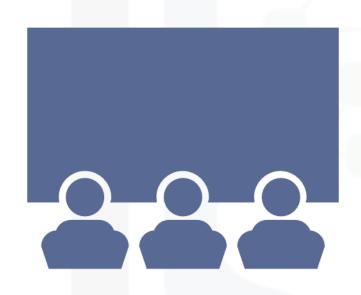


STACK OVERFLOW DEVELOPER SURVEY

Karan Suneja October 6, 2023

OUTLINE



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

EXECUTIVE SUMMARY



- Goal: Data contextualization and analysis
- Methodology description
 - Data Gathering
 - **Data Analysis**
 - Data Visualizations
- Results supported with graphs & trends
- Discussion of overall findings and implications
- Final conclusions of the carried out research.

INTRODUCTION



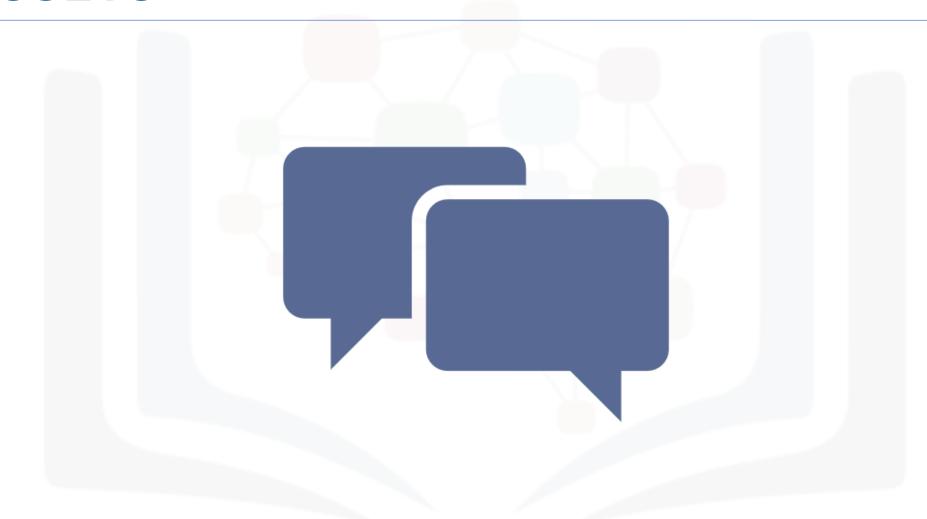
- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- Results don't represent everyone in the developer community evenly.
- There are nearly 90,000 developers.
- Trends to predict where the developers are going.
- Characterization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

METHODOLOGY



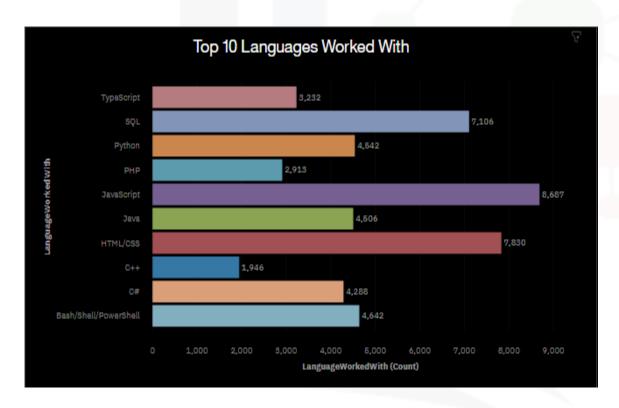
- Collect survey data & explore its contents :-
 - Web Scraping
 - APIs.
 - Request library
- Data Wrangling
- Exploratory Data Analysis
 - Analyzing data Distribution
 - **Handling Outliers**
 - Correlations
- Data Visualization
 - Highlight distribution of data, relationships, composition and comparison of data.
- Dashboards

