

Stack Overflow Developer Survey

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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.
- Trends to predict where the developers are going.
- Characterization of developers around the globe.

METHODOLOGY

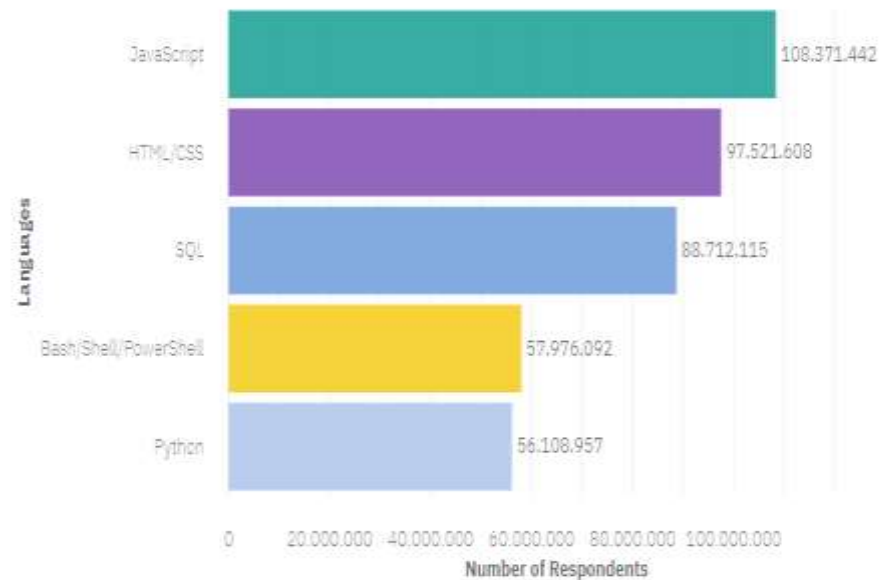


- Collect survey data & explore its content
- Web Scraping
- APIs.
- Request library.
- Data Wrangling
- Exploratory data analysis
- Analyzing data distribution.
- Handling outliers.
- Correlations.
- Data Visualization
- Highlight distribution of data, relationships, the composition and comparison of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

