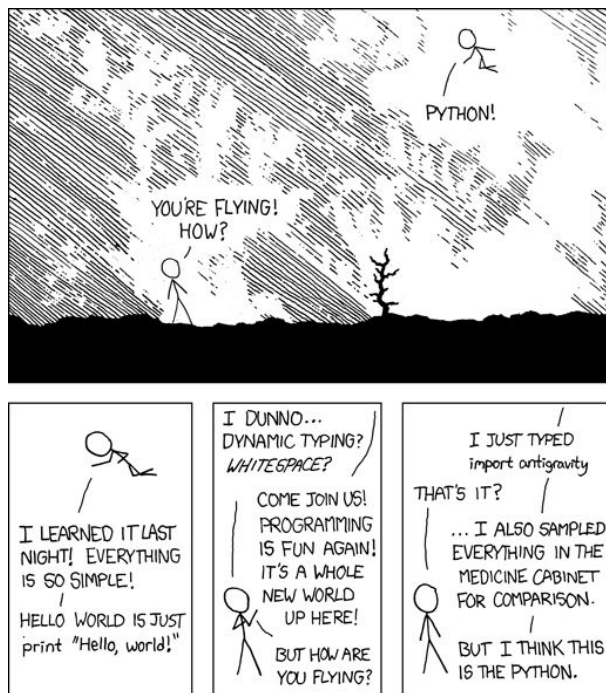


Kā strāda dators un programmēšana



Ko mēs mācīsimies?

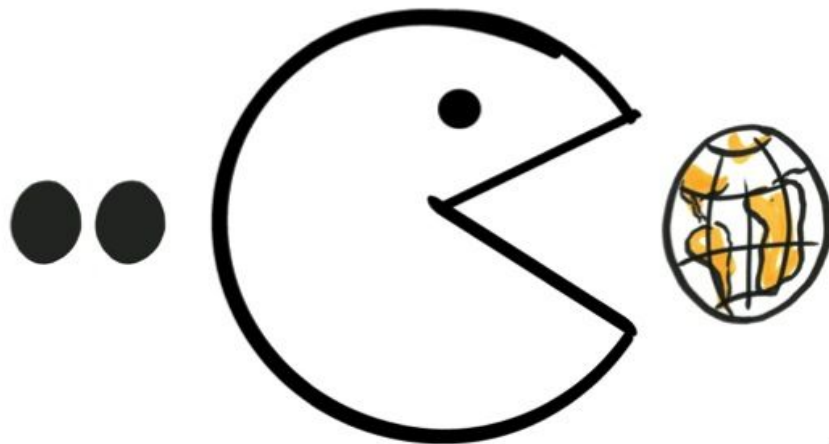


- Programmēšanu - datorprogrammas izveides procesu
- Programmēšanas pamatus (Python)
- Kā panākt, lai dators dara to, ko mēs gribam
- Kā “saskaldīt” jebkuru problēmu
- Automate the boring stuff!

