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Lessons on Data Analysis from CERN

Lecture 4

Overview of Computing Principles

Info

First Test on the 22nd of October

- 22 Multiple Choice Questions
- 1 Bonus Open Question
- Topics from Lectures and Seminars
 - Main Logic and Principles of Data Analysis
 - Python Basics

Crash Course on Main Principles Computing

Blackboard exercise

Interlude to CERN Computing ...

Python Modules

- A file containing Python code related to a specific task is called a module
- Modules can be imported into other modules or scripts
- It is a good idea to have granularity (modularity) in code, separating modules / scripts and the rest

Python Packages

- A package is a collection of modules related to the same task or domain
- Packages are available in the Python Package Index (PyPI)
- Packages can be easily installed via CLI using `pip`
- It is not difficult to create your own package

Python Libraries

- A library is a collection of packages and modules
- One of the strengths of python is its vast library ecosystem or powerful specialized libraries

