

Insights from the 2019 Stack Overflow Developer Survey

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OUTLINE



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



- Comprehensive Examination and Interpretation of Data
 - Outline of Methodological Approach
 - Process of Data Collection
 - Rigorous Data Analysis
- Visual Representation of Data Presentation of Findings through Graphs and Patterns
- In-depth Discussion on Key Discoveries and Resulting Implications
- Conclusive Insights Drawn from the Completed Research"

INTRODUCTION



- The Developer Survey by Stack Overflow is the biggest and most extensive global survey of individuals engaged in coding.
- The outcomes are not uniformly representative of the entire developer community.
- Close to 90,000 developers participated.
- Identification of patterns for forecasting developer directions.
- Profiling of worldwide developer demographics.

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, relationships, the composition and comparison of data.
- Dashboards

RESULTS



PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

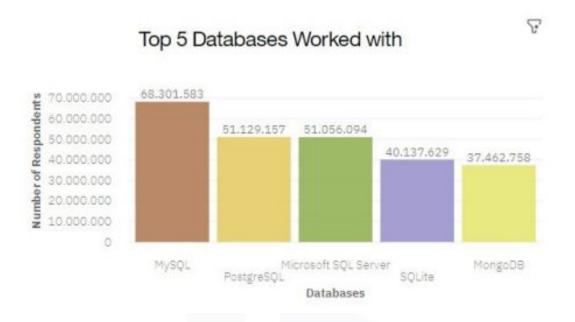
Findings

- JavaScript remains a dominant language.
- Python shows rapid growth.
- Significant enthusiasm for TypeScript

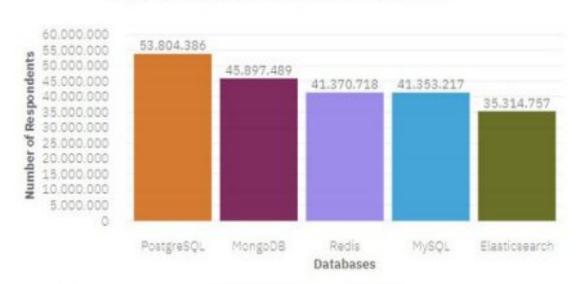
Implications

 Potential shift of developers from JavaScript to TypeScript

DATABASE TRENDS



Top 5 Desired Database to Learn



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

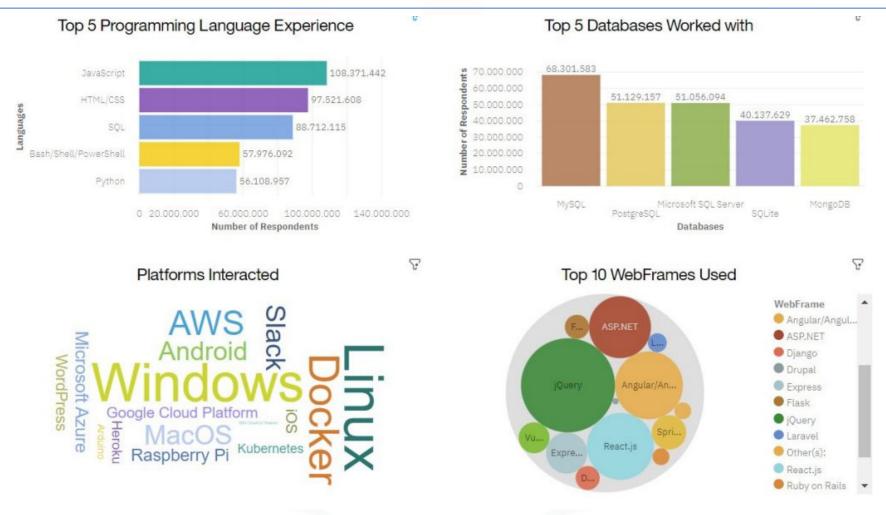
- MySQL holds the top spot as the most utilized database.
- Microsoft SQL Server and SQLite exhibit limited interest.
- Growing attraction towards PostgreSQL and MongoDB.

