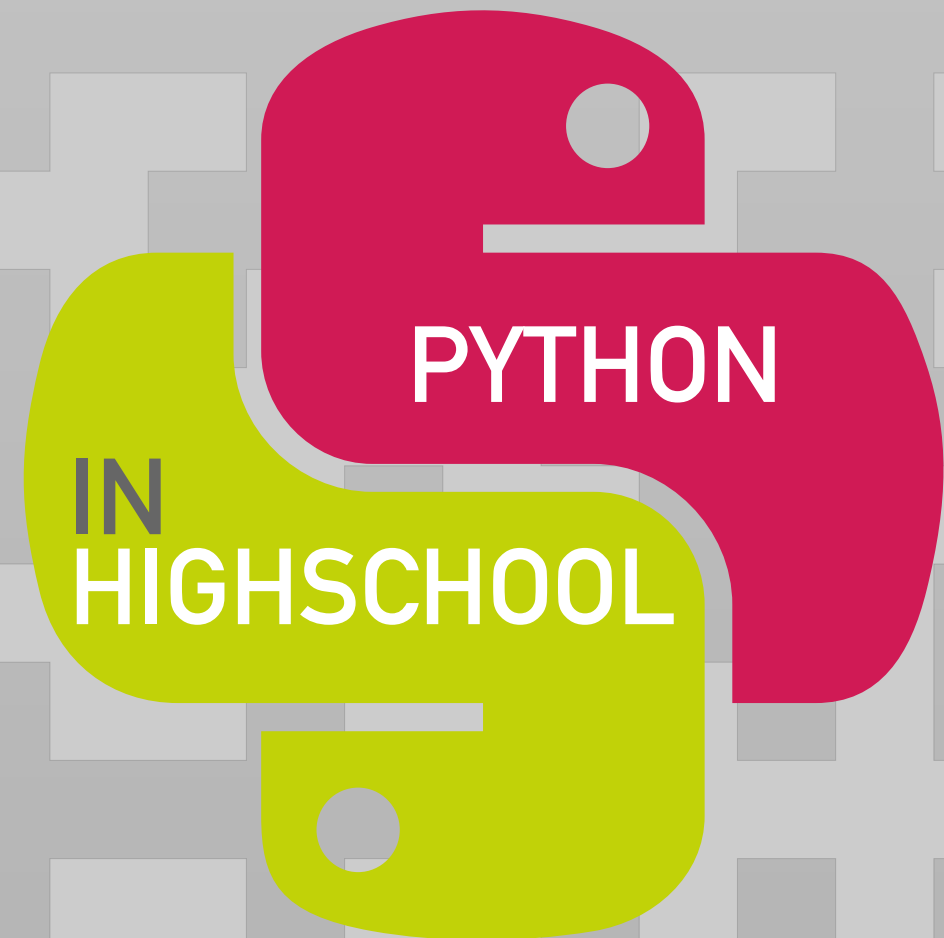


*Python* is the ideal language to learn programming. It is a powerful language that will immerse you in the world of algorithms.

This book guides you step by step through original mathematical and computer activities adapted to high school. It is complemented by online resources: all the *Python* codes and colourful chapters. You have everything you need to succeed!

- Hello world!
- Turtle (Scratch with Python)
- If ... then ...
- Functions
- Arithmetic – While loop – I
- Strings – Analysis of a text
- Lists I
- Statistics – Data visualization
- Files
- Arithmetic – While loop – II
- Binary I
- Lists II
- Binary II
- Probabilities – Parrondo's paradox
- Find and replace
- Polish calculator – Stacks
- Text viewer – Markdown
- L-systems
- Dynamic images
- Game of life
- Ramsey graphs and combinatorics
- Bitcoin
- Random blocks

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Algorithms and Mathematics

