

STACK OVERFLOW DEVELOPER SURVEY

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OUTLINE



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

EXECUTIVE SUMMARY



- Data contextualization and analysis goal
- Methodology description
 - Data gathering
 - Data analysis
 - Data visualizations
- Result presentation supported with graph and trends
- Discussion of overall findings and implications regarding the resul previously exposed
- Final conclusions of the carried out research

INTRODUCTION



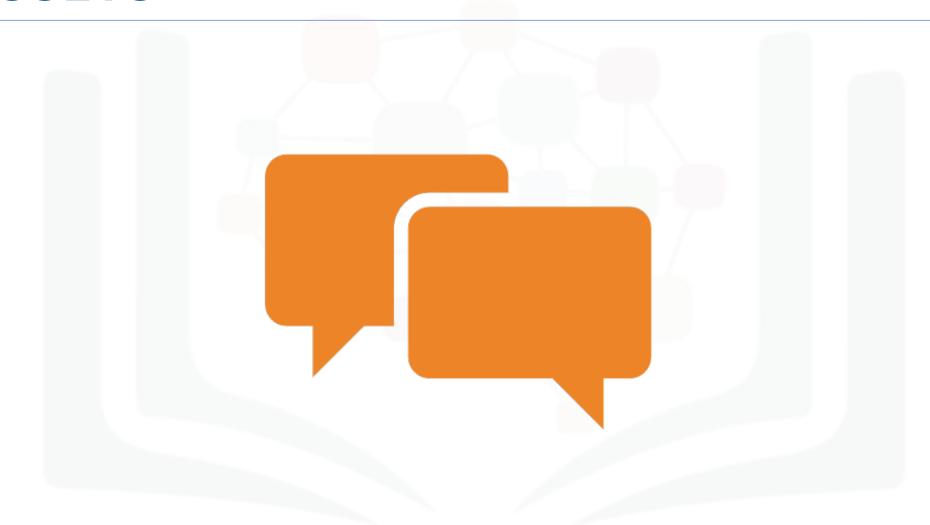
- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world
- Results don't represent everyone in the developer community evenly
- Nearly 90,000 developers
- Trends to predict where the developers are going
- Characterization of developets around the globe

METHODOLOGY



- Collect survey data & explore its content
 - Web scraping
 - APIs
 - Request library
- Data wrangling
- Exploratory data analysis
 - Analyzing data distribution
 - Handling outliers
 - Correlations
- Data Visualization
 - Highlight distribution of data, relationship, the composition and comparison of data
- Dashboards

RESULTS



PROGRAMMING LANGUAGE TRENDS

Current Year

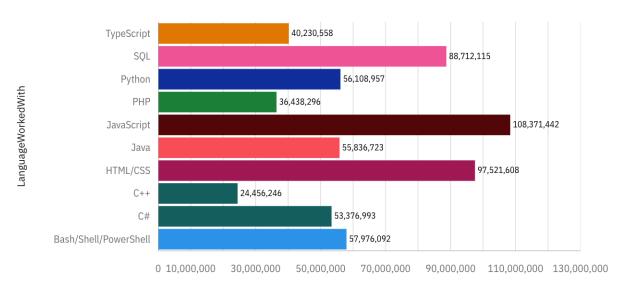
Top 10 Programming Language Workers

Next Year

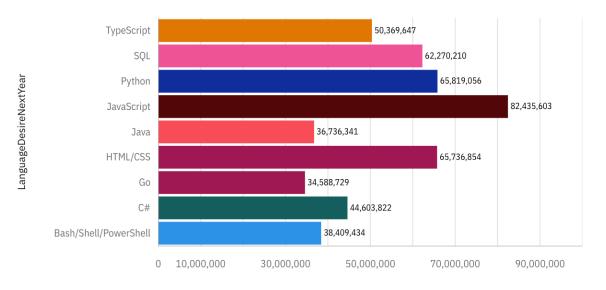
Top 10 Programming Language Desire Next Year











