COMPSCI367 2023 S2

Tutorial - Week 1

Getting ready for the course

For the first assignment in this course we will be using the lates stable version of python - 3.11.4. If you have already installed python or you know how to do it, please skip the instructions. This part aims at helping those experiencing problems with python installation.

Using an Integrated Development Environment (IDE) can offer several advantages when working with Python including debugging tools. I don't have any preferences regarding IDE you use for the assignment. I use PyCharm because it looks nice, has great support and free educational license. You are free to use whatever IDE you want (even a simple text editor) - your choice.

You will also need to install Jupyter Notebook - a popular tool for interactive computing and data analysis. It provides a web-based interface where you can write and run Python code, view and visualise data, and document your analysis using Markdown.

How to install python 3.11.4

- Open a web browser and go to the official Python website: https://www.python.org/downloads/ windows/
- Find "Stable Releases" section, locate Python3.11.4 version, and click on the "Download Windows Installer" link. Ensure that you choose the appropriate version based on your system architecture (32-bit or 64-bit).
- Once the installer file is downloaded, open it by double-clicking on it.
- Follow the instruction of the installer. You may be prompted to enter your administrator password. Provide the password and click on the "Install Software" button.
- Optional step: Ensure that the checkbox labeled "Add Python 3.11 to PATH" is checked. This
 option will add Python to the system PATH, making it easier to run Python scripts from the
 command prompt. Alternatively you can add the path to the environment variables later.
- Once the installation is complete, you can check the python version by typing in cmd:

```
python3 --version
```

How to install Jupyter Notebook

You python installer should come with 'pip3' - a package management system used to install and manage software packages written in Python. If not - check out the next section.

- To install Jupiter Notebook you can simply type pip3 install jupyter in the terminal.
- To test it you can type <code>jupyter notebook</code> in the cmd and it will automatically open the web interface in the default browser.

You can find more info, installation guide, etc. on the website: https://docs.jupyter.org/en/latest/

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How to install pip3

Follow the instruction on the website: https://pip.pypa.io/en/stable/installation/#get-pip-py

How to install PyCharm IDE

You can get a license here: https://www.jetbrains.com/community/education/#students. The installation is very straightforward - create an account, download PyCharm installer, follow the installation instructions.

Lecturer: Anna Trofimova