Programmas apēd pasauli



Software is eating up the world*

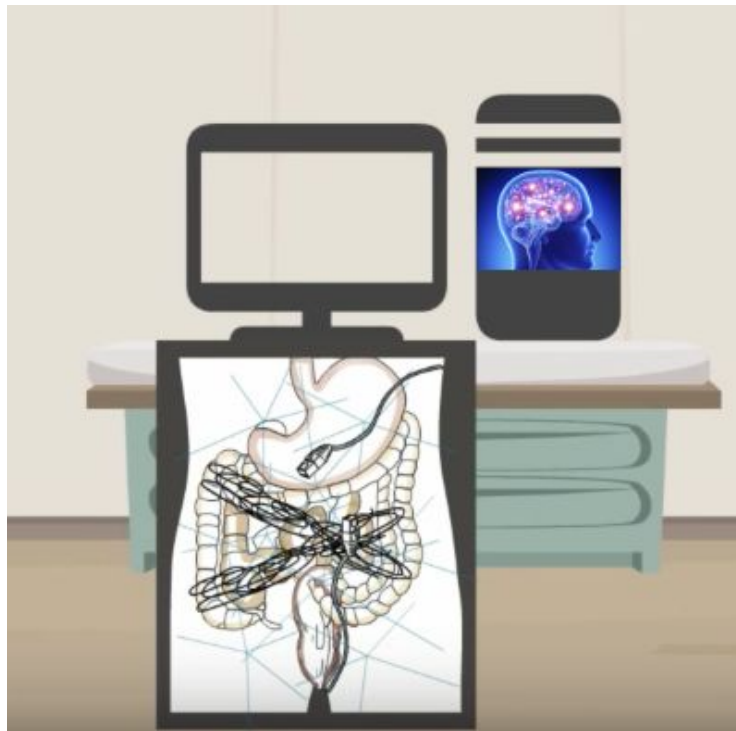


* Marc Andreessen
in Wall Street Journal

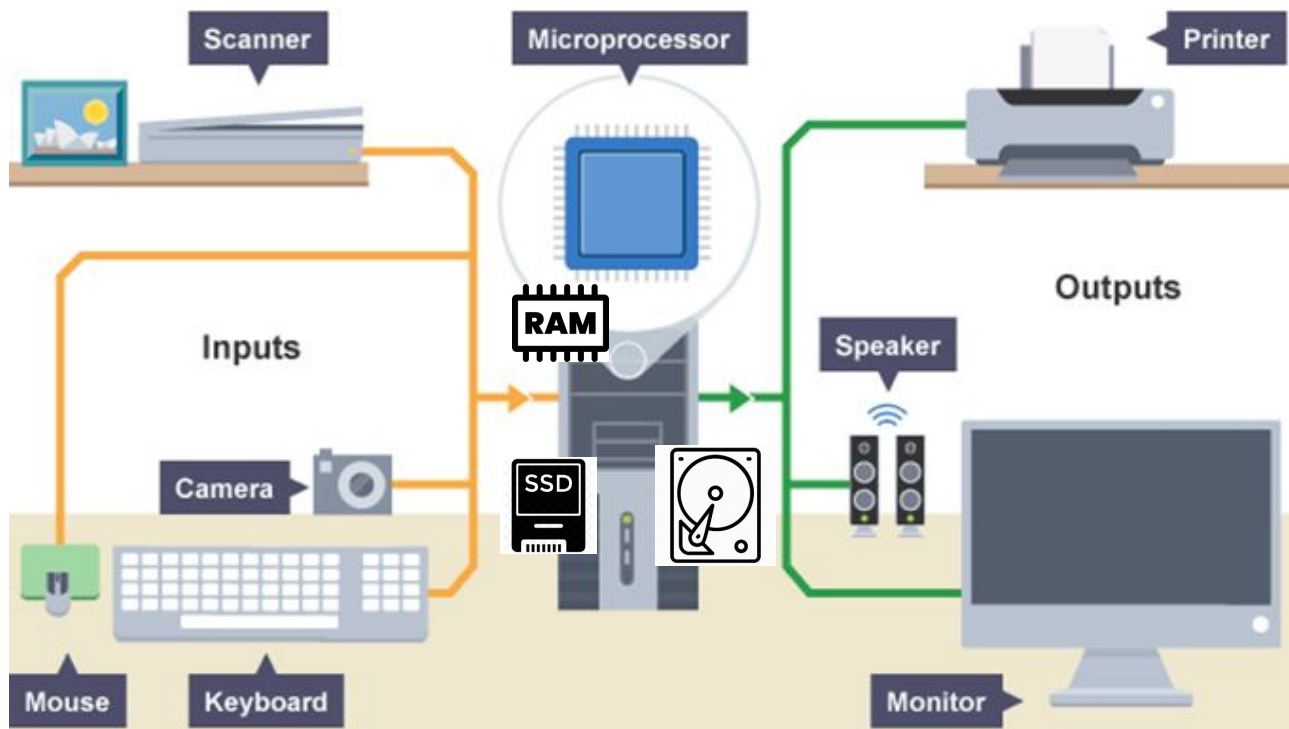
Data