Respondent (Sum)

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript seems to keep as leading programming language
- Python fastes-growing
- Great interest in TypeScript

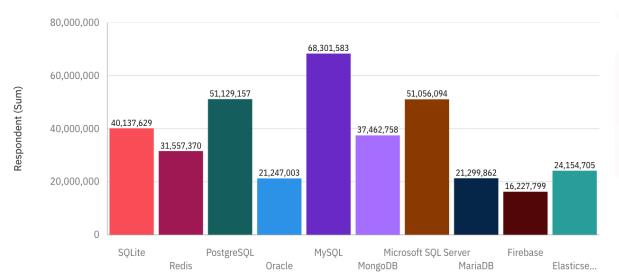
Implications

 Possible developers migration from JavaScript to TypeScript

DATABASE TRENDS

Current Year

Top 10 Databases Workers



DatabaseWorkedWith

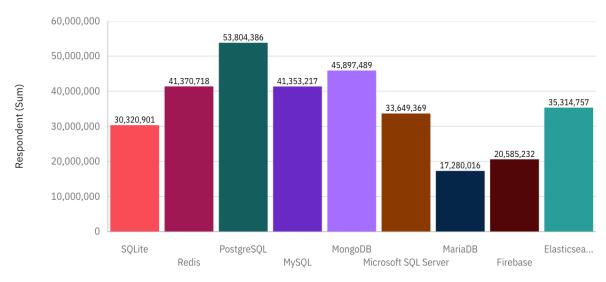
Next Year

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Top 10 Databases Desire Next Year







DatabaseDesireNextYear

DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL as most used database
- Lack of interest in Microsoft SQL Server and SQLite
- Increasing interest in PostgreSQL and MongoDB

Implications

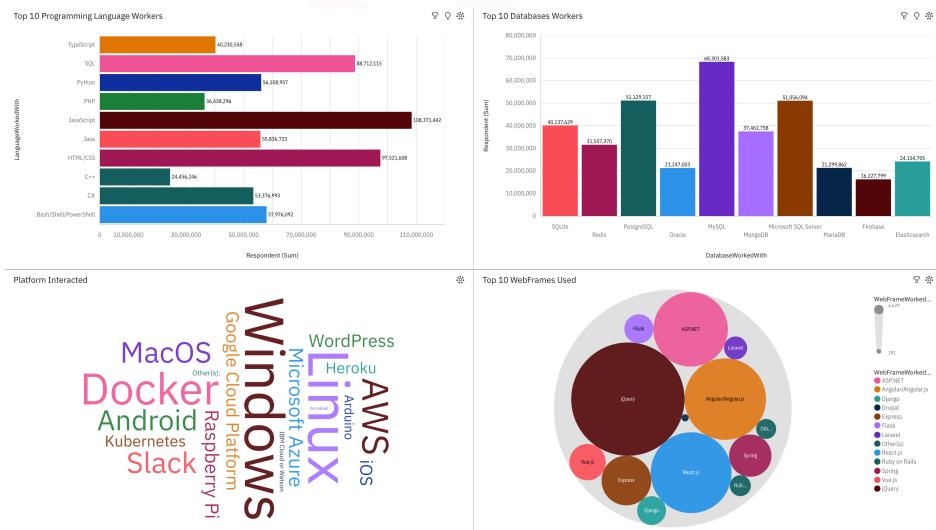
- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

