



Startup Ecosystem Overall Findings Survey 2024

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OUTLINE



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

EXECUTIVE SUMMARY



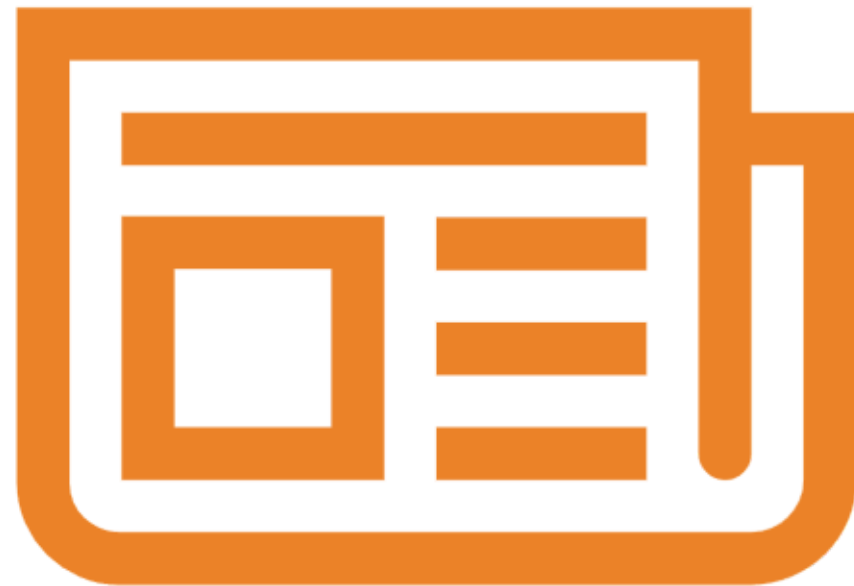
- **Data contextualization and analysis goal.**
- **Methodology description.**
 - **Data gathering.**
 - **Data analysis.**
 - **Data visualizations.**
- **Results presentation supported with graphs and trends.**
- **Discussion of overall findings and implications regarding the results previously exposed.**
- **Final conclusions of the carried out research.**

INTRODUCTION



- **Startup Ecosystem Overall Findings Survey 2024**
- **One of the most extensive and detailed surveys focusing on the global startup community.**
- **Results may not encompass every perspective within the startup ecosystem.**
- **Nearly 90,000 respondents participated.**
- **Identifies key trends, offering predictions on the future direction of startups.**
- **Provides a comprehensive characterization of startup founders, investors, and employees around the globe.**
- **Highlights the diverse and dynamic nature of the startup world.**

