



Stack Overflow Developer Survey Analysis and Presentation

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OUTLINE



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

EXECUTIVE SUMMARY



- Current and future trends in Programming Languages and Databases presented with supported graphs
- Demographics
- Technological gap in Countries
- Overall findings and final conclusions of the carried out research

INTRODUCTION



- Stack Overflow's annual Developer Survey is one of the most comprehensive survey of people who code around the world representing around 90,000 developers.
- Results might not represent everyone in the developer community but it help us in predicting the trends where exactly the developers are inclined towards and will be going in future.

METHODOLOGY



- Data Collection
- Data Wrangling
- Exploratory Data Analysis
- Data Visualization
- Dashboard Creation
- Presentation

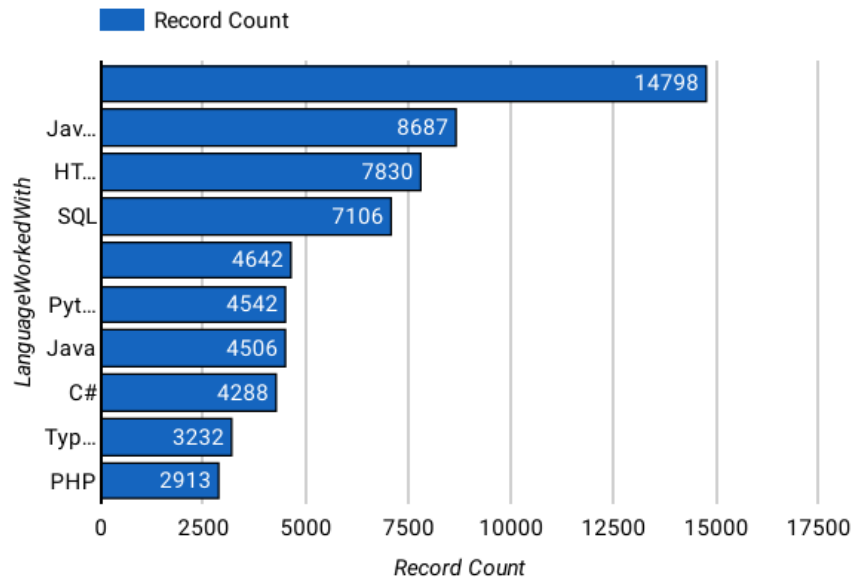
RESULTS



PROGRAMMING LANGUAGE TRENDS

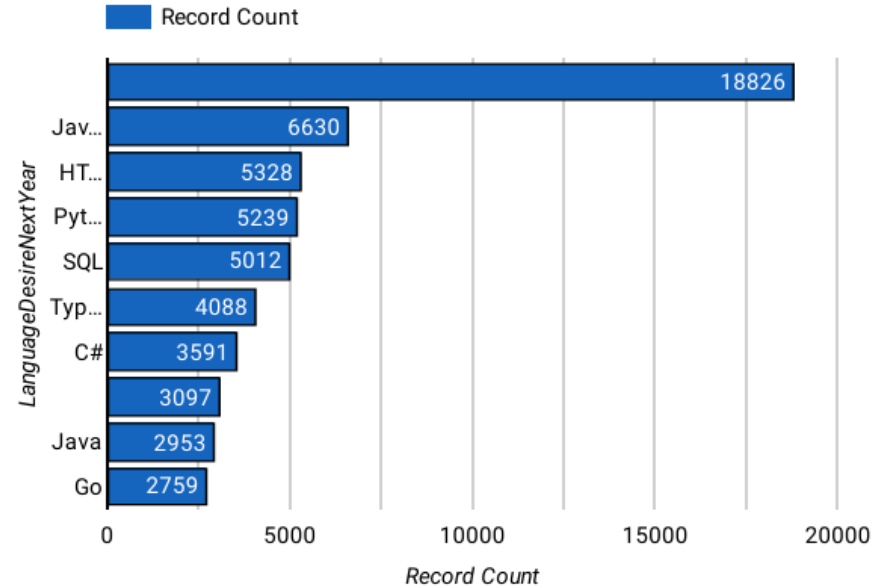
Current Year

Top 10 LanguageWorkedWith



Next Year

Top 10 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Currently JavaScript is a leading programming language developers are working.
- Python is the fastest growing language
- TypeScript also has a increase in interest

