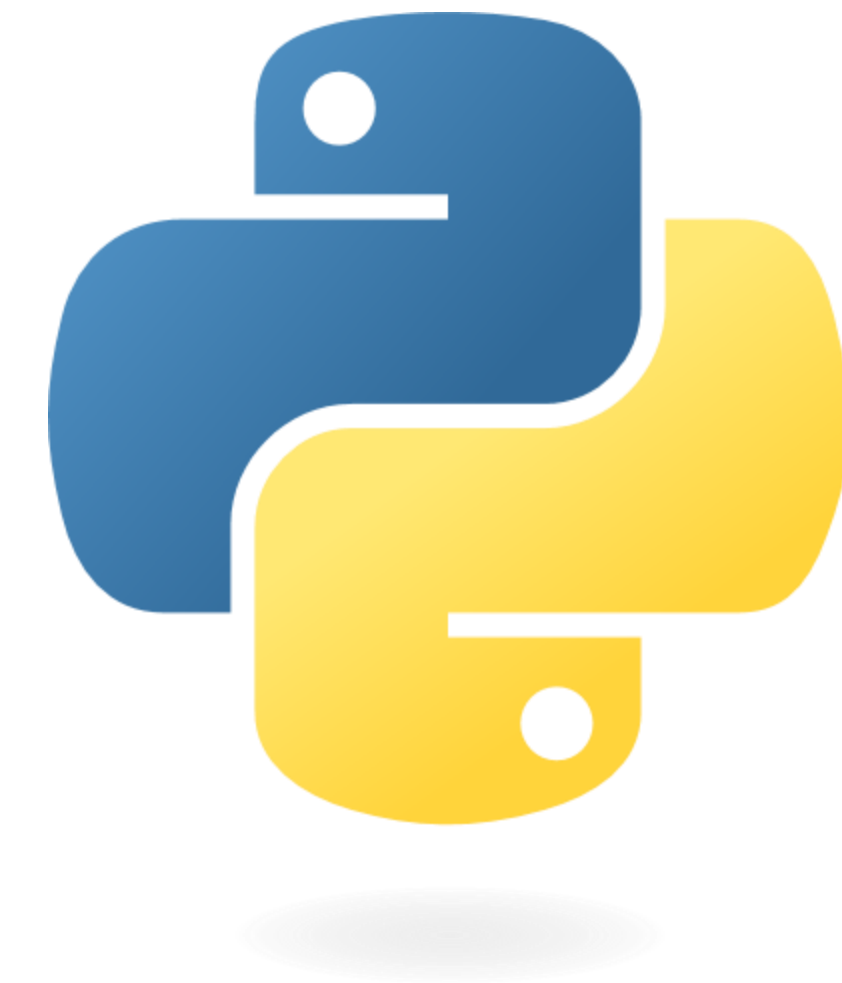


Thilo Leitzbach, M.Sc. | Chair of Derivatives and Financial Engineering

Introduction to Python



Faculty of Economics and Business Administration

Winter Semester 25/26