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**

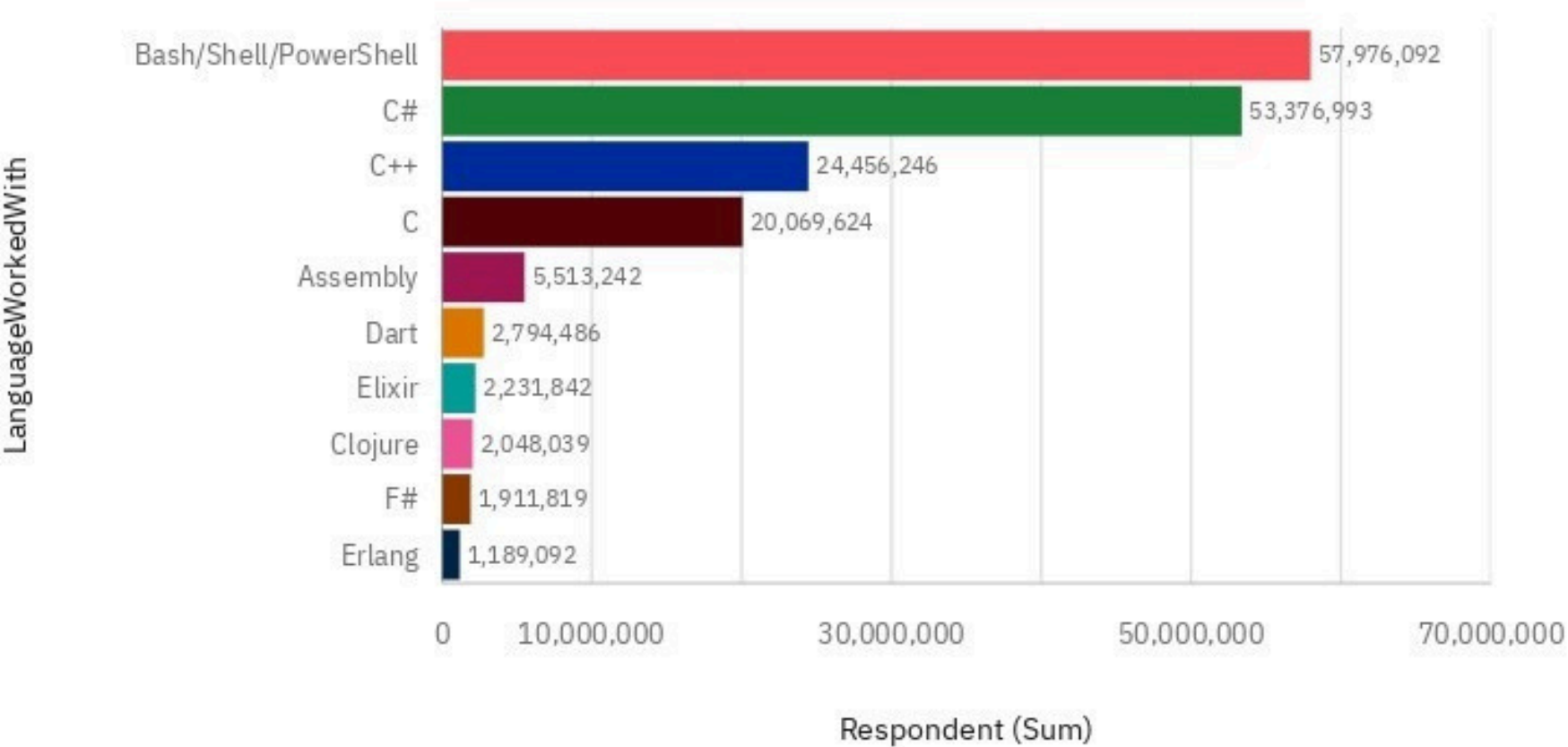
RESULTS



PROGRAMMING LANGUAGE TRENDS

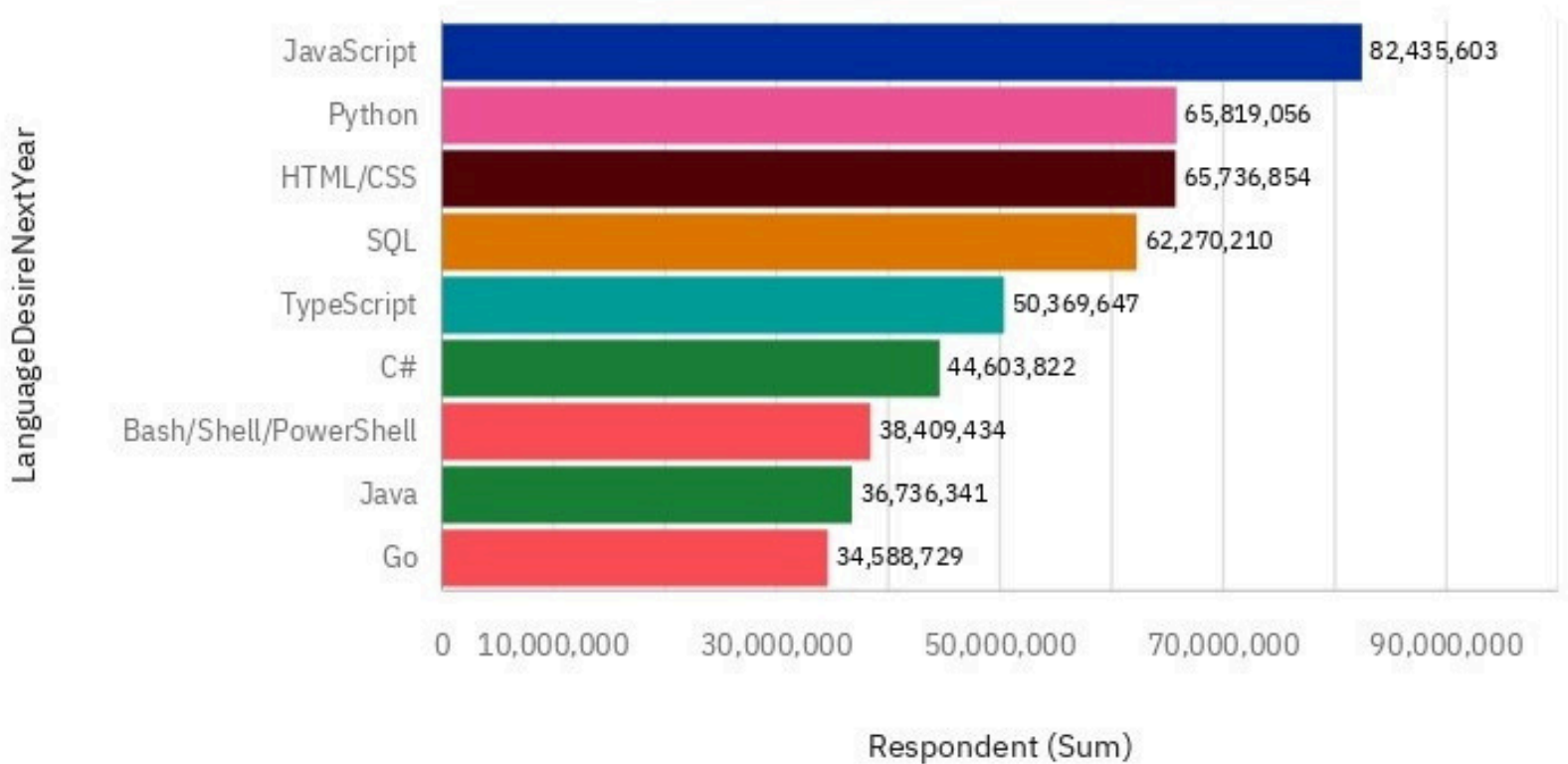
Current Year

Top 10 LanguageWorkedWith



Next Year

Top 10 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

