Python for PhD

Kamila Zdybał

Université libre de Bruxelles, kamila.zdybal@ulb.ac.be
camillejr.github.io/science-docs, kamila.zdybal@gmail.com

Preface

This is a collection of Python tips to boost your everyday PhD life.

This document is still in preparation. Please feel free to contact me with any suggestions, corrections or comments.

Contents

1 Numpy

1.1 Auto-populating arrays

```python
import numpy as np

# Range with a given step:
np.arange(start, stop, step)

# Range with a given number of elements:
np.linspace(start, stop, num_points)

# Distribution from [0,1] of size rows x cols:
np.random.rand(rows, cols)
```

1.2 Distributions

2 Inputing external code

```python
print("Hello world!")
```

3 Scientific computing cheatsheet

3.1 Noise generation

numpy.random.normal