Contact: thilo.leitzbach@gmail.com

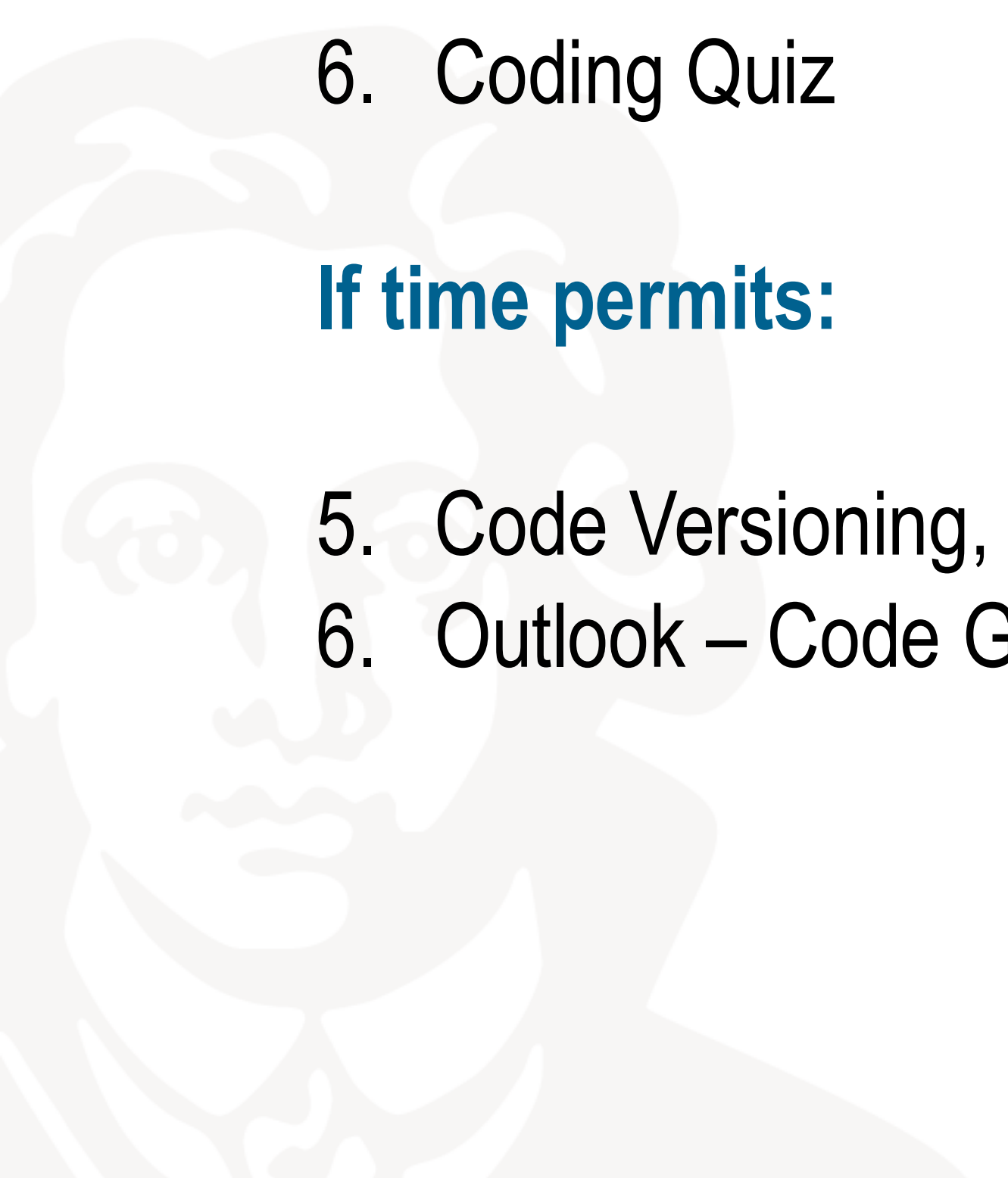


Agenda | 2h Session

1. Prior Experience & Expectations
2. Your Coding Environment
3. Basic Python Concepts
5. Hands-On Session
6. Coding Quiz