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

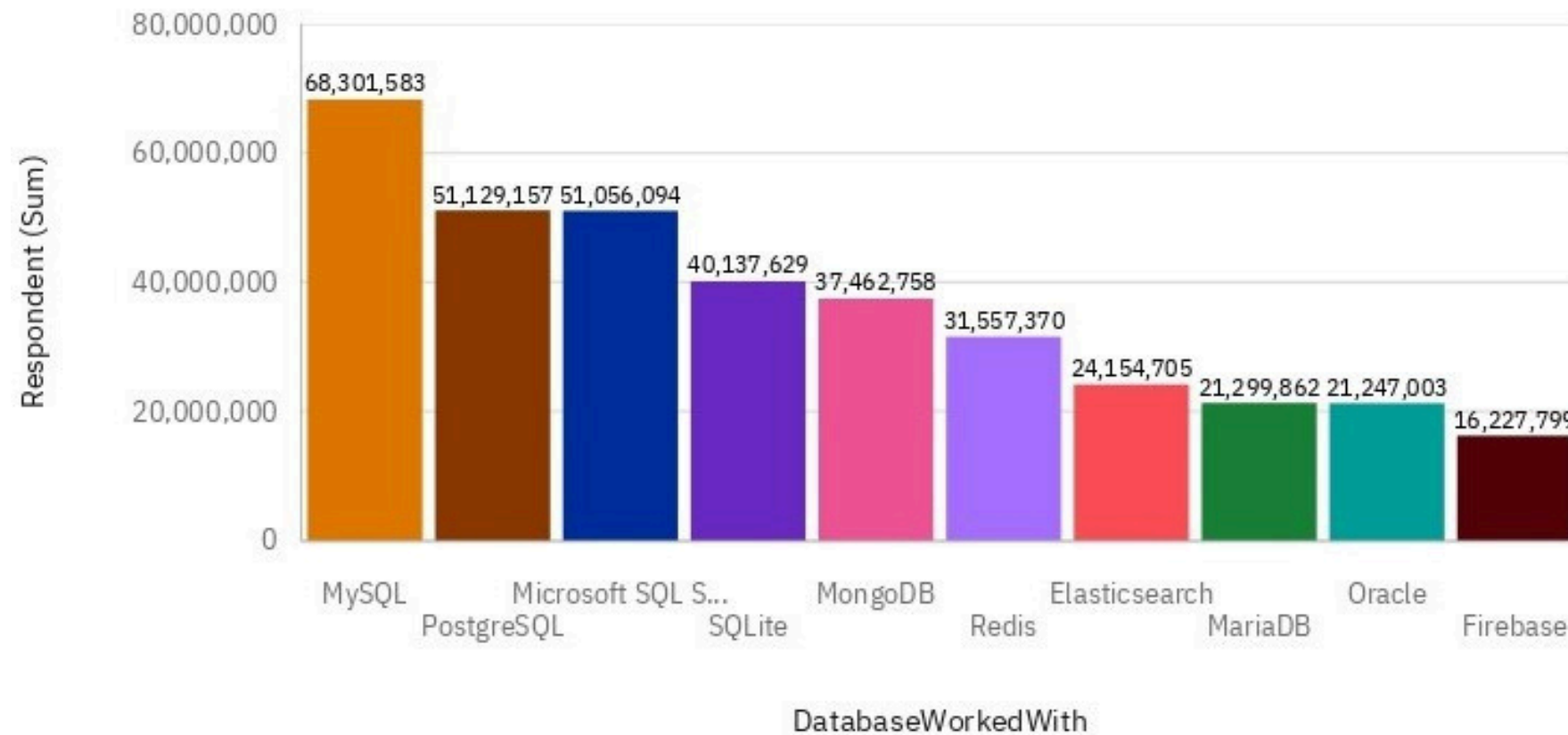
Implications

- **Possible developers migration from JavaScript to TypeScript.**

DATABASE TRENDS

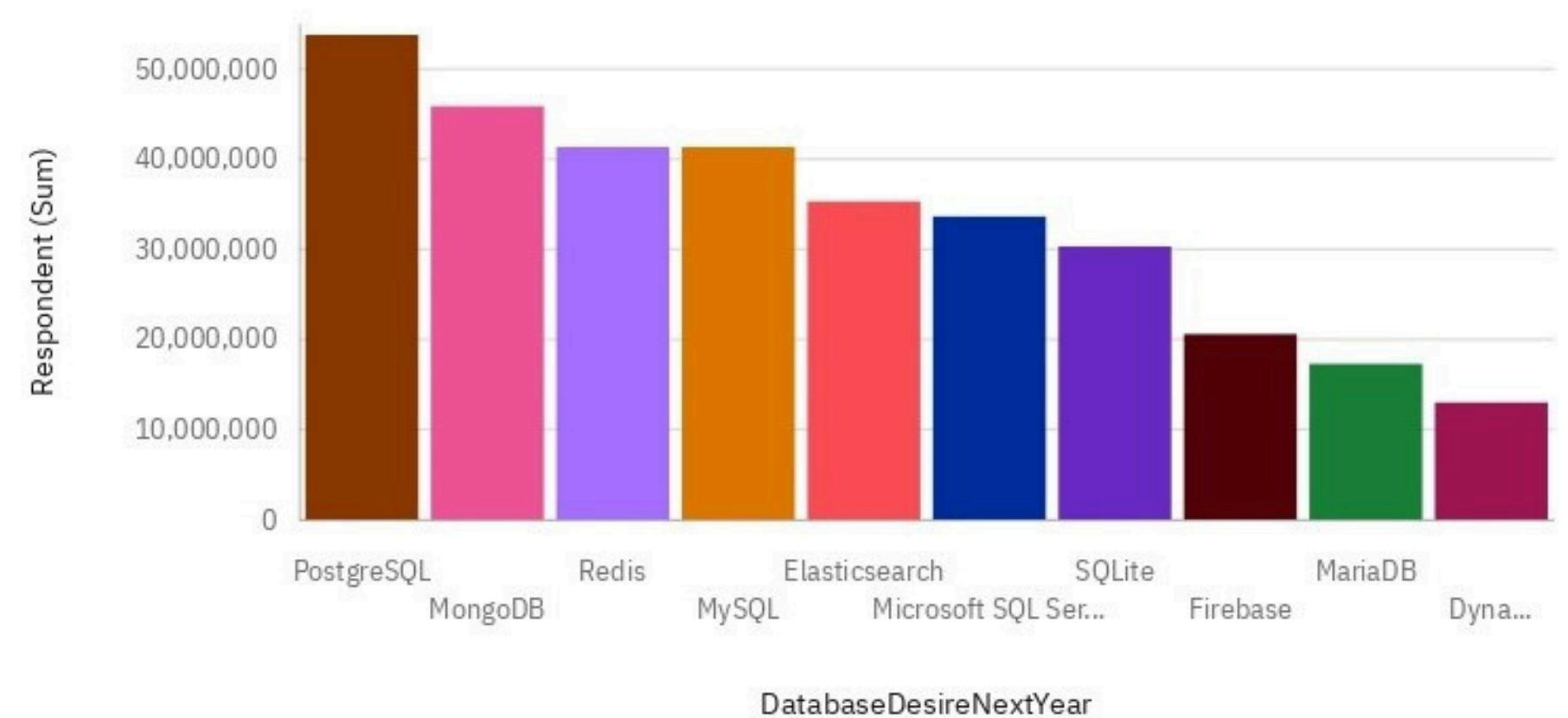
Current Year

Top 10 Database Worked With



Next Year