Implications

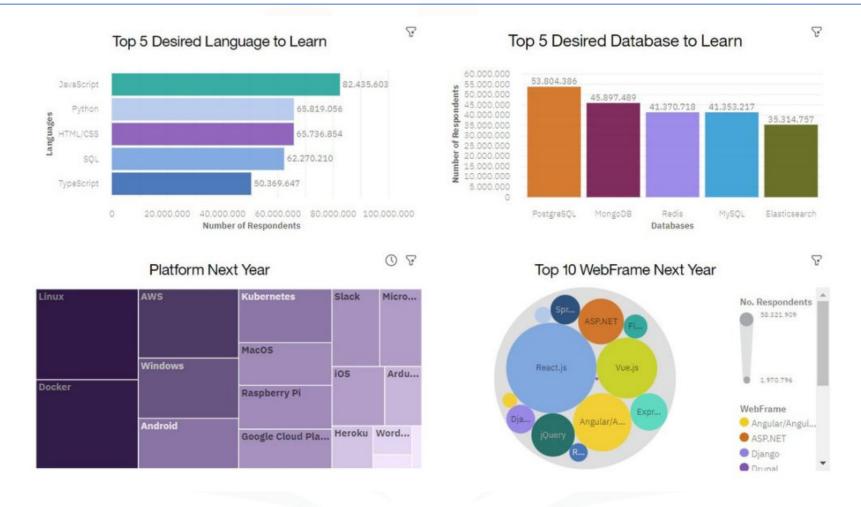
- Microsoft SQL Server and SQLite experiencing decline in market presence.
- PostgreSQL and MongoDB gaining strong foothold in the market.



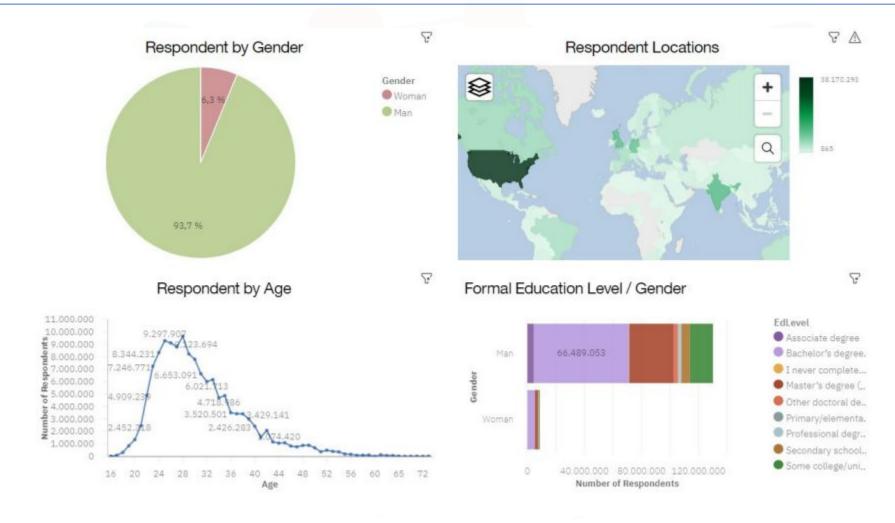
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript maintains widespread usage, while TypeScript gains popularity.
 More than 90% of
- developers are young males.
- Developer population predominantly situated in developed nations.

Implications

- Growing interest in JavaScript and TypeScript web frameworks.
- Developers' location and gender exhibit global disparities.
 Majority of young developers lack postgraduate studies.



CONCLUSION

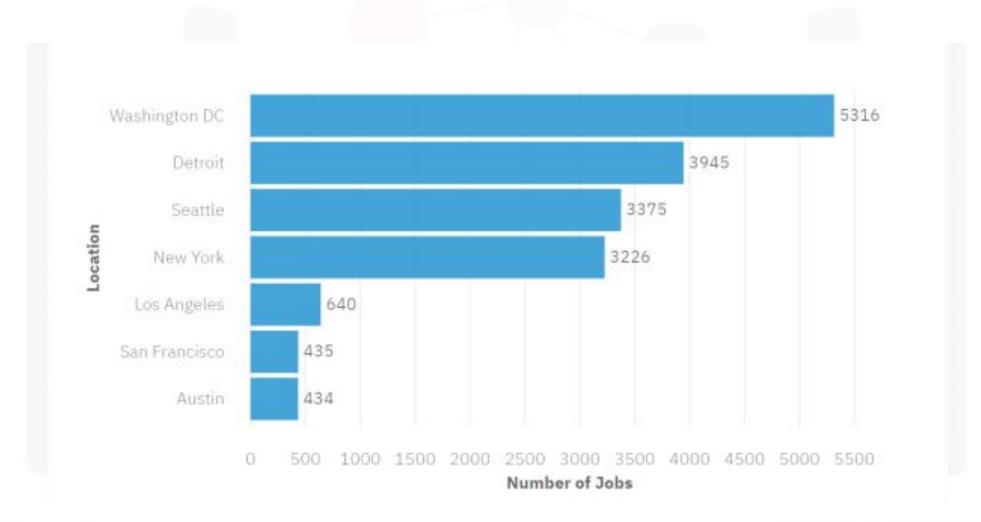


- Developers possess distinctive traits.
- Insights into popularity trends of various tools, platforms, and languages are attainable.
- Efforts are needed to enhance accessibility of this job market in developing countries.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

