

Introduction to Programming Applications with Python

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- Course Information
- Discussion about Programming and Python in Research and Industries
- Why we use Python
- How to use Python

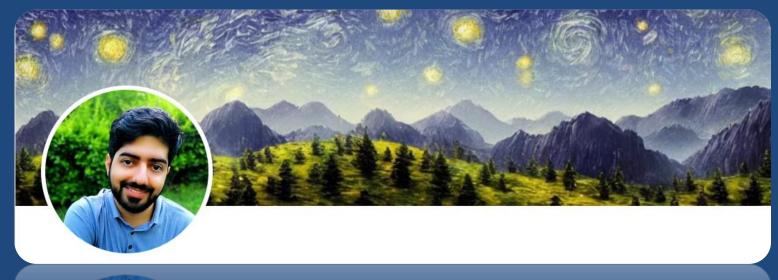
Course Information



- Approx. 20% Programming Assignments
- Approx. 2% Challenging Questions and Contributions in Class
- Approx. 13% Mid-term Project (alone)
- Approx. 35% Final Project (team work~5 member)
 - Proposal (about real needs)
 - Coding
 - Release
- Approx. 30% Final Exam
- Approx. 5% Presentation with Code(extra score)



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- Telegram: @IKJ1992





Main links for our class

- Telegram group: t.me/SharifPythonSpace1401
- GitHub organization: github.com/SharifPythonSpace



Send your feedback about the class whenever you want!



- Fundamental concepts in computer science
- Algorithm thinking
- Coding with Python
- Some meetings with Python experts in different domains (maybe)



Programming Language

Knowledge of Concepts

Algorithm Thinking



- Python workshop abut AI and DS
- Python Coding class for assignments
- Python Event for CE department (maybe)
- Useful Python toolkits in industry:
 - Git, GitHub
 - Docker
 - FastAPI
 - Dask





Dr. Abbas Nowzari Associate Professor, Tehran University



Dr. Mohammad Ganjtabesh Associate Professor, Tehran University

Discussion about Python in Research and Industries







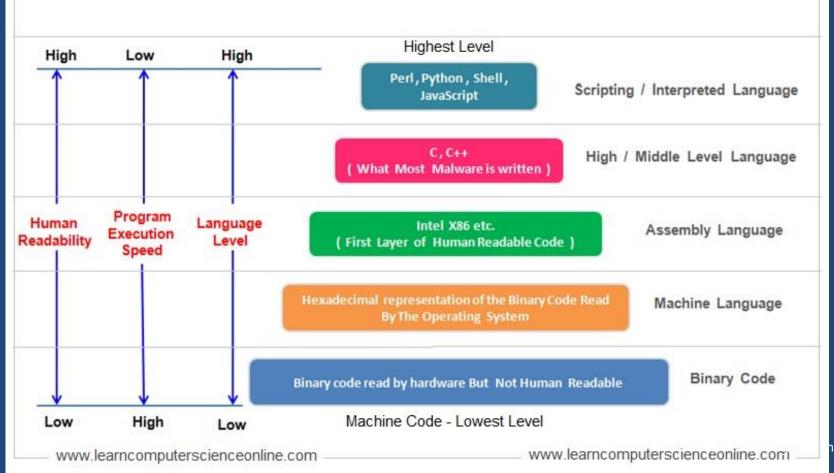
Do you know about its applications?



Why we use Python?



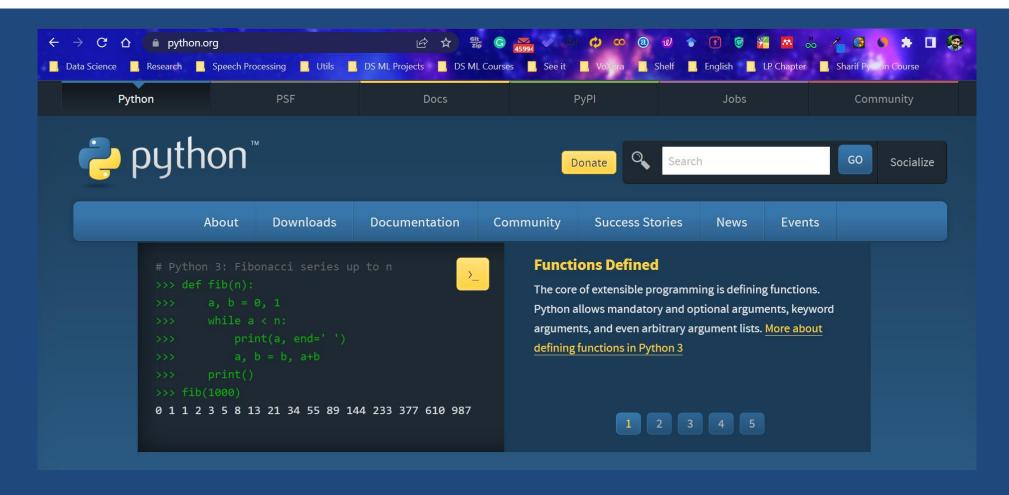
Computer Programming Language - Types And Levels



How to use Python?

