

STACK OVERFLOW DEVELOPER SURVEY 2019

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OUTLINE



- Executive Summary
- Introduction
- Methodology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix



EXECUTIVE SUMMARY



- Data contextualization and analysis goal.
- Methodology description:
 - Data Collection
 - Data Analysis
 - Data Visualization
- Results presented with supporting graphs and trends
- Discussion of overall findings and implications regarding the results previously exposed.
- Final conclusions of the carried out research.

INTRODUCTION



- Stacks Overflow annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- Results don't represent everyone in the developer community evenly.
- Nearly 90,000 developers were surveyed
- Understanding the developers
 - Predicting the trends where developers are going,
 - Characterization of developers around the world.

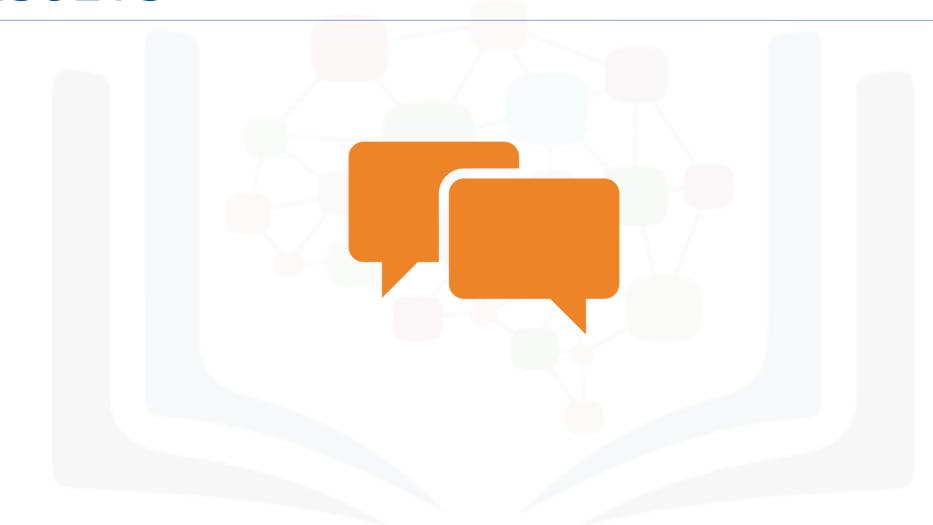
METHODOLOGY



- Collect survey data & explore it
 - WEB Scraping
 - APIS
 - Request Library
- Data Wrangling
- Exploratory Data Analysis (EDA)
 - Analyzing data distribution
 - Handling Outliers
 - Correlations
- Data Visualization
 - Highlight distribution of data, relationships, the composition and the comparison of data
- Dashboards



RESULTS

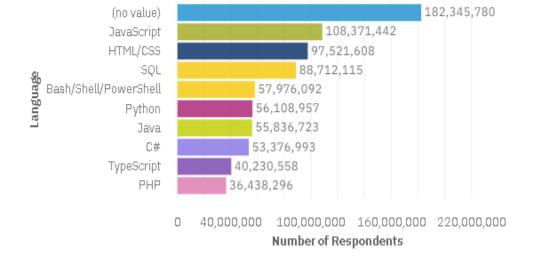


PROGRAMMING LANGUAGE TRENDS

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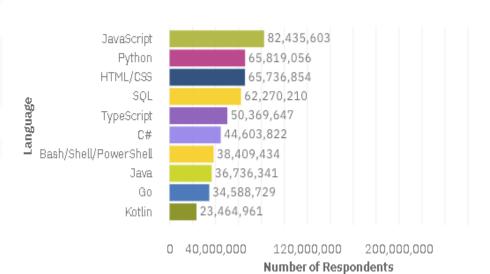
Current Year

Top 10 Programming Language



Next Year





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PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