RESULTS

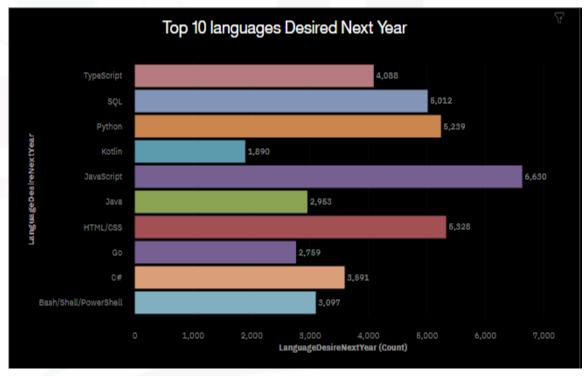


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

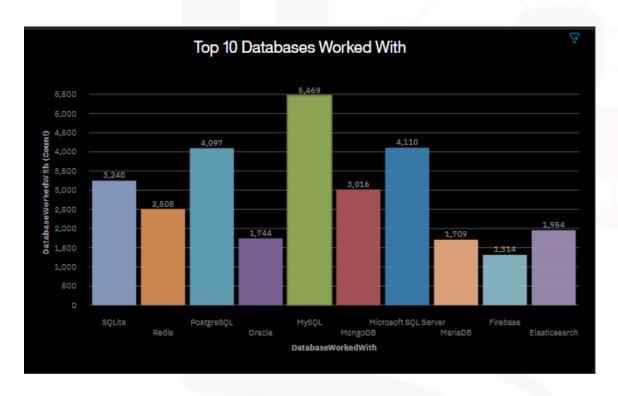
- JavaScript seems to keep as leading language.
- Python fastest-growing.
- Great interest in TypeScript

Implications

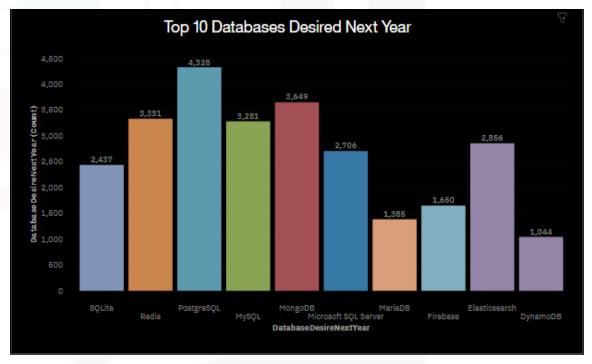
 Possible developers migration from JavaScript to TypeScript.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

