

Python 1

Introduction to Python

Alan Wang

BII-SDAD

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BIOCOMPLEXITY INSTITUTE

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What is Python

Wikipedia:

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation via the off-side rule.

What is Python

Alan:

*Python is a popular programming language with a low barrier to entry, that can potentially be pretty **fast***

Set Up Python

- Download Python
- Install an Integrated Development Environment (IDE)
- Follow a style guide

Hello World!

```
print('Hello world!')  
# Good bye, cruel world
```

Styling

- 1 Look up a [styling guide](#) for your IDE
- 2 Set up a style
- 3 Format on save

Alan's personal framework

```
# If it is not tested, it is wrong  
if __name__ == '__main__':  
    # run your tests...
```


Python Virtual Environment

```
python3 -m venv .venv # install a virtual environment
source .venv/bin/activate # or . .venv/Scripts/Activate on
↪ windows
pip install -r requirements.txt
```

Virtual environments are ways to containerize your dependencies, so you do not have conflicts between projects and modules

Exercise

- https://github.com/uva-bi-sdad/dspg23_explore

```
import pandas as pd
pd.__version__
```