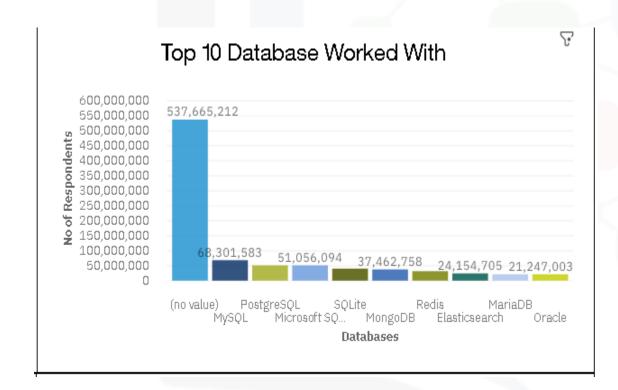
- JavaScript seems to keep as leading language
- Python fastest-growing language
- Great interest in typewriting

Implications

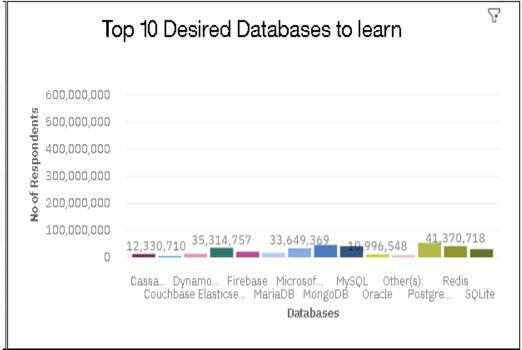
 Possible developers migration from JavaScript to Typewriting

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL are the most used database
- Lack of interest in Microsoft SQL Server & SQLite
- Increasing interest in PostgreSQL & MongoDB

Implications

- Microsoft SQL Server & SQLite losing ground in the market.
- PostgreSQL & MongoDB establishment in the market.