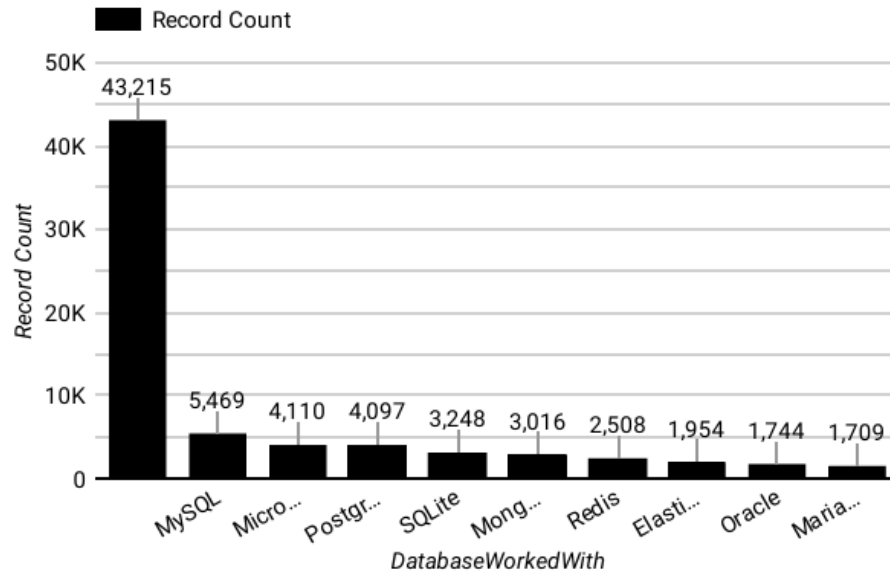
Implications

- There is a high chance in developers migrating from JavaScript to TypeScript

DATABASE TRENDS

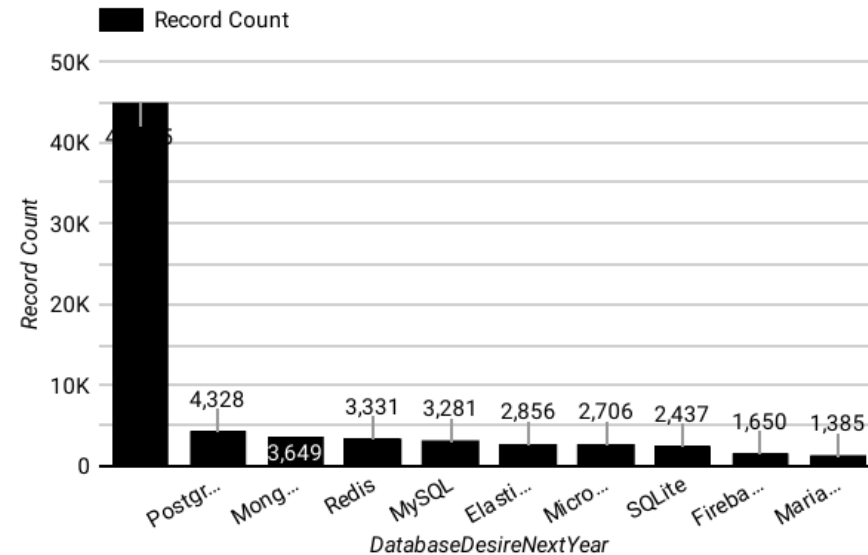
Current Year

Top 10 Databases Worked With



Next Year

Top 10 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the most used database.
- Increasing in interest is observed in PostgreSQL and MongoDB

Implications

- Microsoft SQL Server and SQLite are losing in the current and future market and others are getting established like MongoDB and PostgreSQL

DASHBOARD

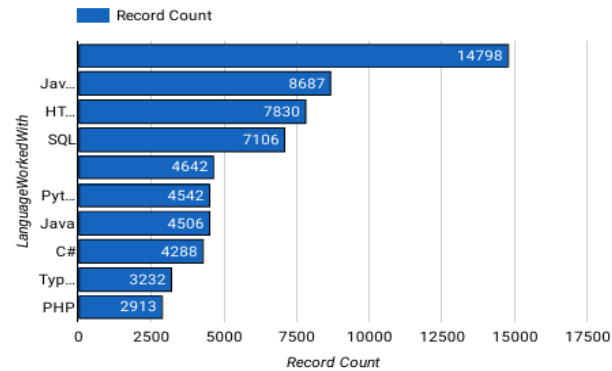


https://github.com/sreeja0501/data_capstone_project/blob/main/Data_Technologies.pdf

