PAOLO PERROTTA

B3844 - PYTHON FOR BUSINESS LAB

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

ABOUT THIS COURSE

- **5 lessons, 3 hours each (with breaks)**
- **My mail:** `paolo.perrotta2@unibo.it`
- **Please subscribe to the course on** `https://virtuale.unibo.it`
- **Calendar, program, etc.:** `https://tinyurl.com/unibo-b3844`
- **There will be problems**
- **Feedback welcome**

ABOUT THE EXAM

- First session: October 30th, 2023
- Second session: currently set at January 16th, 2024
- You'll probably need to exercise at home

TWO LINKS TO SAVE

- **The course site:** `https://tinyurl.com/unibo-b3844`
- **The notebooks repository:** `https://github.com/nusco/python-unibo/`

ABOUT ME

- **Programmer, author, teacher**

ABOUT YOU

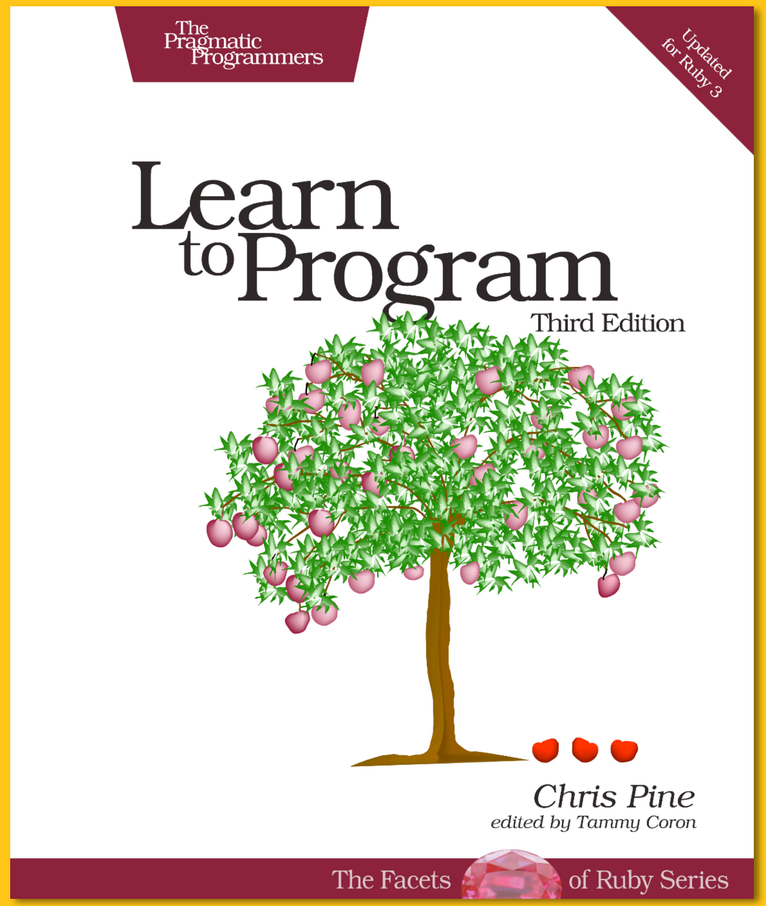
- You don’t need to know anything about programming
- You do need to feel confident using a computer

CHECK UP YOUR SYSTEM

5’

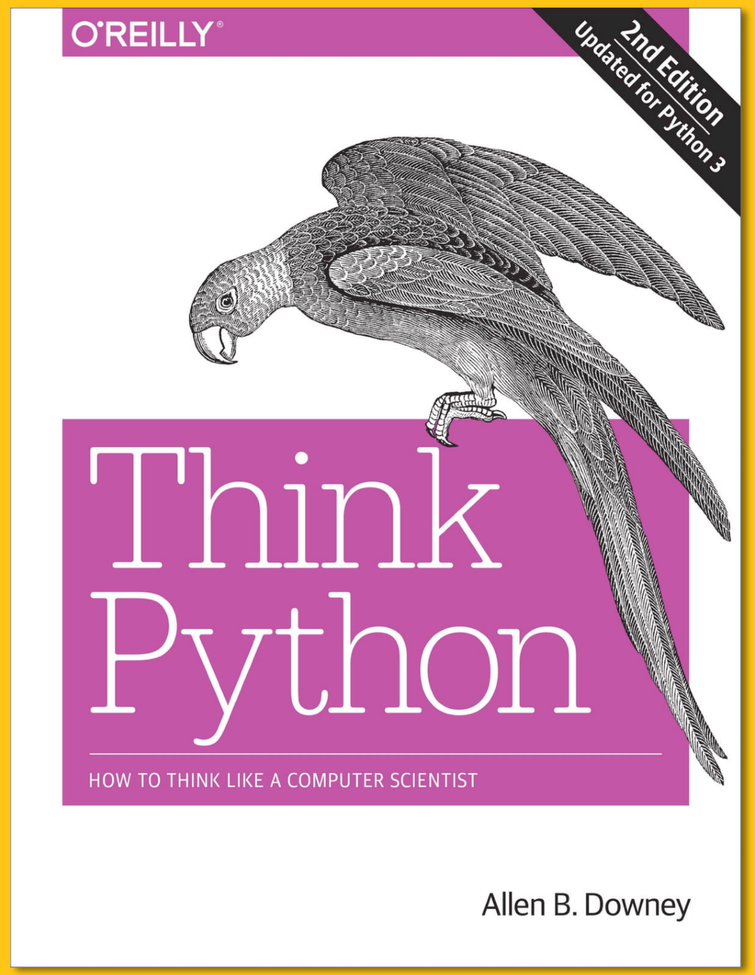
- **Log in to your computer**
- **Launch the Anaconda prompt**
- `python --version`

THE “STORYLINE”



(DON’T BUY IT!)

AN (OPTIONAL) TEXTBOOK



ABOUT THE TEXTBOOKS

- You can just use online Python resources
- If you want a book, download “Think Python” for free
- If you want a dead trees book, buy “Think Python” on paper
- If you want a generic programming book (*not* Python), check out “Learn to Program”

HOW WE'LL WORK

- Listen
- Follow along
- Complete activities
- Help each other
- Ask questions
- Exercise at home

QUESTIONS?

LOG IN TO YOUR GOOGLE ACCOUNT

 5’

- Create it if you don’t have one
- Otherwise be ready to help others
- Remember to log out at the end of the lesson

INTRODUCTION: PROGRAMMING AND PYTHON

WHY DO YOU WANT TO LEARN PYTHON?

RUNNING PYTHON

- The REPL
- “Lightweight” tools
- Integrated Development Environments
- Computational notebooks

NOTEBOOK: EXAMPLE NOTEBOOK

10’

- **Open** `https://github.com/nusco/python-unibo/`
- **Run through the “Example Notebook” notebook**

“PROGRAMMING”

- What programming is about
- “Scripts”
- Large projects
- What “Python for Business” means

PRINTING TO THE SCREEN

- In a program
- In the REPL
- In a notebook

1. NUMERIC TYPES

INTS AND FLOATS

- What they are
- Conventions
- When to use floats
- When *not* to use floats

SIMPLE ARITHMETICS

- The basic operators
- Precedence

NOTEBOOK: NUMERIC TYPES

15’

- **Open** `https://github.com/nusco/python-unibo/`
- **Run through the “Numeric Types” notebook**

2. STRINGS

STRINGS

- What strings are
- Escaping
- Concatenation and repetition

NOTEBOOK: STRINGS

10’

- **Open** `https://github.com/nusco/python-unibo/`
- **Run through the “Strings” notebook**

QUESTIONS?