PROGRAMMING LANGUAGE TRENDS

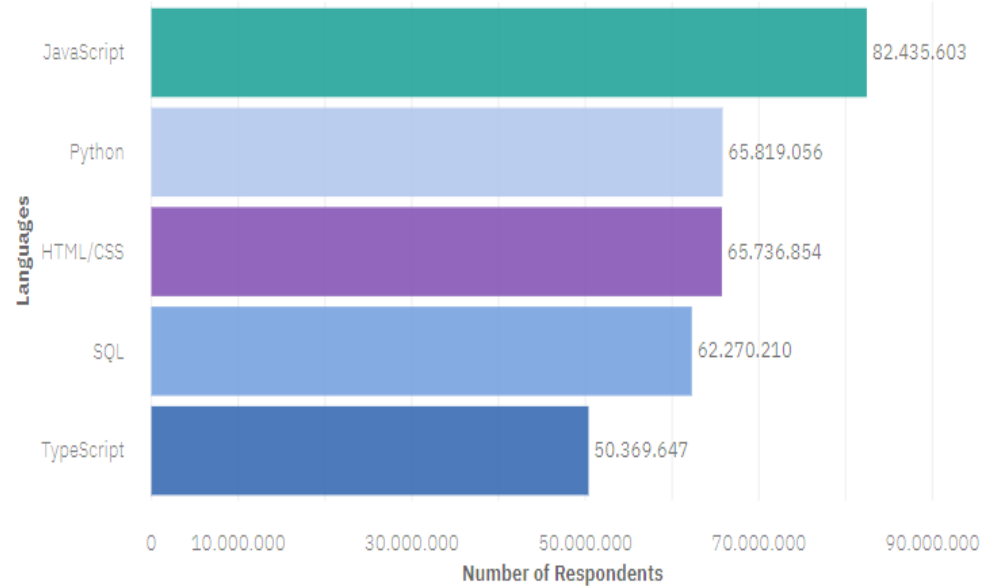
Current Year

Top 5 Programming Language Experience



Next Year

Top 5 Desired Language to Learn



PROGRAMMING LANGUAGE TRENDS-FINDINGS & IMPLICATIONS

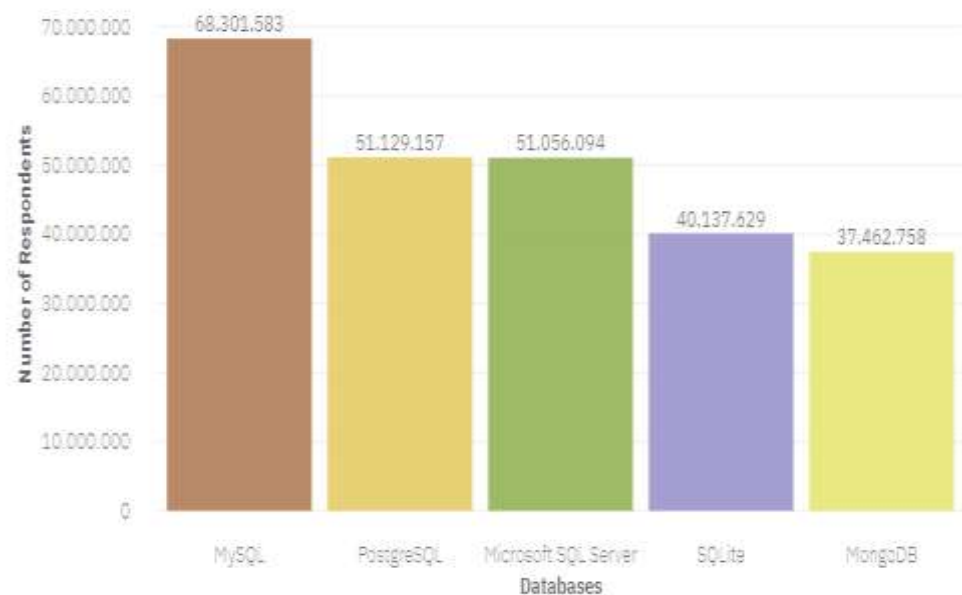
- Findings
 - JavaScript seems to keep as leading language.
 - Python fastest-growing.
 - Great interest in TypeScript
- Implications
 - Possible developers migration from JavaScript to TypeScript.