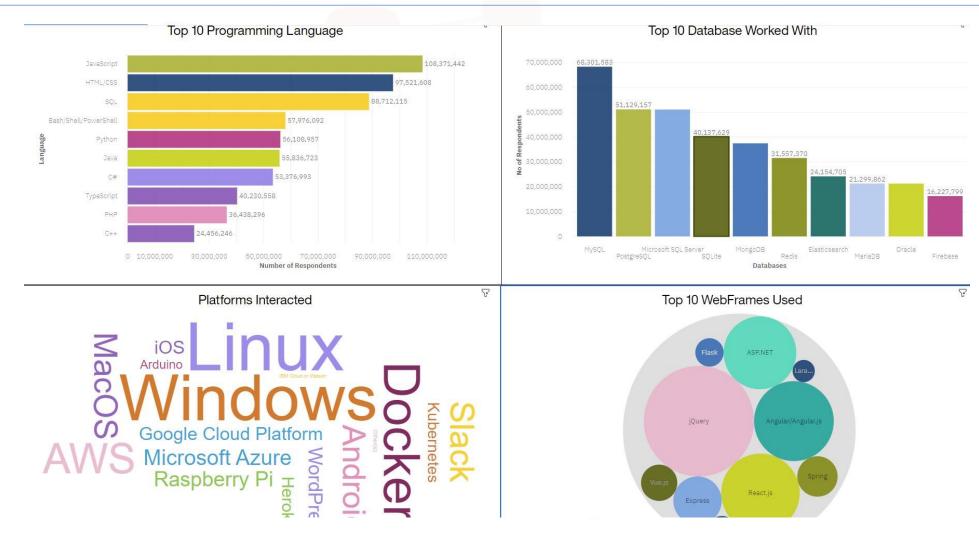


DASHBOARD



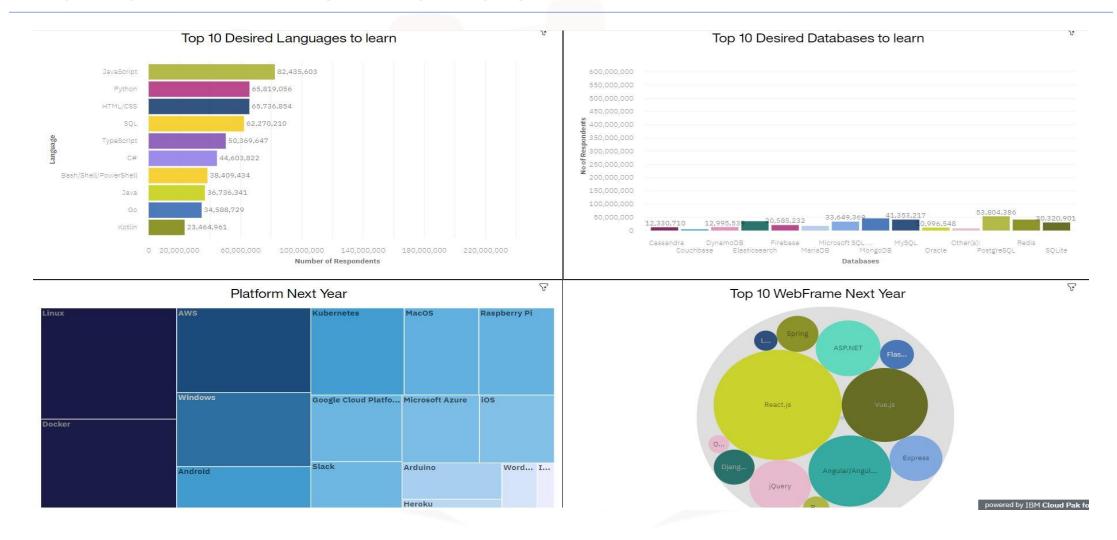
Building A Dashboard With Cognos
Dashboard Embedded

CURRENT TECHNOLOGY USAGE

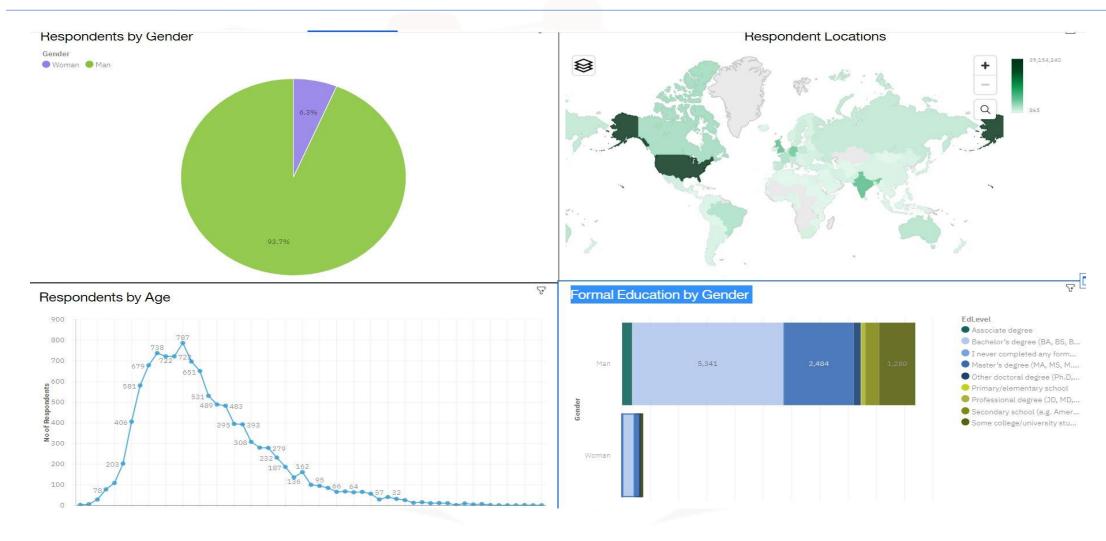




FUTURE TECHNOLOGY TREND



DEMOGRAPHICS



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript widely used & TypeScript getting popular.
- Over 90% are young male developers.
- Developers mostly located in developed countries

