



STACK OVERFLOW DEVELOPER SURVEY 2019

Aleksandra Moscinska

22.03.2024

Linkedin: www.linkedin.com/in/aleksandra-moścńska

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 visualisations
- 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
- Almost 90,000 devs
- Trends to predict where the developers are going
- Characterization of developers around globe

METHODOLOGY



- Collect survey data & explore its content
- Data wrangling
- Exploratory data analysis
- Data visualization
- Dashboards

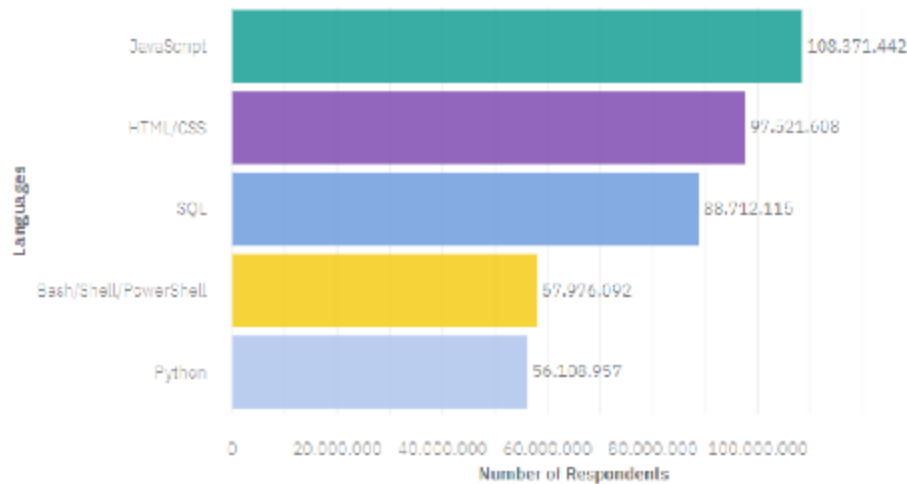
RESULTS



PROGRAMMING LANGUAGE TRENDS

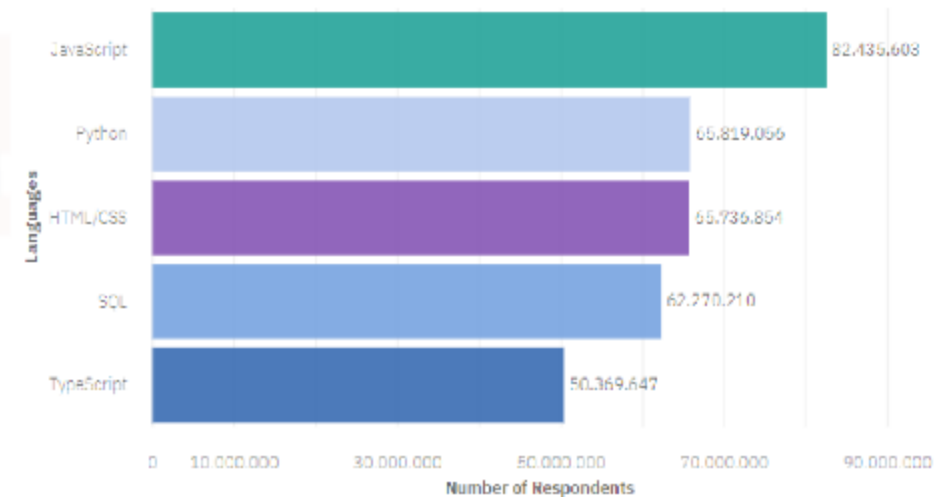
Current Year

Top 5 Programming Language Experience



Next Year

Top 5 Desired Language to Learn



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Javascript seems to keep as leading language
- Python fastest-growing
- Big interest in TypeScript