DATABASE TRENDS

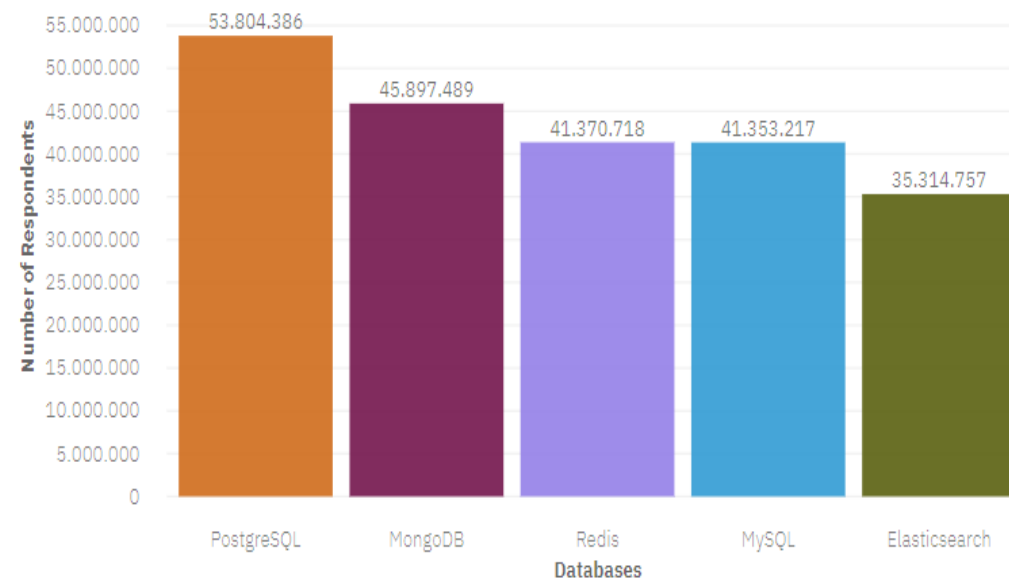
Current Year

Next Year

Top 5 Databases Worked with



Top 5 Desired Database to Learn

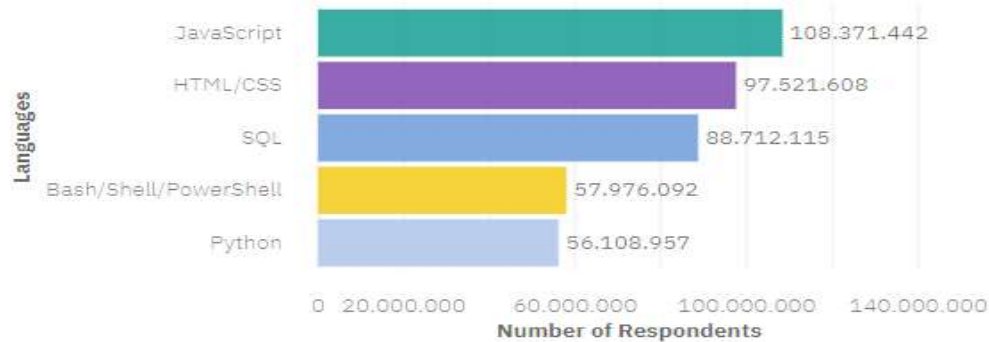


DATABASE TRENDS – FINDINGS & IMPLICATIONS

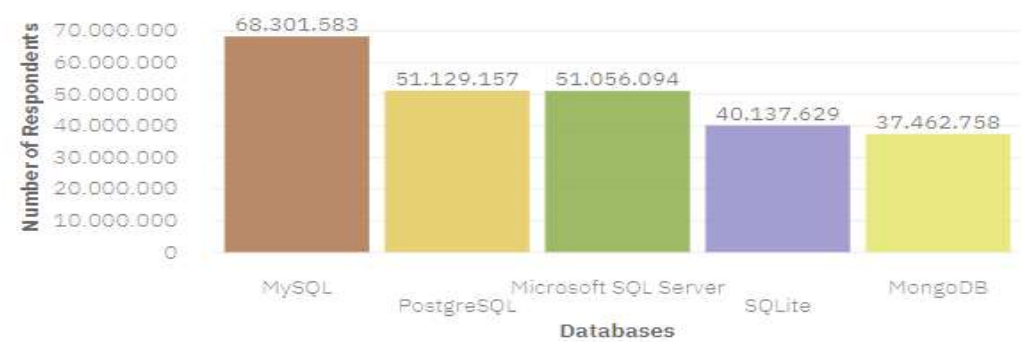
- Findings
 - MySQL as most used database.
 - Lack of interest in Microsoft SQL Server and SQLite.
 - Increasing interest in PostgreSQL and MongoDB.
- Implications
 - Microsoft SQL Server and SQLite losing ground in the market.
 - PostgreSQL and MongoDB establishment in the market.

