

TOP PROGRAMMING LANGUAGES SURVEY

Akash Skanthan P

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https://github.com/Akash-Skanthan

www.linkedin.com/in/akash-skanthan

OUTLINE



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

EXECUTIVE SUMMARY



- Data contextualization and analysis goal.
- Methodology description.
 - · Data gathering.
 - Data analysis.
 - Data visualizations.
- Results presentation supported with graphs and trends.
- Discussion of overall findings and implications regarding the results previously exposed.
- 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.
- Nearly 90,000 developers are found.
- Trends to predict where the developers are going.
- Characterization of developers around the globe.

METHODOLOGY



- Collect survey data & explore its content
 - Web Scraping
 - APIs.
 - Request library.
- **Data Wrangling**
- Exploratory data analysis
 - Analyzing data distribution.
 - Handling outliers.
 - Correlations.
- **Data Visualization**
 - Highlight distribution of data, relationships, the composition and comparison of data.
- **Dashboards**



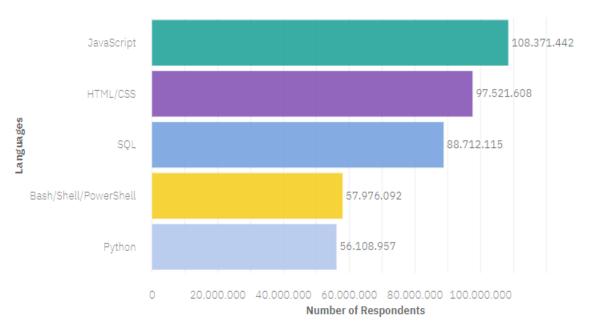
RESULTS



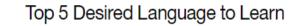
PROGRAMMING LANGUAGE TRENDS

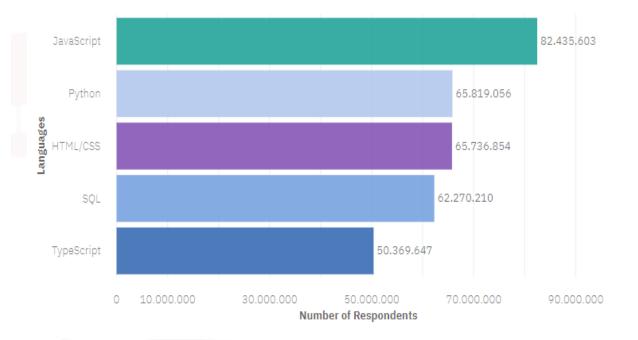
Current Year

Top 5 Programming Language Experience



Next Year









5

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

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

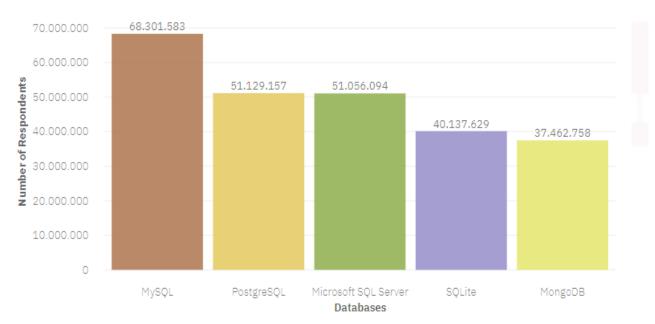
Implications

 Possible developers migration from JavaScript to TypeScript.