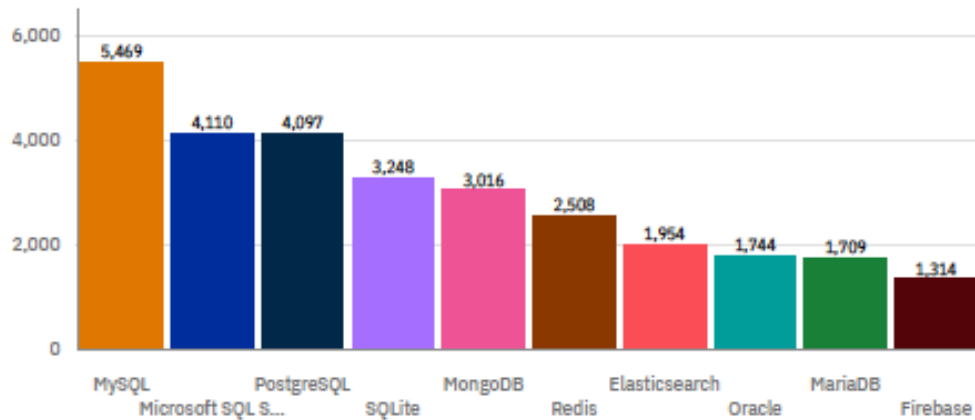
Implications

- Possible devs migration from Java to TypeScript

DATABASE TRENDS

Current Year

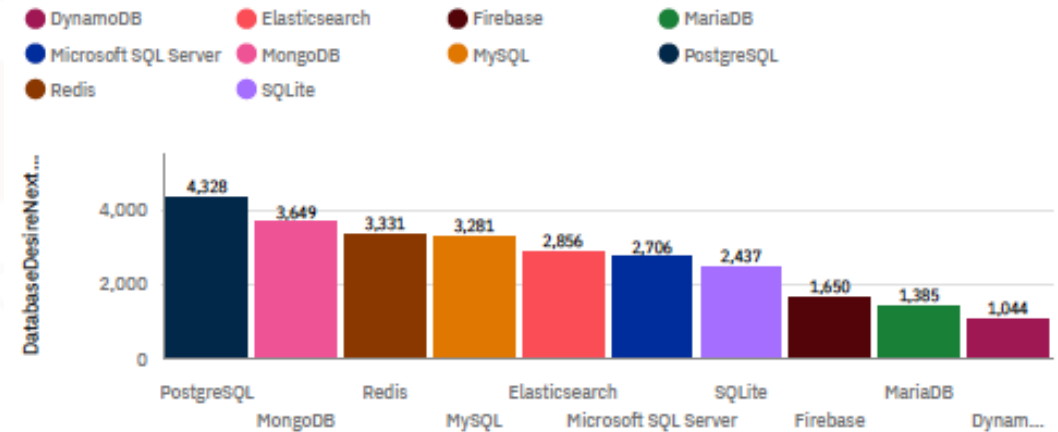
Top 10 Database Worked With



DatabaseWorkedWith

Next Year

Top 10 Database Desire Next Year



DatabaseDesireNextYear

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL most used database
- Increasing interest in PostgreSQL
- Lack of interest in Microsoft SQL Server

Implications

- PostgreSQL and BongoDB establishment in the market
- Microsoft SQL Server and SQLite losing interest

