



Utrecht
Bioinformatics
Center

Welcome

Day 1 – Introduction to Python



Essentials

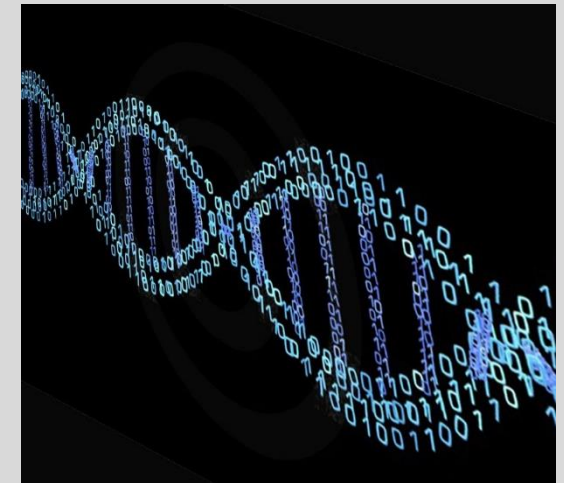
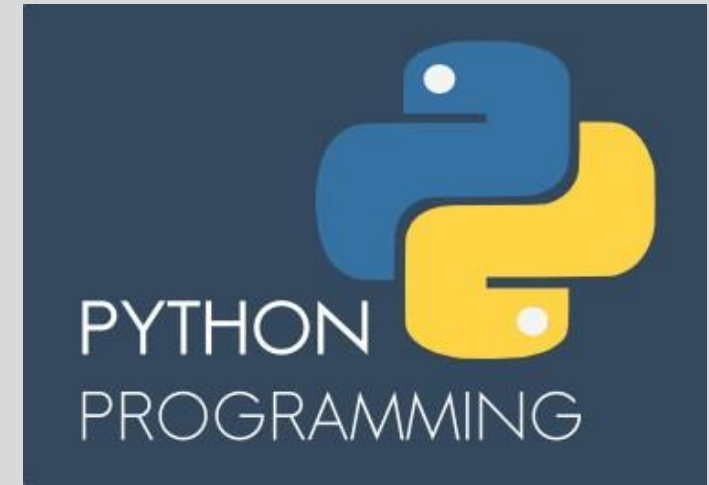
- It is a hands on/interactive course!, **be active and CREATIVE**.

Assignment

- The Assignment for a grade will be on **Friday Feb 21st from 12:00 – 15:00** and consists of a mixture of questions and scripting, it includes you to write/fix code. [[Be there at 11:30!]]
- **It is a lot!!** Even though it is open book, there will **not** be enough time to look up everything → prepare and practice.
- You should BYOD for the assignment and be able to work in a Jupyter notebook.
- Even if your code doesn't work → explain what you want to do, so →
- **you can get points for the parts that are correct.**

Objectives

- Working with variables, lists and dictionaries
- Use and design functions
- Making figures
- Open/close files and obtain the data
- Be self-sufficient, using anaconda, jupyter and python
- **Combining the above** and practice the “logic” of programming/scripting



Schedule

Day	Date	Time	Topic
Mo	10/2	9:30-15:00	Jupyter, Variables, Loops
Tu	11/2	9:30-15:00	Lists, Dictionaries
We	12/2	9:30-15:00	Functions, Modules
Th	13/2	9:30-15:00	Plotting, Regex
Fr	14/2	9:00-17:00	<i>Self-study</i>
Mo	17/2	9:30-15:00	File Handling
Tu	18/2	9:00-17:00	<i>Self-study</i>
We	19/2	9:30-15:00	Recap, Questions
Th	20/2	9:00-17:00	<i>Self-study</i>
Fr	21/2	11:30-16:00	Final Assignment

- Lunch break
12:30 - 13:00

- Make sure you can [apply the basics](#) of each topic as you need all to do the assignment. → Being [able to combine](#) the different [topics](#) is the aim!

Practical matters

- [Bringing Your Own Device. \(BYOD\)](#)
- All exercises and slides are available via github.
- You need to install Python and Jupyter (via Anaconda).
- *We have no time to help you with installation, please follow the provided instructions.*
- It is a hands on/interactive course!, **be active and creative**.
- Help your neighbors!