

Summer School ML

III Python for ML

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INSTITUTE FOR MACHINE LEARNING AND ANALYTICS





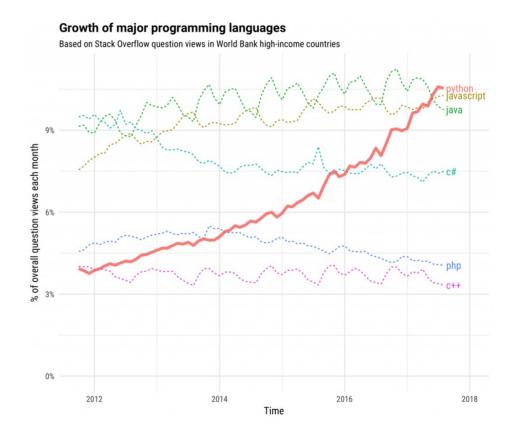


- We will use Python (more exactly tools with python interface) for this course
- Python is the most dominant language used in Data
 Science, Dats Analytics and Machine Learning to day

Alternatives: R and Julia



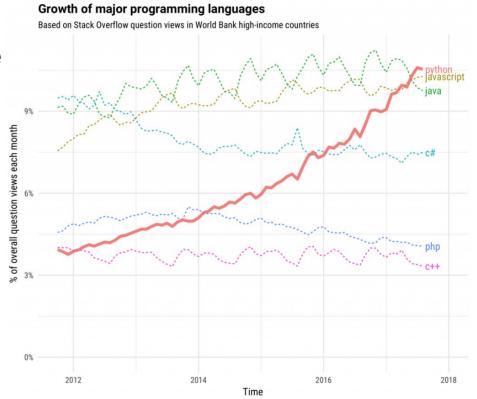




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- Triggered by ML + Data Science
- Python pushes convergence of technologies:
 - HPC
 - Cloud
 - Big-Data

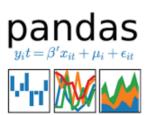


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- Very low entry barrier (easy to learn)
- Quite universal in programming approaches
- Easy to interface existing high peformance libs
- Huge Community
- Libraries !!!
- Python as "glue code" for rapid development and markup













https://www.anaconda.com/distribution/

- Easy installation on Linux/Mac/Win
 - See read.me in Moodle
 - User space install (no admin needed)
- Conda Python package management
 - Simple install/update/sharing of software
- All open source!





NOTE:

There are two versions of Python:

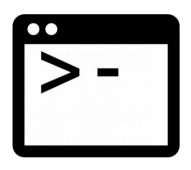
Python2 and Python3



→ get started with Python3!







Interactive Python Introduction

→ Start lab session now!

Tools: bwLehrPool





BWLEHRPOOL

https://bwlehrpool-remote.hs-offenburg.de