DATABASE TRENDS

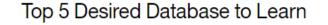
Current Year

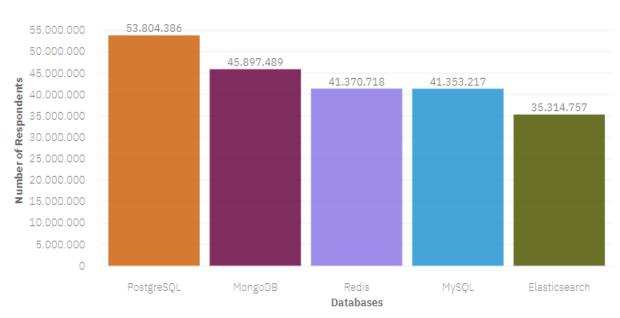
Top 5 Databases Worked with



Next Year

T









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



https://github.com/Akash-

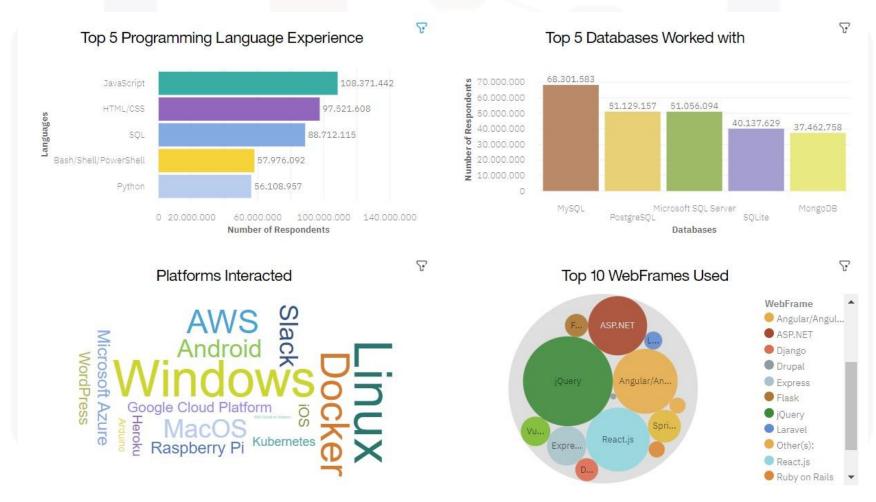
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Dashboard-using-Cognos-

