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Why Learn Python?

A Microsoft DB/ETL/BI Developer's Answer

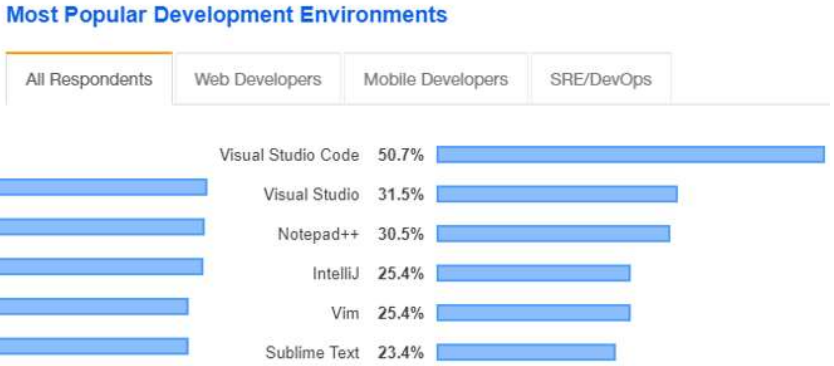
About Me

- Evolutionary Geek, Software Developer, Data Wrangler
  - First learned Basic on a TI 99/4A and a C-128 (remember Peek and Poke)
  - WordPerfect, Lotus 1-2-3 macros
  - MS Office and Windows for Workgroups
  - MS Access and VBA
  - VB 6.0, SQL, ADO
  - VB.Net, SQL
  - C#, SQL, SSIS, SSRS, Azure Data Factory, Azure SQL, Azure DW
  - Some ASP/HTML/CSS
  - JavaScript, Alexa Skill Development
  - Python, Machine Learning, Azure Data Bricks, Power BI
- MCP since 1993

Why Learn Python?

1. It's a powerful scripting language
2. It has a TON of pre-built modules
3. It is the language of choice for Machine Learning
4. It is essential for (Azure) Data Bricks
5. It is a first-class language in Azure and AWS

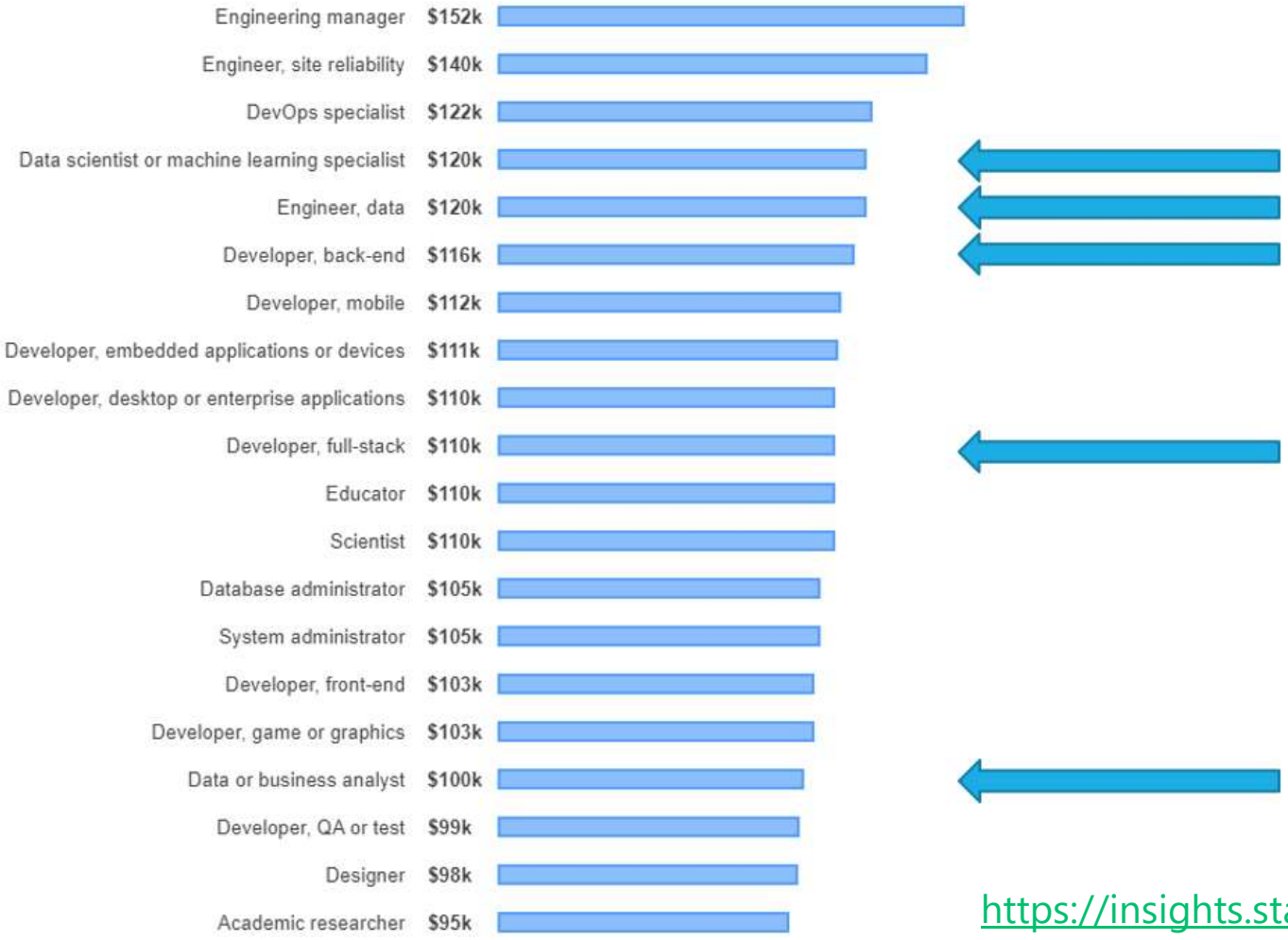
Which Language Should I Learn in 2020?



https://insights.stackoverflow.com/survey/

Salary by Developer Type

Global | United States



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Three Python Utilities You Can Use

1. Did you ever wonder which one of the hundreds of SSIS packages in your repository loads a specific table?
2. Did you ever wish you could figure out which of the myriad queries in your SSRS report is/are the slow one(s)?
3. You've got the address data, don't you wish you could plot them on a map visual?

Demos

Demo 1

Did you ever wonder which one of the hundreds of SSIS packages in your repository loads a specific table?

1. SSIS Packages are just XML
2. Python has an xml module that's quick
3. Pandas can easily write the results to Excel

Demo 2

Did you ever wish you could figure out which of the myriad queries in your SSRS report is/are the slow one(s)?

1. SSRS Reports are also just XML
2. Python has a clr module (as in .Net CLR)
3. pyodbc can be used to run SQL statements

Demo 3

You've got the address data, don't you wish you could plot them on a map visual?

1. Using pyodbc we can read/write SQL data
2. Google has a free* Geocoding REST API
3. Python's json and requests modules call the API

* Free in reasonable batches, Credit Card required for authentication only