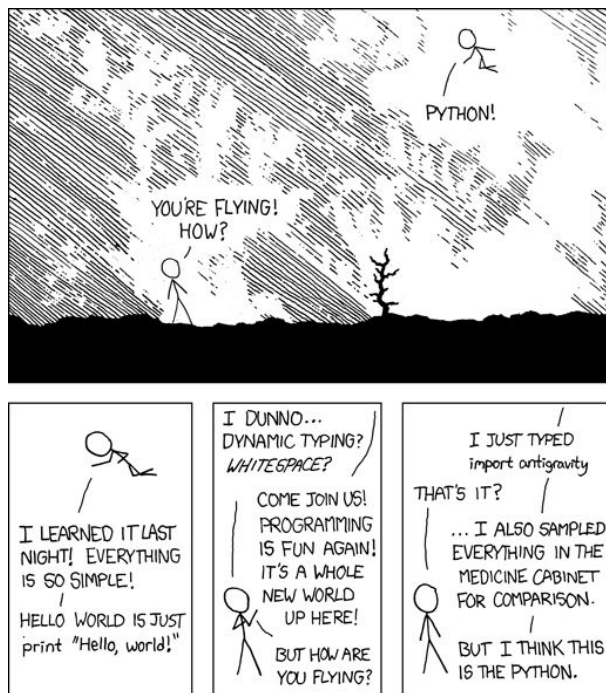


Kā strādā dators un programmēšana



Ko mēs mācīsimies?

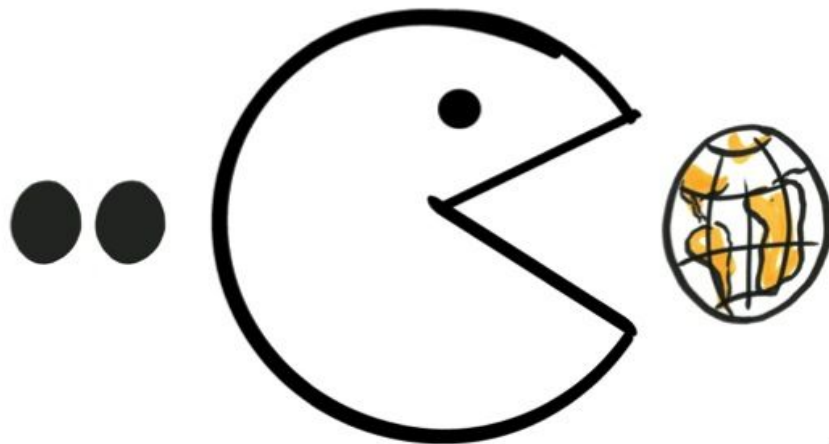


- Programmēšanu - datorprogrammas izveides procesu
- Programmēšanas pamatus (Python)
- Kā panākt, lai dators dara to, ko mēs gribam
- Kā “saskaldīt” jebkuru problēmu
- Automate the boring stuff!

