the Sphinx format name.

#### Rückgabetyt

str

**prepare\_generate**(*geninfo*)

Parameter

**geninfo** (*documentationsphinx.Document.GenerateInfo*)

Rückgabotyp

None

**postproc**(*preresult*)

Parameter

**preresult** (*FilesystemContent*)

Rückgabotyp

*FilesystemContent*

**multilanguage\_frame**(*document*)

Parameter

**document** (*documentationsphinx.Document*)

Rückgabotyp

*DocumentGenerateAllCulturesResult*

**\_abc\_impl** = <\_abc.\_abc\_data object>

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

Sphinx-based HTML documentation output.

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

Bases: *HtmlOutputSpec*

Parameter

- **theme** (*str* / *None*) – The sphinx html theme name.
- **short\_title** (*TrStr* / *None*) – The short html title.
- **short\_desc** (*TrStr* / *None*) – The short description. Ignored by most themes.
- **masterlink** (*str* / *None*) – Url that overrides the target of the main heading (which is also a link).
- **is\_homepage** (*bool*)
- **logo\_image** (*str* / *Path* / *FilesystemContent* / *None*)
- **background\_image** (*str* / *Path* / *FilesystemContent* / *None*)

property **short\_title**: *TrStr* | *None*

property **short\_desc**: *TrStr* | *None*

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



```

property masterlink: str | None

property logo_image: FilesystemContent | None

property background_image: FilesystemContent | None

_abc_impl = <_abc._abc_data object>

```

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

Bases: *OutputGenerator*

HTML documentation output.

```
classmethod is_compatible_for(outputspec)
```

```
formatname()
```

Returns the Sphinx format name.

```
prepare_generate(geninfo)
```

```
multilanguage_frame(document)
```

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

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

Sphinx-based PDF documentation output.

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

Bases: *OutputGenerator*

PDF documentation output.

```
classmethod is_compatible_for(outputspec)
```

```
formatname()
```

Returns the Sphinx format name.

```
postproc(preresult)
```

**Parameter**

**preresult** (*str* | *Path*)

**Rückgabotyp**

*Path*

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

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

Sphinx-based plaintext documentation output.

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

Bases: *OutputGenerator*

Plaintext documentation output.

```
classmethod is_compatible_for(outputspec)
```

**formatname()**

Returns the Sphinx format name.

**\_abc\_impl** = <\_abc.\_abc\_data object>

## Submodules

### annize.features.documentation.sphinx.\_utils module

Internal Sphinx utilities.

**annize.features.documentation.sphinx.\_utils.serialize\_for\_confpy(obj)**

**Parameter**

**obj** (*Any*)

**Rückgabety**

str

### annize.features.documentation.sphinx.common module

Sphinx-based documentation.

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

Bases: *Document*, ABC

**Parameter**

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

**class** **GenerateInfo**(*main\_document*: 'Document', *intstruct*: *annize.fs.Path*, *outdir*: *annize.fs.FilesystemContent*, *confdir*: *annize.fs.FilesystemContent*, *culture*: *annize.i18n.Culture*, *configvalues*: *dict*, *configlines*: *list*, *entry\_path*: *str* = '')

Bases: object

**Parameter**

- **main\_document** (*Document*)
- **intstruct** (*Path*)
- **outdir** (*FilesystemContent*)
- **confdir** (*FilesystemContent*)
- **culture** (*Culture*)
- **configvalues** (*dict*)
- **configlines** (*list*)
- **entry\_path** (*str*)

**main\_document**: *Document*

```

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

```

```
__get_inner_generateinfo(innerdoc)
```

Parameter

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

```
_generate_sources(geninfo)
```

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

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

Bases: [ABC](#)

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

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

Bases: [GenerateInfo](#)

Parameter

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

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

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

```
abstractmethod generate_sources(rgeninfo)
```

Parameter

**rgeninfo** ([ApiReferenceGenerateInfo](#))

Rückgabetyp

[str](#)

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

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

Bases: [Document](#)

An api reference.

Parameter

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

```
available_cultures()
```

```
__get_refgeninfo(geninfo)
```

Parameter

**geninfo** ([GenerateInfo](#))

```
_generate_sources(geninfo)
```

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

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

Bases: *Document*

#### Parameter

- **parser\_factory** (*str*)
- **program\_name** (*str*)
- **heading** (*str* | *None*)
- **source** (*str* | *Path* | *FilesystemContent*)
- **cultures** (*list*[*Culture*])

```
available_cultures()
```

```
_generate_sources(geninfo)
```

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

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

Bases: *object*

#### Parameter

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

```
property culture: Culture
```

```
property source: FilesystemContent
```

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

Bases: *Document*

A reStructuredText formatted file or a directory of such files.

#### Parameter

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

```
available_cultures()
```

```
__get_variant(culture)
```

Parameter

**culture** ([Culture](#))

Rückgabetypp

[RstDocumentVariant](#) | None

```
_generate_sources(geninfo)
```

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

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

Bases: [Document](#)

Parameter

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

```
available_cultures()
```

```
_generate_sources(geninfo)
```

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

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

Bases: [CompositeDocument](#)

A reStructuredText formatted file or a directory of such files.

Parameter

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

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

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

```
available_cultures()
```

```
property title
```

## **annize.features.documentation.sphinx.cpp module**

Sphinx-based C/C++ documentation.

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

Bases: [DoxygenSupportedApiReferenceLanguage](#)

C++ language support for api references.

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

**annize.features.documentation.sphinx.doxygen\_compat module**

Sphinx-based documentation with Doxygen support.

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

Bases: [\*ApiReferenceLanguage\*](#)

Language support for api references powered by Doxygen.

**Parameter**

- **\_doxygenopts** (*dict[str, str] | None*)
- **extract\_all** (*bool*)
- **extract\_private** (*bool*)
- **extract\_package** (*bool*)
- **extract\_static** (*bool*)

- **extract\_local\_classes** (*bool*)
- **extract\_local\_methods** (*bool*)
- **extract\_anon\_nsplaces** (*bool*)
- **extract\_priv\_virtual** (*bool*)
- **file\_patterns** (*str*)
- **inline\_inherited\_memb** (*bool*)
- **inherit\_docs** (*bool*)
- **hide\_undoc\_members** (*bool*)
- **hide\_undoc\_classes** (*bool*)
- **exclude\_patterns** (*str*)
- **predefined** (*list[str] | None*)

**\_\_info**(*outpath*)

**\_\_prepare\_generate**(*rootpath, outpath*)

**generate\_sources**(*srcpath, intstructpath, confdirpath, heading*)

**\_abc\_impl** = <\_abc.\_abc\_data object>

### annize.features.documentation.sphinx.javascript module

Sphinx-based Javascript documentation.

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

Bases: [ApiReferenceLanguage](#)

JavaScript language support for api references.

**\_\_jsfiles**(*dirf*)

**Parameter**

**dirf** (*str*)

**Rückgabotyp**

*list[str]*

**\_\_scanjsfile**(*f*)

**Parameter**

**f** (*str*)

**Rückgabotyp**

*str*

**generate\_sources**(*rgeninfo*)

**\_abc\_impl** = <\_abc.\_abc\_data object>



## annize.features.documentation.sphinx.python module

Sphinx-based Python documentation.

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

Bases: [ApiReferenceLanguage](#)

Python 3 language support for api references.

### Parameter

- **show\_undoc\_members** (*bool*)
- **show\_protected\_members** (*bool*)

**\_\_patch\_property\_types\_in\_docstrings** (*pdir*)

### Parameter

**pdir** (*str*)

### Rückgabetyp

None

**generate\_sources** (*rgeninfo*)

**\_abc\_impl** = <\_abc.\_abc\_data object>

## annize.features.documentation.sphinx.rst module

Sphinx-based reStructuredText documentation.

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

Bases: object

Generator for some documentation source parts.

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

Generates documentation source for a section heading.

### Parameter

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

### Rückgabetyp

str

## Submodules

### annize.features.documentation.common module

Documentation.

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

Bases: object

Parameter

- **file** ([FilesystemContent](#))
- **entry\_path** (*str*)

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

property **entry\_path**: *str*

**\_set\_entry\_path**(*entry\_path*)

Parameter

**entry\_path** (*str*)

Rückgabotyp

None

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

Bases: [DocumentGenerateResult](#)

Parameter

- **file** ([FilesystemContent](#))
- **entry\_path** (*str*)
- **entry\_paths\_for\_languages** (*dict[str, str]*)

**entry\_path\_for\_language**(*language*)

Parameter

**language** (*str*)

Rückgabotyp

*str*

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

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

Bases: ABC

**abstractmethod available\_cultures**()

Rückgabotyp

*list[Culture]*

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

Parameter

**culture** ([Culture](#))

Rückgabotyp

[DocumentGenerateResult](#)

**abstractmethod generate\_all\_cultures**(*outputspec*)

Rückgabotyp

[DocumentGenerateAllCulturesResult](#)

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

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

Bases: `ABC`

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

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

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

Bases: `OutputSpec`

HTML documentation output.