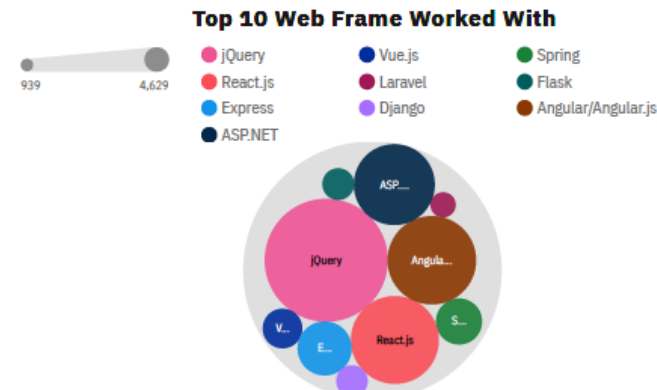
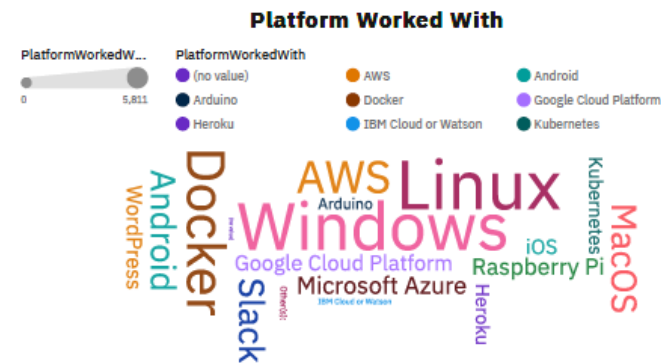
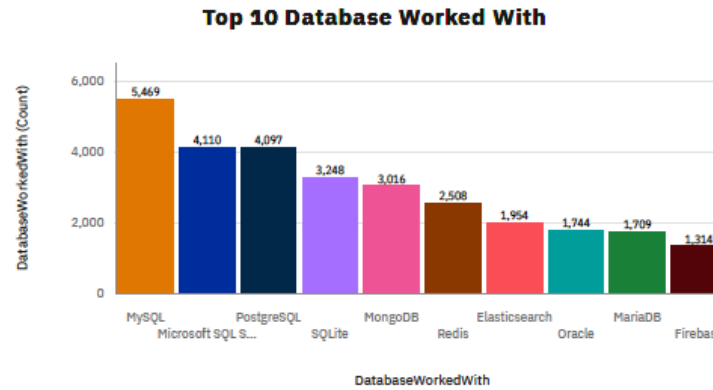
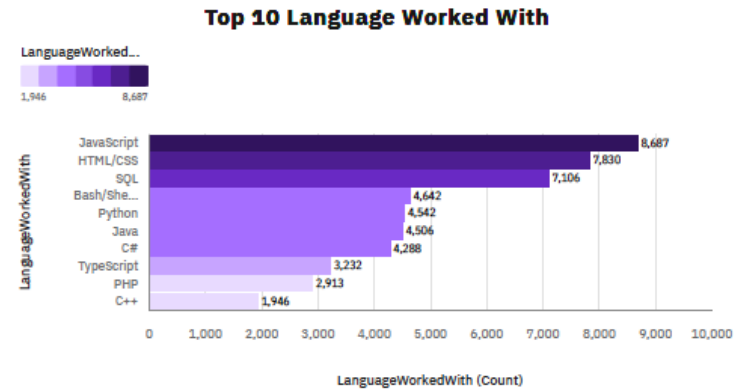
DASHBOARD



https://github.com/moscinskax/Capstone_Project_IBM/blob/main/Dashboards_on_Cognos.pdf