CURRENT TECHNOLOGY USAGE

Top 5 Programming Language Experience



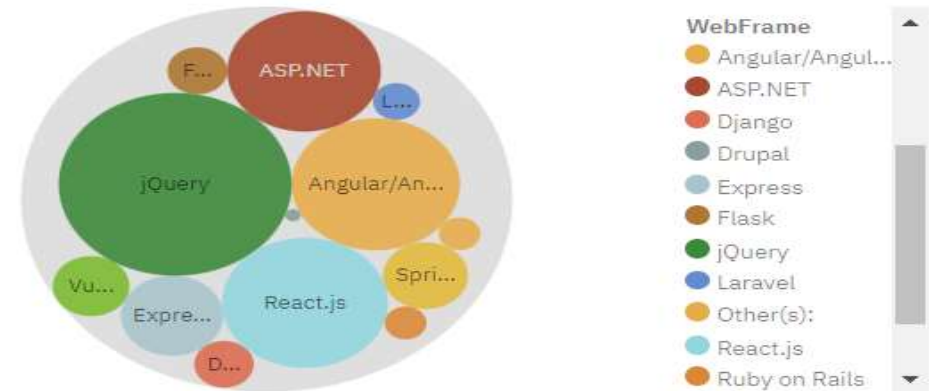
Top 5 Databases Worked with



Platforms Interacted

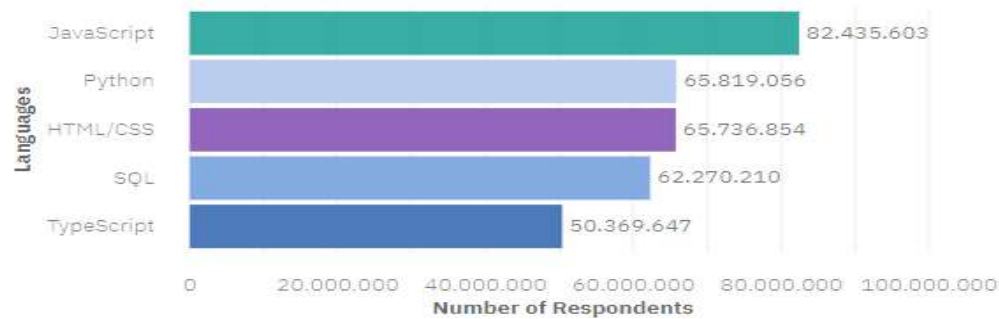


Top 10 WebFrames Used

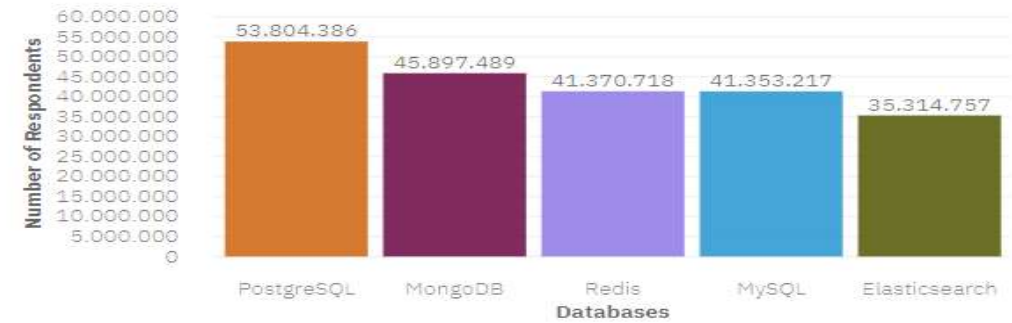


FUTURE TECHNOLOGY TREND

Top 5 Desired Language to Learn