**Parameter**

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

**property** `is_homepage`

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

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

Bases: `OutputSpec`

PDF documentation output.

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

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

Bases: `OutputSpec`

Plaintext documentation output.

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

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

Bases: `FilesystemContent`

**Parameter**

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

```
_path()
```

**annize.features.files namespace**

**Subpackages**

**annize.features.files.transfer namespace**

**Submodules**

### annize.features.files.transfer.common module

File transfers.

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

Bases: ABC

```
    abstractmethod access_filesystem(rootpath)
```

Parameter

    rootpath (str)

Rückgabetyp

    ContextManager[Path, bool | None]

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

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

Bases: [Endpoint](#)

Parameter

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

```
    access_filesystem(rootpath)
```

Parameter

    rootpath (str)

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

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

Bases: object

Parameter

- source ([FilesystemContent](#))
- destination\_endpoint ([Endpoint](#))
- destination\_path (str | Path | None)

### annize.features.files.transfer.ssh module

ssh-based file transfers.

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

Bases: [Endpoint](#)

Parameter

- host (str)
- port (int)
- username (str)
- identity\_file (str | None)
- has\_shell\_access (bool)

```

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

    Parameter
        path (str | None)

    Rückgabotyp
        str

exec(cmdline)

    Parameter
        cmdline (str)

    Rückgabotyp
        TODO

_abc_impl = <_abc._abc_data object>

```

## Submodules

### annize.features.files.common module

Files and directories.

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

Bases: [FilesystemContent](#)

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

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

#### Parameter

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

```
property root: FilesystemContent
```

The root directory.

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

```
property relative_path: Path
```

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

```
_path()
```

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

Bases: [FsEntry](#)

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

**Parameter**

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

**class** annize.features.files.common.**Exclude**(\*, *by\_path\_pattern*, *by\_path*, *by\_name\_pattern*, *by\_name*)

Bases: [object](#)

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

**Parameter**

- **by\_path\_pattern** (*str* / *None*) – Exclude by this regexp pattern on the full path.
- **by\_path** (*str* / *None*) – Exclude this path.
- **by\_name\_pattern** (*str* / *None*) – Exclude by this regexp pattern on the file name.
- **by\_name** (*str* / *None*) – Exclude this file name.

**\_\_does\_exclude**(*by\_text*, *by\_pattern*)

**Parameter**

- **text** (*str*)
- **by\_text** (*str*)
- **by\_pattern** ([Pattern](#))

**Rückgabetyp**

[bool](#)

**does\_exclude**(*relative\_path*, *source*, *destination*)

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

**Parameter**

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

**Rückgabetyp**

[bool](#)

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

Bases: [Exclude](#)

A negative exclusion definition.

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

**Parameter**

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

**does\_exclude**(*relative\_path*, *source*, *destination*)

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

**Parameter**

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

**class** annize.features.files.common.**DirectoryPart**(\*, *excludes*, *root*, *source\_path*=None, *destination\_path*=None, *path*=None, *destination\_is\_parent*=False)

Bases: object

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

**Parameter**

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

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

Exclusion definitions.

**property root:** [FilesystemContent](#) | None

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

[source\\_path](#) is considered to be relative to this one.

**property source\_path:** [Path](#)

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

**property destination\_path:** [Path](#)

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

See also [destination\\_is\\_parent](#).

**property destination\_is\_parent:** bool

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

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

Bases: [FsEntry](#)

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

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

**Parameter**

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

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

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

**\_path()**

**\_\_transfer\_filter\_for\_exclude()**

**Parameter**

**exclude** (*Exclude*)

**Rückgabotyp**

annize.fs.Path.TTransferFilter

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

Bases: *FilesystemContent*

The Annize project root directory.

**Parameter**

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

**\_path()**

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

Bases: *FilesystemContent*

The machine root directory, i.e. /.

**Parameter**

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

**\_path()**

**annize.features.homepage namespace**

**Subpackages**

**annize.features.homepage.sections namespace**



## Submodules

### annize.features.homepage.sections.about module

Homepage about section.

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

Bases: [HomepageSection](#)

**generate\_content**(*info*)

**\_abc\_impl** = **<\_abc.\_abc\_data object>**

### annize.features.homepage.sections.changelog module

Homepage changelog section.

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

Bases: [HomepageSection](#)

**Parameter**

**changelog** ([Changelog](#) / *None*)

**generate\_content**(*info*)

**\_abc\_impl** = **<\_abc.\_abc\_data object>**

### annize.features.homepage.sections.documentation module

Homepage documentation section.

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

Bases: [HomepageSection](#)

**Parameter**

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

**pre\_process\_generate**(*info*)

**generate\_content**(*info*)

**\_abc\_impl** = **<\_abc.\_abc\_data object>**

### annize.features.homepage.sections.download module

Homepage download section.

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

Bases: [HomepageSection](#)

**Parameter**

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

**\_\_generate\_packagelist**(*info*)

**Parameter**  
**info** ([\\_GenerateInfo](#))

**pre\_process\_generate**(*info*)

**post\_process\_generate**(*info*)

**generate\_content**(*info*)

**\_abc\_impl** = <**\_abc.\_abc\_data** object>

**annize.features.homepage.sections.download.friendly\_filesize**(*isize*)

**Parameter**  
**isize** (*int*)

**Rückgabety**  
str

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

**Parameter**  
**filepath** (*str*)

**Rückgabety**  
str

### **annize.features.homepage.sections.gallery module**

Homepage media gallery section.

**class** **annize.features.homepage.sections.gallery.Section**(\*, *head*=<[annize.i18n.ProvidedTrStr](#) object>, *sort\_index*=50000, *media\_galleries*)

Bases: [HomepageSection](#)

**Parameter**  
**media\_galleries** (*list*[[Gallery](#)])

**pre\_process\_generate**(*info*)

**generate\_content**(*info*)

**\_abc\_impl** = <**\_abc.\_abc\_data** object>

### **annize.features.homepage.sections.imprint module**

Homepage imprint section.

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

Bases: [HomepageSection](#)

```

    Parameter
        imprint (TrStr)
generate_content(info)
_abc_impl = <_abc._abc_data object>

```

## annize.features.homepage.sections.license module

Homepage license section.

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

```

Bases: HomepageSection
generate_content(info)
_abc_impl = <_abc._abc_data object>

```

## Submodules

### annize.features.homepage.common module

Homepage.

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

Bases: ABC

#### Parameter

- head (TrStr)
- sort\_index (int)

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

Bases: object

#### Parameter

- culture (Culture)
- custom\_arg (object | None)
- document\_root\_url (str)
- document\_variant\_directory (Path)
- document\_variant\_url (str)

culture: Culture

custom\_arg: object | None

document\_root\_url: str

document\_variant\_directory: Path

document\_variant\_url: str

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

Bases: object

**Parameter**

- **document\_root\_directory** ([Path](#))
- **document\_root\_url** ([str](#))
- **custom\_arg** ([object](#) | [None](#))

**document\_root\_directory:** [Path](#)

**document\_root\_url:** [str](#)

**custom\_arg:** [object](#) | [None](#)

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

Bases: object

**Parameter**

- **rst\_text** ([str](#))
- **media\_files** ([list](#)[[FilesystemContent](#)])

**property rst\_text:** [str](#)

**property media\_files:** [list](#)[[FilesystemContent](#)]

**append\_rst**([rst\\_text](#))

**Rückgabotyp**

[None](#)

**attach\_media\_file**([file](#))

**Parameter**

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

**Rückgabotyp**

[None](#)

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

**property sort\_index:** [int](#)

**pre\_process\_generate**([info](#))

**Parameter**

**info** ([\\_PrePostProcGenerateInfo](#))

**Rückgabotyp**

[None](#)

**abstractmethod generate\_content**([info](#))

**Parameter**

**info** ([\\_GenerateInfo](#))

**Rückgabotyp**

[Content](#)

`post_process_generate(info)`

Parameter

`info` (`_PrePostProcGenerateInfo`)

Rückgabetyp

None

`_abc_impl = <_abc._abc_data object>`

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

Bases: `object`

Parameter

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

property `cultures`: `list[Culture]`

property `sections`: `list[HomepageSection]`

property `title`: `TrStr`

property `short_desc`: `TrStr`

`_append_section(section)`

Parameter

`section` (`HomepageSection`)

Rückgabetyp

None

`generate()`

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

Parameter

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

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

Parameter

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

- **document\_variant\_directory** ([Path](#))

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

Bases: [Homepage](#)

#### Parameter

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

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

Bases: [FilesystemContent](#)

#### Parameter

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

**\_path()**

## annize.features.i18n namespace

### Submodules

#### annize.features.i18n.common module

Internationalization, i.e. translation and similar tasks.

