

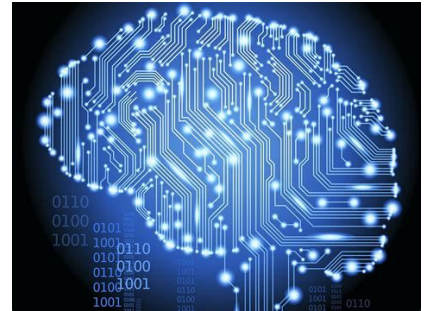
Intro to Python

By LadueCS

What is computer science?

Computer science is the science of telling a computer how to do a certain task.

CS is a **very vast subject**, encompassing topics such as algorithms, machine learning, computer engineering, computer graphics, and much more!



What is a programming language?

Like human languages, there are many different **programming languages** we can use to communicate with the computer.

Some common ones are:

- **Python:** A simple, elegant language with a large variety of uses
- **JavaScript:** the language that powers the web
- **Java:** A language useful for writing apps



What is Python?



- Python was created by Guido van Rossum and first released in 1991
- Named after TV show Monty Python, not the snake
- Designed to be **simple and readable**
- Python has a **huge library** of code for many tasks
- One of the **top three** most popular languages



What we're going to be doing

We are going to be making a **fun tic-tac-toe game** using

Python to learn computer science over the next few weeks!

Later on, we will branch off into other CS topics such as web design and video game development.

Python topics

- Input / output
- Variables
- Operators
- If / else
- Loops
- Functions
- Data types
- Using libraries

Questions?



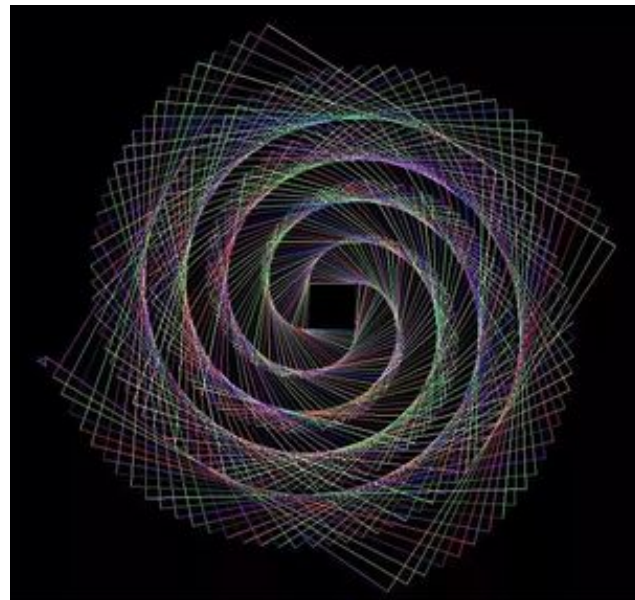
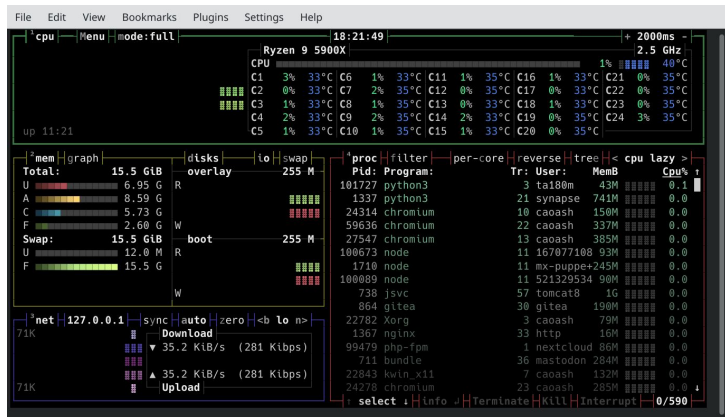
Everyday apps that use Python

- Netflix
- Spotify
- Dropbox
- Reddit
- Uber
- Pinterest
- Instagram
- YouTube



Cool Python things

- [2048 in Python](#)
- [Distinguishing between cats and dogs](#)
- [bpytop system monitor in Python](#)



Good Python Resources

- <https://codingbat.com/python>
- <https://www.learnpython.org/>
- <https://wiki.python.org/moin/BeginnersGuide/NonProgrammers>
s (lots of good tutorials)
- <https://docs.python.org/3/tutorial/index.html> (advanced)

Collaborative editing

<https://repl.it/>

- Similar to Google Docs
- You need to make an account

<https://calc.exozy.me/>

- Very powerful online editor
- Create account with secret token “qNVf3hTTGdoXU1fG”