Top 10 Database Desired 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

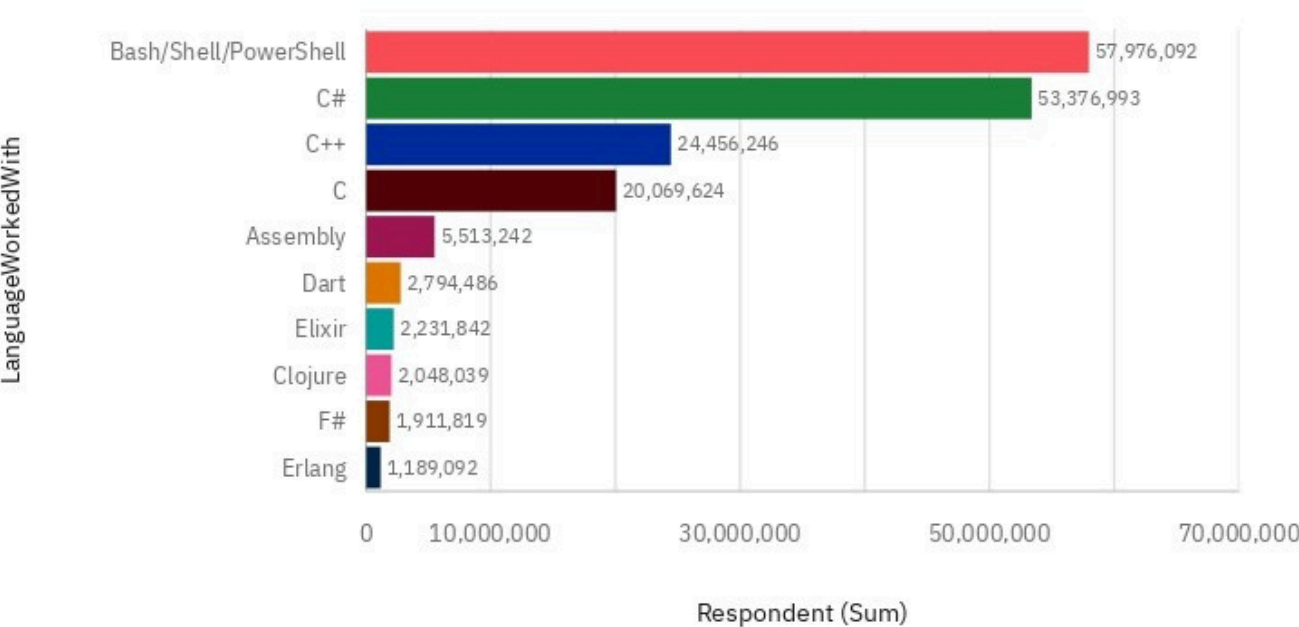


**Explore the interactive dashboard I created
using IBM Cognos:**

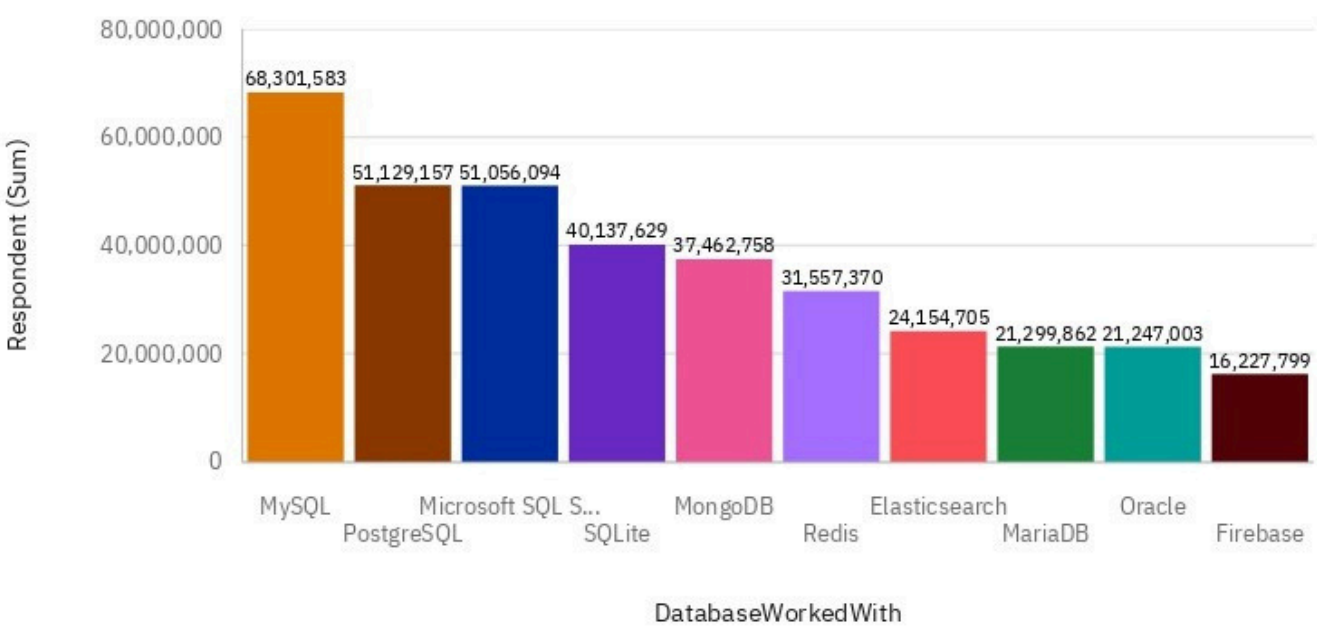
<https://github.com/akshitsajwan/Building-a-dashboard-with-IBM-Cognos-Analytics.git>