DASHBOARD TAB 1

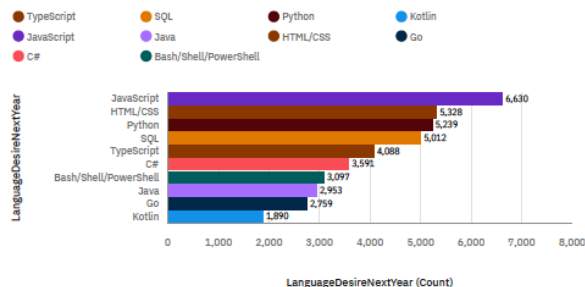
Current Technology Usage



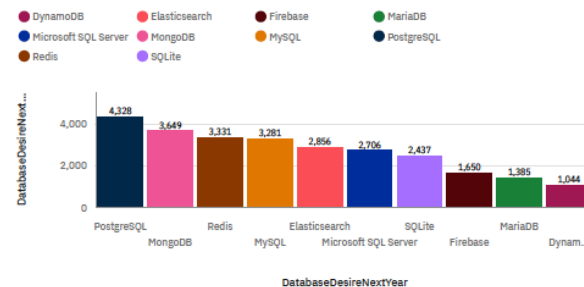
DASHBOARD TAB 2

Future Technology Trend

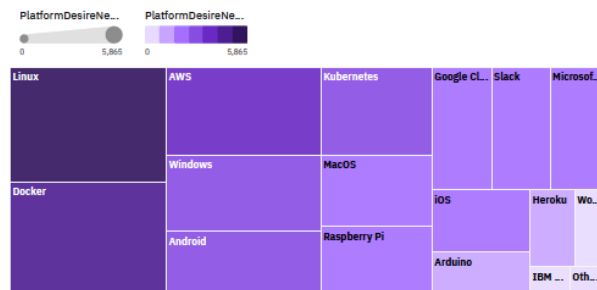
Top 10 Language Desire Next Year



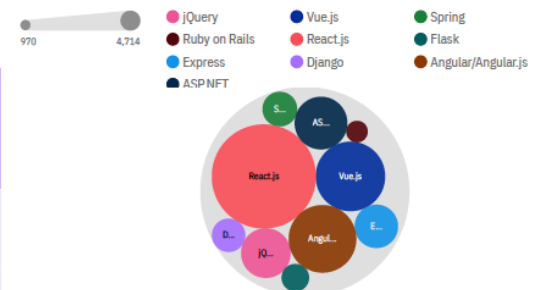
Top 10 Database Desire Next Year



Platform Desire Next Year



Top 10 Web Frame Desire Next Year



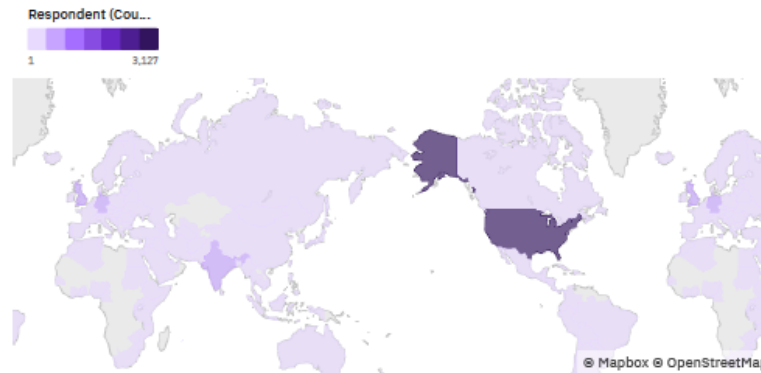
DASHBOARD TAB 3

Demographics

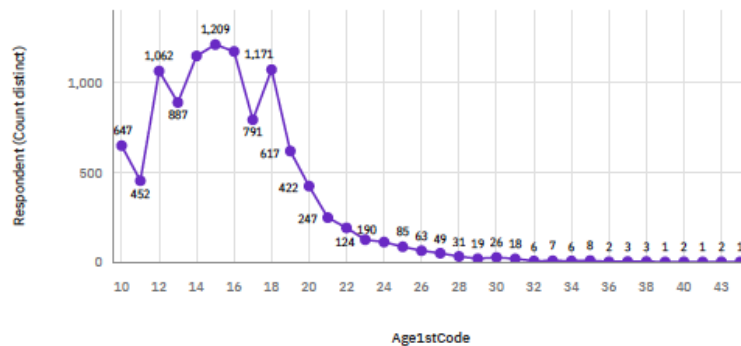
Respondent classified by Gender



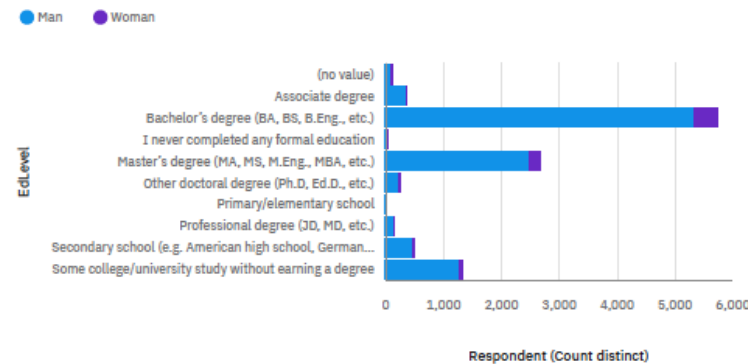
Respondent Count for Countries



Respondent Count by Age



Respondent Count by Gender and Formal Education Level



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Javascript widely used and Typescript getting popular
- Over 90% young male devs
- Devs mostly located in developed countries

