
sphinx-exec-code

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spacemanspiff2007

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INSTALLATION AND CONFIGURATION

1.1 Installation

```
pip install sphinx-exec-code
```

To use this extension just add it to the `extensions` in your `conf.py`

```
extensions = [  
    'sphinx_exec_code',  
]
```

1.2 Configuration

The following configuration parameters are available:

Name	Type	Description
<code>exec_code_working_dir</code>	Path or str	The working directory where the code will be executed.
<code>exec_code_source_folders</code>	List of Path or str	Additional folders that will be added to PYTHONPATH. Use this to e.g. make imports available.
<code>exec_code_example_dir</code>	Path or str	The directory that is used to create the path to the example files. Defaults to the parent folder of the <code>conf.py</code> .
<code>exec_code_set_utf8_encoding</code>	True or False	True enforces utf-8 encoding (can fix encoding errors). Default is False except on Windows where it is True.

If it's a relative path it will be resolved relative to the parent folder of the `conf.py`

Example:

```
exec_code_working_dir = '..'  
exec_code_source_folders = ['../my_src']  
exec_code_example_dir = '.'
```

If you are unsure what the values are you can run Sphinx build in verbose mode with `-v -v`. The configured values are logged.

Log output for Example:

```
[exec-code] Working dir: C:\Python\sphinx-exec-code  
[exec-code] Source folders: C:\Python\sphinx-exec-code\my_src  
[exec-code] Example dir: C:\Python\sphinx-exec-code\doc  
[exec-code] Set utf8 encoding: True
```

2.1 Without options

```
.. exec_code::  
  
    print('Easy!')
```

Generated view

```
print('Easy!')
```

```
Easy!
```

2.2 Options

It's possible to further configure both the code block and the output block with the following options:

hide_code/hide_output:

Will hide the corresponding block

caption/caption_output

Will add a caption above the block

linenos/linenos_output

Will add line numbers

language/language_output:

Will add syntax highlighting for the specified language

The default for the code block is python, the default for the output block is plain text

Example:

```
.. exec_code::  
    :linenos:  
    :hide_output:  
    :caption: This is an important caption
```

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```
print('Easy!')
```

Generated view

This is an important caption

```
print('Easy!')
```

2.3 Code from files

It's possible to have code in example files with the `filename` option. The folder that is used to resolve to a file name can be *configured*.

Example:

```
.. exec_code::  
   :filename: file_example.py
```

Generated view

```
print('This is code from an example file')
```

```
This is code from an example file
```

2.4 Code Markers

It's possible to hide parts of the code (e.g. to setup a working example) and it's possible to skip part of the code execution. This is possible with the `#hide:[start|stop|toggle]` or `#skip:[start|stop|toggle]` marker in the code. Empty lines after a disabling marker will be ignored.

Spaces and dashes are ignored for the case insensitive marker detection so these are all the same:

```
#HIDE:START  
# hide: start  
# ----- hide: start -----  
# ----- hide: start -----
```


2.4.1 Hiding code parts

```
.. exec_code::

    # --- hide: start ---
    print('Setup!')
    #hide:toggle

    print('Easy!')

    # --- hide: start ---
    print('Hidden!')
    # --- hide: stop ---

    # Note the missing entries!
    print('Visible!')
```

Generated view (note the skipped empty lines after the stop and disabling toggle marker)

```
print('Easy!')

# Note the missing entries!
print('Visible!')
```

```
Setup!
Easy!
Hidden!
Visible!
```

2.4.2 Skipping code parts

```
.. exec_code::

    # --- skip: start ---
    print(f'1 / 0 = {1 / 0}')
    # --- skip: stop ---

    # --- hide: start ---
    print('1 / 0 = 0')
    # --- hide: stop ---
```

Generated view

```
print(f'1 / 0 = {1 / 0}')
```

```
1 / 0 = 0
```

With the combination of skip and hide it's possible to “simulate” every code.

INDICES AND TABLES

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- modindex
- search