

Stack Overflow Developer Survey Analysis and Presentation

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OUTLINE



- Executive Summary
- Introduction
- Metholology
- 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 our research

INTRODUCTION



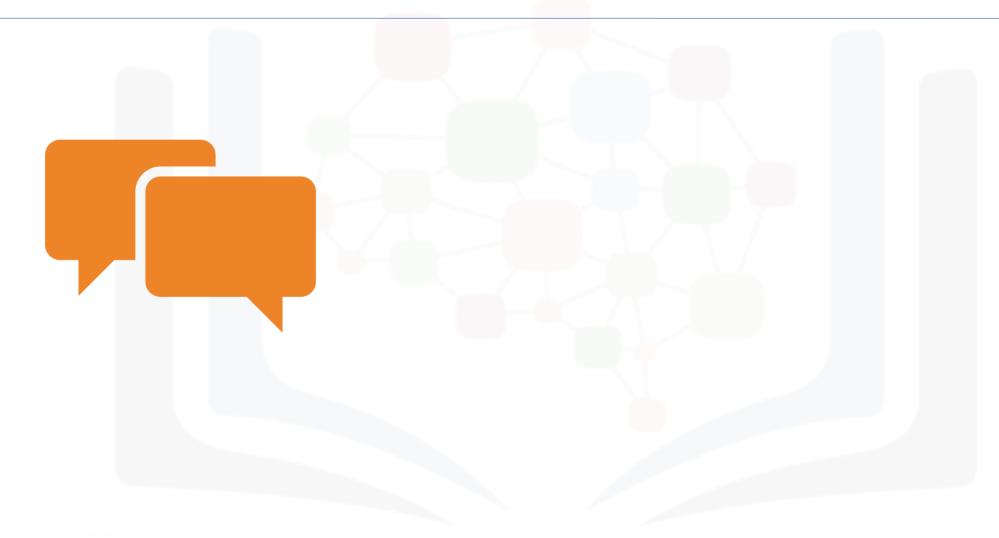
- Stack Overflow's annual Developer Survey is one of the most comprehensive survey of people who code around the world representing around 90,000 developers.
- Results might not represent everyone in the developer community but it help us in predicting the trends where exactly the developers are inclined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

METHODOLOGY



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

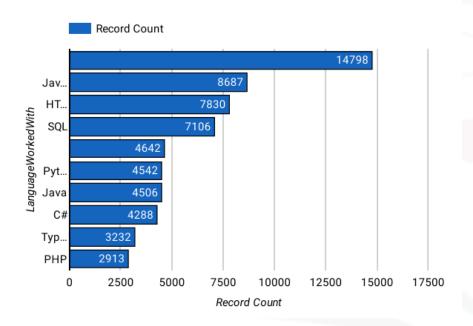
RESULTS



PROGRAMMING LANGUAGE TRENDS

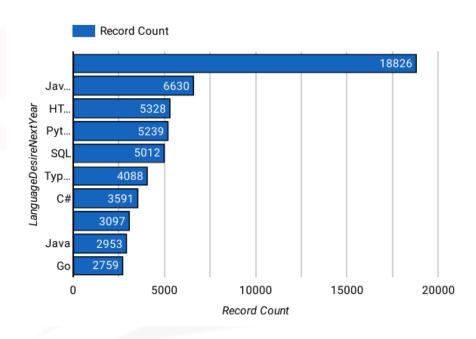
Current Year

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

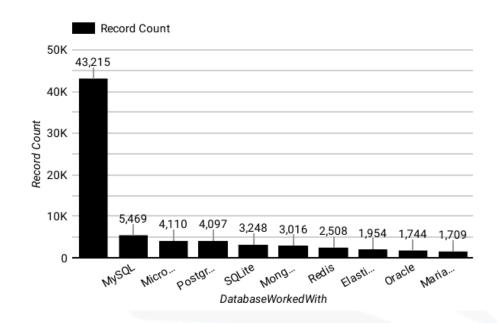
Implications

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

DATABASE TRENDS

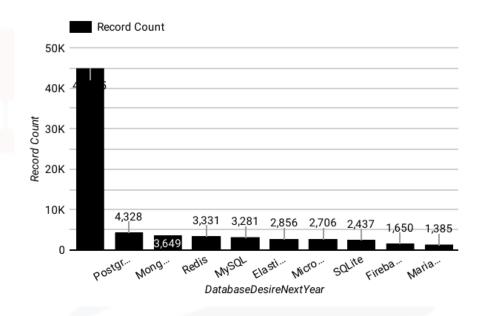
Current Year

Top 10 DatabasesWorkedWith



Next Year

Top 10 DatabaseDesireNextYear



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL is the most used database.
- Increasing in interest is observed in PostgreSQI 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

