
SlicerDevelopmentToolbox

Documentation

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The SlicerDevelopmentToolbox is an Python API that simplifies the development of Slicer extensions. It consists of the following components:

- Mixins
- Helpers
- Widgets (QT)
- Buttons (QT)
- Icons (QT)
- Constants (DICOM, QT, CSS)
- Decorators
- Events (VTK)
- Exceptions
- Metaclasses

CHAPTER 1

SlicerDevelopmentToolboxUtils package

1.1 Subpackages

1.1.1 SlicerDevelopmentToolboxUtils.module package

Submodules

SlicerDevelopmentToolboxUtils.module.base module

SlicerDevelopmentToolboxUtils.module.logic module

SlicerDevelopmentToolboxUtils.module.plugin module

SlicerDevelopmentToolboxUtils.module.session module

SlicerDevelopmentToolboxUtils.module.step module

Module contents

1.2 SlicerDevelopmentToolboxUtils.buttons module

1.3 SlicerDevelopmentToolboxUtils.constants module

```
class SlicerDevelopmentToolboxUtils.constants.COLOR
```

GRAY

GREEN

RED

YELLOW

```
class SlicerDevelopmentToolboxUtils.constants.DICOMTAGS
```

```
ACQUISITION_TIME = '0008,0032'  
INSTANCE_NUMBER = '0020,0013'  
PATIENT_BIRTH_DATE = '0010,0030'  
PATIENT_ID = '0010,0020'  
PATIENT_NAME = '0010,0010'  
SERIES_DESCRIPTION = '0008,103E'  
SERIES_NUMBER = '0020,0011'  
STUDY_DATE = '0008,0020'  
STUDY_ID = '0020,0010'  
STUDY_TIME = '0008,0030'
```

```
class SlicerDevelopmentToolboxUtils.constants.FileExtension  
Bases: object
```

```
FCSV = '.fcsv'  
H5 = '.h5'  
NRRD = '.nrrd'  
TXT = '.TXT'  
VTK = '.vtk'
```

```
class SlicerDevelopmentToolboxUtils.constants.STYLE
```

```
GRAY_BACKGROUND = 'background-color: gray;'  
GREEN_BACKGROUND = 'background-color: green;'  
LIGHT_GRAY_BACKGROUND = 'background-color: rgb(230,230,230)'  
ORANGE_BACKGROUND = 'background-color: rgb(255,102,0)'  
RED_BACKGROUND = 'background-color: red;'  
WHITE_BACKGROUND = 'background-color: rgb(255,255,255)'  
YELLOW_BACKGROUND = 'background-color: yellow;'
```

1.4 SlicerDevelopmentToolboxUtils.decorators module

```
class SlicerDevelopmentToolboxUtils.decorators.MultiMethod(name)  
Helper class for keeping track of multimethod decorated methods
```

See Also: <http://www.artima.com/weblogs/viewpost.jsp?thread=101605>

```
register(types,func)
```

```
class SlicerDevelopmentToolboxUtils.decorators.MultiMethodRegistrations
```

```
registry = {}
```

SlicerDevelopmentToolboxUtils.decorators.**beforeRunProcessEvents** (*func*)
 Before running the decorated function slicer.app.processEvents() will be executed

```
SlicerDevelopmentToolboxUtils.decorators.callCount (level=10)
```

This decorator is useful for debugging purposes where one wants to know the call count of the decorated function.

```
class SlicerDevelopmentToolboxUtils.decorators.classproperty (fget)  

  Bases: object
```

This decorator enables adding properties to classes that can be called without instantiating an object

See Also: <https://stackoverflow.com/a/13624858>

```
class SlicerDevelopmentToolboxUtils.decorators.logmethod (level=10)  

  Bases: object
```

This decorator can be used for logging methods without the need of reimplementing log messages over and over again.

The decorator logs information about the called method name including caller and arguments.

```
from SlicerDevelopmentToolboxUtils.decorators import logmethod

@logmethod()
def sub(x,y, switch=False):
    return x -y if not switch else y-x

@logmethod(level=logging.INFO)
def sub(x,y, switch=False):
    return x -y if not switch else y-x
```

SlicerDevelopmentToolboxUtils.decorators.**mymethod** (**types*)
 This decorator can be used to define different signatures of a method/function for different data types

NOTE: if you want to use classes that are not available when starting up slicer, define them as strings as follows:
 @mymethod([slicer.vtkMRMLScalarVolumeNode, "vtkMRMLMultiVolumeNode"], [str, unicode])

```
@mymethod([int, float], [int, float], str)
def foo(arg1, arg2, arg3):
    print arg1, arg2, arg3

@mymethod([int, float], str)
def foo(arg1, arg2, arg3):
    print arg1, arg2, arg3

foo(1,2,"bar")
foo(1.0,2,"bar")
foo(1,2.0,"bar")
foo(1.0,2.0,"bar")
```

See Also: <http://www.artima.com/weblogs/viewpost.jsp?thread=101605>

SlicerDevelopmentToolboxUtils.decorators.**onExceptionReturnFalse** (*func*)
 Whenever an exception occurs within the decorated function, this decorator will return False

```
>>> from SlicerDevelopmentToolboxUtils.decorators import onExceptionReturnFalse
>>> @onExceptionReturnFalse
... def getElement(key, dictionary):
```