CURRENT TECHNOLOGY USAGE

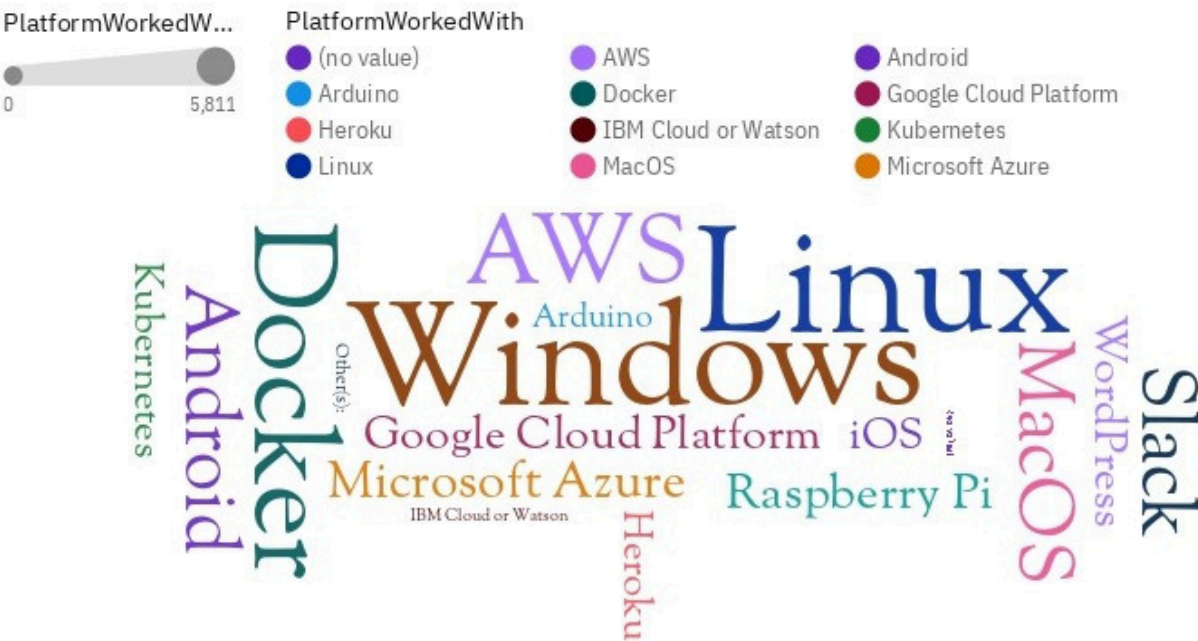
Top 10 Language Worked With



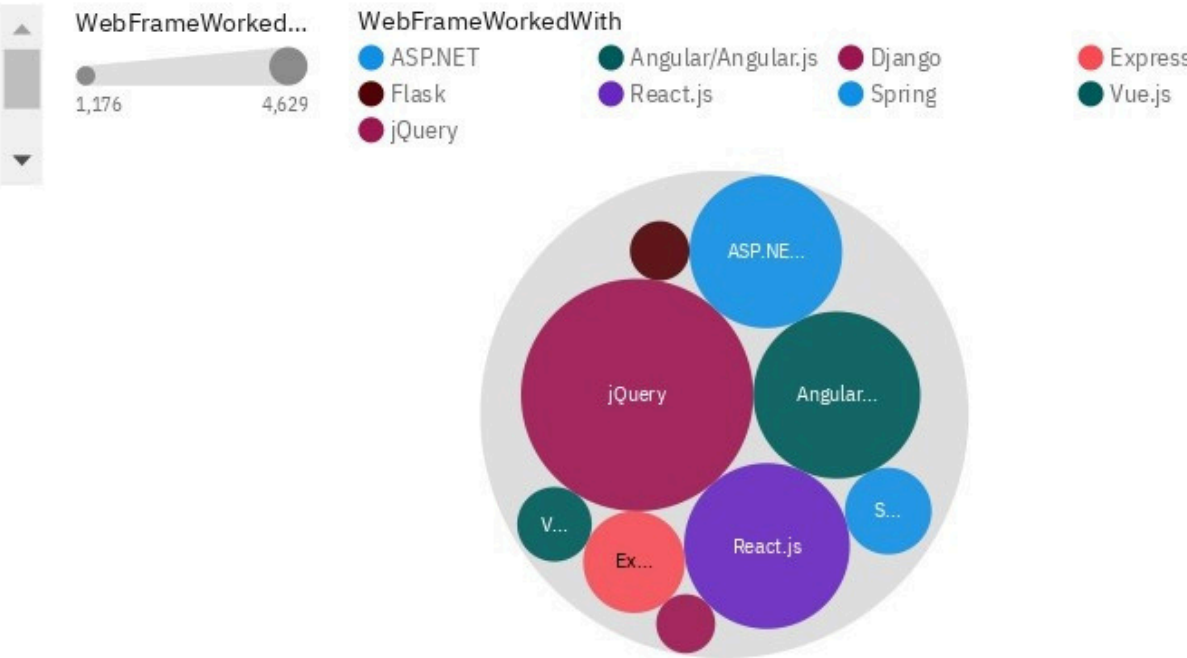
Top 10 Database Worked With



Platform Worked With

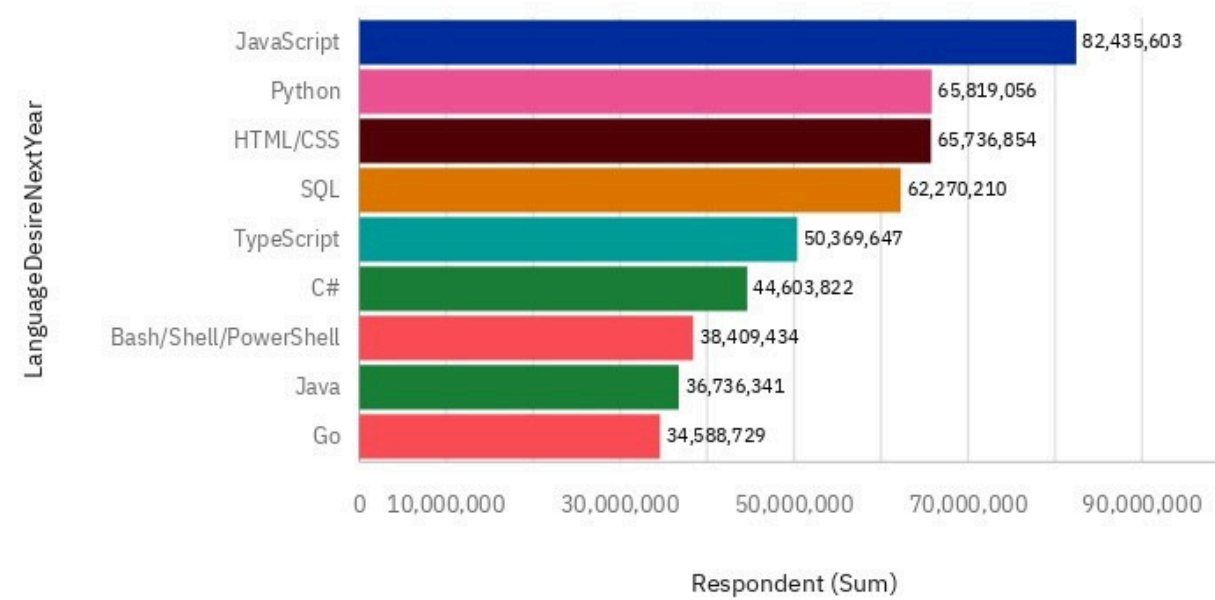


Top 10 Web Framework Worked With

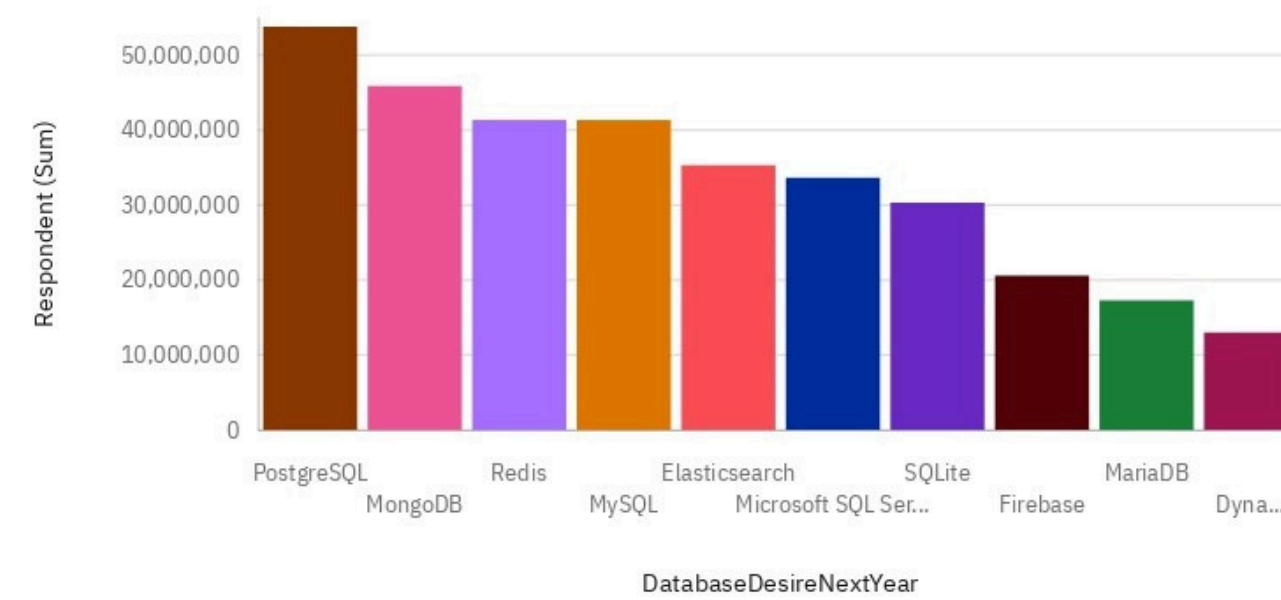


FUTURE TECHNOLOGY TREND

