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# **nblibrarian Documentation**

***Release 0.0.1***

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Tools for maintaining a library of Jupyter notebooks that are sourced from a “warehouse” of notebooks (another github repository).



# CHAPTER 1

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## Installing

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You can install nblibrarian from pypi

```
pip install nblibrarian
```

or from source

```
git clone https://github.com/lheagy/nblibrarian
cd nblibrarian
pip install -e .
```





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## Configuring nblibrarian

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There are two files that you need in order to configure *nblibrarian*:

- `.library-config.yml`
- `.jupyter-include`

### 2.1 `.library-config.yml`

The `.library-config.yml` file specifies details of the source repository and if you would like to include the `environment.yml` file and / or the `requirements.txt` file. (We recommend you download at least one of these). The structure of the `.library-config.yml` is as follows:

```
# information about the source library
source:
  github:
    user: geoscixyz # github username or organization
    repo: geosci-labs # github repository
    branch: master # [optional] branch to fetch material from
    directory: notebooks # [optional] directory where the notebooks are in the
    ↪ repository - including it will speed up the search for the desired notebooks

# setup options for the library
setup:
  environment: environment.yml # [optional] include the environment.yml from the
  ↪ source
  requirements: requirements.txt # [optional] include the requirements.txt file
```

### 2.2 `.jupyter-include`

The `.jupyter-include` file describes which notebooks you would like included in your library. It follows the same syntax as a `.gitignore` file.

```
# this is a comment

# dc resistivity
notebooks/dcip/DCIP_2D_Overburden_Pseudosections.ipynb # you can specify the full_
↳path
notebooks/dcip/DC_Building_Pseudosections # also without the .ipynb extension
DC_Cylinder_2D.ipynb # or just specify the notebook name

# em
/em/EM_Pipeline.ipynb
em/EM_ThreeLoopModel.ipynb
em/*Sphere*.ipynb # includes all notebooks in a directory called em with "Sphere" in_
↳the title

# magnetics
mag/*.ipynb # includes all notebooks in the mag directory

# inversion
inversion # includes notebooks in the inversion directory
```

## CHAPTER 3

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### Usage

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Once you have specified the *.library-config.yml* and the *.jupyter-include*, you can run *nblibrarian* from the command line to download the files you specified.

```
nblibrarian
```

There are also a few options, to run in *verbose* mode use

```
nblibrarian -v
```

If you ever want to update your library, you can always alter the *.jupyter-include* and re-run *nblibrarian*. By default, it will not overwrite your current notebooks. If you do want it to overwrite them, then run

```
nblibrarian --overwrite=True
```

If you would like to specify the path to the jupyter include and config files (for example if you put them in a different directory), then use

```
nblibrarian --config=.library-config.yml --jupyter-include=.jupyter-include
```



## CHAPTER 4

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### Issues

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If you run into any bugs, questions or problems using *nbibliarian*, please [create an issue](#) on github.



## CHAPTER 5

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### License

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