Programmas apēd pasauli



Software is eating up the world*

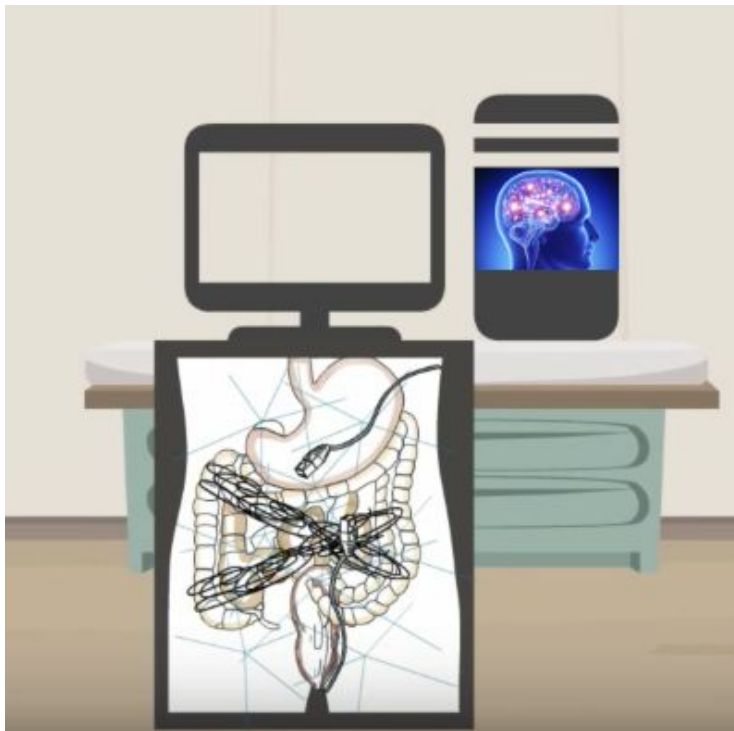


* Marc Andreessen
in Wall Street Journal

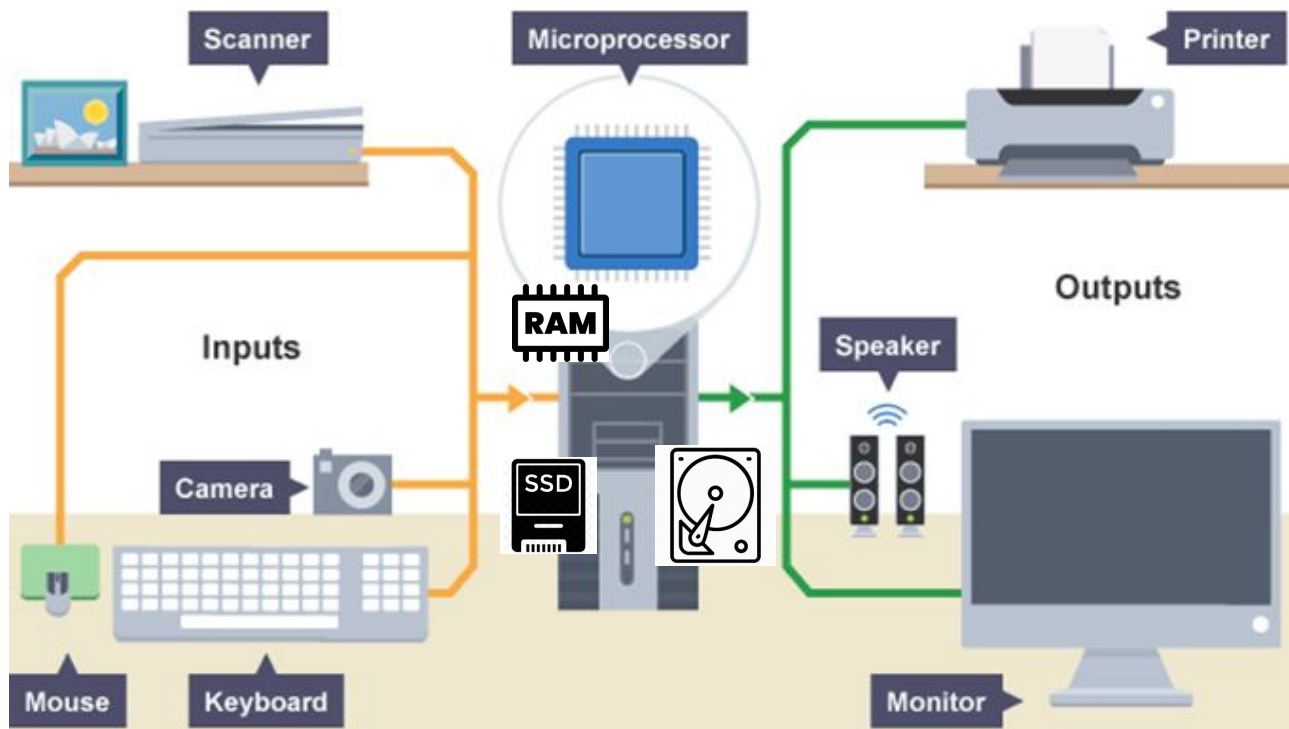
Data



Dators = paklausīgs bērns (bet klīrīgs)



... jāsaņem viss, ko iebarojam



Kā sarunāties?