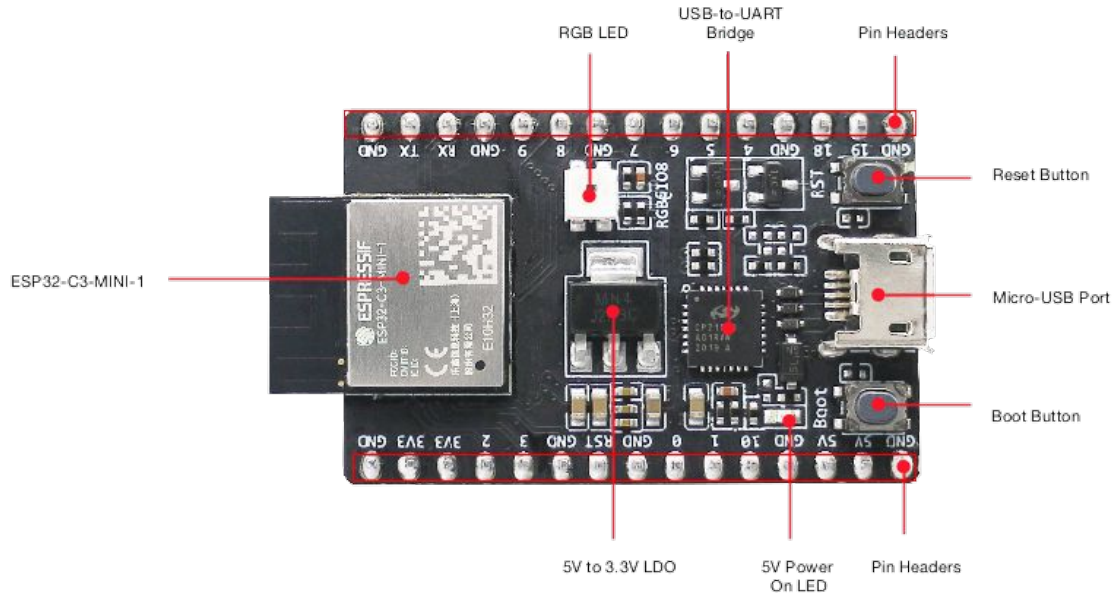
Dators = paklausīgs bērns(bet klīrīgs)



... jāsaņem viss, ko iebarojam



... arī mikro devās ...



Kā sarunāties?



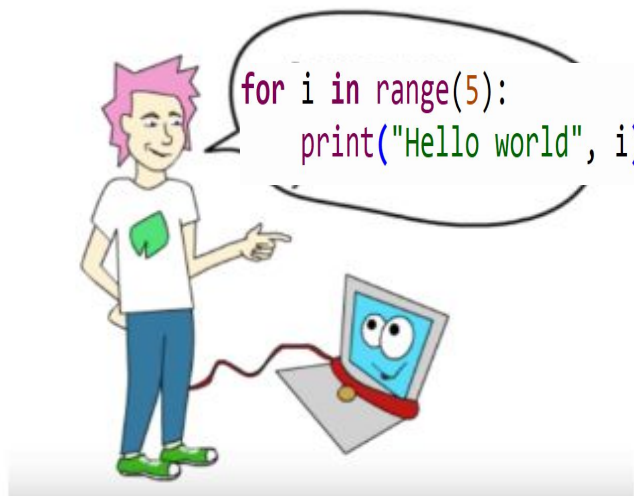
“Welcome to The Matrix”



