6 months into my 1st software development journey

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Data Science Lab (DSL) - University of Bern

About me









UNIVERSITÄT BERN







Topics



Build the GUI









Find your Community!!!







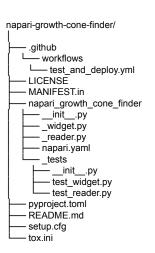




Find your Community!!!







Tools





Summer Trainings

The Data Science Lab offers every summer in June and September four weeks of trainings in various areas of programming, computation, and digital skills in general. The courses are available to all university members. Click on the links below to learn more about each course and register via Ilias (don't forget to log in)!

2023-06-05 Introduction to Git and GitHub (09:00-17:00)

2023-06-06 Tools for Python: GitHub, Jupyter and conda (09:00-17:00)

2023-06-07 Create your personal Website (09:00-17:00)

2023-06-08 Introduction to Linux for users (09:00-17:00)

2023-06-09 Advanced Python (09:00-17:00)

2023-06-12 High Performance Computing (HPC) on UBELIX (09:00-12:30)

2023-06-13 Advanced HPC Topics (09:00-12:30)

2023-06-14 Data Science and ML with MATLAB (09:00-17:00)

2023-06-15 Machine Learning with scikit-learn (09:00-17:00)

2023-06-16 Deep Learning with MATLAB (09:00-17:00)



Data Science Lab - Unibe





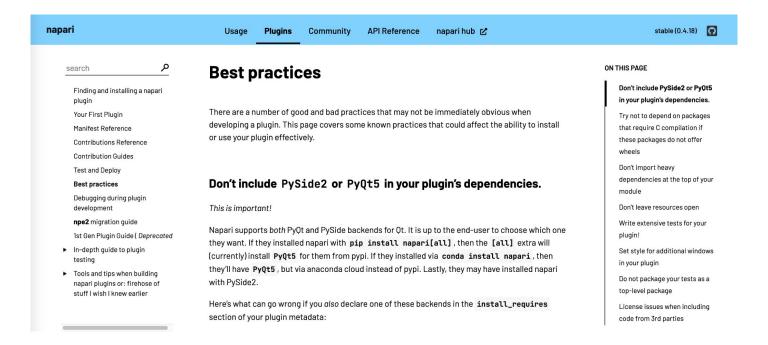
- Visual
- Interactivity
- Workflow



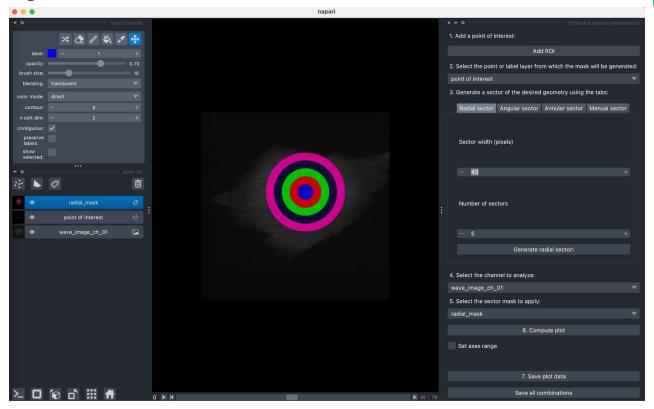




Copy your Community!!!



My GUI











https://jupyterbook.org/en/stable/publish/qh-pages.html



```
NAPARI-ROIDYNAMICS

∨ .github/workflows

 ! book.vml
 ! test_and_deploy.yml
> .napari-hub
∨ docs

√ images

 anaconda_Prompt.png
 angular_missing.png
 angular_sector.png
  circular_sector.png
  manual_rectangle_cut.png
  manual rectangle.png
 a napari-roidynamics_logo.png
 napari-roidynamics_shapes.png
 point_layer.png
 radial_sector.png
  set axes range.png
 synthetic radial.gif
 applications.ipynb
 instructions.ipynb
! config.yml
! _toc.yml
gitignore
! .pre-commit-config.yaml
R LICENSE
■ MANIFEST.in
pyproject.toml

 README.md

setup.cfg
≣ tox.ini
```

```
You can install Jupyter Book via pip:

pip install -U jupyter-book

or via conda-forge:

conda install -c conda-forge jupyter-book
```

- This will install everything you need to build a Jupyter Book locally.
 - **book.yml** in github/workflows
 - folder containing images
 - <u>Jupyter notebooks(.ipynb)</u> or <u>markdowns(.md)</u>
 - \rightarrow will become sections of the documentation website
 - _config.yml
 - _toc.yml



```
NAPARI-ROIDYNAMICS

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R LICENSE
■ MANIFEST.in
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① README.md
setup.cfg
≣ tox.ini
```

```
book.yml ×
github > workflows > ! book.yml > ..
     name: deploy-book
           name: github-pages
           - name: Checkout repo
             uses: actions/checkout@v3
           - name: Set up Python 3.9
             uses: actions/setup-python@v4
           - name: Install dependencies
           - name: Upload artifact
```

```
! _config.yml ×

! _config.yml >  title
    Jekyll = Jekyll static site generator config file (jekyll.json)

1    title: _napari=roidynamics
2    author: Ana Stojiljkovic and Guillaume Witz
3    logo: docs/images/napari=roidynamics_logo.png

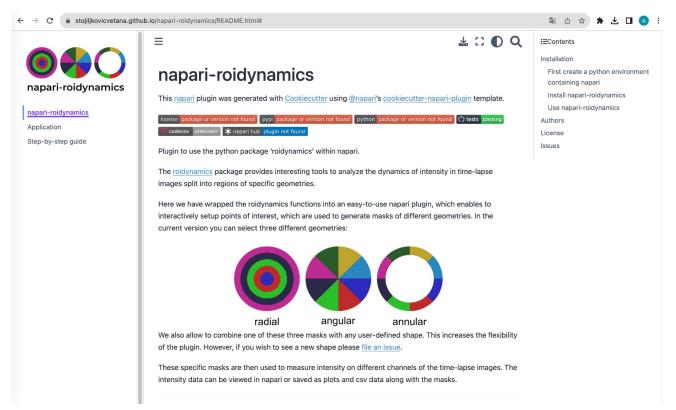
4

5    execute:
6    execute_notebooks: 'off'

7

8    sphinx:
9    config:
10    html_extra_path: ['.','docs/images']
```





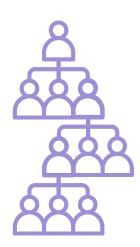




Ask your Community!!!



Users Developers





Keep track of the feedback



