

Python as a second language

Introduction to Python

Thank You


- Geert Jan Bex
 - <https://github.com/gjbex/training-material/tree/master/Python>
 - <https://creativecommons.org/licenses/by/4.0/deed.ast#>
- Slides + demo-files
 - https://franklbvp.github.io/python_intro/

What will be covered in this session?

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Scope

- Getting to know the very basics:
 - How to run basic code in Python.
 - What are the basic programming blocks in Python?
- These sessions won't teach you how to program, how to find algorithms, ... that's beyond the scope
 - No idea about programming, consider completing
 - CodeAcademy
<https://www.codecademy.com/catalog/language/python>
 - LearnPython
<https://www.learnpython.org/>

- Taken from GJ Bex 

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Content

- Computing Environment
 - Command line
 - Spyder
 - Notebook
 - *Slides: Python_intro-settingTheScene*

Content

- Basic syntax
 - *Slides: Python_intro-programming-syntax*
- Variables
- Operators
 - *Slides: Python_intro-programming-variables_operators*
- Built-in atomic Data types
 - *Slides: Python_intro-programming-builtin_datatypes*
- Data structures
 - Lists
 - Tuples
 - Sets
 - Dictionaries
 - *Slides: Python_intro-programming-datastructures*

Content

- Flow control
 - Basic flow control commands
 - *Slides: Python_intro-programming-control_flow*
 - Functions
 - *Slides: Python_intro-programming-functions*
- IO
 - *Slides: Python_intro-programming-io*

Using the demo files

- Using the demo notebooks
- Download the zip file
- Unzip the file a local disk (Windows ex. in c:\Temp)
- Notebook
 - Start Anaconda powershell
 - 'cd' to the folder with ipynb files
 - `jupyter notebook`
- `py` source files
 - 'cd' to the folder with py files
 - Start editor / IDE
 - Run from command line