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

Bases: [TranslationProvider](#)

```
__translations_for_stringname(stringname)
```

#### Parameter

**stringname** (*str*)

#### Rückgabetyp

*dict*[*str*, *str*]

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

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

#### Parameter

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

#### Rückgabetyp

*None*

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

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

Bases: [ProvidedTrStr](#)

**Parameter**

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

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

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

Bases: [Culture](#)

**Parameter**

- **iso\_639\_1\_lang\_code** (*str*)
- **subcode** (*str* | *None*)
- **fallback\_cultures** (*list*[[Culture](#)])

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

Bases: [UnspecifiedCulture](#)

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

Bases: [IdCulture](#)

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

Bases: *list*

**Parameter**

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

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

**Rückgabety**

*list*[[Culture](#)]

## annize.features.i18n.gettext module

gettext-based internationalization.

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

Bases: *object*

**Parameter**

**po\_directory** (*str* | *Path*)

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

Bases: *object*

**Parameter**

- **po\_directory** (*str* | *Path* | [FileSystemContent](#))
- **mo\_directory** (*str* | *Path*)

## annize.features.injections namespace

### Submodules

#### annize.features.injections.common module

Injectons.

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

Bases: ABC

```
    abstractmethod inject(destination)
```

Parameter

destination (Path)

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

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

Bases: *Injection*

Parameter

content (str | Path | FilesystemContent)

```
    property content: FilesystemContent
```

```
    inject(destination)
```

Parameter

destination (Path)

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

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

Bases: object

Parameter

- injection (*Injection*)
- destination (Path)

#### annize.features.injections.python module

Python injections.

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

Bases: *Injection*

Parameter

- filename (str)
- version (*Version* | None)

```
    inject(destination)
```

Parameter

destination (Path)

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



## annize.features.testing namespace

### Submodules

#### annize.features.testing.common module

Testing.

```

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

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

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

```

#### annize.features.testing.pylint module

pylint testing.

```

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

```

#### annize.features.testing.pytest module

pytest testing.

```

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

```

## annize.features.testing.pyunit module

pyunit testing.

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

Bases: *Test*

**Parameter**

**src** (*str*)

**run**()

**\_abc\_impl** = <\_abc.\_abc\_data object>

## annize.features.version\_control namespace

### Submodules

## annize.features.version\_control.common module

Version control.

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

Bases: *ABC*

**abstractmethod** **get\_current\_revision**()

**Rückgabotyp**

*str*

**abstractmethod** **get\_revision\_list**()

**Rückgabotyp**

*list[str]*

**abstractmethod** **get\_commit\_message**(*revision*)

**Parameter**

**revision** (*str*)

**Rückgabotyp**

*str*

**abstractmethod** **get\_commit\_time**(*revision*)

**Parameter**

**revision** (*str*)

**Rückgabotyp**

*datetime*

**abstractmethod** **get\_revision\_number**(*revision*)

**Parameter**

**revision** (*str*)

**Rückgabotyp**

*int*

**\_abc\_impl** = <\_abc.\_abc\_data object>

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

Bases: [Version](#)

**Parameter**

- **base\_version** ([Version](#))
- **vcs** ([VersionControlSystem](#))

**\_\_effversion()**

**property segments\_tuples**

**property text**

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

**Rückgabotyp**

[VersionControlSystem](#) | None

## annize.features.version\_control.git module

git-based version control.

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

Bases: [VersionControlSystem](#)

**Parameter**

**path** (*str* | None)

**property path:** [Path](#)

**\_\_call\_git(cmdline)**

**Parameter**

**cmdline** (*list[str]*)

**Rückgabotyp**

*str*

**get\_current\_revision()**

**get\_revision\_list()**

**get\_commit\_message(revision)**

**get\_commit\_time(revision)**

**get\_revision\_number(revision)**

**\_abc\_impl** = <\_abc.\_abc\_data object>

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

Bases: [Exclude](#)

**Parameter**

- **by\_path\_pattern** – Exclude by this regexp pattern on the full path.
- **by\_path** – Exclude this path.
- **by\_name\_pattern** – Exclude by this regexp pattern on the file name.
- **by\_name** – Exclude this file name.

**does\_exclude**(*relative\_path*, *source*, *destination*)

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

**Parameter**

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

## Submodules

### annize.features.authors module

Project author information.

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

Bases: object

**Parameter**

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

**property** **fullname**: *TrStr*

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

annize.features.authors.**project\_authors**()

**Rückgabety**

*list*[*Author*]

annize.features.authors.**join\_authors**(*authors*)

**Parameter**

**authors** (*list*[*Author*])

**Rückgabety**

*Author*

### annize.features.base module

Project base information.

**class** annize.features.base.**Data**(\*, *project\_name*=*None*, *pretty\_project\_name*=*None*, *summary*=*None*, *long\_description*=*None*, *homepage\_url*=*None*, *imprint*=*None*, *project\_directory*=*None*)

Bases: object

**Parameter**

- **project\_name** (*str*)
- **pretty\_project\_name** (*TrStr* | *None*)
- **summary** (*TrStr* | *None*)
- **long\_description** (*TrStr* | *None*)
- **homepage\_url** (*str* | *None*)

```

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

```

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

Bases: `list`

**Parameter**

**items** (*list[object]*)

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

Bases: `Basket`

**Parameter**

**objects** (*list[object]*)

annize.features.base.**brand\_color**(\*, *none\_on\_undefined=False*)

**Parameter**

**none\_on\_undefined** (*bool*)

**Rückgabotyp**

`Color`

annize.features.base.**\_get\_data**(*key, default*)

**Parameter**

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

**Rückgabotyp**

*Any*

annize.features.base.**project\_name**()

**Rückgabotyp**

`str`

annize.features.base.**pretty\_project\_name**()

**Rückgabotyp**

`TrStr`

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

**Rückgabotyp**

`TrStr`

annize.features.base.**long\_description**()

**Rückgabotyp**

`TrStr`

annize.features.base.**homepage\_url**()

**Rückgabotyp**

`str`

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

**Rückgabotyp**

`TrStr`

annize.features.base.**project\_directory**()

**Rückgabotyp**

`Path`

**annize.features.licensing module**

Project licensing information.

**class** annize.features.licensing.**License**(\*, *name*, *text*, *\*\*additional\_info*)

Bases: object

**Parameter**

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

**property name:** *TrStr*

**property text:** *TrStr* | *None*

**additional\_info**(*key*, \*, *default=None*)

**Parameter**

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

**Rückgabety**

*Any*

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

**Parameter**

**name** (*str*)

**Rückgabety**

*Type*[*License*]

annize.features.licensing.**AFLv3**

alias of *ALicense*

annize.features.licensing.**AGPLv3**

alias of *ALicense*

annize.features.licensing.**Apache2**

alias of *ALicense*

annize.features.licensing.**Artistic1**

alias of *ALicense*

annize.features.licensing.**BSD2clause**

alias of *ALicense*

annize.features.licensing.**BSD3clause**

alias of *ALicense*

annize.features.licensing.**Cc0v1**

alias of *ALicense*

annize.features.licensing.**CcBy3**

alias of *ALicense*

annize.features.licensing.**CcByNc3**

alias of *ALicense*

```
annize.features.licensing.CcByNcNd3
    alias of ALicense
annize.features.licensing.CcByNcSa3
    alias of ALicense
annize.features.licensing.CcByNd3
    alias of ALicense
annize.features.licensing.CcBySa3
    alias of ALicense
annize.features.licensing.GPLv3
    alias of ALicense
annize.features.licensing.LGPLv3
    alias of ALicense
annize.features.licensing.MIT
    alias of ALicense
annize.features.licensing.MPLv11
    alias of ALicense
annize.features.licensing.MPLv2
    alias of ALicense
annize.features.licensing.PublicDomain
    alias of ALicense
annize.features.licensing.project_licenses()

    Rückgabetyt
    list[License]
```

### **annize.features.media\_galleries module**

Media galleries.