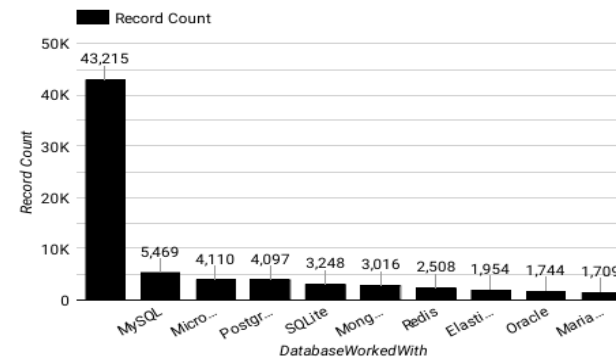
DASHBOARD TAB 1

Current Technology Usage

Top 10 LanguageWorkedWith



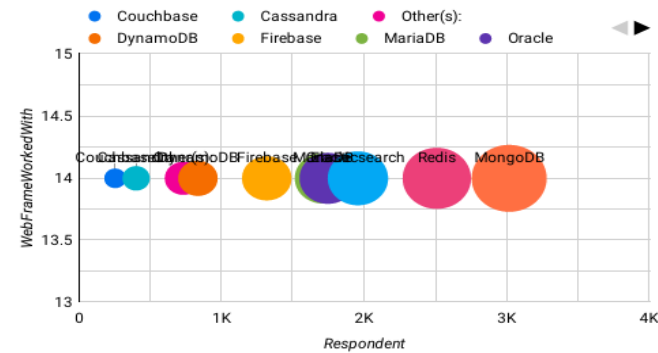
Top 10 DatabasesWorkedWith



PlatformWorkedWith



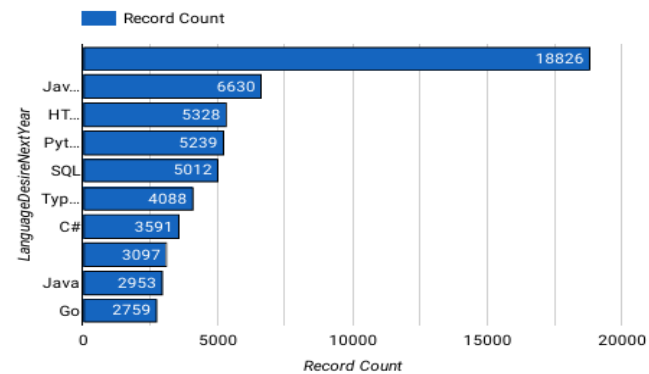
Top 10 WebFrameWorkedWith



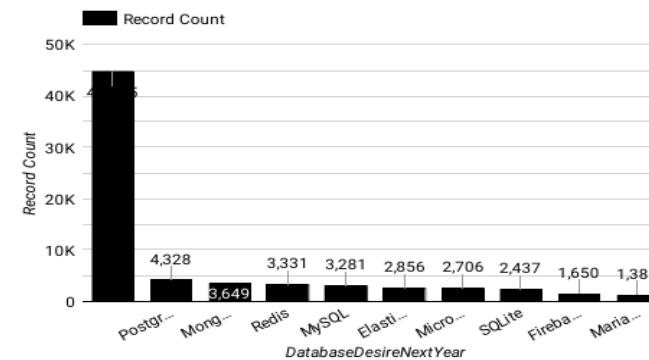
DASHBOARD TAB 2

Future Technology Trend

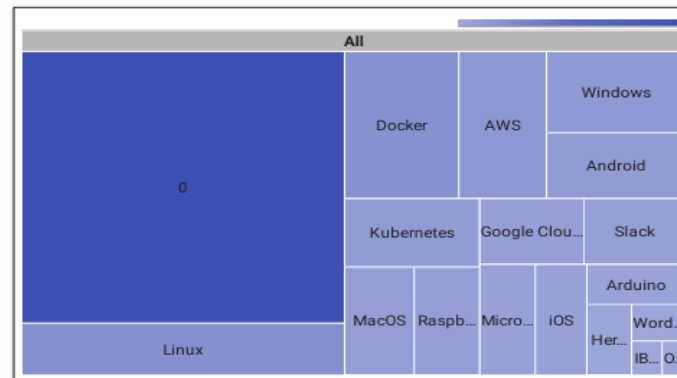
Top 10 LanguageDesireNextYear



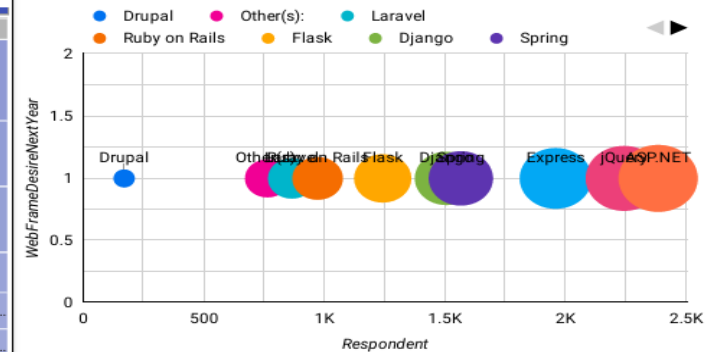
Top 10 DatabaseDesireNextYear



PlatformDesireNextYear