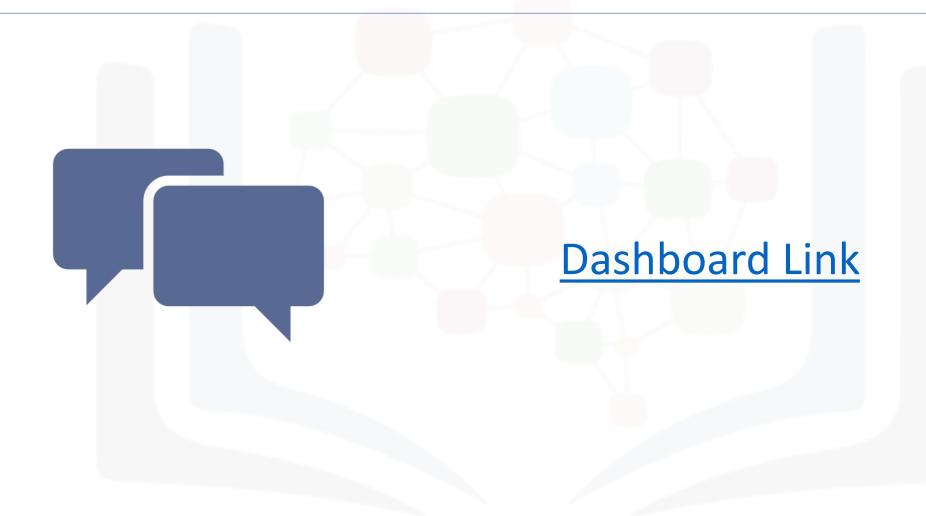
Findings

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

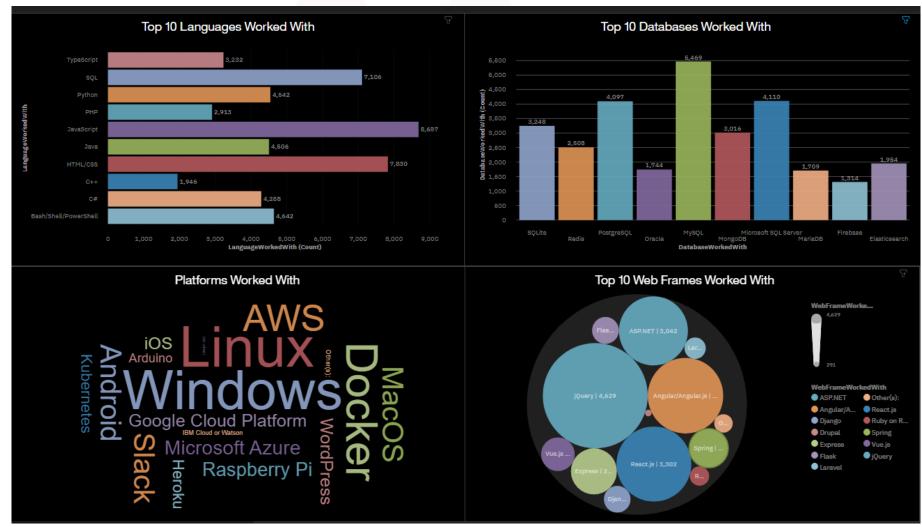
Implications

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

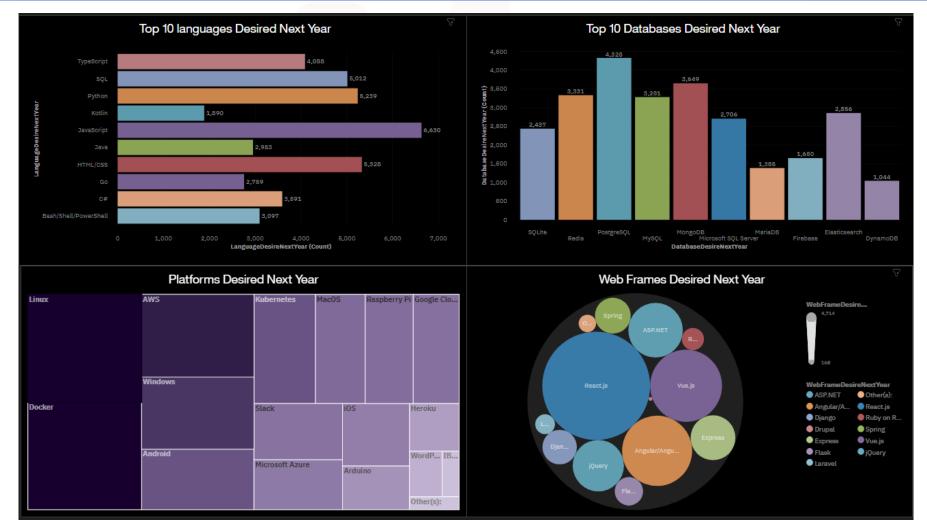
DASHBOARD



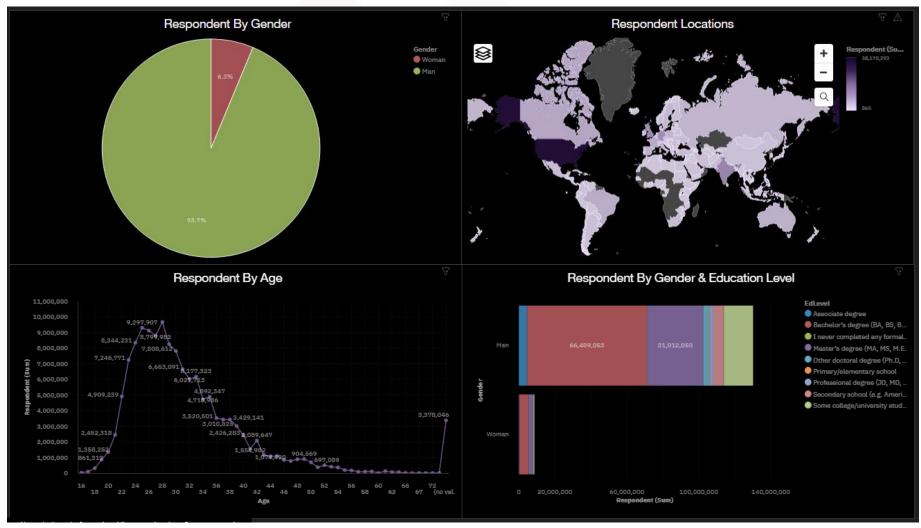
CURRENT TECHNOLOGY USAGE



