

Stack Overflow Developers Survey

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OUTLINE



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



- Objective of data contextualization and analysis
- An explanation of the methodology
 - Data collection
 - Data interpretation
 - Data-driven graphics
- Results are presented with graphs and trends for context.
- A summary of the main conclusions and their consequences
- Final conclusions of the research that was done

INTRODUCTION



- The most extensive and biggest survey of coders worldwide is Stack Overflow's Developer Survey.
- Not every member of the development community is equally represented in the results.
- Almost 90,000 developers
- Trends that forecast the future direction of the development
- Descriptions of developers worldwide

METHODOLOGY



- Collect survey data & explore its content
 - Web Scraping
 - APIs
 - Request library
- Data Wrangling
- Exploratory data analysis
 - Analyzing data distribution
 - Handling Outliers
 - Correlations
- Data Visualizations
- Dashboards

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript continues to be the most popular
- Fastest-growing language is Python.
- a strong desire to use TypeScript

Implications

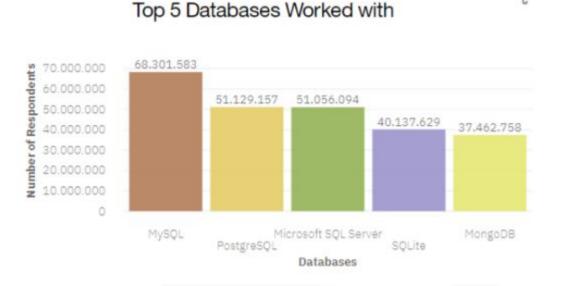
 Potential switch by developers from JavaScript to TypeScript

DATABASE TRENDS

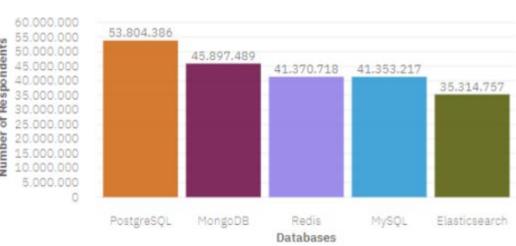
Current Year

Next Year

5







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DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- The most popular database is MySQL.
- Disinterest in SQLite and Microsoft SQL Server.
- Growing interest in MongoDB and PostgreSQL.

Implications

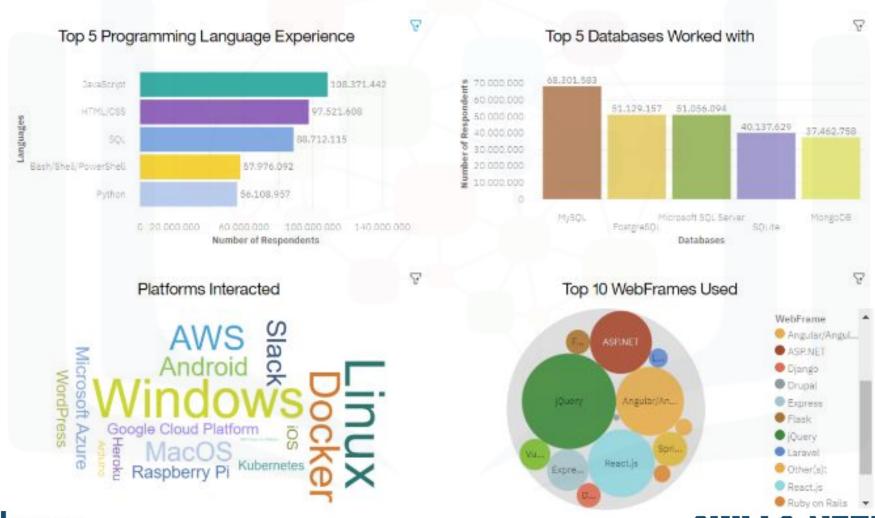
- Microsoft SQL Server and SQLite losing ground in the market.
- The introduction of MongoDB and PostgreSQL to the market.