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```
...     return dictionary[key]

>>> result = getElement('foobar', {'foo':1, 'bar':2}) # no foobar in dictionary
>>> result is False
```

`SlicerDevelopmentToolboxUtils.decorators.onExceptionReturnNone(func)`

Whenever an exception occurs within the decorated function, this decorator will return None

```
from SlicerDevelopmentToolboxUtils.decorators import onExceptionReturnNone
@onExceptionReturnNone
def getElement(key, dictionary):
    return dictionary[key]

result = getElement('foobar', {'foo':1, 'bar':2}) # no foobar in dictionary
```

`class SlicerDevelopmentToolboxUtils.decorators.onModuleSelected(moduleName)`

Bases: object

This decorator can be used for executing the decorated function/method only if a certain Slicer module with name moduleName is currently selected

```
from SlicerDevelopmentToolboxUtils.decorators import onModuleSelected

@onModuleSelected(moduleName="SliceTracker")
def onLayoutChanged(self, layout=None):
    print "layout changed"
```

`SlicerDevelopmentToolboxUtils.decorators.onReturnProcessEvent(func)`

After running the decorated function `slicer.app.processEvents()` will be executed

`SlicerDevelopmentToolboxUtils.decorators.postCall(functionToCall)`

This decorator calls `functionToCall` after the decorated function.

Parameters `functionToCall(function)` – function to be called after the decorated function

`SlicerDevelopmentToolboxUtils.decorators.priorCall(functionToCall)`

This decorator calls `functionToCall` prior to the decorated function.

Parameters `functionToCall(function)` – function to be called prior(before) the decorated function

`class SlicerDevelopmentToolboxUtils.decorators.processEventsEvery(interval=100)`

Decorator for executing a method/function every n milli seconds.

`onTriggered()`

`SlicerDevelopmentToolboxUtils.decorators.singleton(cls)`

This decorator makes sure that only one instance of the decorated class will be created (singleton).

See Also: <http://stackoverflow.com/questions/12305142/issue-with-singleton-python-call-two-times-init>

`SlicerDevelopmentToolboxUtils.decorators.timer(func)`

This decorator can be used for profiling a method/function by printing the elapsed time after execution.

1.5 SlicerDevelopmentToolboxUtils.events module

`class SlicerDevelopmentToolboxUtils.events.SlicerDevelopmentToolboxEvents`

Bases: object

```
CanceledEvent  
FailedEvent  
FileCountChangedEvent  
FinishedEvent  
NewFileIndexedEvent  
NewImageDataReceivedEvent  
SkippedEvent  
StartedEvent  
StatusChangedEvent  
StoppedEvent  
SuccessEvent
```

1.6 SlicerDevelopmentToolboxUtils.exceptions module

```
exception SlicerDevelopmentToolboxUtils.exceptions.DICOMValueError  
    Bases: exceptions.ValueError  
  
exception SlicerDevelopmentToolboxUtils.exceptions.NoEligibleSeriesFoundError  
    Bases: exceptions.ValueError  
  
exception SlicerDevelopmentToolboxUtils.exceptions.PreProcessedDataError  
    Bases: exceptions.ValueError  
  
exception SlicerDevelopmentToolboxUtils.exceptions.UnknownSeriesError  
    Bases: exceptions.ValueError
```

1.7 SlicerDevelopmentToolboxUtils.helpers module

1.8 SlicerDevelopmentToolboxUtils.icons module

```
class SlicerDevelopmentToolboxUtils.icons.Icons  
    Bases: object
```

The Icons class provides a bunch of frequently used icons.

All icons from names can directly be accessed by using Icons.{name from names list} (i.e. Icons.apply)

```
from SlicerDevelopmentToolboxUtils.icons import Icons  
Icons.names  
  
# a icon can be retrieved by calling Icons.{name}  
  
applyIcon = Icons.apply  
sideBySideIcon = Icons.layout_side_by_side_view
```

```
classmethod getPath(name)
```

```
names = ['apply', 'back', 'cancel', 'connection', 'copy_to_left', 'copy_to_right', 'cr
```

class SlicerDevelopmentToolboxUtils.icons.**IconsMetaClass**

Bases: type

IconMetaClass searches the Resources/Icons directory for png files starting with ‘icon-‘ and provides class members

No code needs to be changed when adding a new icon. The filename of the icon should look as follows: ‘icon-‘...’.png’. Capital letters will be transformed to lower case and ‘-‘ and ‘ ‘ will be replaced with ‘_’

Examples

icon-fiducial-add.png → Icons.fiducial_add

icon-cursor-WindowLevel.png → Icons.cursor_window_level

icon-layout-OneUpRedSliceView.png → Icons.layout_one_up_red_slice_view

Note: This class is used as a metaclass

classmethod getIcon(name)

Returning a QIcon for the retrieved icon name. Throws an exception if the name was not found.

classmethod getPath(name)

Returns the path to a specific icon.

1.9 SlicerDevelopmentToolboxUtils.metaclasses module

class SlicerDevelopmentToolboxUtils.metaclasses.**Singleton**

Bases: type

1.10 SlicerDevelopmentToolboxUtils.mixins module

1.11 SlicerDevelopmentToolboxUtils.widgets module

1.12 Module contents

CHAPTER 2

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