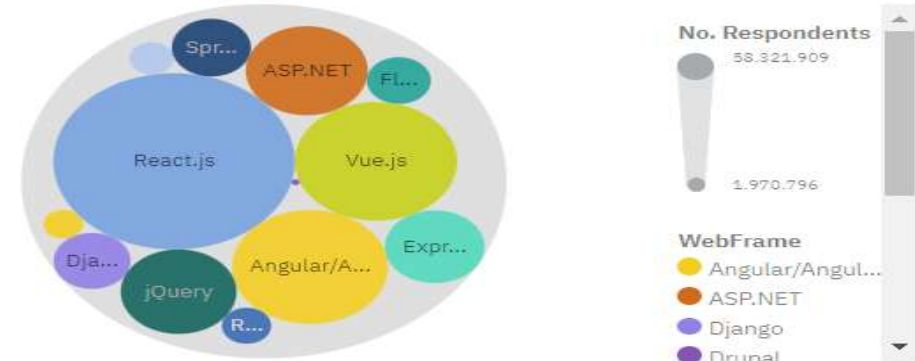
Top 5 Desired Database to Learn



Platform Next Year

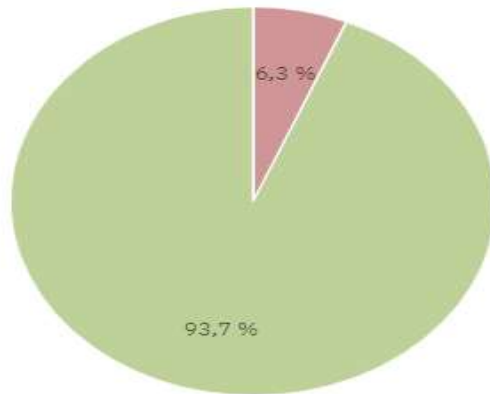


Top 10 WebFrame Next Year

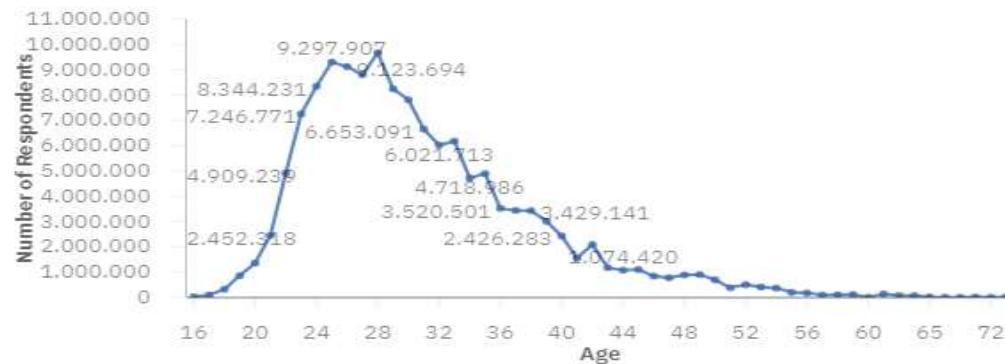


DEMOGRAPHICS

Respondent by Gender



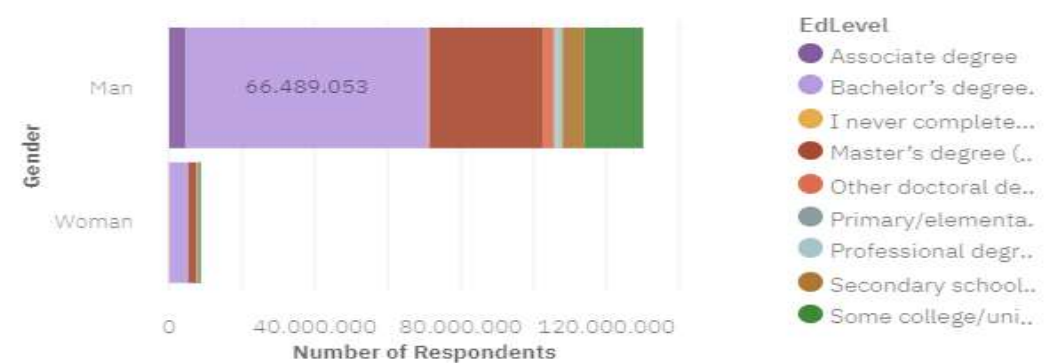
Respondent by Age



Respondent Locations



