

STACK OVERFLOW DEVELOPER SURVEY

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**

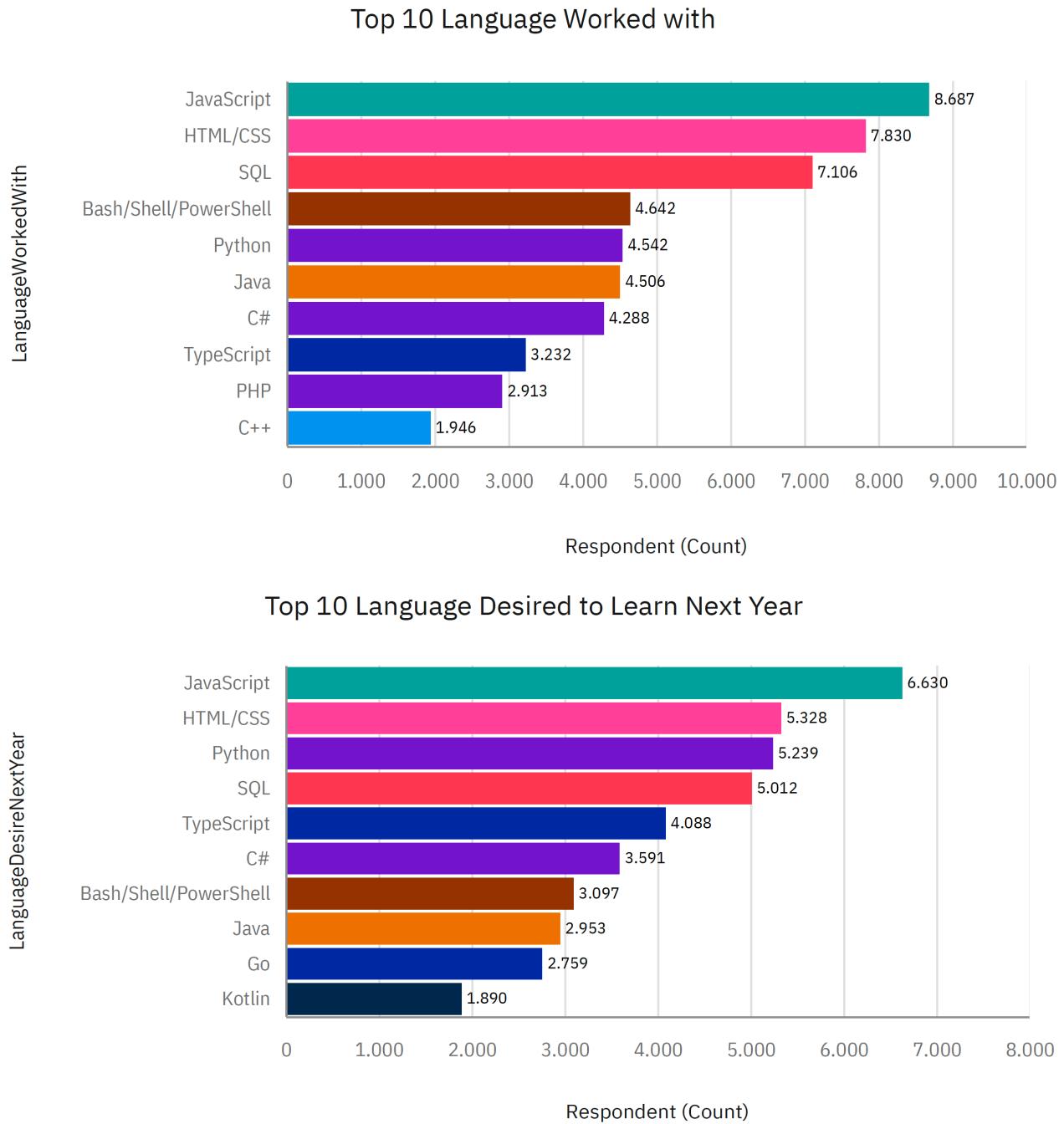
RESULTS





CURRENT YEAR

NEXT YEAR



PROGRAMMING LANGUAGE TRENDS FINDINGS & IMPLICATION