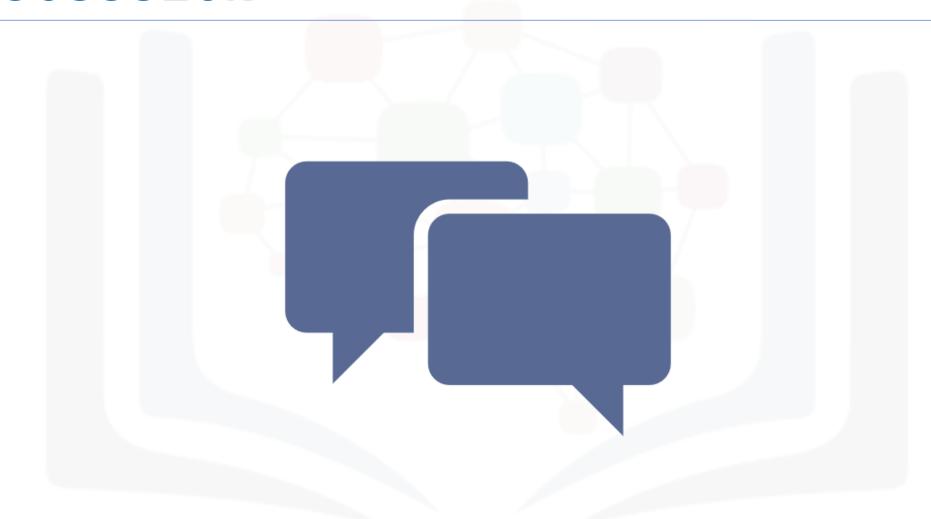
FUTURE TECHNOLOGY TREND



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



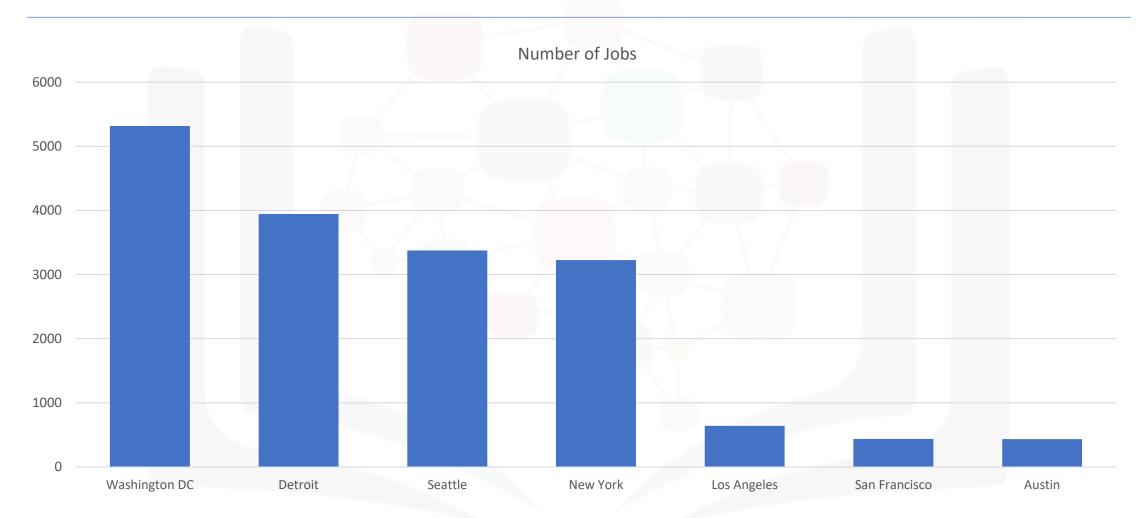
- Developers are people with very marked characteristics.
- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries in development.

APPENDIX





JOB POSTINGS



POPULAR LANGUAGES