Implications

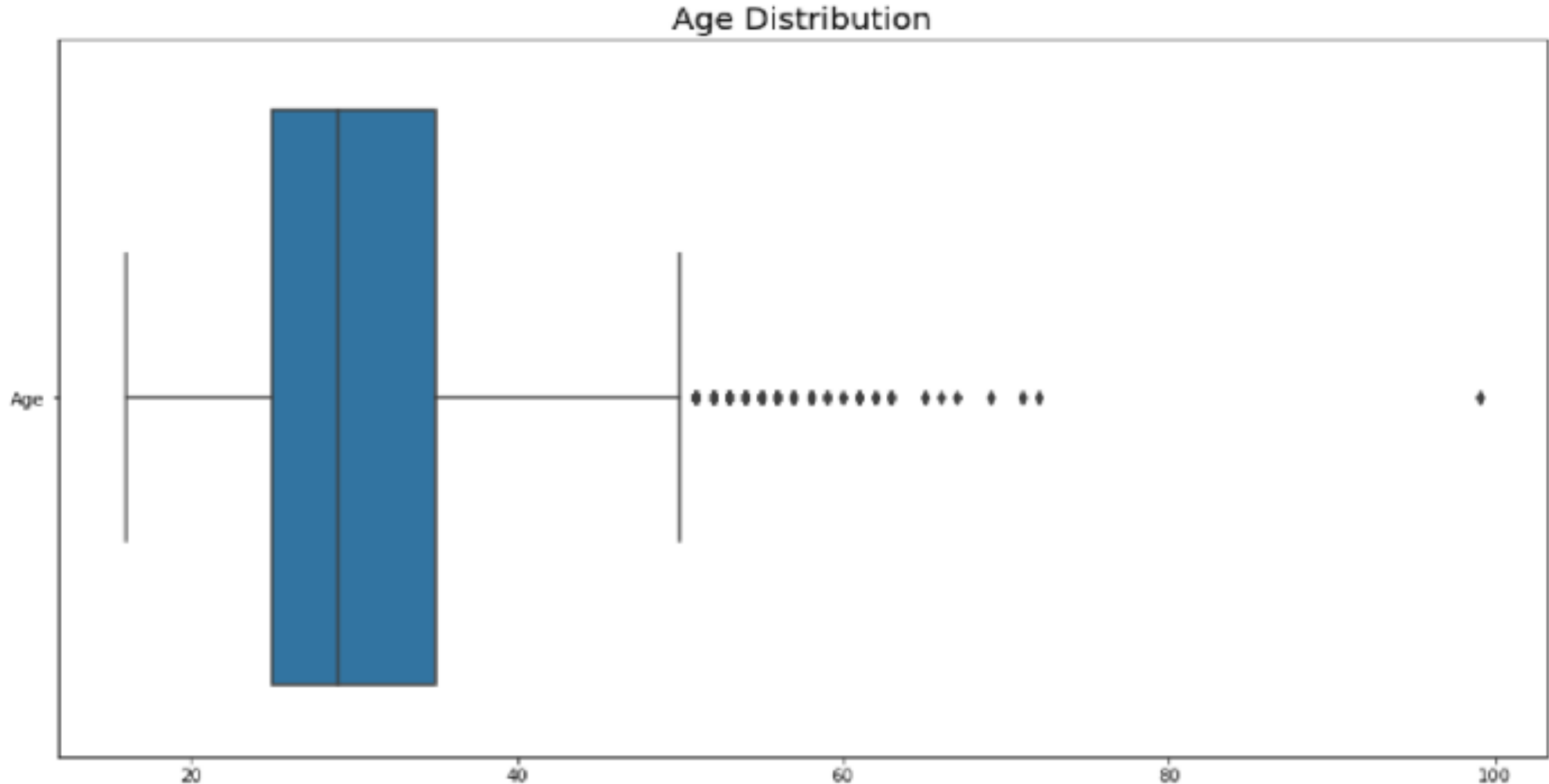
- JavaScript and TypeScript web frames gaining followers
- Global polarization of devs location and gender
- Young devs without postgrad studies on its majority