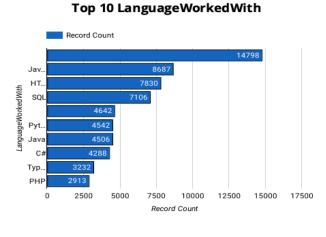
DASHBOARD



https://github.com/sreeja0501/final-capstone-presentation/blob/main/Final-capstone-story.pdf

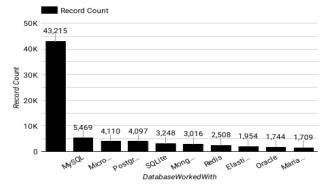
DASHBOARD TAB 1

Current Technology Usage





Top 10 DatabasesWorkedWith

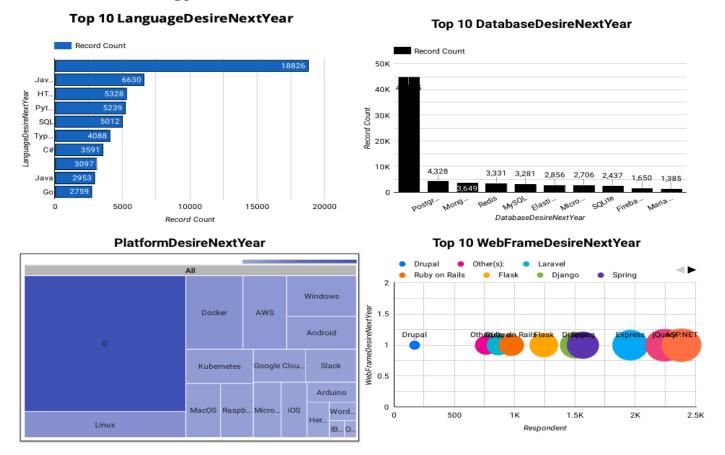


Top 10 WebFrameWorkedWith



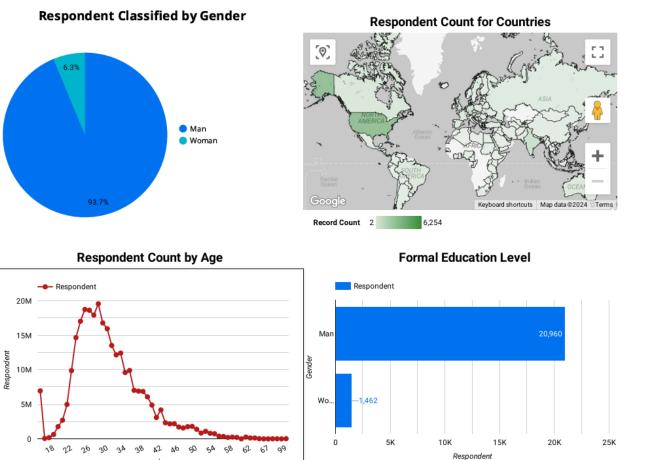
DASHBOARD TAB 2

Future Technology Trend



DASHBOARD TAB 3

Demographics



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

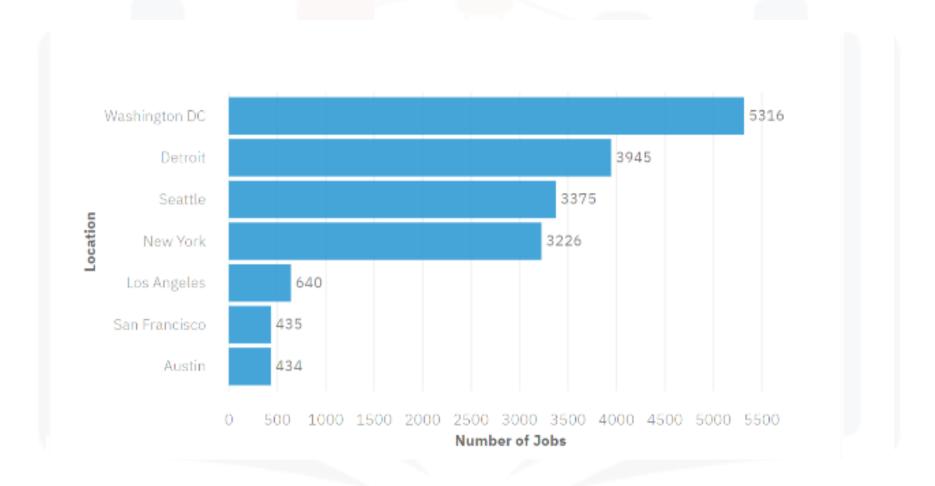


- A trend of different tools, platforms and languages can be obtained.
- Accessibility of the tools can be increased in the countries in development as well.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

