Python for PhD

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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