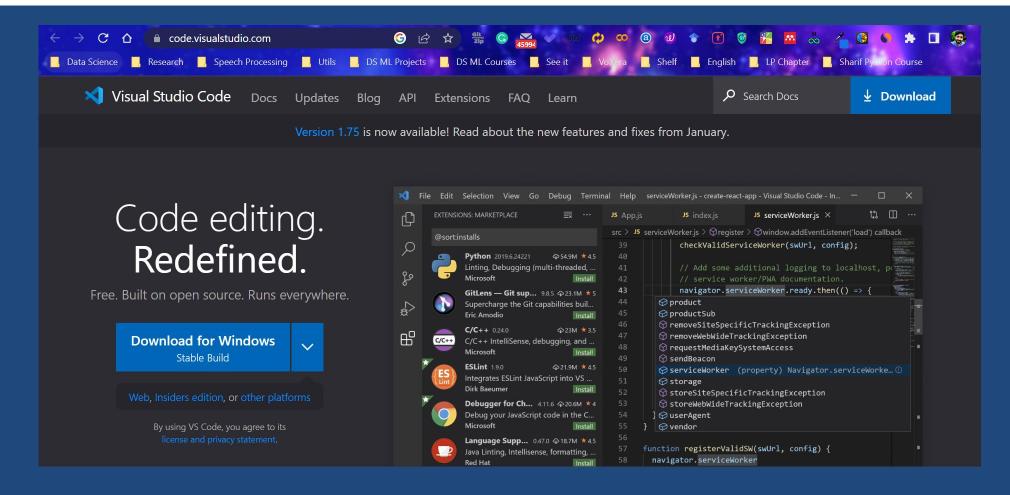


First, install Python



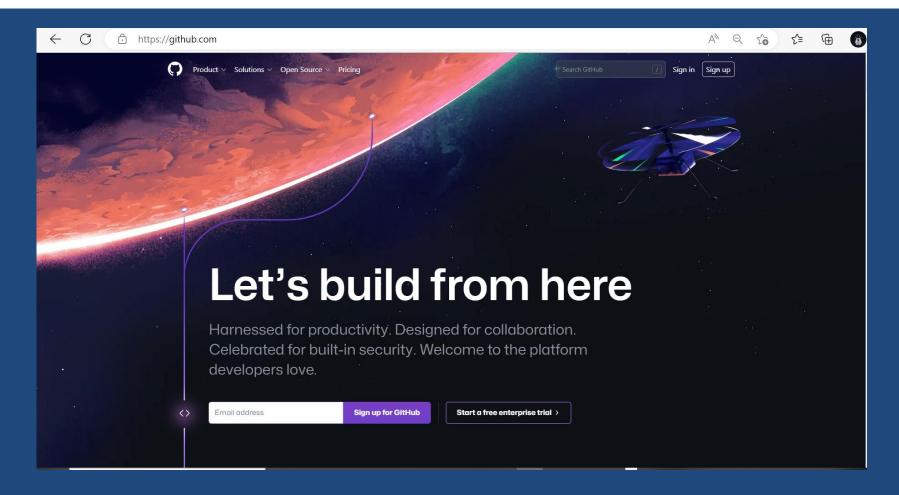


Second, install visual studio code (vscode)

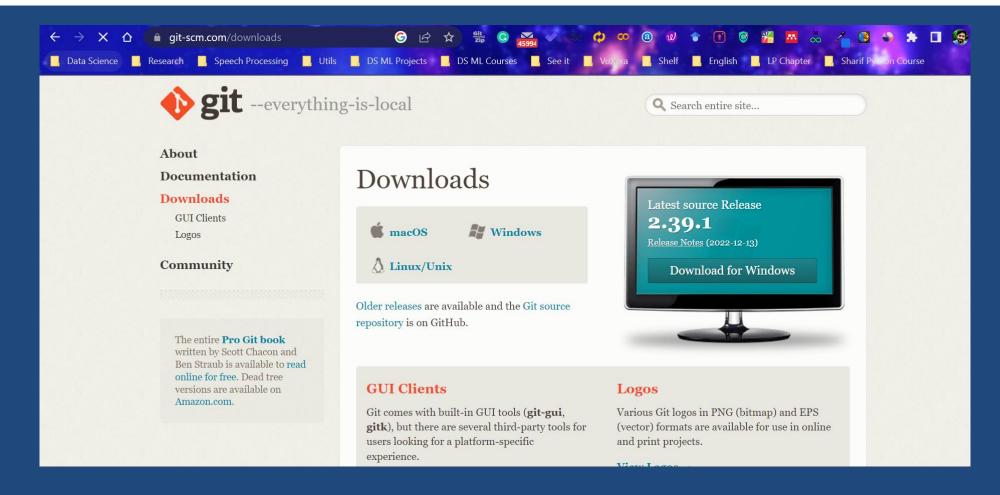




Third, register in GitHub



Fourth, install Git



Lecture Resources

P. Wentworth, J. Elkner, A. B. Downey, C. Meyers. How to Think Like a Computer Scientist: Learning with Python. 3rd Edition, Open Book Project, 2011.