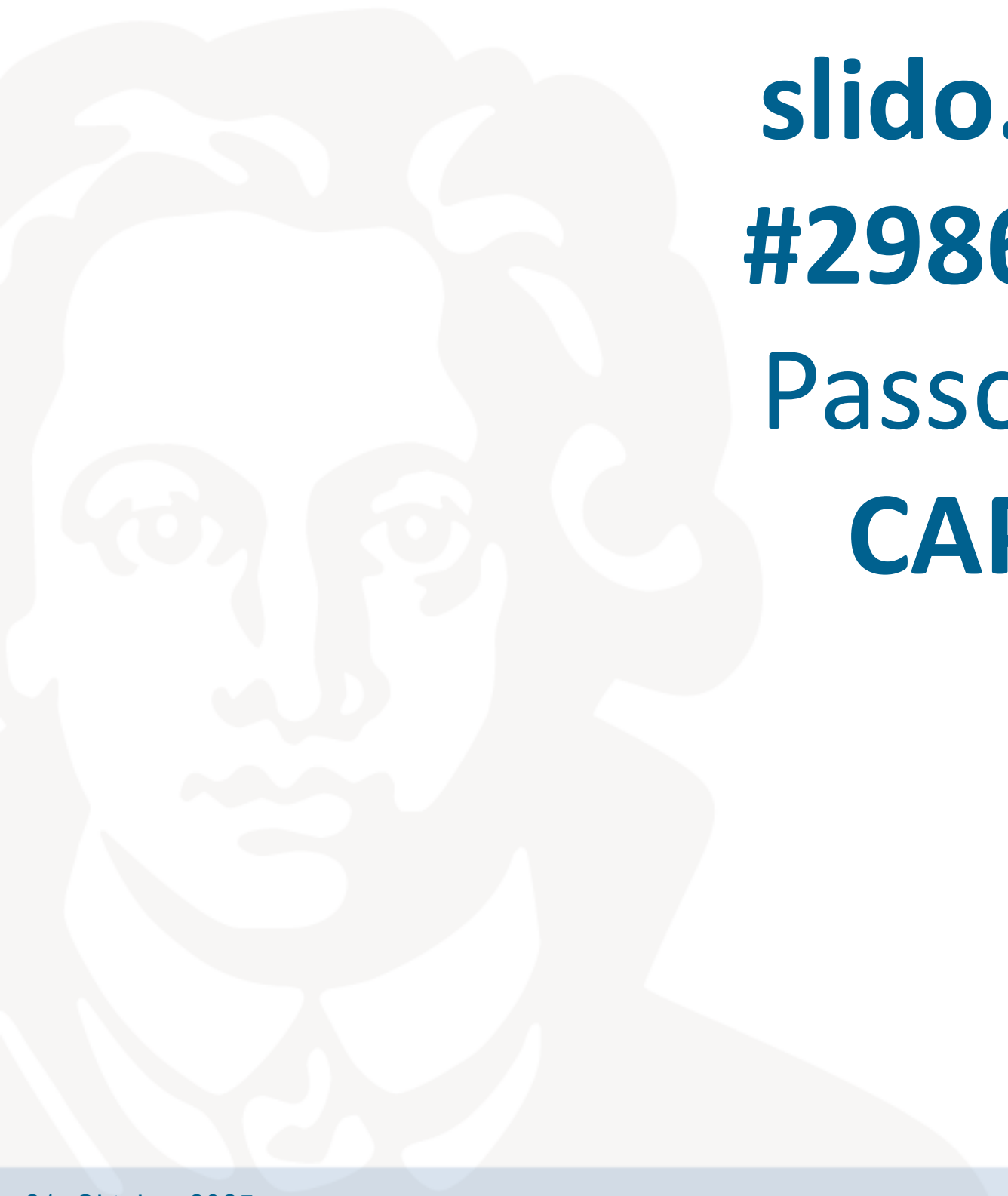
If time permits:

5. Code Versioning, Open Source, and Scientific Programming
6. Outlook – Code Generation and AI



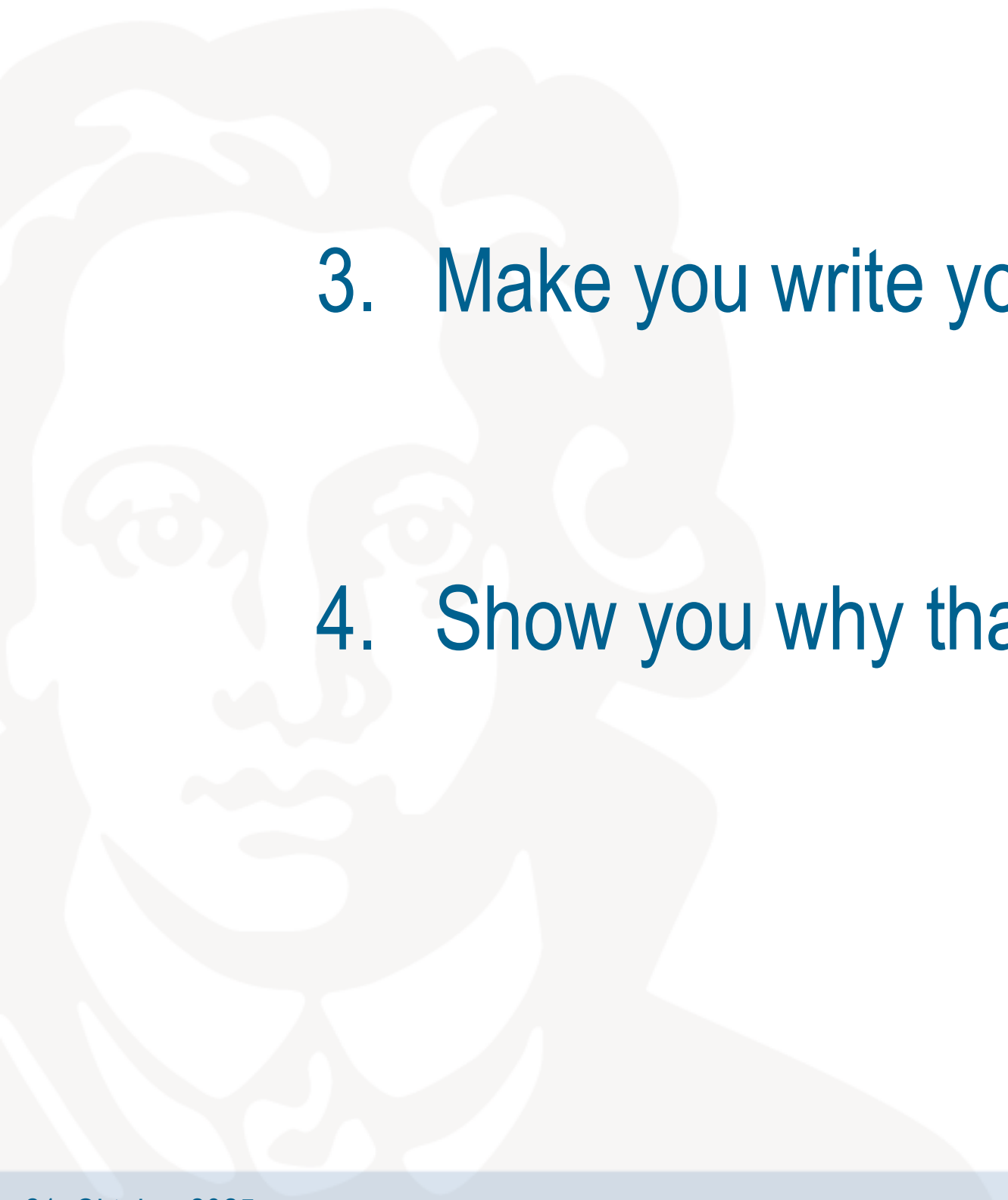
Your Experience and Expectations

Join at
slido.com
#2986 160
Passcode:
CAPM



What are my objectives for this Session?

1. Reduce or eliminate any potential anxiety you might have regarding Programming.
2. Introduce you to many basic Python building blocks in a short time.
3. Make you write your (first) own lines.
4. Show you why that is useful and exciting.



