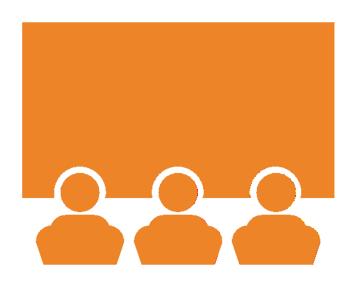


Stack Overflow Developer Survey Analysis 2019

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OUTLINE



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

EXECUTIVE SUMMARY



- Explanation of Project and Objective
- Methodology Description
 - Collecting Data
 - Analyzing Data
 - Visualising Data
- Presentation of Key Results
- Discussion of Findings
- Final Conclusion of the Research

INTRODUCTION



- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey that aims to measure trends of technical tools.
- Over 90K developers.
- Aim of the project is to analyse trend of the technical tools.
- Two objective of this project:
 - See the next trends.
 - Detect profile of developers.

METHODOLOGY



- Collect Data
 - Web Scraping
 - APIs
- Data Wrangling
 - Clean Data
- Exploratory Data Analysis
 - Distribution Analysis
 - Handling Outliers
 - Finding Correlations
- Data Visualization
 - Create Dashboards
 - Highlight Findings

RESULTS



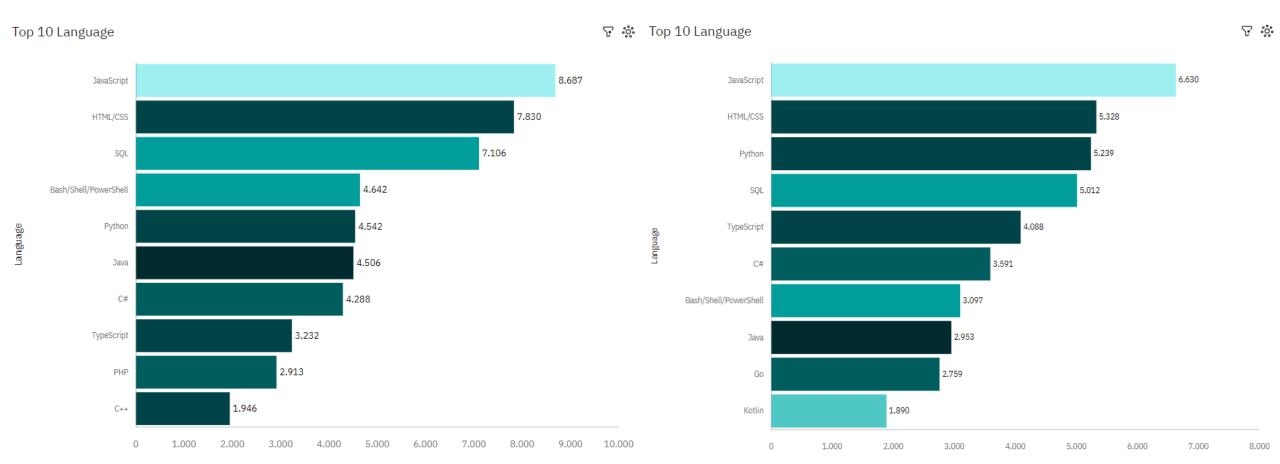
PROGRAMMING LANGUAGE TRENDS

Current Year

Number of Respondents

Next Year

Number of Respondents



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript and HTML/CSS keep leading position.
- Python and TypeScript is
 Shifting used languages. getting importance.
- Some languages lost their popularity meanwhile another languages such as Go gain popularity.