CONCLUSION

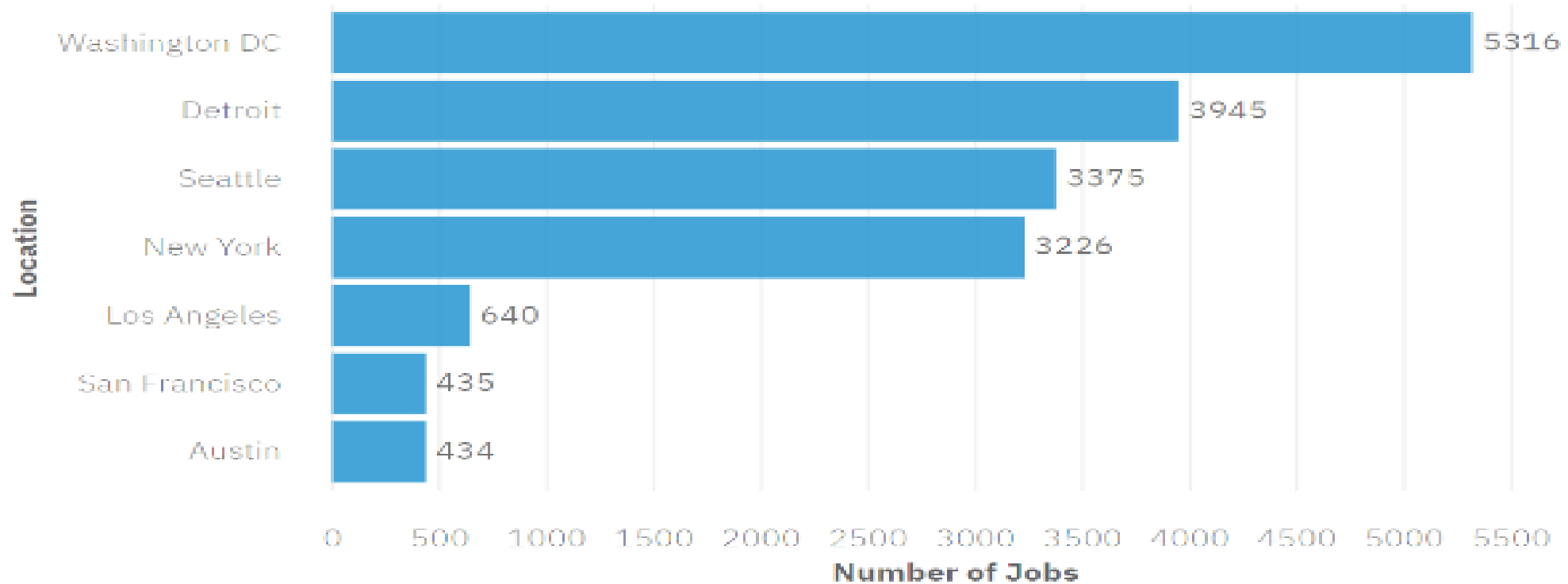


- Devs are people with very marked characteristics,
- A good idea of popularity trends of different tools, platforms and languages can be obtained,
- There is a job to be done to spread accessibility of this labor market to counties in development

AGE DISTRIBUTION BOXPLOT



JOB POSTINGS



POPULAR LANGUAGES