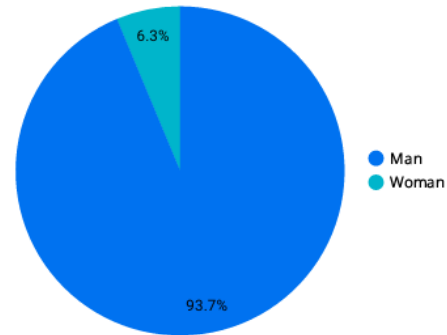
Top 10 WebFrameDesireNextYear



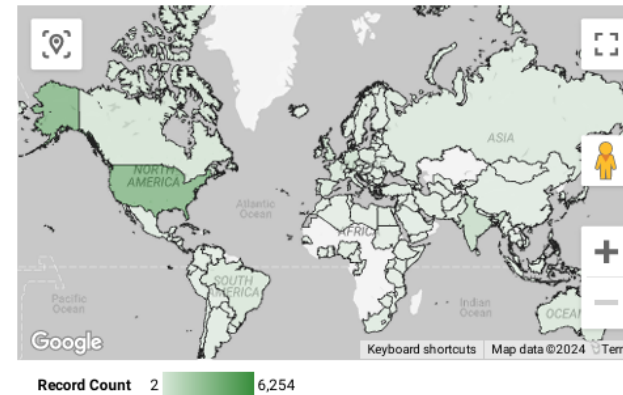
DASHBOARD TAB 3

Demographics

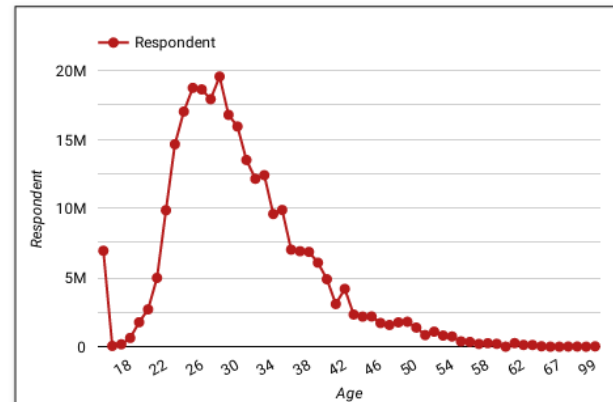
Respondent Classified by Gender



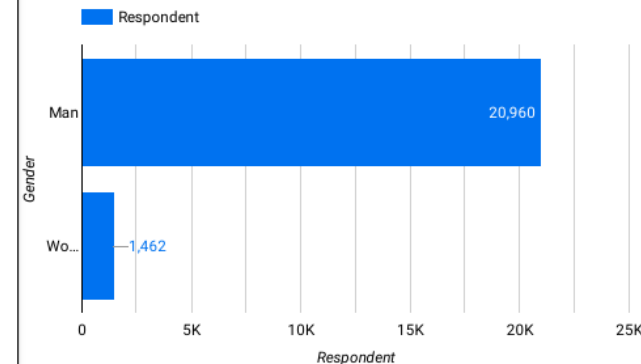
Respondent Count for Countries



Respondent Count by Age



Formal Education Level



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Developers are mostly located in the developed countries.
- Over 93% are male developers and majority in the age of 20 to 30.