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

    IMAGE = 'image'
    VIDEO = 'video'

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

    Parameter
        • source (FileSystemContent)
        • title (TrStr | None)

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

    Parameter
        • file (FileSystemContent)
```



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

property file: *FilesystemContent*

property description: *TrStr* | *None*

property mediatype: *MediaType*

property items: list[*Item*]

property title: *TrStr*

**\_description\_for\_mediafile**(*itemfile*)

**Parameter**  
**itemfile** (*FilesystemContent*)

**Rückgabotyp**  
*TrStr*

### annize.features.task module

Tasks.

**class** annize.features.task.**Task**(\*, *innertasks*, *is\_advanced=False*)

Bases: object

**Parameter**

- **innertasks** (*list[object]*)
- **is\_advanced** (*bool*)

property **is\_advanced**: *bool*

### annize.features.version module

Project versioning.

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

Bases: object

**Parameter**

**version** (*Version*)

property **version**: *Version*

**class** annize.features.version.**Version**(\*, *text*, *pattern*, *\*\*segment\_values*)

Bases: *Version*

**Parameter**

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

annize.features.version.**default\_version\_pattern**()

**Rückgabotyp**

*VersionPattern*

`annize.features.version.project_versions()`

**Rückgabetyp**

`list[Version]`

**class** `annize.features.version.CommonVersionPattern`

Bases: `VersionPattern`

## **annize.flow package**

Execution of Annize projects.

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

## **Submodules**

### **annize.flow.run\_context module**

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

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

**class** `annize.flow.run_context.RunContext`

Bases: `object`

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

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

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

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

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

See also `current()`.

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

Do not use directly.

`_IS_TOPLEVEL_OBJECT__METADATA_KEY = 'annize..is_toplevel_object'`

`_ANNIZE_CONFIG_ROOTPATH__NAME = 'annize..annize_config_rootpath'`

**prepare**(`*`, `annize_config_rootpath`)

Prepare the execution.

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

**Parameter**

**annize\_config\_rootpath** (*Path*) – The Annize project configuration root path.

**Rückgabetyp**

`None`

**object\_by\_name**(*name*, *default=None*, \*, *create\_nonexistent=False*)

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

See also [set\\_object\\_name\(\)](#).

**Parameter**

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

**Rückgabotyp**

*Any*

**object\_names**(*obj*)

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

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

See also [set\\_object\\_name\(\)](#).

**Parameter**

**obj** (*Any*) – The object.

**Rückgabotyp**

list[str]

**object\_name**(*obj*)

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

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

See also [set\\_object\\_name\(\)](#).

**Parameter**

**obj** (*Any*) – The object.

**Rückgabotyp**

str

**set\_object\_name**(*obj*, *name*)

Assign a name to an object.

All names assigned earlier remain valid as well.

See also [object\\_by\\_name\(\)](#), [object\\_names\(\)](#) and others.

**Parameter**

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

**Rückgabotyp**

None

**objects\_by\_type**(*obj\_type*, *toplevel\_only*=True)

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

See also [add\\_object\(\)](#) and others.

**Parameter**

- **obj\_type** (*type[T]*) – The type.
- **toplevel\_only** (*bool*) – Whether to return only objects that are defined on project level.

**Rückgabotyp**

list[T]

**add\_object**(*obj*)

Add an object to the store and return its name.

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

See also [object\\_by\\_name\(\)](#), [objects\\_by\\_type\(\)](#) and others.

**Parameter**

**obj** (*Any*) – The object to add.

**Rückgabotyp**

str

**is\_friendly\_name**(*name*)

Returns whether the given name is a friendly one.

**Parameter**

**name** (*str*) – The name to check.

**Rückgabotyp**

bool

**is\_toplevel\_object**(*obj*)

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

**Parameter**

**obj** (*Any*) – The object to check.

**Rückgabotyp**

bool

**mark\_object\_as\_toplevel**(*obj*)

Mark an object as a toplevel one. See [is\\_toplevel\\_object\(\)](#).

**Parameter**

**obj** (*Any*) – The object.

**Rückgabotyp**

None

**object\_metadata**(*obj*, *key*, *default*=None)

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

See also [set\\_object\\_metadata\(\)](#).

**Parameter**

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

**Rückgabotyp***Any***set\_object\_metadata**(*obj*, *key*, *value=None*)

Store a piece of metadata for a given object.

See also [\*object\\_metadata\(\)\*](#).**Parameter**

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

**Rückgabotyp**

None

**\_\_put\_object**(*name*, *obj*)**Parameter**

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

**Rückgabotyp**

None

**\_\_object\_raw\_name**(*obj*)**Parameter****obj** (*Any*)**Rückgabotyp***str***\_\_object\_metadata\_dict**(*obj*)**Parameter****obj** (*Any*)**Rückgabotyp***dict*[*str*, *Any*]**annize.flow.run\_context.current()**

Return the current run context.

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

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

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

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

**Parameter**

- **name** (*str*)
- **default** (*Any*)
- **create\_nonexistent** (*bool*)

**Rückgabotyp**

*Any*

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

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

**Parameter**

**obj** (*Any*)

**Rückgabotyp**

`list[str]`

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

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

**Parameter**

**obj** (*Any*)

**Rückgabotyp**

`str`

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

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

**Parameter**

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

**Rückgabotyp**

`None`

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

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

**Parameter**

- **obj\_type** (`type[T]`)
- **toplevel\_only** (*bool*)

**Rückgabotyp**

`list[T]`

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

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

**Parameter**

**obj** (*Any*)

**Rückgabotyp**

`str`

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

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

**Parameter**

**name** (*str*)

**Rückgabotyp**

*bool*

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

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

**Parameter**

**obj** (*Any*)

**Rückgabotyp**

*bool*

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

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

**Parameter**

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

**Rückgabotyp**

*Any*

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

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

**Parameter**

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

**Rückgabotyp**

*None*

## annize.flow.runner module

The Annize project runner.

See [Runner](#).

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

Bases: `ABC`

TODO.

**Parameter**

- **project** (*Project*)
- **selected\_task** (*str* | *None*)
- **user\_feedback** (*TODO*)

**run\_runner()**  
Rückgabotyp  
None

**\_dispatch(*func*)**

**\_\_do\_run(*project*)**  
Parameter  
**project** ([Project](#))

**abstractmethod show\_task\_chooser()**  
Rückgabotyp  
None

**abstractmethod show\_task\_execution()**  
Rückgabotyp  
None

**abstractmethod show\_task\_execution\_success()**  
Rückgabotyp  
None

**get\_tasks()**  
Rückgabotyp  
list[str]

**\_\_set\_tasks(*tasks*)**  
Parameter  
**tasks** (*list[str]*)  
Rückgabotyp  
None

**get\_selected\_task()**  
Rückgabotyp  
str

**set\_selected\_task(*task\_name*)**  
Parameter  
**task\_name** (*str*)  
Rückgabotyp  
None

**is\_finished()**  
Rückgabotyp  
bool

**get\_success\_state()**  
Rückgabotyp  
*Tuple*[bool, str]



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

**Parameter**

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

**Rückgabotyp**

None

```
wait_finished()
```

**Rückgabotyp**

None

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

## annize.fs package

Annize filesystem API.

Used by Annize Features.

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

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

Bases: object

Base class for a source of arbitrary filesystem content.

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

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

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

**Parameter**

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