Findings

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

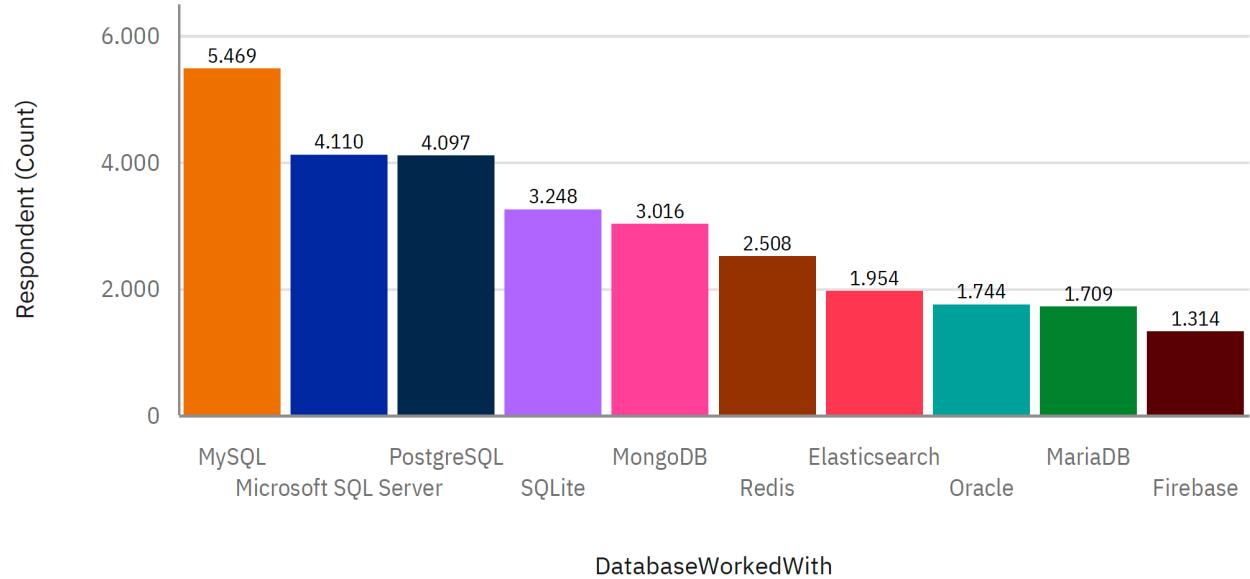


Implications

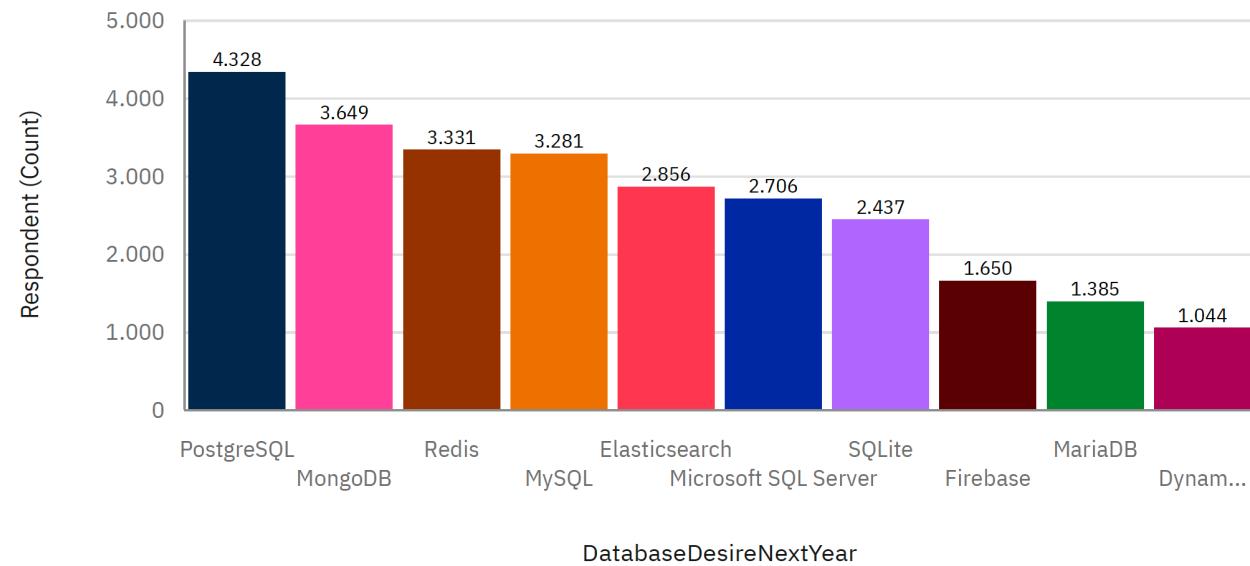
Possible developers migration from JavaScript to TypeScript