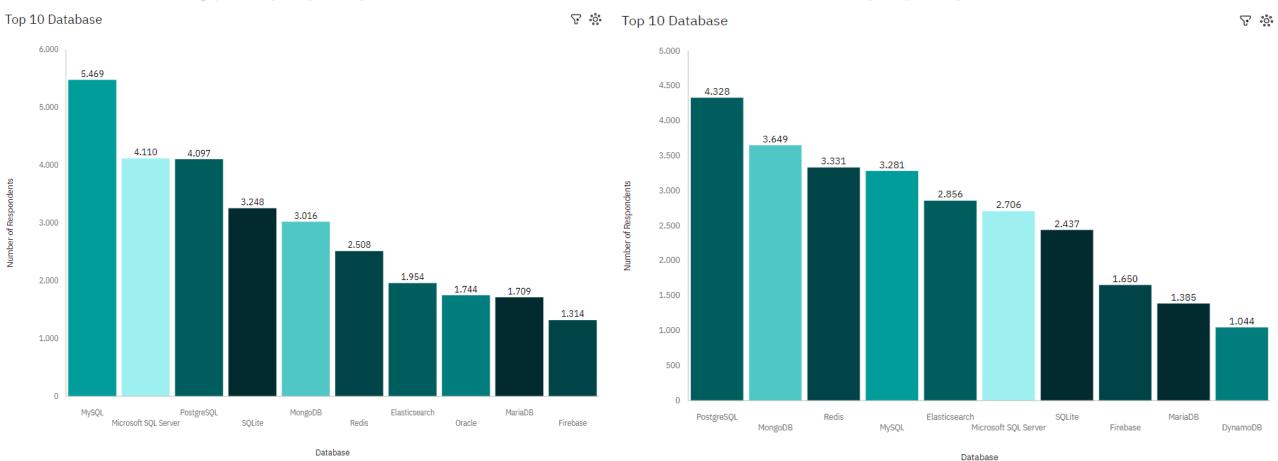
Implications

- Possible for developers to learn new languages.

DATABASE TRENDS

Current Year

Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Using database management system is not stable.
- MySQL lost its popularity meanwhile PostgreSQL took its place.
- Oracle was not popular anymore, dynamoDB gained popularity.

Implications

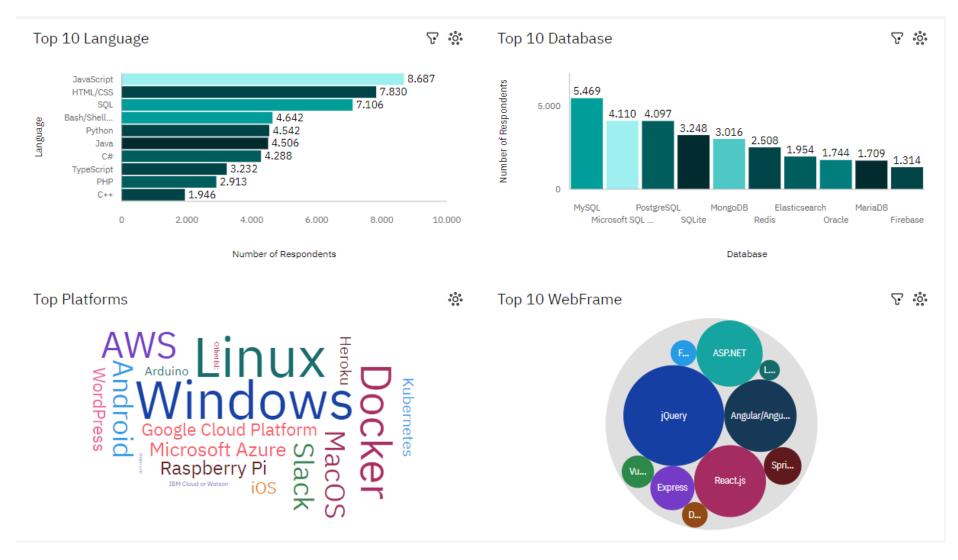
- Good to know more than one database management system.
- Follow-up trends are important.