```
path()
```

Return the path that points to the content.

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

**Rückgabotyp**

[Path](#)

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

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

A path.

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

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

**Parameter**

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

**`_path()`**

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

**Rückgabotyp**

`Path`

**`path()`**

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

**Rückgabotyp**

`Path`

**`children()`**

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

**Rückgabotyp**

`Sequence[Path]`

**`ctime()`**

Return the ctime for this path.

**Rückgabotyp**

`datetime`

**`mtime()`**

Return the mtime for this path.

**Rückgabotyp**

`datetime`

**`write_file(data)`**

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

**Parameter**

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

**Rückgabotyp**

`None`

**`remove(*, missing_ok=True)`**

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

**Parameter**

**missing\_ok** (`bool`) – Whether it is okay if there is nothing at this path.

**Rückgabotyp**

`None`

**`file_size()`**

Return the file size in bytes.

**Rückgabotyp**

int

**temp\_clone**(\* , *temp\_root\_path=None*, *basename=None*)

Return a temporary clone of the content at this path.

**Parameter**

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

**Rückgabotyp***Path***TTransferFilter**alias of `Callable[[Path, Path, Path], bool]`**copy\_to**(*destination*, \*, *destination\_as\_parent=False*, *merge=False*, *overwrite=False*, *transfer\_filter=None*)

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

**Parameter**

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

**Rückgabotyp***Path***move\_to**(*destination*, \*, *destination\_as\_parent=False*, *merge=False*, *overwrite=False*, *transfer\_filter=None*)

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

**Parameter**

- **destination** (*str* / *Path*) – The destination.
- **destination\_as\_parent** (*bool*) – Whether to consider the destination as the parent of the new destination (instead of the new destination itself). The actual destination will have the same basename as the source then.
- **merge** (*bool*) – Whether to merge the source content into the destination. If not, each new destination directory will replace the existing one or even fail.
- **overwrite** (*bool*) – Whether to allow overwriting of the destination.
- **transfer\_filter** (`Callable[[Path, Path, Path], bool] / None)` – The optional transfer filter to use. It can exclude particular parts from the transfer. It is a function

with three [Path](#) parameters: The relative path of an item, the absolute source path and the absolute destination path. It returns False to skip that item.

**Rückgabotyp**

[Path](#)

**class TransferFilters**

Bases: object

**class And(\*inner\_filters)**

Bases: object

**Parameter**

**inner\_filters** ([Path.TTransferFilter](#))

**class \_TransferHelper**

Bases: object

**static transfer\_to**(*source, destination, \*, merge, overwrite, destination\_as\_parent, action, transfer\_filter=None*)

**Parameter**

- **source** ([Path](#))
- **destination** ([Path](#))
- **merge** (*bool*)
- **overwrite** (*bool*)
- **destination\_as\_parent** (*bool*)
- **action** (*Callable*)
- **transfer\_filter** (*Callable[[[Path](#), [Path](#), [Path](#)], bool] | None*)

**Rückgabotyp**

[Path](#)

**static transfer\_action\_copy**(*source, destination*)

**Parameter**

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

**Rückgabotyp**

None

**static transfer\_action\_move**(*source, destination*)

**Parameter**

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

**Rückgabotyp**

None

**static \_TransferHelper\_\_transfer\_piece**(*action, transfer\_filter, source, destination, merge, overwrite, relative\_path=""*)

**Parameter**

- **action** (*Callable*)
- **transfer\_filter** (*Callable[[[Path](#), [Path](#), [Path](#)], bool] | None*)
- **source** ([Path](#))
- **destination** ([Path](#))
- **merge** (*bool*)
- **overwrite** (*bool*)
- **relative\_path** (*str*)

**Rückgabotyp**

None

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

Return a [FilesystemContent](#) for an arbitrary given path or [FilesystemContent](#).

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

#### Parameter

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

#### Rückgabetyp

[FilesystemContent](#)

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

Return a fresh empty temporary directory for arbitrary usage.

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

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

#### Parameter

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

#### Rückgabetyp

[FreshTempDirectory](#)

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

Return a ‚filesystem content‘ that provides a file with some given content.

#### Parameter

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

#### Rückgabetyp

[FilesystemContent](#)

## Submodules

### annize.fs.ext module

Annize filesystem API extensions.

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

**class** annize.fs.ext.**FreshTempDirectory**(*name=None, \*, temp\_root\_path=None*)

Bases: object

A fresh empty temp directory for arbitrary usage.

See [annize.fs.fresh\\_temp\\_directory\(\)](#).

Do not use directly.

**Parameter**

- **name** (*str | Path | None*)
- **temp\_root\_path** (*str | Path | None*)

**property path:** [Path](#)

The path of this temp directory.

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

**\_\_cleanup()**

**class** annize.fs.ext.**DynamicFile**(*\*, content, file\_name=None, temp\_root\_path=None*)

Bases: [FilesystemContent](#)

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

See [annize.fs.dynamic\\_file\(\)](#).

Do not use directly.

**Parameter**

- **content** (*str | bytes | Callable[[], str | bytes]*)
- **file\_name** (*str | None*)
- **temp\_root\_path** (*str | Path | None*)

**\_TStaticContent** = *str | bytes*

**\_TContent**

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

**\_path()**

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

Bases: object

Mounting of a filesystem.

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

**Parameter**

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

property destination: *Path*

The mount-point.

## annize.i18n package

TODO.

See *tr()*.

**class** annize.i18n.TranslationProvider

Bases: ABC

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

**Parameter**

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

**Rückgabetyt**

*str* | None

**\_abc\_impl** = <\_abc.\_abc\_data object>

**class** annize.i18n.GettextTranslationProvider(*mopath*)

Bases: *TranslationProvider*

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

**Parameter**

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

**\_abc\_impl** = <\_abc.\_abc\_data object>

annize.i18n.add\_translation\_provider(*provider*, \*, *priority*=0)

**Parameter**

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

**Rückgabetyt**

None

annize.i18n.translation\_providers()

**Rückgabetyt**

list[*TranslationProvider*]

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

**Parameter**

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

**Rückgabetyt**

*str*

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

```
    Bases: ABC
```

```
    static tr(stringname)
```

```
        Parameter
```

```
            stringname (str)
```

```
        Rückgabetyt
```

```
            TrStr
```

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

```
        Parameter
```

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

```
        Rückgabetyt
```

```
            str
```

```
    abstractmethod get_variant(culture)
```

```
        Parameter
```

```
            culture (Culture)
```

```
        Rückgabetyt
```

```
            str
```

```
    property stringname: str
```

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

```
        Rückgabetyt
```

```
            TrStr
```

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

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

```
    Bases: TrStr
```

```
        Parameter
```

```
            stringname (str)
```

```
    property stringname
```

```
    get_variant(culture)
```

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

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

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

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

```
    Parameter
```

```
        • txt (TrStr | str)
```

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

```
    Rückgabetyt
```

```
        str
```



`annize.i18n.to_trstr(txt)`

**Parameter**

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

**Rückgabetyp**

`TrStr`

**class** `annize.i18n.Culture`(*english\_lang\_name*, *iso\_639\_1\_lang\_code*, *subcode*, *fallback\_cultures*)

Bases: `object`

**Parameter**

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

**static** `get_from_iso_639_1_lang_code`(*iso\_639\_1\_lang\_code*, *subcode*=`None`, *fallback\_cultures*=())

**Parameter**

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

**property** `english_lang_name`: `str`

**property** `iso_639_1_lang_code`: `str`

**property** `subcode`: `str`

**property** `fullname`: `str`

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

`__find_lcall()`

`__get_env()`

`__set_env`(*language*, *locale\_lc\_all*)

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

Bases: `Culture`

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

Bases: `Culture`

**class** `annize.i18n._CultureFence`

Bases: `Culture`

`annize.i18n.get_culture`(*culture*, \*, *fallback\_cultures*=())

**Parameter**

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

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

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

**annize.object package**

Handling of Annize objects.

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

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

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

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

TODO.

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

- `parameter_name (str)`

