
signac-dashboard Documentation

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Note: This is documentation for the **signac-dashboard** package, which is part of the **signac** framework. See [here](#) for a comprehensive introduction to the **signac** *framework*.

1.1 Installation

The recommended installation method for **signac-dashboard** is via [conda](#) or [pip](#). The software is tested for Python versions 3.6+. Its primary dependencies are [signac](#) and [flask](#).

1.1.1 Install with conda

You can install **signac-dashboard** via conda (available on the [conda-forge](#) channel), with:

```
$ conda install -c conda-forge signac-dashboard
```

All additional dependencies will be installed automatically. To upgrade the package, execute:

```
$ conda update signac-dashboard
```

1.1.2 Install with pip

To install the package with the package manager [pip](#), execute

```
$ pip install signac-dashboard --user
```

Note: It is highly recommended to install the package into the user space and not as superuser!

To upgrade the package, simply execute the same command with the `--upgrade` option.

```
$ pip install signac-dashboard --user --upgrade
```

1.1.3 Source Code Installation

Alternatively you can clone the [git repository](#) and execute the `setup.py` script to install the package.

```
git clone https://bitbucket.org/glotzer/signac-dashboard.git
cd signac-dashboard
git submodule update --init # This step is required!
python setup.py install --user
```

1.2 API Reference

This is the API for the **signac-dashboard** application.

1.2.1 Dashboard

```
class signac_dashboard.Dashboard (config={}, project=None, modules=[])
    Bases: object

    create_app (config={})

    create_assets ()

    classmethod decode_modules (json_modules, enabled_modules=None)

    classmethod encode_modules (modules, target='dict')

    encoded_modules

    get_all_jobs

    get_job_details (jobs)

    job_search

    job_sorter (job)

    job_subtitle (job)

    job_title (job)

    main ()
        Call this function to use the dashboard command line interface.

    prepare ()

    register_module_asset (asset)

    register_routes ()

    run (host='localhost', port=8888, *args, **kwargs)

    url (import_name, url_rules=[], import_file='signac_dashboard', **options)
```

1.2.2 Modules

```
class signac_dashboard.modules.ImageViewer (name='Image Viewer', context='JobContext',
                                             template='cards/image_viewer.html',
                                             img_globs=['*.png', '*.jpg', '*.gif'],
                                             **kwargs)
```

Bases: signac_dashboard.module.Module

get_cards (job)

```
class signac_dashboard.modules.VideoViewer (name='Video Viewer', context='JobContext',
                                             template='cards/video_viewer.html',
                                             video_globs=['*.mp4', '*.m4v'],
                                             preload='none', poster=None, **kwargs)
```

Bases: signac_dashboard.module.Module

get_cards (job)

```
class signac_dashboard.modules.StatepointList (name='Statepoint Parameters',
                                                context='JobContext',
                                                template='cards/statepoint_list.html',
                                                **kwargs)
```

Bases: signac_dashboard.module.Module

get_cards (job)

```
class signac_dashboard.modules.DocumentList (name='Job Document',
                                                context='JobContext',
                                                template='cards/document_list.html',
                                                max_chars=None, **kwargs)
```

Bases: signac_dashboard.module.Module

get_cards (job)

```
class signac_dashboard.modules.FileList (name='File List', context='JobContext',
                                           template='cards/file_list.html',
                                           prefix_jobid=True,
                                           **kwargs)
```

Bases: signac_dashboard.module.Module

download_name (job, filename)

get_cards (job)

```
class signac_dashboard.modules.Notes (name='Notes', context='JobContext',
                                       template='cards/notes.html', **kwargs)
```

Bases: signac_dashboard.module.Module

get_cards (job)

register_assets (dashboard)

register_routes (dashboard)

1.3 Support and Development

To get help using the **signac-dashboard** package, either send an email to signac-support@umich.edu or join the [signac gitter chatroom](#).

The **signac-dashboard** package is hosted on [Bitbucket](#) and licensed under the open-source BSD 3-Clause license. Please use the [repository's issue tracker](#) to report bugs or request new features.

CHAPTER 2

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