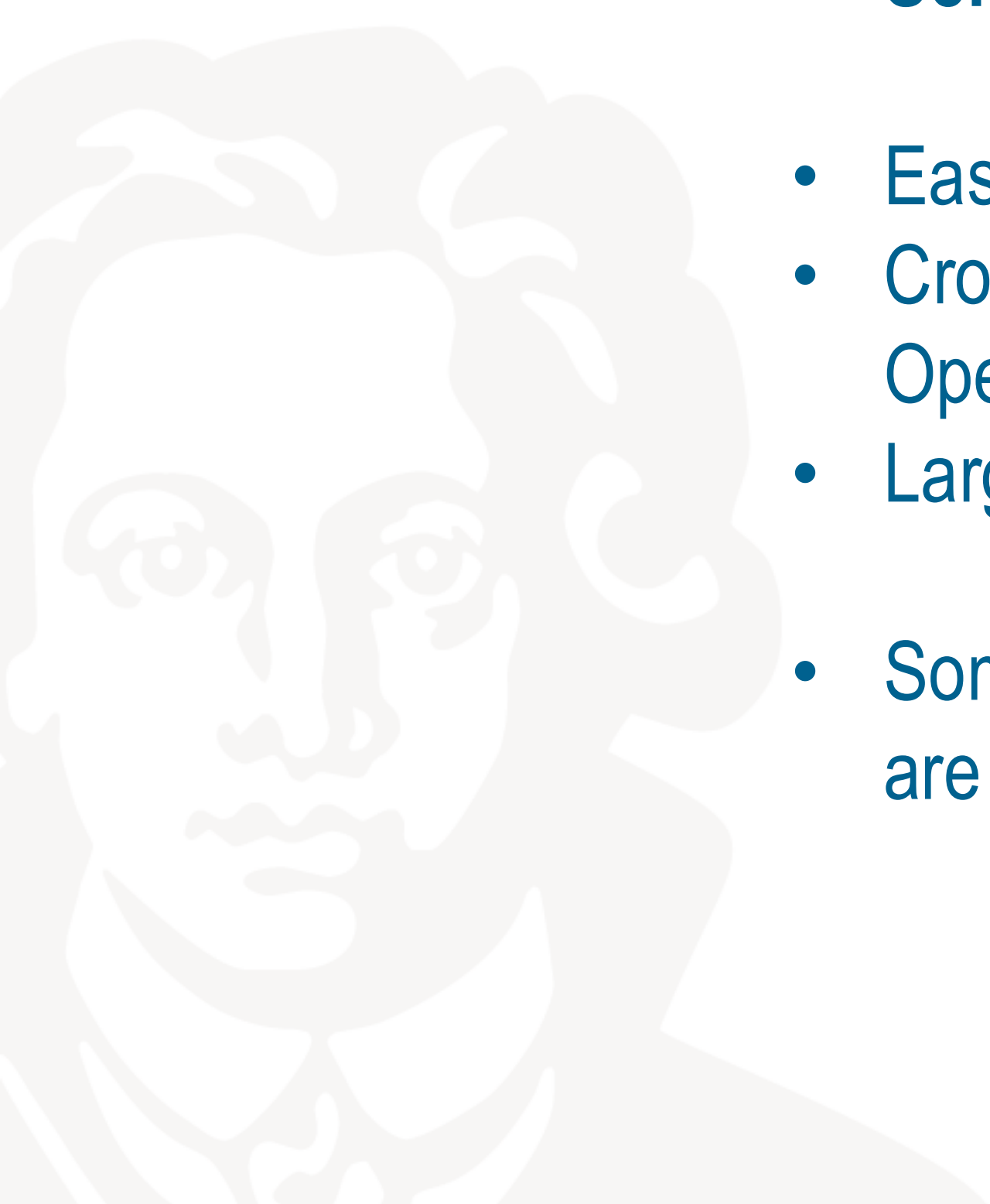
Why Python?

1st / most popular programming language for beginners learning to code*

- The “go-to” programming language for **Data Science** and **AI development**
- Easy to learn
- Cross-Platform (linux, windows, mac) and Open Source
- Large community and library ecosystem
- Some of your favorite applications’ backends are built with it