```

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

```

**annize.object.parameter\_info module**

TODO.

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

Bases: object

**Parameter**

- **name** (*str*)
- **resolved\_type** (*type* | *None*)
- **is\_optional** (*bool*)
- **construct\_from\_string\_func** (*Callable[[str], Any]* | *None*)

property **name**: *str*

property **resolved\_type**: *type* | *None*

**matches\_object**(*obj*)

**Parameter**

**obj** (*object*)

**Rückgabotyp**

*bool*

**matches\_type**(*type\_*)

**Parameter**

**type\_** (*type*)

**Rückgabotyp**

*bool*

**matches\_inner\_type**(*type\_*)

**Parameter**

**type\_** (*type*)

**Rückgabotyp**

*bool*

property **is\_optional**: *bool*

property **inner\_type\_info**: [\*ParameterInfo\*](#) | *None*

property **allows\_multiple\_args**: *bool*

property **is\_constructable\_from\_string**: *bool*

**construct\_from\_string**(*s*)

**Parameter**

**s** (*str*)

**Rückgabotyp**

*Any*

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

Bases: [ParameterInfo](#)

**Parameter**

- **name** (*str*)
- **is\_optional** (*bool*)

**property** allows\_multiple\_args

**property** inner\_type\_info

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

Bases: [ParameterInfo](#)

**Parameter**

- **name** (*str*)
- **is\_optional** (*bool*)

**property** resolved\_type

**matches\_object**(*obj*)

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

**Parameter**

**as\_optional** (*bool*)

**Rückgabety**

[ParameterInfo](#)

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

**Parameter**

**for\_callable** (*Callable*)

**Rückgabety**

dict[str, [ParameterInfo](#)]

## annize.project package

Annize projects.

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

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

Bases: object

An Annize project.

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

Do not use directly.

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

**Parameter**

- **node** ([ProjectNode](#))
- **annize\_config\_rootpath** (*str* | *Path*)

**property node:** *ProjectNode*

The project node.

This contains the entire configuration structure of this project.

**property annize\_config\_rootpath:** *Path*

The „config root path“ of this Annize project.

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

**static load**(*project\_path*)

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

**Parameter**

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

**Rückgabotyp**

*Project* | `None`

**save**()

Save the current state of the project back to disk.

**static create\_new**(*project\_root\_path*, *subdirectory\_name*='meta')

Create a new Annize project.

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

**Parameter**

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

**Rückgabotyp**

*Project*

**class annize.project.Node**

Bases: `ABC`

Nodes are the building blocks of a project.

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

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

The most relevant subclass in many regards is *ObjectNode*.

**class ChangeEvent**(*target\_node*)

Bases: `object`

Base class for events on a *Node*. See subclasses and *Node.add\_change\_handler()*.

**Parameter**

**target\_node** (*Node*)

**property target\_node:** *Node*

The target node this event is about.

**class ChildrenListChangeEvent**(*target\_node*, *child\_node*, *child\_position*)

Bases: [ChangeEvent](#)

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

**Parameter**

- **target\_node** ([Node](#))
- **child\_node** ([Node](#))
- **child\_position** (*int*)

**property child\_node:** [Node](#)

The child node this event is about.

**property child\_position:** *int*

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

**class ChildAddedEvent**(*target\_node*, *child\_node*, *child\_position*)

Bases: [ChildrenListChangeEvent](#)

Node event that occurs when a child node was added.

**Parameter**

- **target\_node** ([Node](#))
- **child\_node** ([Node](#))
- **child\_position** (*int*)

**class ChildRemovedEvent**(*target\_node*, *child\_node*, *child\_position*)

Bases: [ChildrenListChangeEvent](#)

Node event that occurs when a child node was removed.

**Parameter**

- **target\_node** ([Node](#))
- **child\_node** ([Node](#))
- **child\_position** (*int*)

**class PropertyChangeEvent**(*target\_node*, *property\_name*, *old\_value*, *new\_value*)

Bases: [ChangeEvent](#)

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

**Parameter**

- **target\_node** ([Node](#))
- **property\_name** (*str*)
- **old\_value** (*Any*)
- **new\_value** (*Any*)

**property property\_name:** *str*

The property name.

**property old\_value:** *Any*

The old property value.

**property new\_value:** Any

The new property value.

**add\_change\_handler**(*handler*, \*, *also\_watch\_children*)

Add a function that handles changes on this node.

See also [\*remove\\_change\\_handler\(\)\*](#).

**Parameter**

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

**remove\_change\_handler**(*handler*)

Remove a change handler function that was added by [\*add\\_change\\_handler\(\)\*](#) earlier.

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

**Parameter**

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

**\_\_changed\_\_helpers**(*event*)

**Parameter**

**event** ([\*ChangeEvent\*](#))

**\_changed\_\_child\_added**(*child\_node*, *child\_position*)

**Parameter**

- **child\_node** ([\*Node\*](#))
- **child\_position** (*int*)

**\_changed\_\_child\_removed**(*child\_node*, *child\_position*)

**Parameter**

- **child\_node** ([\*Node\*](#))
- **child\_position** (*int*)

**\_changed\_\_property\_changed**(*node*, *property\_name*, *old\_value*, *new\_value*)

**Parameter**

- **node** ([\*Node\*](#))
- **property\_name** (*str*)
- **old\_value** (*Any*)
- **new\_value** (*Any*)

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

This node's parent node.

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

This node's child nodes.



**insert\_child**(*i*, *node*)

Insert a new child node.

**Parameter**

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

**Rückgabotyp**

None

**append\_child**(*node*)

Append a new child node.

**Parameter**

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

**Rückgabotyp**

None

**remove\_child**(*node*)

Remove a child node.

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

**Parameter**

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

**Rückgabotyp**

None

**abstractmethod classmethod \_allowed\_child\_types**()

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

**Rückgabotyp**

*Iterable*[*type*[*Node*]]

**clone**(*with\_children=True*, *with\_marshallers=False*)

**Parameter**

- **with\_children** (*bool*)
- **with\_marshallers** (*bool*)

**Rückgabotyp**

*Node*

**description**(*\**, *with\_children=True*, *multiline=True*)

**Parameter**

- **with\_children** (*bool*)
- **multiline** (*bool*)

**Rückgabotyp**

*str*

**\_\_description**(*indent*, *with\_children*, *multiline*)

**Parameter**

- **indent** (*int*)

- **with\_children** (*bool*)

- **multiline** (*bool*)

**Rückgabotyp**

*str*

**abstractmethod** **\_str\_helper()**

**Rückgabotyp**

*Iterable[str]*

**\_abc\_impl** = **<\_abc.\_abc\_data object>**

**class** **annize.project.ProjectNode**

Bases: *Node*

An Annize project root node.

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

**save()**

Store the current state to the Annize project configuration files.

**insert\_child**(*i, node*)

Insert a new child node.

**Parameter**

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

**\_\_changed\_handler**(*event*)

**Parameter**

**event** (*ChangeEvent*)

**get\_changes**(*\*, since=0, until=9223372036854775807*)

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

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

**Parameter**

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

**Rückgabotyp**

*list[ChangeEvent]*

**\_\_compacted\_changelist**()

**Parameter**

**events** (*list[ChangeEvent]*)

**Rückgabotyp**

*list[ChangeEvent | None]*

**undo\_changes**(*since*)

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

**Parameter**

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

**Rückgabotyp**

None

**static load**(*path*)

**Parameter**

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

**Rückgabotyp**

[ProjectNode](#)

**classmethod \_allowed\_child\_types**()

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

**\_str\_helper**()

**\_abc\_impl** = <\_abc.\_abc\_data object>

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

Bases: [Node](#)

An Annize project file node.

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

**Parameter**

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

- **marshaller** (*TODO*)

**property path**: *Path*

The file path.

**property marshaller**: *TODO*

**\_str\_helper**()

**classmethod \_allowed\_child\_types**()

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

**\_abc\_impl** = <\_abc.\_abc\_data object>

**class** annize.project.**ArgumentNode**

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

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

See subclasses.

**property name**: *str* | *None*

The name of this argument node.

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

**property append\_to: str | None**

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

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

**property arg\_name: str | None**

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

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

**\_str\_helper()**

**\_abc\_impl = <\_abc.\_abc\_data object>**

**class annize.project.ObjectNode**

Bases: [ArgumentNode](#)

An Annize project object node.

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

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

**property type\_name: str**

The name of the type of this object.

**property feature: str**

The Annize feature name that provides this object.

**\_str\_helper()**

**classmethod \_allowed\_child\_types()**

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

**\_abc\_impl = <\_abc.\_abc\_data object>**

**class annize.project.ScalarValueNode**

Bases: [ArgumentNode](#)

An Annize project scalar value node.

It represents a fixed string value.

**property value: str**

The string that this node represents.

**\_str\_helper()**

**\_\_shorten(maxlen=100)**

**Parameter**

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

**Rückgabetyp**

str

```
classmethod _allowed_child_types()
```

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

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

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

Bases: *ArgumentNode*

A reference node.

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

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

Bases: Enum

```
FAIL = 'fail'
```

```
SKIP = 'skip'
```

```
property reference_key: str
```

The name of the node this node references to.

```
property on_unresolvable: OnUnresolvableAction
```

```
_str_helper()
```

```
classmethod _allowed_child_types()
```

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

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

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

Bases: *Node*

A block node without any own behavior.

The purpose of that block differs for particular subclass.

```
_str_helper()
```

```
classmethod _allowed_child_types()
```

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

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

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

Bases: *BlockNode*

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

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

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

Bases: Enum