Mašīnkods



Cilvēkam lasāms kods



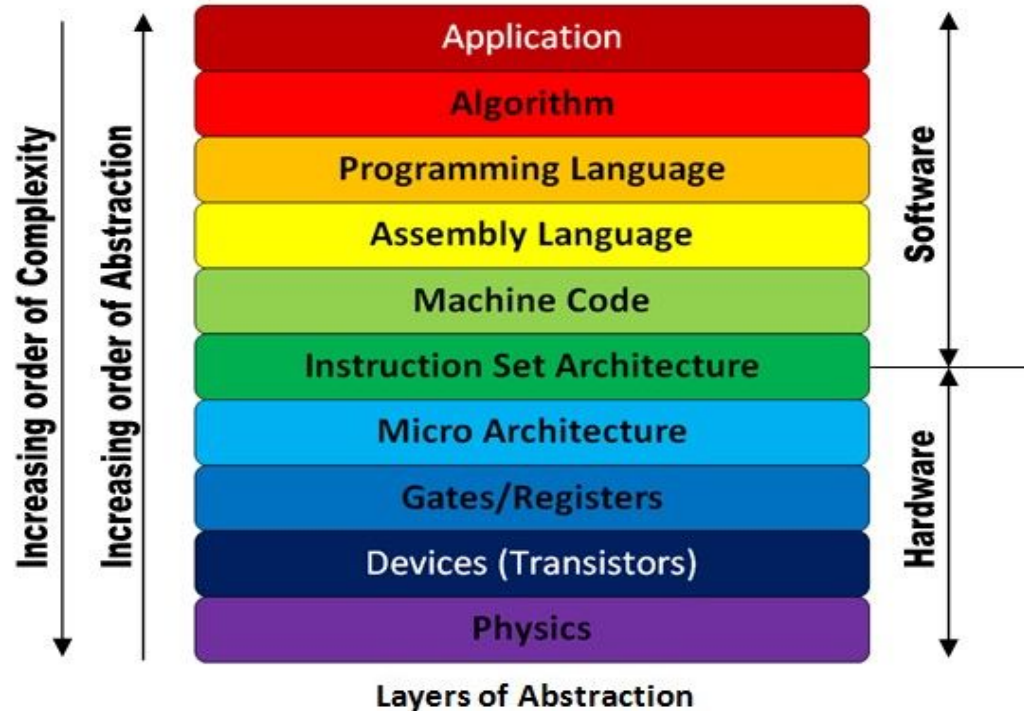
Abstrakcija



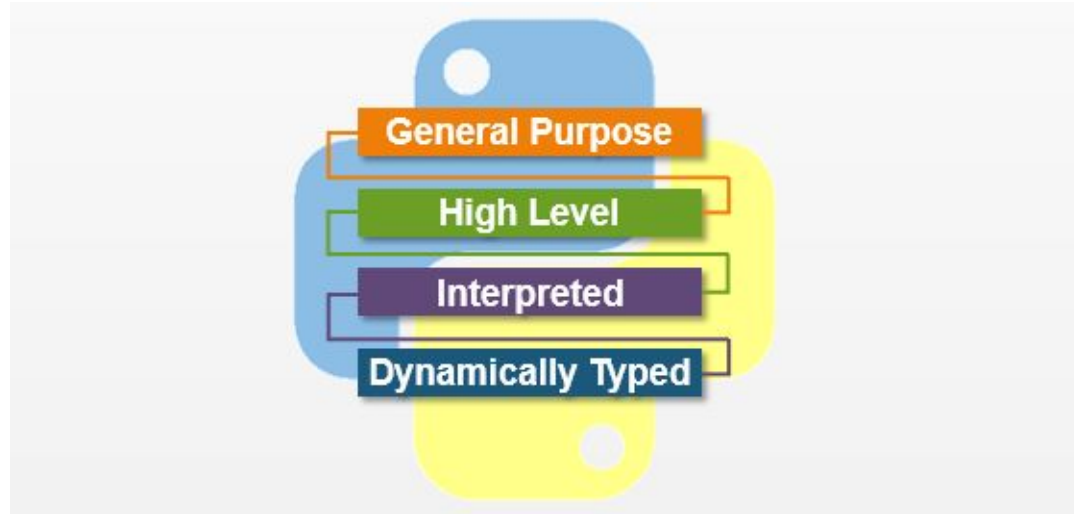
Abstrakcija



Abstrakcija



Python valoda



General



The popular YouTube video sharing system is largely written in Python



Google makes extensive use of Python in its web search system



Dropbox storage service codes both its server and client software primarily in Python



The Raspberry Pi single-board computer promotes Python as its educational language



COMPANIES USING PYTHON



BitTorrent peer-to-peer file sharing system began its life as a Python Program



NASA uses Python for specific Programming Task



The NSA uses Python for cryptography and intelligence analysis

NETFLIX

Netflix and Yelp have both documented the role of Python in their software infrastructures

General Glue Language



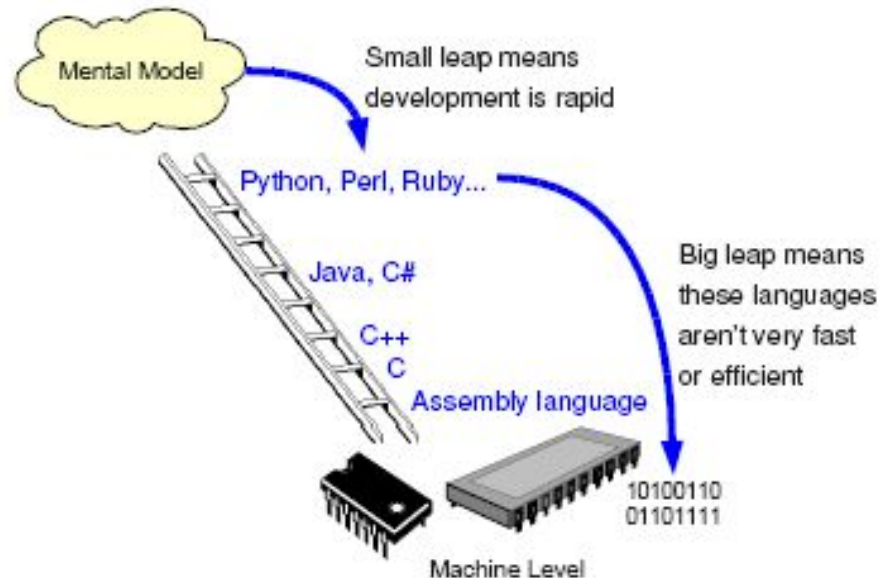
- Readable
- Interactive
- Interpreted
- Dynamic
- Object-oriented
- Portable
- High level
- Extensible in C++ & C



