
example-sphinx Documentation

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Contents: Example of a module with a class and a function autodocumented by sphinx and readthedocs.

class `myexpackage.classmodule.myclass` (*val*)

Class holding a single member variable `x`.

Parameters `val` : float, mandatory

initial value of the instance variable `x`

Attributes

<code>var</code>	(float storing member value <code>x</code>)
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Methods

setvar (*x*)

set the value of the member variable `var`

Parameters `x` : float, mandatory

value to which `var` will be set

Returns `None`

square ()

Squares the value of the class attribute `var`

Parameters `None`

Returns `None`

`myexpackage.classmodule.myfunc` (*x*)

returns the square of the argument `x`.

Parameters `x` : float, mandatory

value that you want to square

Returns `xsquared`: float, desired square of `x`

Examples

```
>>> myfunc(2.0)
4.0
```

Added to check the building of documentation with two modules

`myexpackage.funcmodule.newfunc` (*x*)

returns the argument

Parameters `x` : float, mandatory

single argument `x` of the function

Returns `xvalue` : float, returns the argument `f` the function

Note: Yes, this is a stupid function.

Examples

```
>>> x = newfunc(2.)
>>> x * x
4.0
>>> newfunc(3.)
3.0
```

`myexpackage.funcmodule.readmatrix(fname, exampledata=True)`
reads the matrix in an ASCII file to a *np.ndarray*

Parameters **fname:** mandatory, string

filename for ASCII file containing the data

exampledata: bool, optional defaults to True

if true, implies that the file is in the exampledata directory

Returns **matrix** : *np.ndarray*

Examples

```
>>> import numpy as np
>>> d = readmatrix('smallmatrix.dat')
>>> max( abs (d[0] - np.array([3., 2., 1.]))) < 1.0e-4
True
```

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