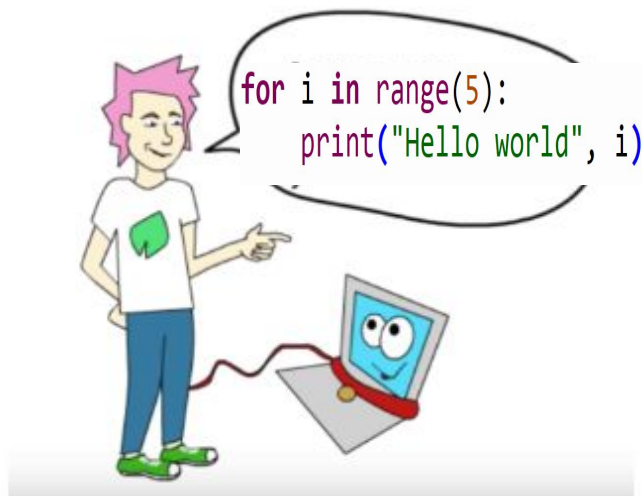
“Welcome to The Matrix”



Mašīnkods



Cilvēkam lasāms kods



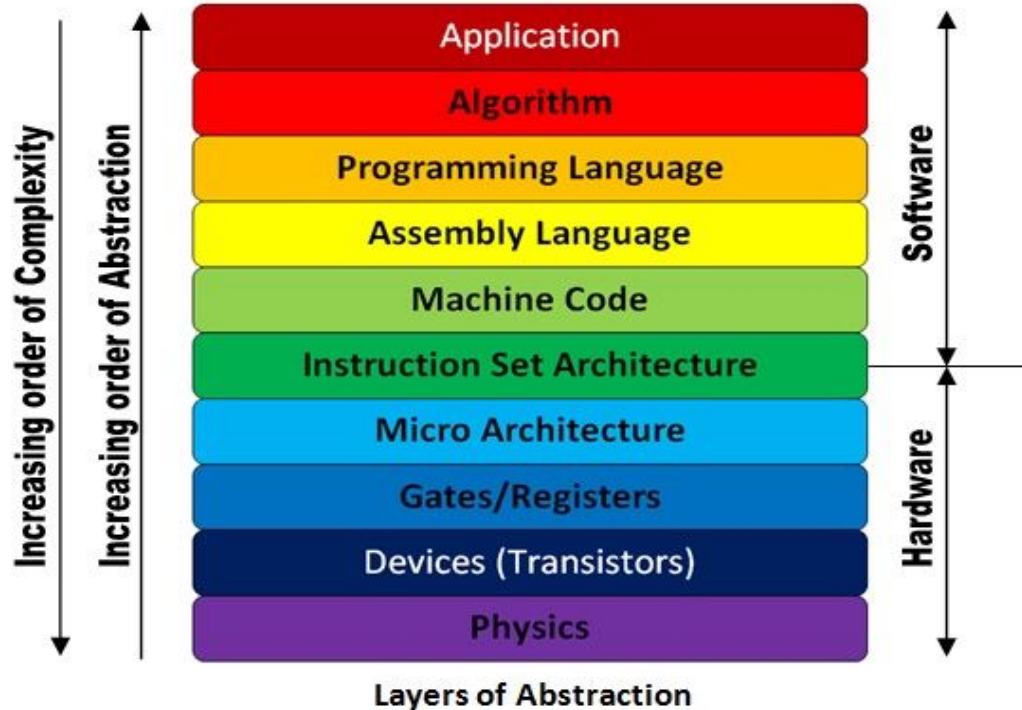
Abstrakcija



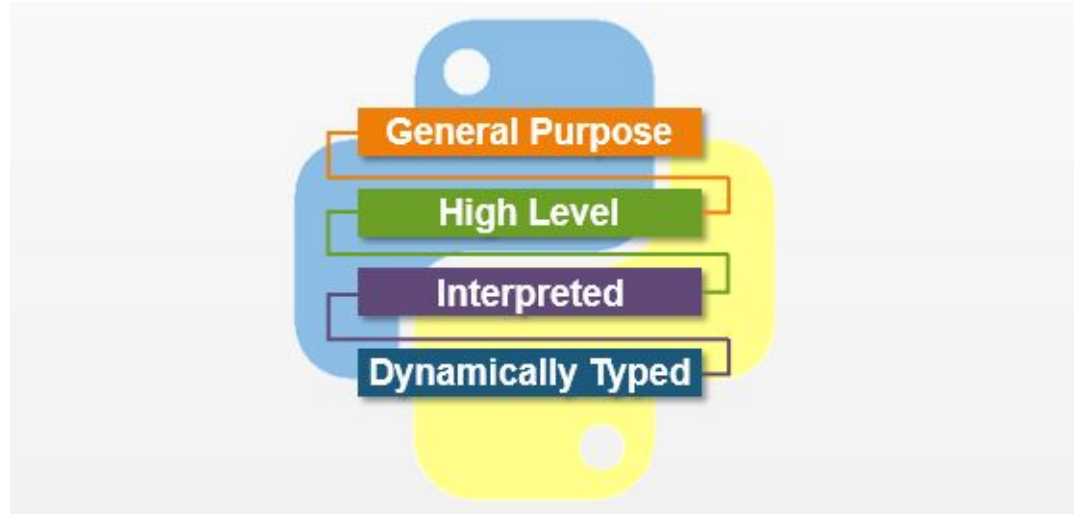
Abstrakcija



Abstrakcija



Python valoda



Kur lieto Python?