DASHBOARD

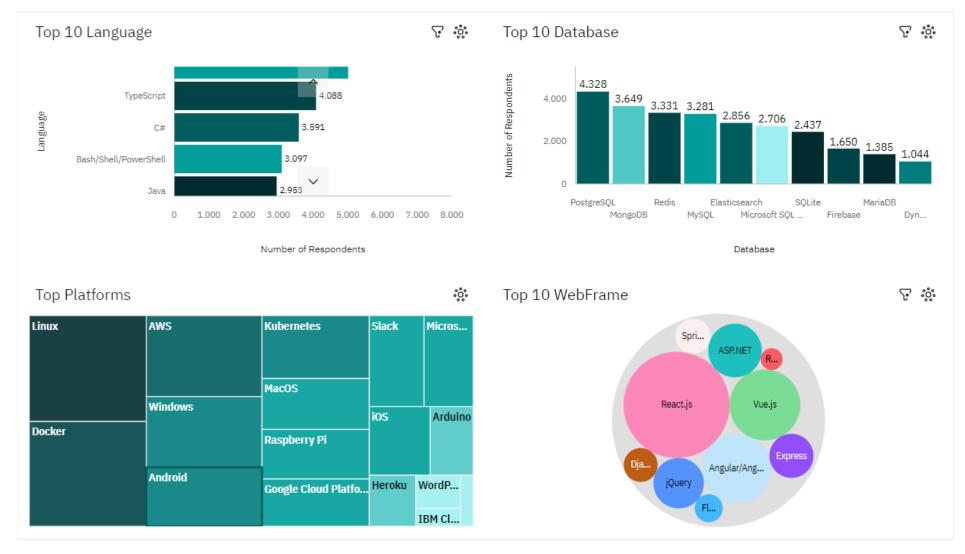


https://github.com/kadnur/PythonProject/ blob/main/Dashboard.pdf

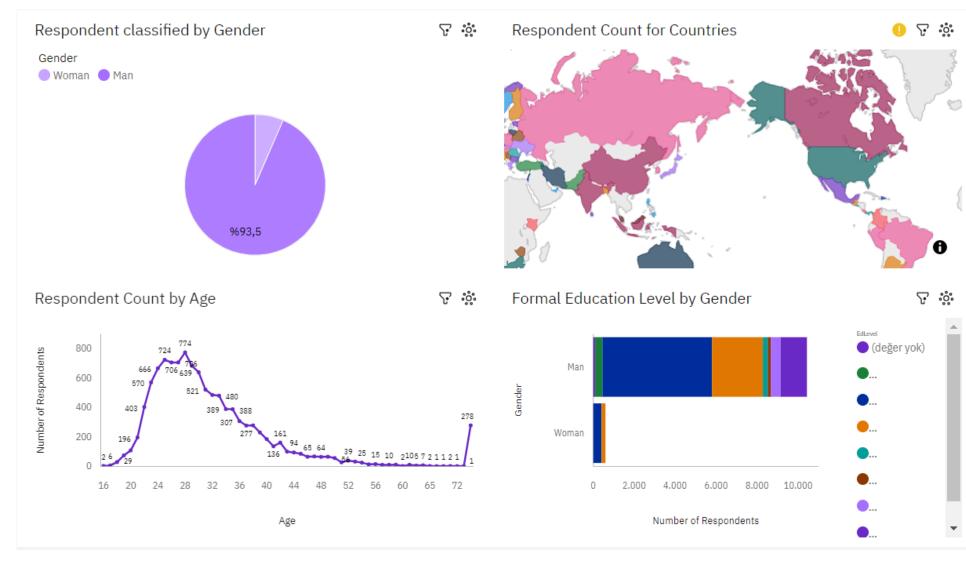
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Men are more interested in technology than women. Developers are generally located in developed countries.
- JavaScript is most popular language and Type Script is starting to be popular.
- Database management system is not stable.

Implications

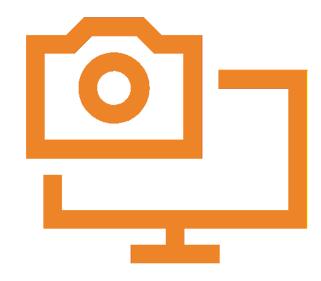
- Developers are polarized by geography and gender.
- Language trend is changing, good to learn new trends.
- Trends in databases are changing quickly, and we need to adapt at the same speed.

CONCLUSION

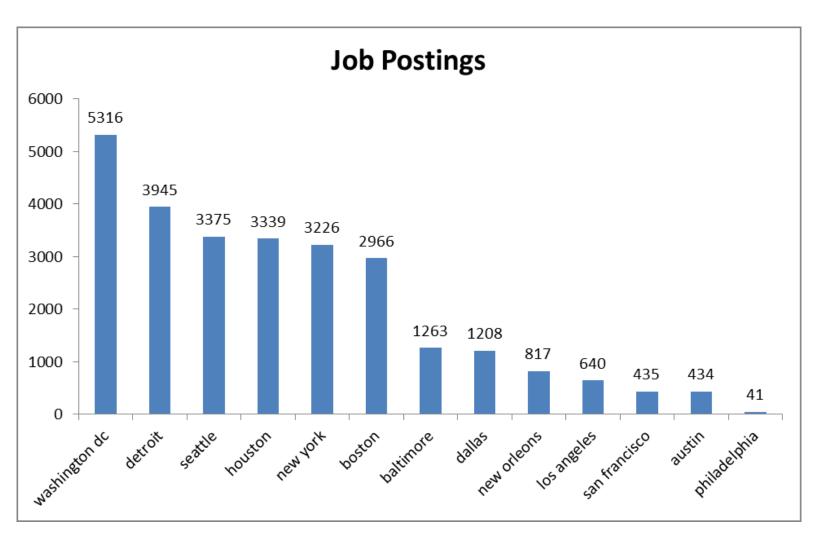


- Accurate trends in database and language can be obtained.
- There is a direct proportion between developed countries and where most developers live.
- Technology and tools shift and change quickly.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