High-level



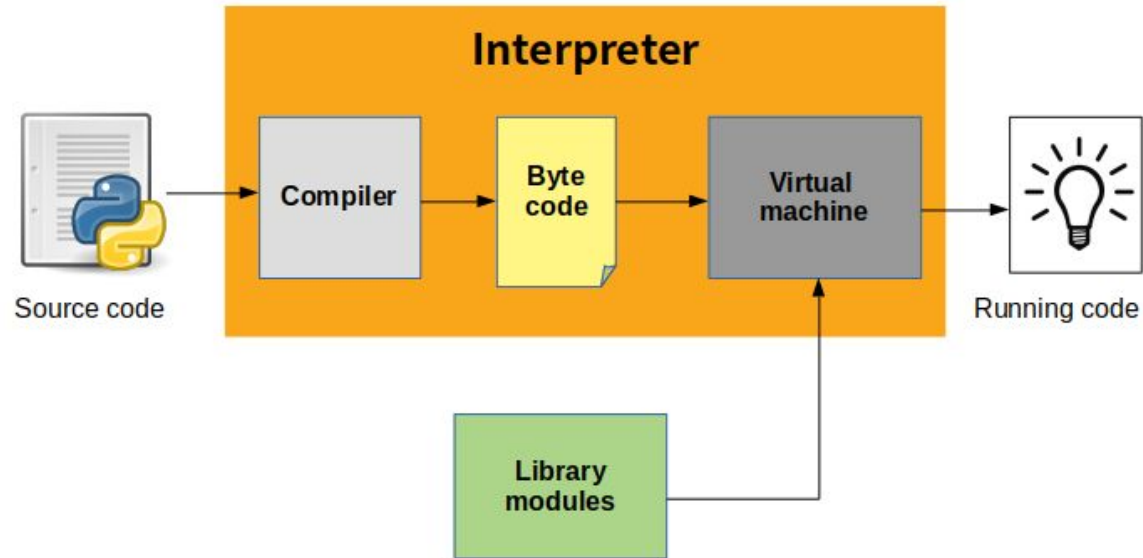
VHLL Benefits & Drawbacks



Python interpreters



Python interpreters



Izstrādes Vide



- Visual Studio Code - <https://code.visualstudio.com/> - vispopulārākā
- PyCharm - <https://www.jetbrains.com/pycharm/> - profesionālākā
- Thonny - iesācējiem

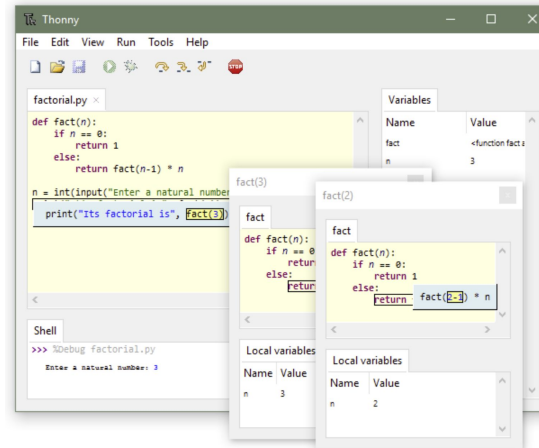
Izstrādes vide - iesācējiem



Thonny
Python IDE for beginners

Download version 3.3.4.3 for
[Windows](#) • [Mac](#) • [Linux](#)

- <https://thonny.org/>
- **everything included to start work**
- **bundled with RaspberryPi etc**
- author Aivar Annamaa - Tartu University





Vārds
Ceļš šeit
Pieredze
Ko vēlaties sasniegt