NETFLIX

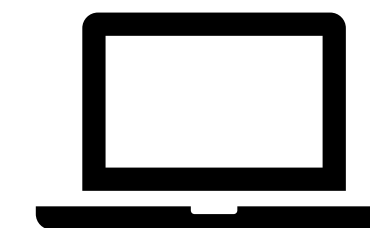


Your Coding Environment

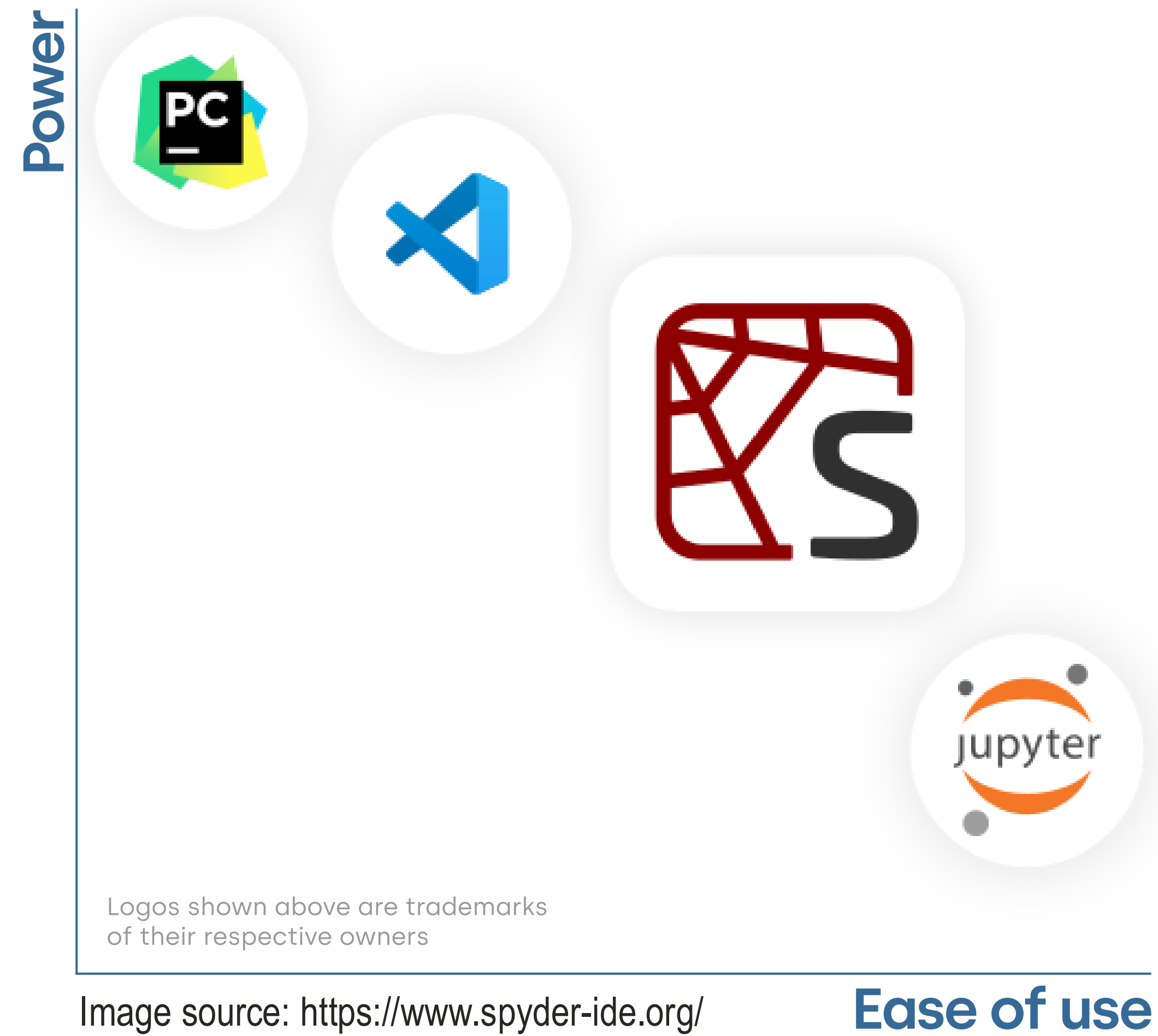
Basic requirements for using or learning *any* language:

Writing code + running code

IDE + **Language Distribution** + **Hardware**

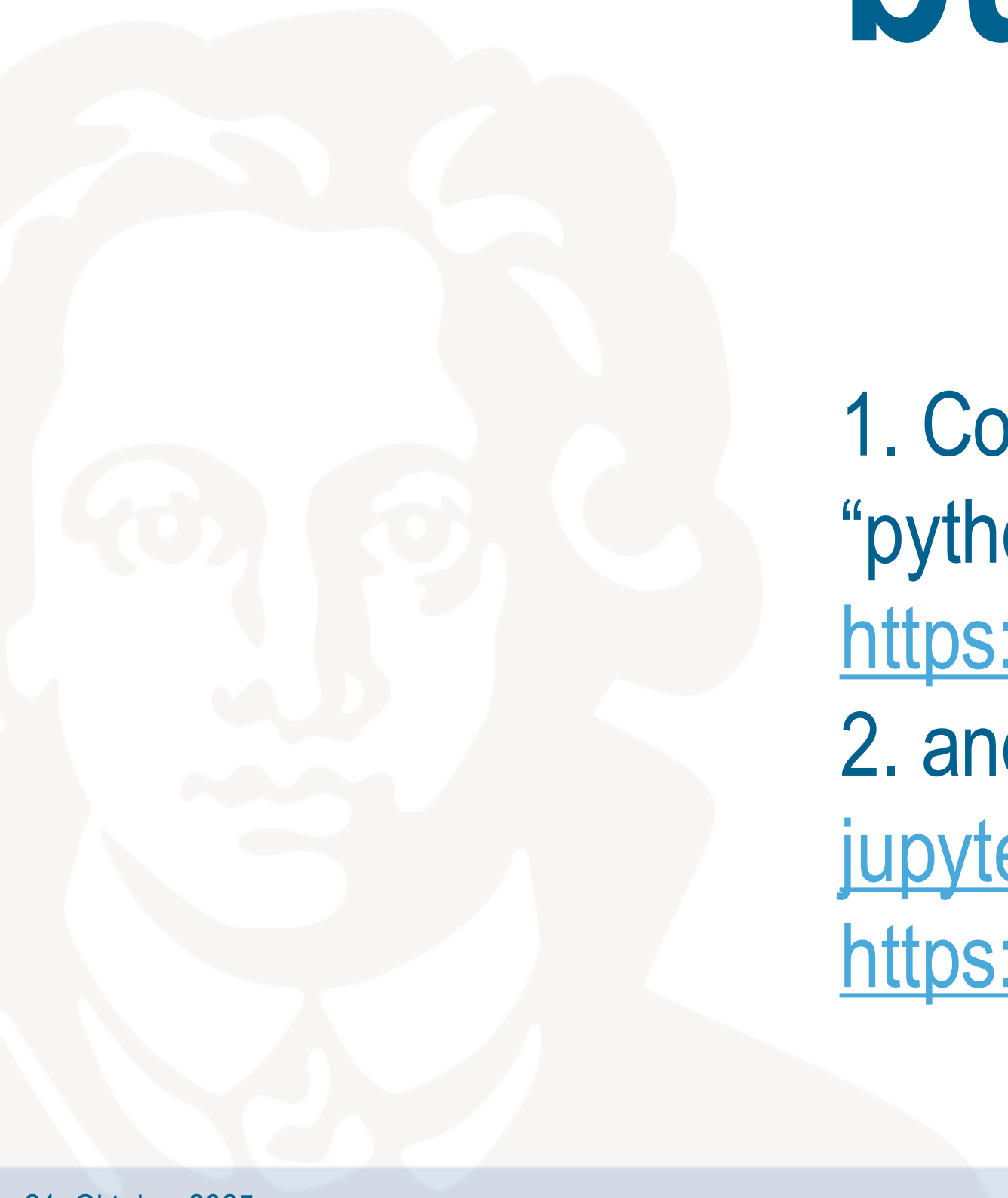


IDE Comparison | Python for Data Science



Start basic, but do start!

1. Copy the notebook
“python_for_finance_intro.ipynb” from
https://github.com/TLeitzbach/py_intro
2. and upload to <https://jupyter.org/try-jupyter/tree/> or
<https://colab.research.google.com/>





- [Quantitative Finance Exchange](#)



- [Enhancements: Pull-Request #18977 for SciPy](#)
- [Bugs: Pull-Request #19025 for SciPy](#)
- [Co-authoring SciPy Release 1.12](#)

Example of a small open source, scientific programming contribution in Python using git and Github.



Questions?



Images

1. Python logo, courtesy of <https://www.python.org/community/logos/>