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



RaspberryPi

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

“Līmes” valoda



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

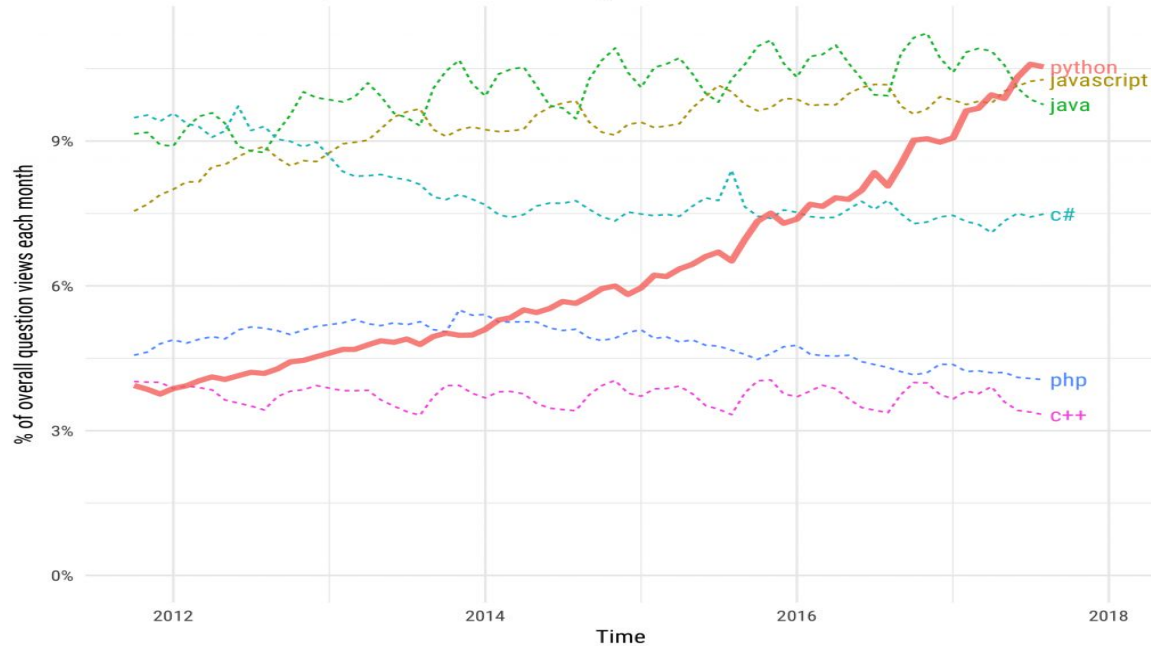
























Popularitāte



Growth of major programming languages

Based on Stack Overflow question views in World Bank high-income countries

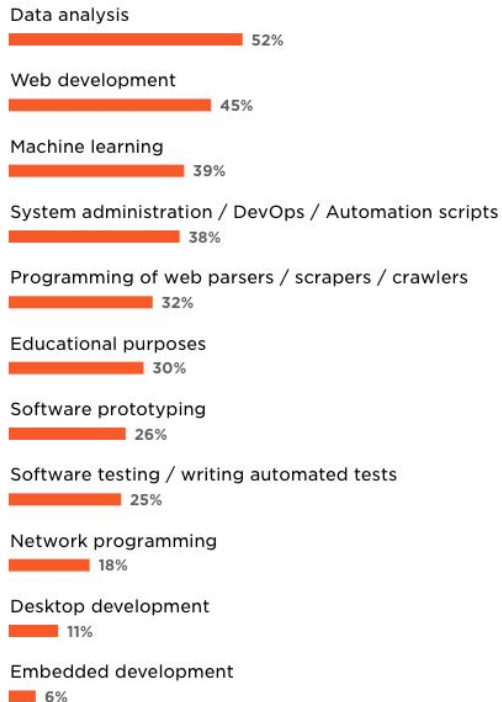


Language Rank	Types	Spectrum Ranking	Spectrum Ranking
1. Python	  	100.0	100.0
2. C++	  	98.4	99.7
3. C	  	98.2	99.4
4. Java	  	97.5	97.3
5. C#	  	89.8	88.7
6. PHP		85.4	88.7
7. R		83.3	86.0
8. JavaScript	 	82.8	81.9
9. Go	 	76.7	76.8
10. Assembly		74.5	76.0