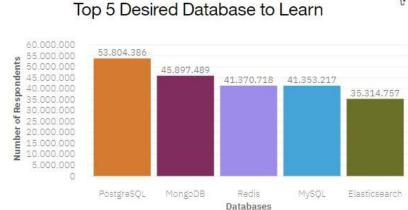
Dashboard.pdf

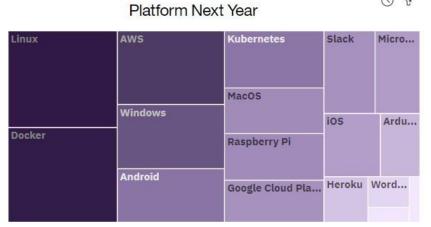
CURRENT TECHNOLOGY USAGE

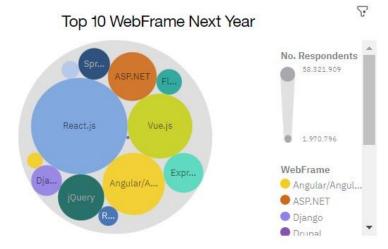


FUTURE TECHNOLOGY TREND

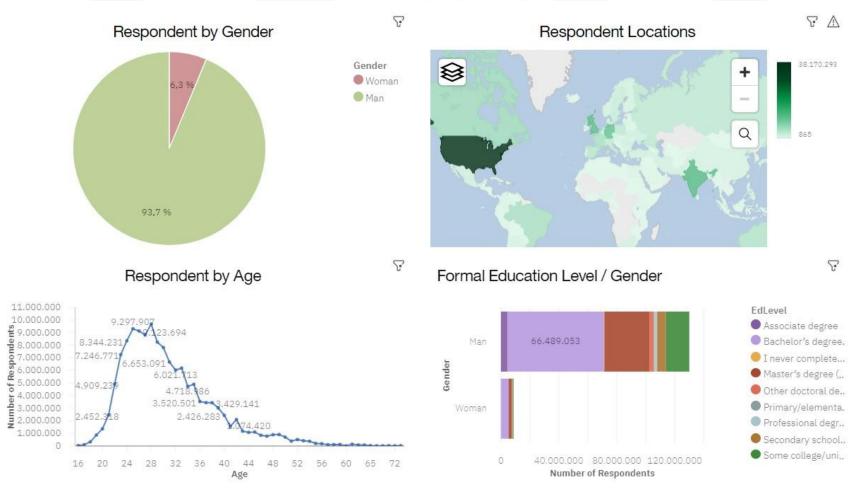








DEMOGRAPHICS



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

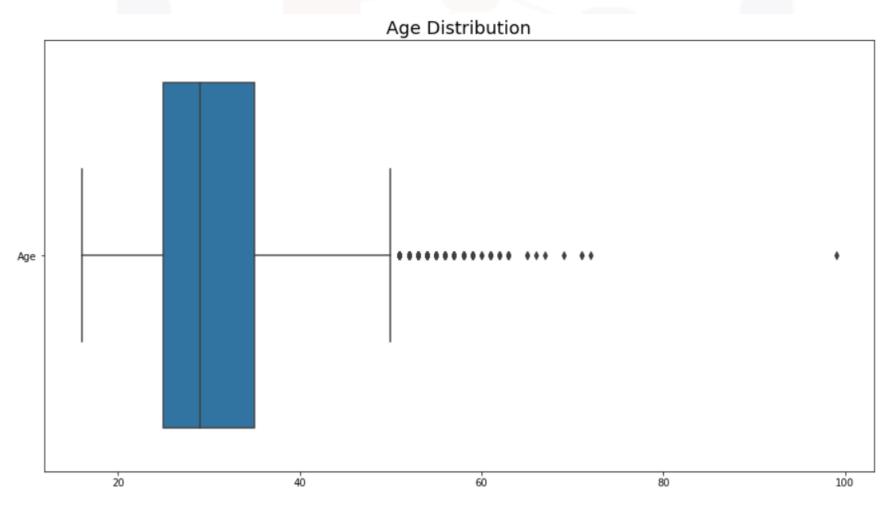


- Developers are people with very marked characteristics.
- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries in development.

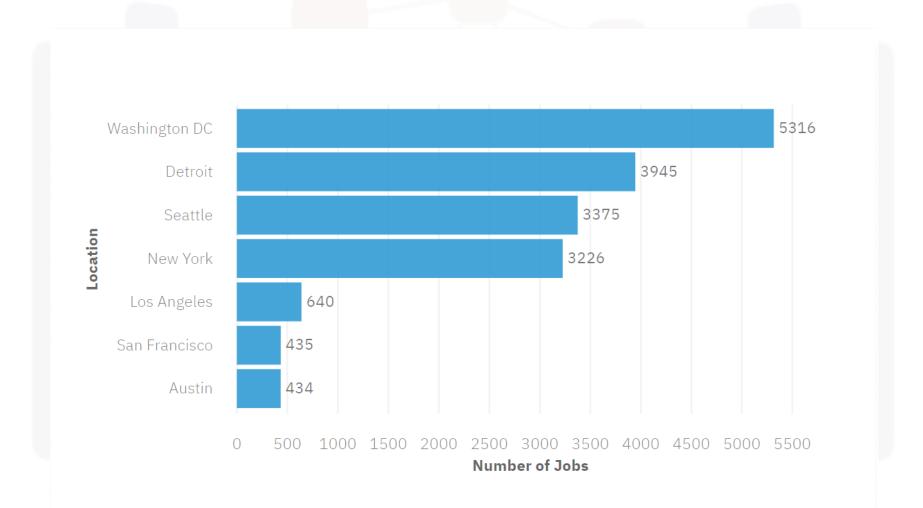
APPENDIX



AGE DISTRIBUTION BOXPLOT



JOB POSTINGS



POPULAR LANGUAGES