DASHBOARD

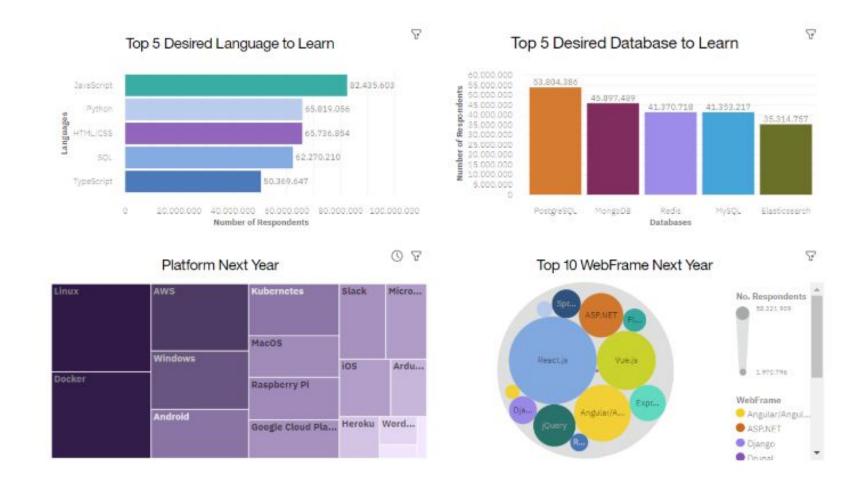


https://github.com/darwisy01/IBM-Data-Ana
lyst-Capstone-Project/blob/main/dashboard
s embedded.pdf

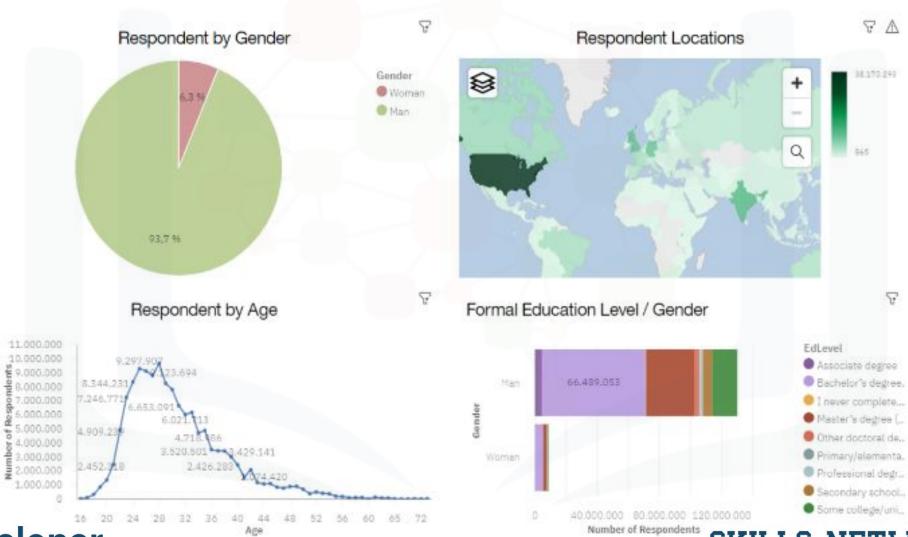
CURRENT TECHNOLOGY USAGE



FUTURE TECHNOLOGY TREND



DEMOGRAPHICS



IBM Developer

SKILLS NETWORK



OVERALL FINDINGS & IMPLICATIONS

Findings

- TypeScript is becoming more popular and JavaScript is extensively utilised.
- More than 90% of young men working as developers.
- Most developers are found in industrialised nations.

Implications

- Web frames with JavaScript and TypeScript are becoming more popular.
- Geographic and gender-based polarisation of developers worldwide.
- The majority of young developers lack postgraduate education.



CONCLUSION



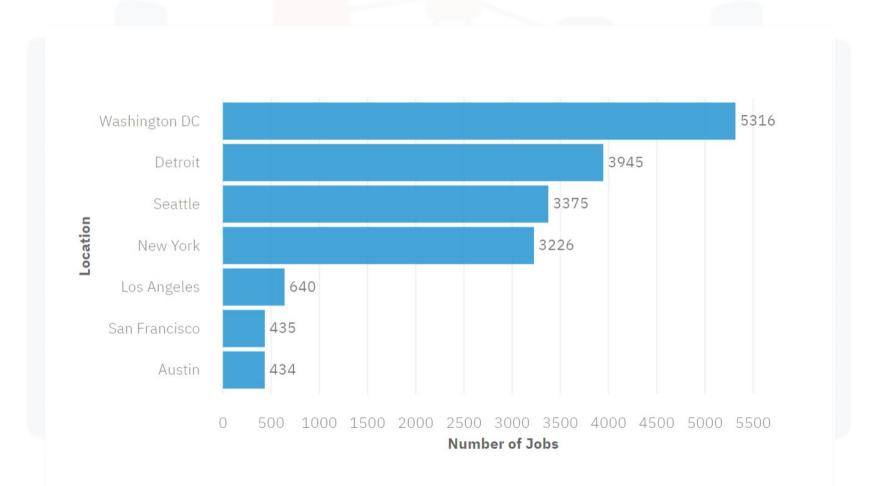
- Developers are individuals with distinct traits.
- One can acquire a decent understanding of the popularity trends of various tools, platforms, and languages.
- It is necessary to expand this labour market's accessibility to developing nations.

APPENDIX



 Included relevant additional charts that have created during the analysis phase.

JOB POSTINGS



POPULAR LANGUAGES