- JavaScript is widely used by developers and TypeScript is the one in which developers are getting inclined nowadays.

Implications

- There are many young developers.
- Clear polarization is seen in the developers based on location and gender.

CONCLUSION

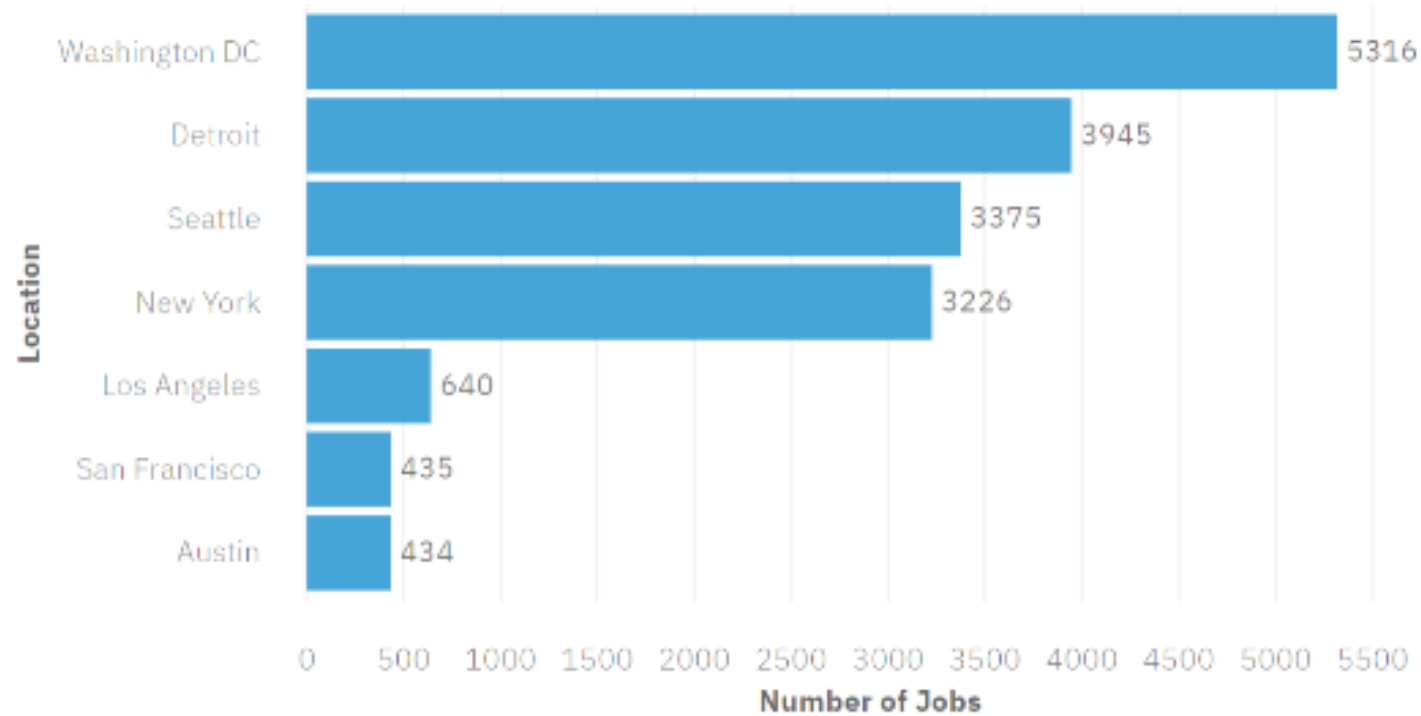


- A trend of different tools, platforms and languages can be obtained.
- Accessibility of the tools can be increased in the countries in development as well.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