Formal Education Level / Gender



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

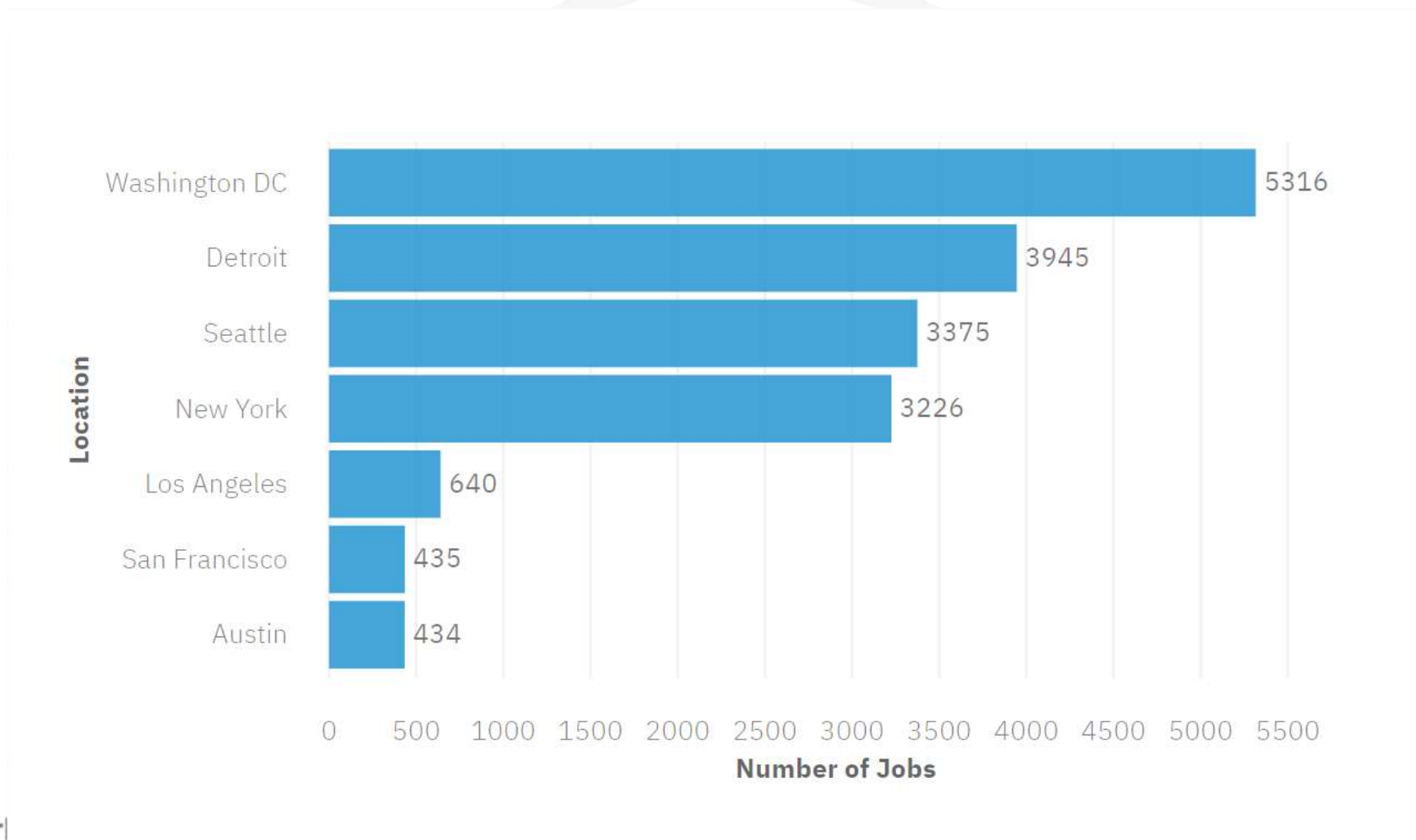


- Developers are people with very marked characteristics.
- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries in development.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