```
BLOCK = 'block'
```

```
FILE = 'file'
```

```
PROJECT = 'project'
```

**\_str\_helper()**

**property scope:** *Scope*

The scope of this block.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**class** annize.project.OnFeatureUnavailableNode

Bases: *BlockNodeWithScope*

An Annize project on-Feature-unavailable definition node.

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

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

**class** Action(\*values)

Bases: Enum

**FAIL** = 'fail'

**SKIP\_BLOCK** = 'skip\_block'

**SKIP\_NODE** = 'skip\_node'

**\_str\_helper()**

**property feature:** str

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

**property do:** *Action*

The action when the specified Feature is not available.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**exception** annize.project.FeatureUnavailableError(feature\_name)

Bases: ModuleNotFoundError

**Parameter**

**feature\_name** (str)

**exception** annize.project.BadStructureError(message)

Bases: ValueError

**Parameter**

**message** (str)

**exception** annize.project.MaterializerError(message)

Bases: TypeError

**Parameter**

**message** (str)

**exception** annize.project.ParserError(message)

Bases: ValueError

Parsing error like bad input xml.

**Parameter**

**message** (str)

**exception** `annize.project.UnresolvableReferenceError(reference_key)`

Bases: `MaterializerError`

**Parameter**

**reference\_key** (*str*)

## Subpackages

### `annize.project.file_formats` package

File formats for Annize configuration files.

See also the submodules.

**class** `annize.project.file_formats.FileFormat`

Bases: `ABC`

A file format for Annize configuration files.

**class** `Marshaler`

Bases: `ABC`

**abstractmethod** `add_change(change)`

**Parameter**

**change** (*TODO*)

**Rückgabety**

`None`

`_abc_impl = <_abc._abc_data object>`

**classmethod** `parse_file(path)`

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

**Parameter**

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

**Rückgabety**

`FileNode`

`_abc_impl = <_abc._abc_data object>`

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

**Parameter**

**format\_name** (*str*)

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

**Parameter**

**format\_name** (*str*)

**Rückgabety**

`FileFormat` | `None`

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

**Parameter**

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

**Rückgabety**

`ProjectNode`

## Submodules

### annize.project.file\_formats.xml module

Support for Annize configuration XML files.

**class** annize.project.file\_formats.xml.**XmlFileFormat**

Bases: *FileFormat*

**classmethod** **parse\_file**(*path*)

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

**Parameter**

**path** – The file to parse.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**class** annize.project.file\_formats.xml.**\_XmlParser**

Bases: object

**class** **\_Context**

Bases: object

**property** **marshaler**

**in\_file**(*fpath*, *marshaler*)

**Parameter**

**fpath** (*str* | *Path*)

**in\_node**(*xnode*)

**static** **\_Context\_\_nodeshort**(*xnode*, *maxlen*=100)

**Parameter**

**xnode** (*Element*)

**class** **\_TagParts**(*name*, *namespace*='')

Bases: object

**Parameter**

**namespace** (*str*)

**ATTRIBUTE\_COMMAND\_START** = '~'

**ATTRIBUTE\_COMMAND\_END** = '~'

**classmethod** **escape\_attribute\_string**(*txt*)

**Parameter**

**txt** (*str*)

**Rückgabetypp**

*str*

**parse\_file**(*fpath*)

**Parameter**

**fpath** (*str* | *Path*)

**Rückgabetypp**

*FileNode*



```

classmethod _XmlParser__interpret_attribute_string(txt)

    Parameter
        txt (str)

    Rückgabetyt
        Tuple[bool, str]

classmethod _XmlParser__parse_attrib(key, value)

    Parameter
        • key (str)
        • value (str)

    Rückgabetyt
        Node

 XmlParser__parse_child(node, xnode)

    Parameter
        • node (Node)
        • xnode (Element)

    Rückgabetyt
        Tuple[Node, Element]

 XmlParser__parse_children(node, xparent)

    Parameter
        • node (Node)
        • xparent (Element)

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

    Parameter
        node (Node)

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

class XmlDocumentLocation(element: <cyfunction Element at 0x7faaf6f54ba0>, attr_name: str = "")
    Bases: object

    Parameter
        • element (Element)
        • attr_name (str)

    element: Element

    attr_name: str = ''

    add_change(change)

```

`add_element(node, xelem)`

**Parameter**

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

`add_element_attr(node, xelem, attrname)`

**Parameter**

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

`_abc_impl = <_abc._abc_data object>`

`add_element_tree(node, xtree)`

**Parameter**

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

`save_filenode_to_file(node)`

**Parameter**

- `node` (`FileNode`)

## **annize.project.materializer package**

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

See `materialize()`.

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

**class** `annize.project.materializer.MaterializationResult`(*root\_objects, node\_association, problems*)

Bases: `object`

**Parameter**

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

property `root_objects`: `list[Any]`

`objects_for_node(node)`

**Parameter**

- `node` (`Node`)

**Rückgabety**

`list[Any] | None`

**erroneous\_nodes()**

**Rückgabotyp**  
list[Node]

**errors\_for\_node(node)**

**Parameter**  
**node** (Any)

**Rückgabotyp**  
list[Exception]

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

**Parameter**

- **project** (ProjectNode)
- **feature\_loader** (FeatureLoader | None)

**Rückgabotyp**  
MaterializationResult

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

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

## Subpackages

### **annize.project.materializer.behaviors package**

Behaviors.

See [Behavior](#).

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

Bases: ABC

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

**abstractmethod** `node_context(nodemat)`

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

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

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

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

**Rückgabotyp**  
ContextManager

`_abc_impl = <_abc._abc_data object>`

## Submodules

### annize.project.materializer.behaviors.argument module

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

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

Bases: [Behavior](#)

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

#### Parameter

**feature\_loader** ([FeatureLoader](#))

**node\_context**(*nodemat*)

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

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

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

#### Parameter

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

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

Bases: [Behavior](#)

#### Parameter

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

**node\_context**(*nodemat*)

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

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

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

#### Parameter

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

### annize.project.materializer.behaviors.basket module

See [BasketBehavior](#).

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

Bases: [Behavior](#)

Behavior that handles baskets.

**node\_context**(*nodemat*)

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

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

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

**Parameter**

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**annize.project.materializer.behaviors.block module**

See [BlockBehavior](#).

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

Bases: [Behavior](#)

Behavior that handles block.

**node\_context**(*nodemat*)

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

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

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

**Parameter**

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**annize.project.materializer.behaviors.feature\_unavailable module**

See [FeatureUnavailableBehavior](#).

**class**

annize.project.materializer.behaviors.feature\_unavailable.**FeatureUnavailableBehavior**

Bases: [Behavior](#)

Behavior that handles on-feature-unavailable nodes.

**\_\_context\_skipnode\_featureignorelist**(*node*)

**\_\_context\_catchexceptions**(*nodemat, featureignorelist*)

**node\_context**(*nodemat*)

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

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

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

**Parameter**

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**annize.project.materializer.behaviors.reference module**

See [ReferenceBehavior](#).

**class** annize.project.materializer.behaviors.reference.**ReferenceBehavior**

Bases: [Behavior](#)

Behavior that handles reference nodes.

**node\_context**(*nodemat*)

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

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

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

**Parameter**

**nodemat** – The node materialization for the current node.

**\_abc\_impl** = <\_abc.\_abc\_data object>

**Submodules****annize.project.materializer.core module**

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

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

Bases: object

**Parameter**

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

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

**set\_materialized\_result**(*resultlist*)

**set\_problems**(*problems*)

**Parameter**

**problems** (*Iterable[Exception]*)

**get\_materialized\_children\_tuples**()

**get\_materialized\_children**()

**Rückgabety**

*Iterable[Any]*

```

try_get_materialization_for_node(node)

    Parameter
        node (Node)

property has_result

property result

property problems: list[Exception]

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

        Parameter

            • node (Node)

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

        __materialization_for_node(node, store)

            Parameter

                • node (Node)

                • store (dict)

            Rückgabetyt
                NodeMaterialization

        __materialize(node, store)

            Parameter

                • node (Node)

                • store (dict)

            Rückgabetyt
                None

        _materialize_hlp_childobjs(node, store)

            Parameter

                • node (Node)

                • store (dict)

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

        __get_erroneous_nodes(materializationstore, old_erroneous_nodes)

        get_materialized()

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

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

```

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

Bases: [\*InternalError\*](#)

**Parameter**

**node** ([\*Node\*](#))

## **annize.project.materializer.preprocessors module**

Some preprocessor functions used by the materializer.

Only used internally by the parent package.

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

**Parameter**

**topnode** ([\*Node\*](#))

**Rückgabety**

[\*Node\*](#)

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

**Parameter**

**topnode** ([\*Node\*](#))

**Rückgabety**

[\*Node\*](#)

## **Submodules**

### **annize.project.feature\_loader module**

Feature module loader.

See [\*FeatureLoader\*](#).

**class** `annize.project.feature_loader.FeatureLoader`

Bases: [\*ABC\*](#)

Base class for a feature module loader.

**abstractmethod** `load_feature(name)`

**Parameter**

**name** ([\*str\*](#))

**Rückgabety**

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

**abstractmethod** `get_all_available_feature_names()`

**Rückgabety**

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

`_abc_impl = <_abc._abc_data object>`

**class** `annize.project.feature_loader.DefaultFeatureLoader`

Bases: [\*FeatureLoader\*](#)

Default feature module loader.