DASHBOARD

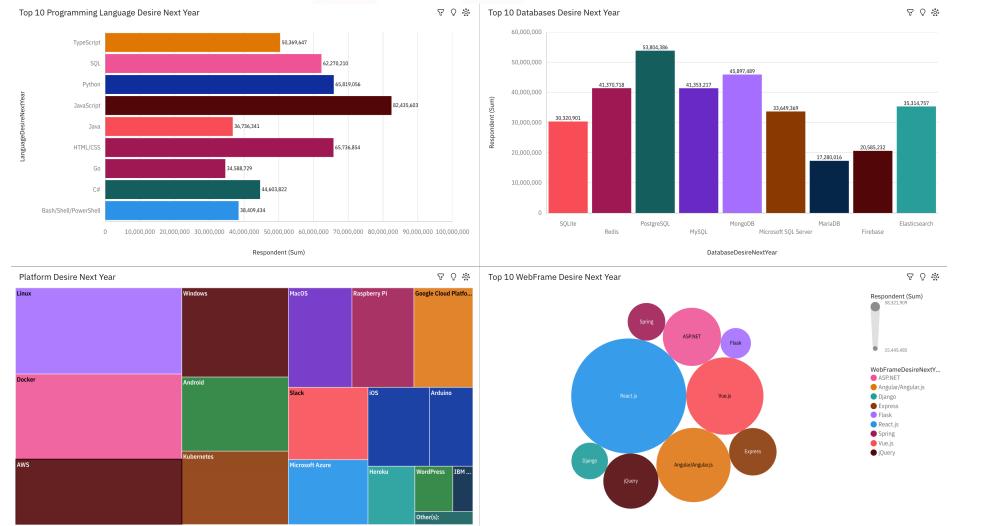


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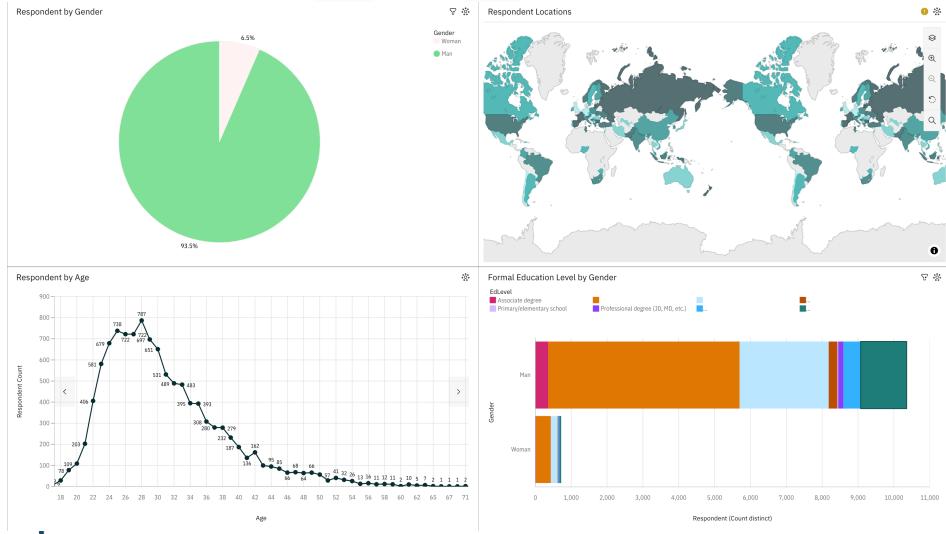
CURRENT TECHNOLOGY USAGE