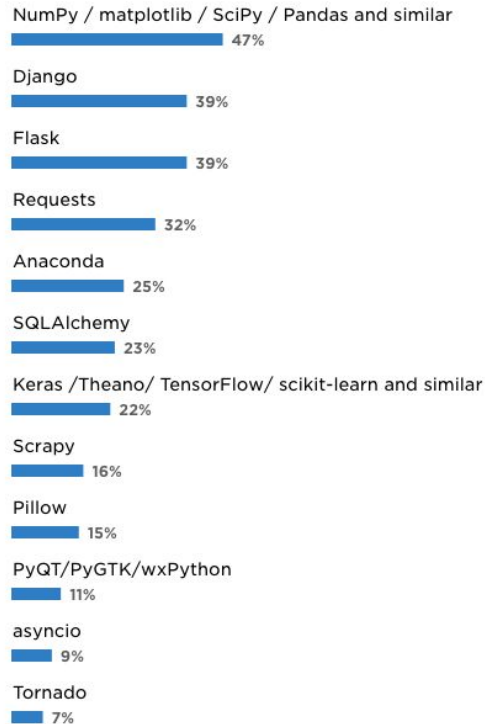
IEEE Spectrum Survey 2018

Pielietojumi

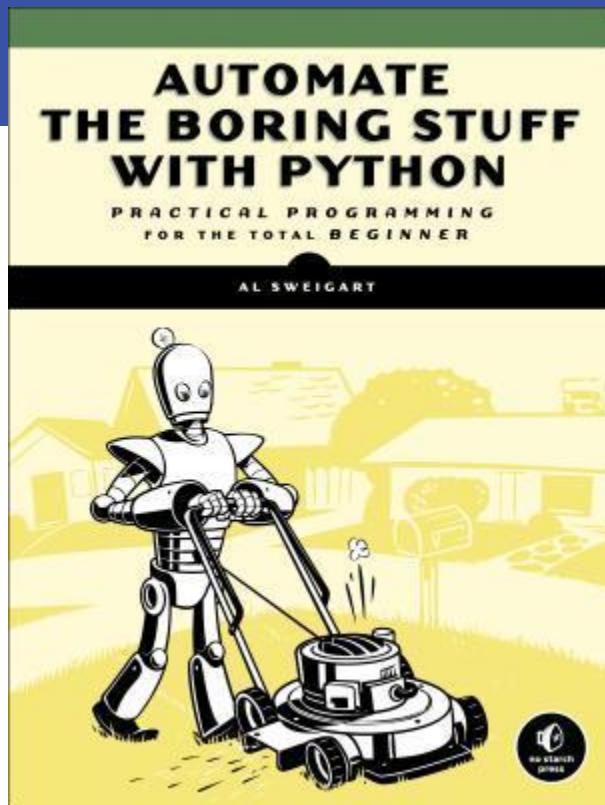
What do you use Python for?



What libraries and/or frameworks do you use in addition to Python, if any?



Noderīgi resursi

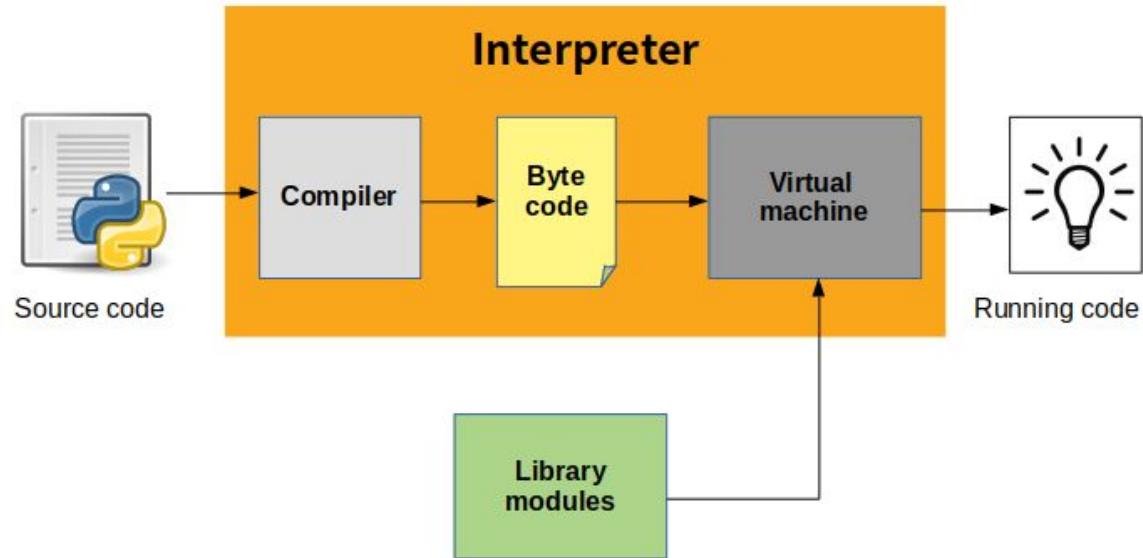


<https://automatetheboringstuff.com/>

Python interpreters



Python interpreters



“Batteries included”



Izstrādes Vide



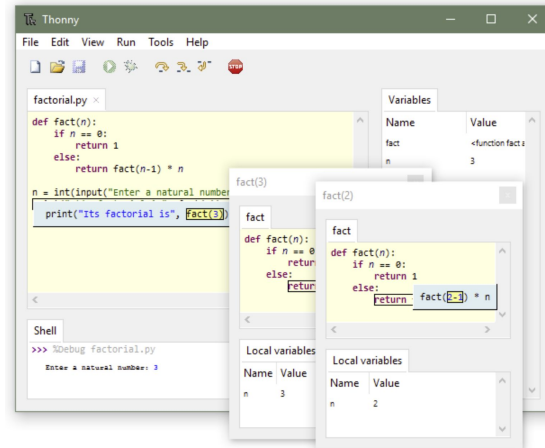
Izstrādes Vide



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 uz šejieni
Pieredze
Ko vēlaties sasniegt