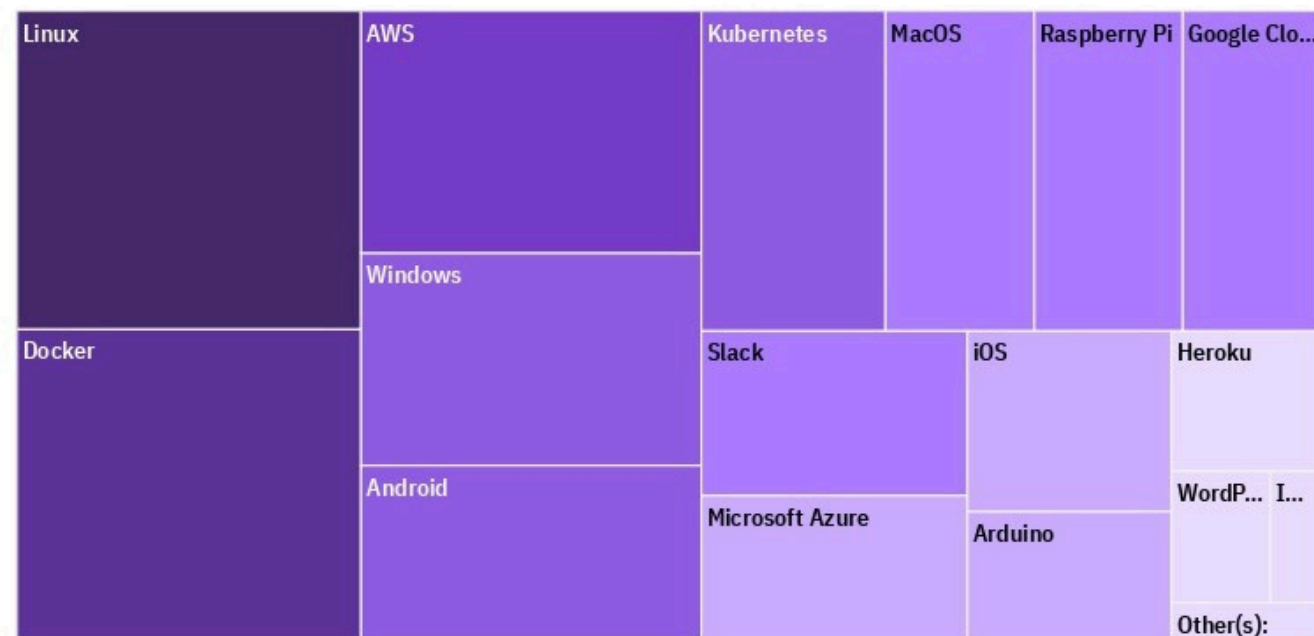
Top 10 Language Desire Next Year



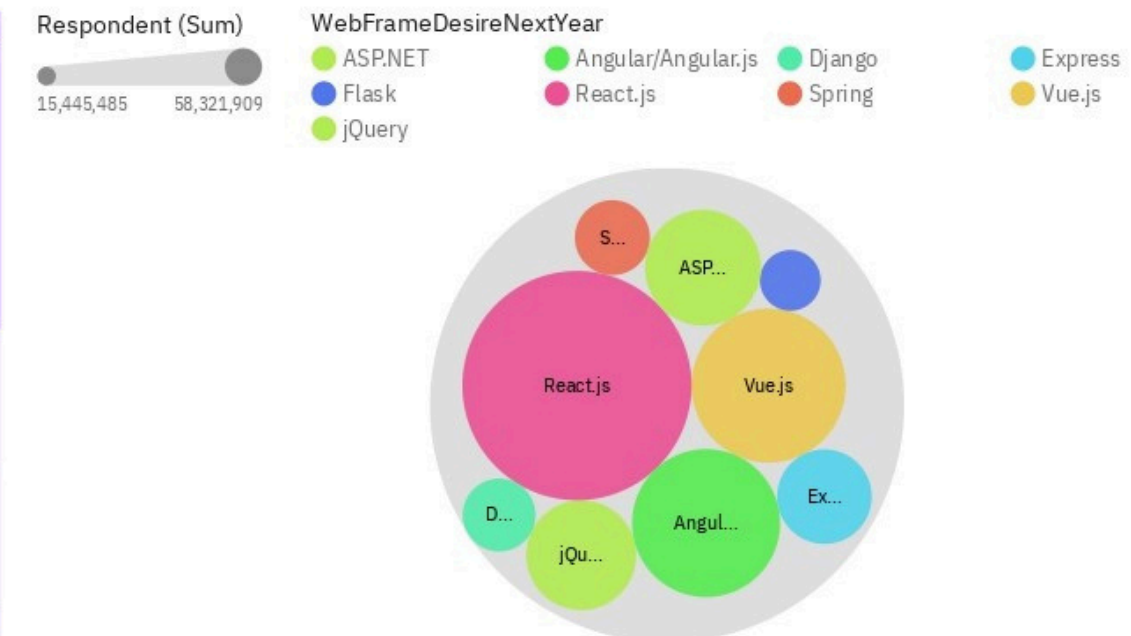
Top 10 Database Desire Next Year



Platform Desire Next Year



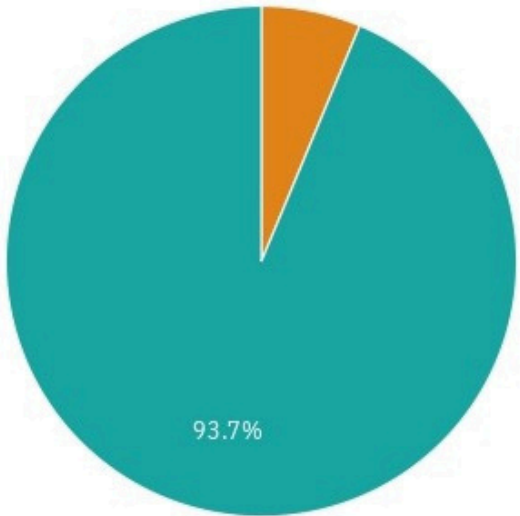
Top 10 WebFrame Desire Next Year



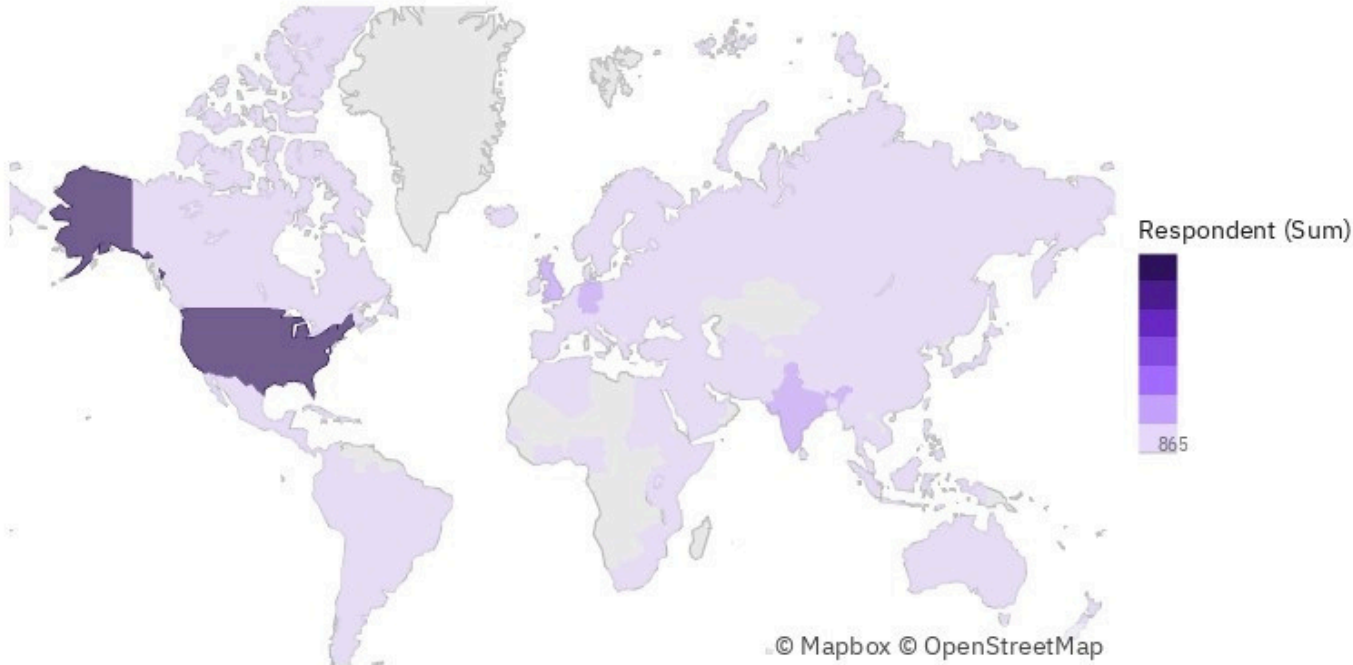
DEMOGRAPHICS