Implications

- JavaScript % TypeScript web frames gaining followers
- Global polarization of developers location & gender
- Young developers without postgrad studies on majority

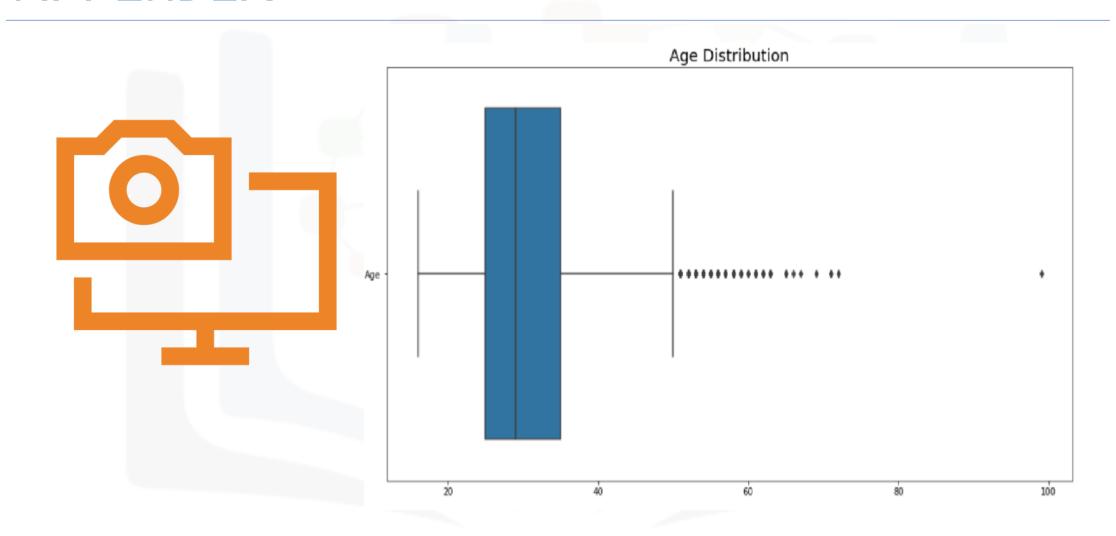


CONCLUSION

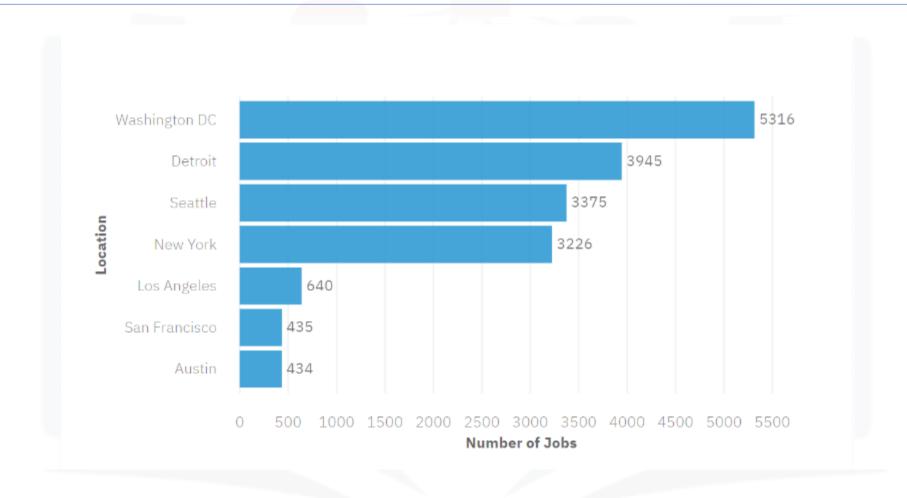


- Developers are people with very marked characteristics
- A good idea of popularity trends of different tools, platforms & Languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries development

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