```

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

load_feature(name)

get_all_available_feature_names()

__find_feature_modules_in_package(package_name)

    Parameter
        package_name (str)

    Rückgabetyt
        list[str]

_abc_impl = <_abc._abc_data object>

```

### annize.project.inspector module

Project inspector.

See [Inspector](#).

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

Bases: object

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

```

    Parameter
        feature_loader (FeatureLoader)

```

```
class ArgumentMatchings(all_matchings)
```

Bases: object

```

    Parameter
        all_matchings (list[ArgumentMatching])

```

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

Bases: object

```

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

```

```
property argname: str
```

```
property allows_multiple_args: bool
```

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

```
matching_by_argname(arg_name)
```

```

    Parameter
        arg_name (str)
    Rückgabetyt
        ArgumentMatching|None

```

```
all()
```

```

    Rückgabetyt
        list[ArgumentMatching]

```

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

Bases: `object`

**Parameter**

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

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

**property** `typename`: `str`

**property** `type`: `type`

**match\_arguments**(*node*)

**Parameter**

**node** (`Node`)

**Rückgabotyp**

`ArgumentMatchings`

**match\_node**(*node*)

**Parameter**

**node** (`Node`)

**Rückgabotyp**

`ArgumentMatching` | `None`

**get\_all\_types**()

**Rückgabotyp**

`list`[`TypeInfo`]

**get\_types\_for\_argument**(*node*, *argname*)

**Parameter**

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

**Rückgabotyp**

`list`[`TypeInfo`]

**get\_project\_node**(*node*)

**Parameter**

**node** (`Node`)

**Rückgabotyp**

`ProjectNode` | `None`

**get\_node\_by\_name**(*subtree*, *name*)

**Parameter**

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

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

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

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

Loading Annize projects from disk.

See also `load_project()`.

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

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

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

**Parameter**

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

**Rückgabotyp**`Project` | `None`

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

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

**Parameter**

**project\_path** (`str` | `Path`) – A path into the Annize project.

**Rückgabotyp**`Path` | `None`

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

**Parameter**

**annize\_config\_rootpath** (`str` | `Path`)

**Rückgabotyp**`Path`

## **annize.ui package**

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

### **Parameter**

`app_name (str)`

## **Subpackages**

**annize.ui.apps package**

### **Subpackages**

**annize.ui.apps.runner package**

### **Subpackages**

**annize.ui.apps.runner.models package**

### **Submodules**

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

**annize.ui.apps.runner.models.task\_chooser module**

**annize.ui.apps.runner.models.task\_execution module**

**annize.ui.apps.runner.models.user\_feedback module**

**annize.ui.apps.runner.views package**

### **Submodules**

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

**annize.ui.apps.runner.views.task\_chooser module**

**annize.ui.apps.runner.views.task\_execution module**

**annize.ui.apps.runner.views.user\_feedback module**

**annize.ui.apps.studio package**

### **Subpackages**

**annize.ui.apps.studio.models package**

### **Submodules**

**annize.ui.apps.studio.models.add\_child module**

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

**annize.ui.apps.studio.models.main\_tab\_panel module**

**annize.ui.apps.studio.models.object\_editor module**

**annize.ui.apps.studio.models.problems\_list module**

`annize.ui.apps.studio.models.project_config` module

`annize.ui.apps.studio.views` package

Submodules

`annize.ui.apps.studio.views.add_child` module

`annize.ui.apps.studio.views.main` module

`annize.ui.apps.studio.views.main_tab_panel` module

`annize.ui.apps.studio.views.object_editor` module

`annize.ui.apps.studio.views.problems_list` module

`annize.ui.apps.studio.views.project_config` module

`annize.user_feedback` package

**class** `annize.user_feedback.UserFeedbackController`

Bases: `ABC`

**abstractmethod** `message_dialog(message, answers, config_key)`

Parameter

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

Rückgabotyp

*int*

**abstractmethod** `input_dialog(question, suggested_answer, config_key)`

Parameter

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

Rückgabotyp

*str | None*

**abstractmethod** `choice_dialog(question, choices, config_key)`

Parameter

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

Rückgabotyp

*int | None*

`_abc_impl = <_abc._abc_data object>`

**class** annize.user\_feedback.NullUserFeedbackController

Bases: object

**message\_dialog**(\*\_)

**input\_dialog**(\*\_)

**choice\_dialog**(\*\_)

**exception** annize.user\_feedback.UnsatisfiableUserFeedbackAttemptError

Bases: RuntimeError

annize.user\_feedback.\_controllers\_tuples\_for\_context(*context*)

**Parameter**

**context** ([RunContext](#))

**Rückgabety**

list[[Tuple](#)[int, [UserFeedbackController](#)]]

annize.user\_feedback.\_controllers\_for\_context(*context*)

**Parameter**

**context** ([RunContext](#))

**Rückgabety**

list[[UserFeedbackController](#)]

annize.user\_feedback.\_add\_controller\_to\_context(\*, *controller*, *context*, *priority\_index*=0)

**Parameter**

- **controller** ([UserFeedbackController](#))
- **context** ([RunContext](#))
- **priority\_index** (*int*)

**Rückgabety**

None

annize.user\_feedback.message\_dialog(*message*, *answers*, \*, *config\_key*=None)

**Parameter**

- **message** ([TrStr](#) | *str*)
- **answers** ([Iterable](#)[[TrStr](#) | *str*])
- **config\_key** (*str* | None)

**Rückgabety**

int

annize.user\_feedback.input\_dialog(*message*, \*, *suggested\_answer*, *config\_key*=None)

**Parameter**

- **message** ([TrStr](#) | *str*)
- **suggested\_answer** ([TrStr](#) | *str*)
- **config\_key** (*str* | None)

**Rückgabety**

str | None

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

**Parameter**

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

**Rückgabotyp**

`int` | `None`

## Submodules

### `annize.user_feedback.static` module

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

Bases: `UserFeedbackController`

**Parameter**

`answers` (`dict[str, Any]`)

`add_answer(config_key, value)`

**Parameter**

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

**Rückgabotyp**

`None`

`__get_answer(config_key)`

**Parameter**

`config_key` (`str`)

**Rückgabotyp**

`Any`

`message_dialog(message, answers, config_key)`

`input_dialog(question, suggested_answer, config_key)`

`choice_dialog(question, choices, config_key)`

`_abc_impl = <_abc._abc_data object>`

### `annize.user_feedback.tty` module

`class annize.user_feedback.tty.TtyUserFeedbackController`

Bases: `UserFeedbackController`

`__dialog_frame_message(message)`

**Parameter**

`message` (`str`)

**Rückgabotyp**

`str`

**\_\_dialog\_frame\_configkey**(*config\_key*)

Parameter

**config\_key** (*str*)

Rückgabetyt

*str*

**\_\_dialog\_frame\_actions**(*text*)

Parameter

**text** (*str*)

Rückgabetyt

*str*

**\_\_action\_line**(*num, text*)

Parameter

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

Rückgabetyt

*str*

**\_\_dialog**(*message, config\_key, actiontext*)

Parameter

- **message** (*str*)
- **config\_key** (*str*)
- **actiontext** (*str*)

Rückgabetyt

*str*

**message\_dialog**(*message, answers, config\_key*)

**input\_dialog**(*question, suggested\_answer, config\_key*)

**choice\_dialog**(*question, choices, config\_key*)

**\_abc\_impl** = <\_abc.\_abc\_data object>

## 6.1.2 Submodules

### 6.1.3 annize.annize\_cli module

The Annize CLI.

**annize.annize\_cli.main()**

**annize.annize\_cli.parser**(*\*, only\_documentation=True*)

Parameter

**only\_documentation** (*bool*)

Rückgabetyt

*ArgumentParser*



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

Bases: object

#### Parameter

- **project** (*str*)
- **with\_answers\_from\_json\_file** (*Iterable[str]*)
- **with\_answers\_from\_json\_string** (*Iterable[str]*)
- **with\_answer** (*Iterable[Tuple[str, str]]*)

```
class ConsoleRunner(*, project, selected_task=None, user_feedback=None)
```

Bases: [Runner](#)

#### Parameter

- **project** ([Project](#))
- **selected\_task** (*str* | *None*)
- **user\_feedback** (*TODO*)

**show\_task\_chooser**()

**show\_task\_execution**()

**show\_task\_execution\_success**()

**run\_runner**()

**\_abc\_impl** = *<\_abc.\_abc\_data object>*

```
project_default = '/home/pino/projects/annize'
```

```
classmethod __answers_from_json_files(destination, with_answers_from_json_files)
```

#### Parameter

- **destination** (*dict*)
- **with\_answers\_from\_json\_files** (*Iterable[str]*)

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

#### Parameter

- **destination** (*dict*)
- **with\_answers\_from\_json\_strings** (*Iterable[str]*)

```
classmethod __answers_from_single_answers(destination, with_answers)
```

#### Parameter

- **destination** (*dict*)
- **with\_answers** (*Iterable[Tuple[str, str]]*)

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

#### Parameter

**task\_name** (*str*)

```
studio(**_)
```



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