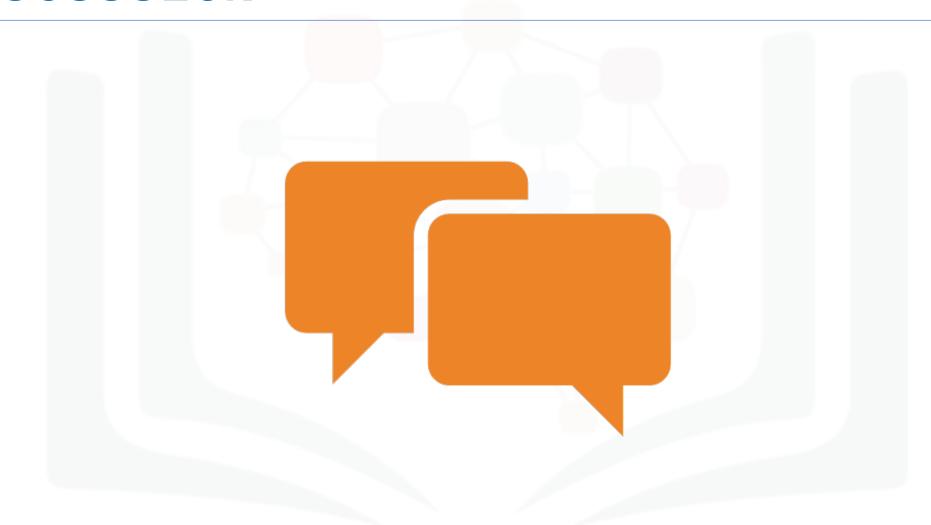
FUTURE TECHNOLOGY TREND



DEMOGRAPHICS



DISCUSSION





OVERALL FINDINGS & IMPLICATIONS

Findings

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

Implications

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

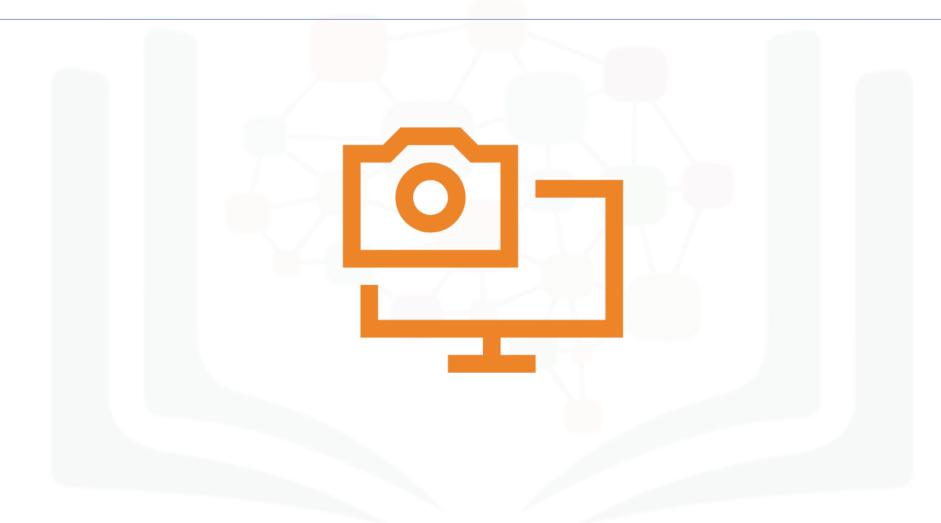


CONCLUSION

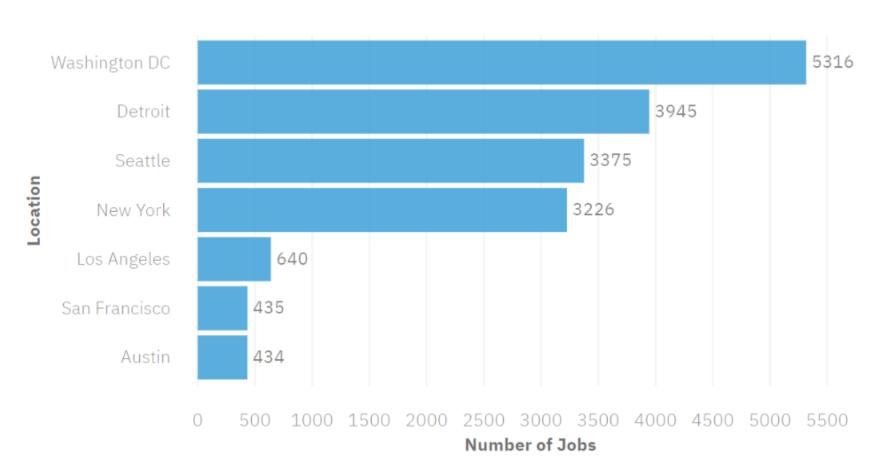


- Developers are people with very marked characteristics
- A good idea of popularity trends of different tools, platforms and language can be obtained
- There is a job to be done to spread accessibility of this labor market to countries in development

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