Respondent classified by Gender

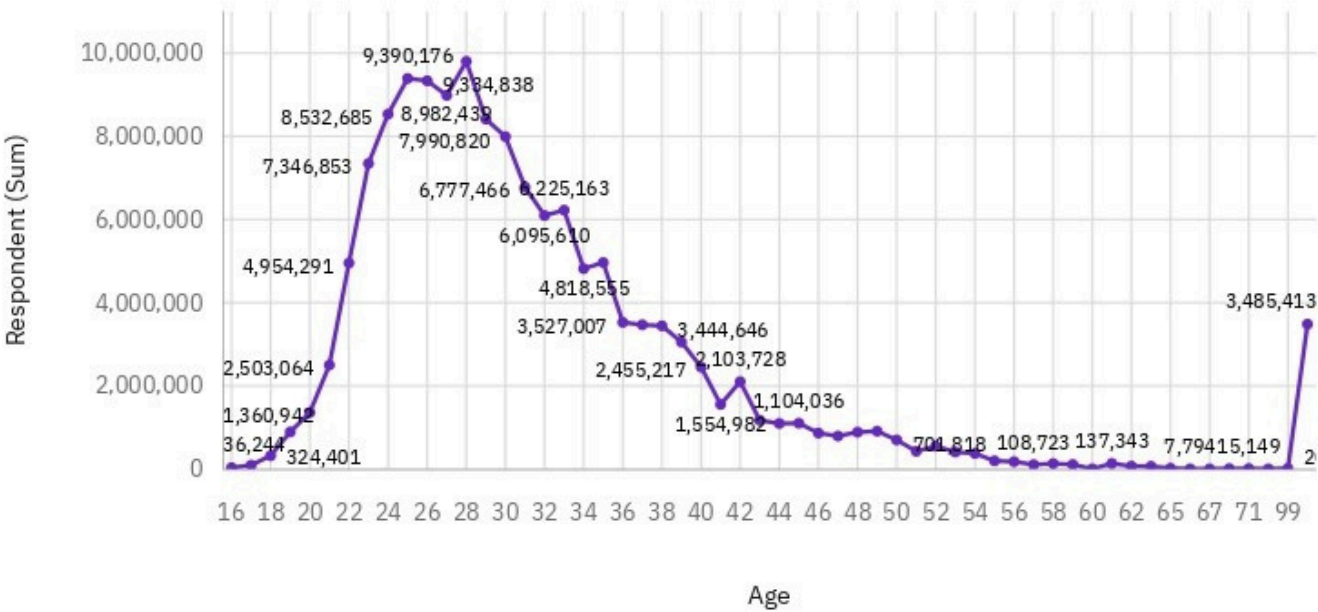
Gender
Woman Man



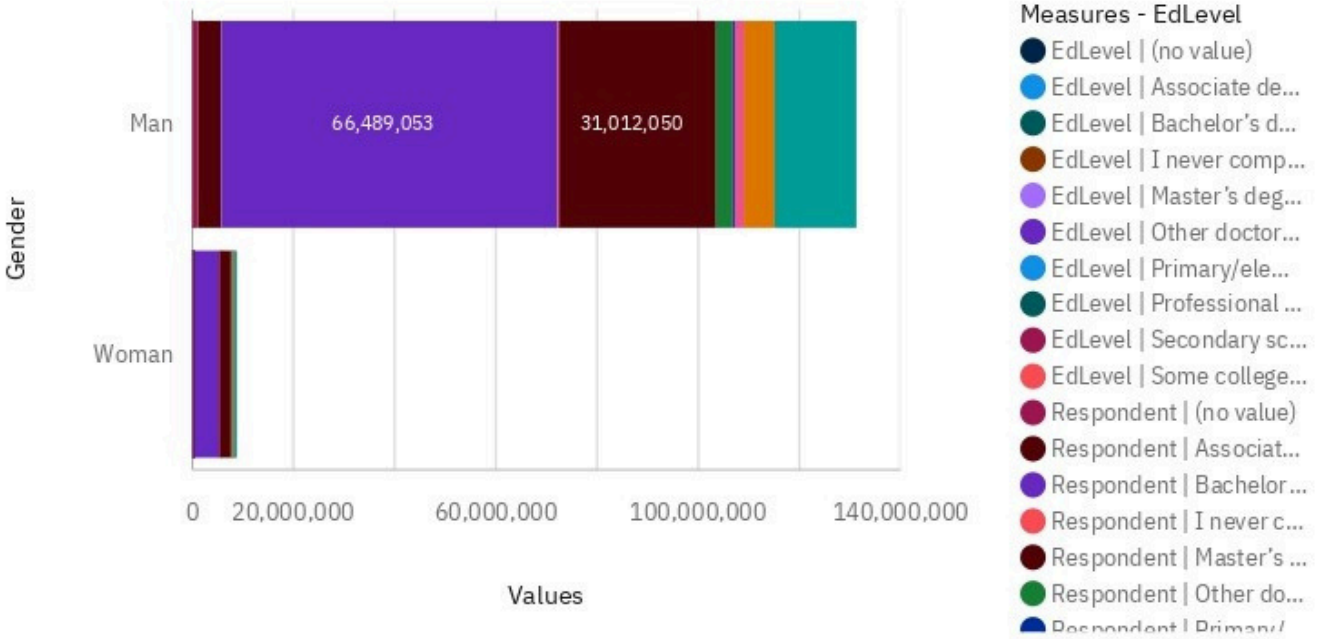
Respondent Count for Countries



Respondent Count by Age



EdLevel and Respondent by Gender colored by EdLevel



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

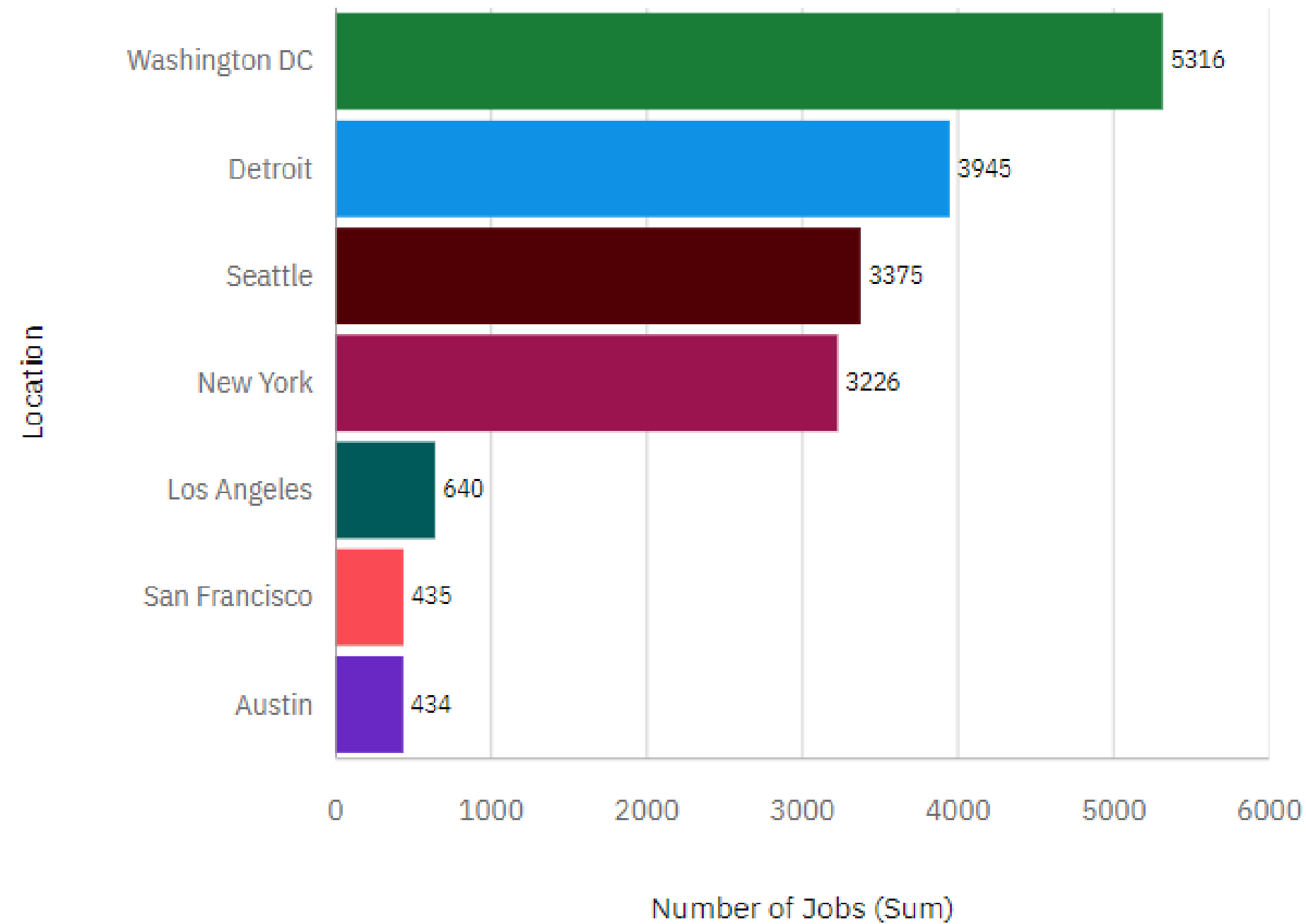


- **Developers are people with very marked characteristics.**
- **A good idea of popularity trends of different tools, platforms and languages can be obtained.**
- **There is a job to be done to spread accessibility of this labor market to countries in development.**

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