Top 10 Databases Worked With



Top 10 Database Desired to Learn Next Year



DATABASE TRENDS - FINDINGS & IMPLICATION

Findings

MySQL as most used database

Lack of interest in MSSQL and SQL lite

Increasing interest in PostgreSQL and MongoDB



Implications

Microsoft SQL server and SQLite losing ground in the market

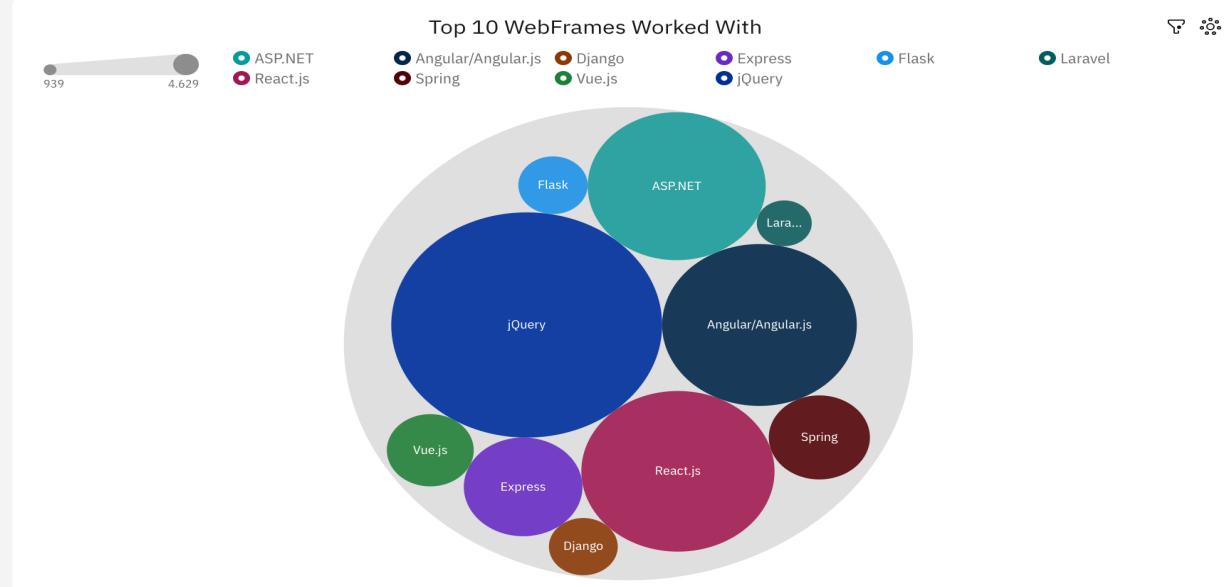
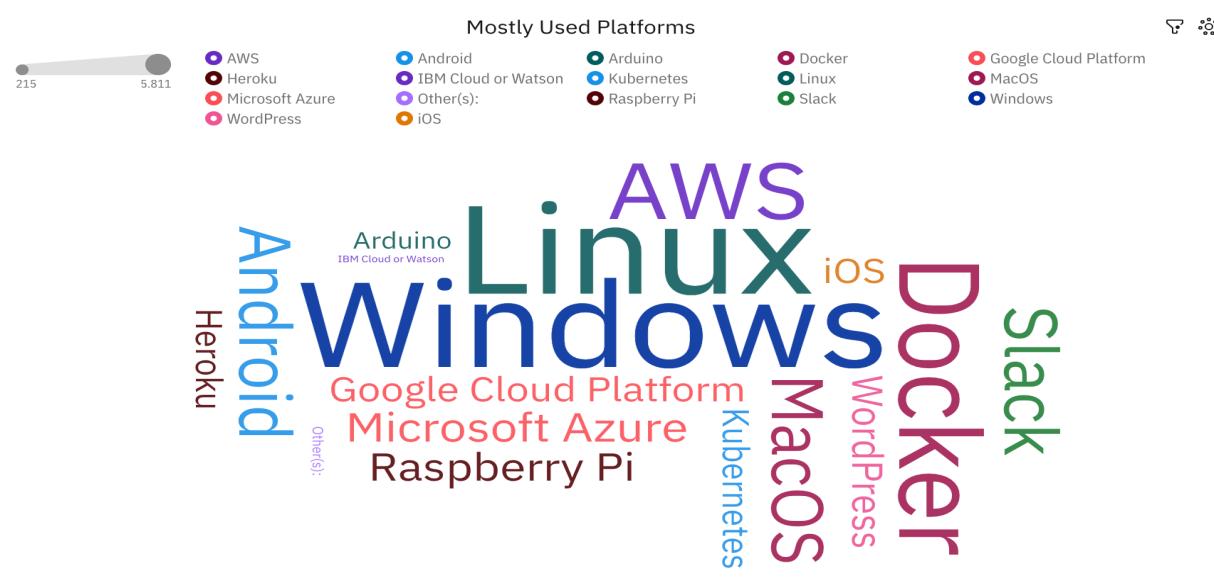
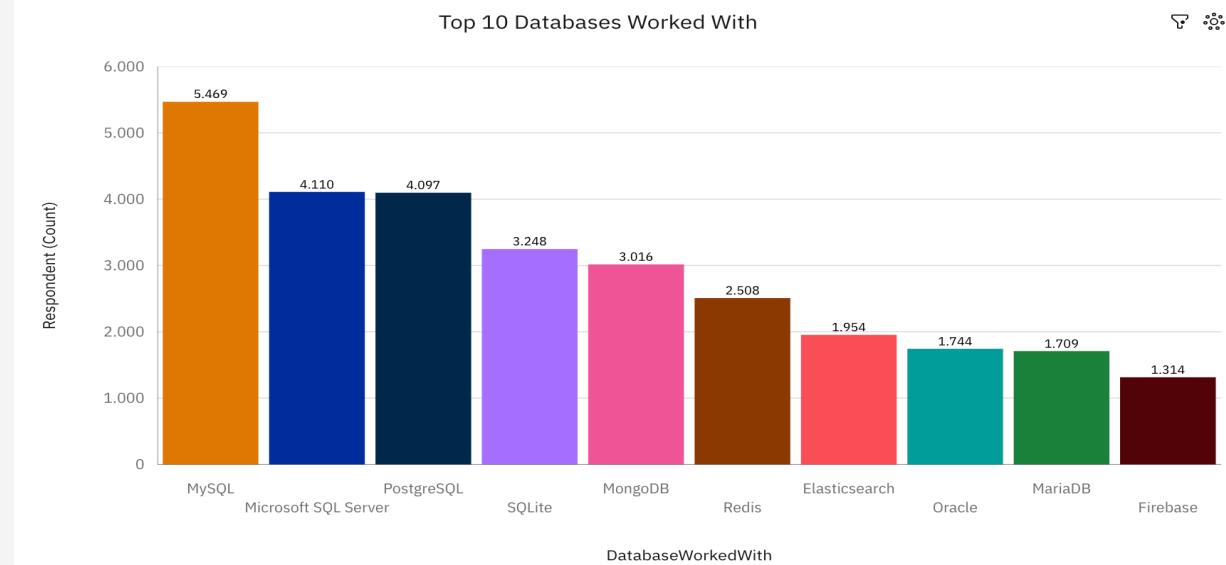
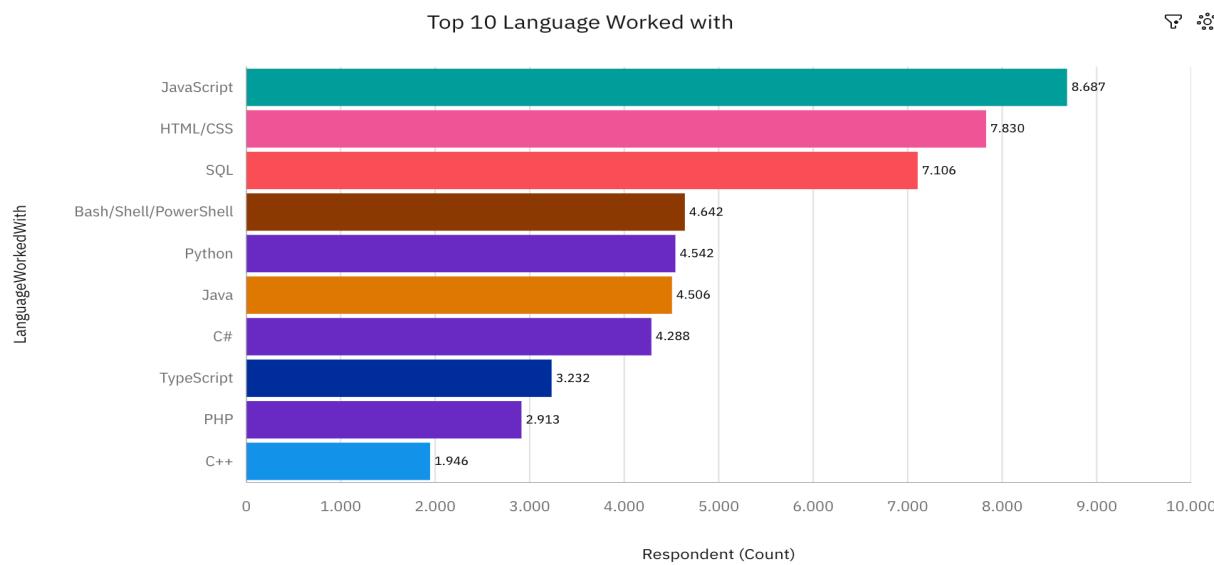
PostgreSQL and MongoDB establishment in the market



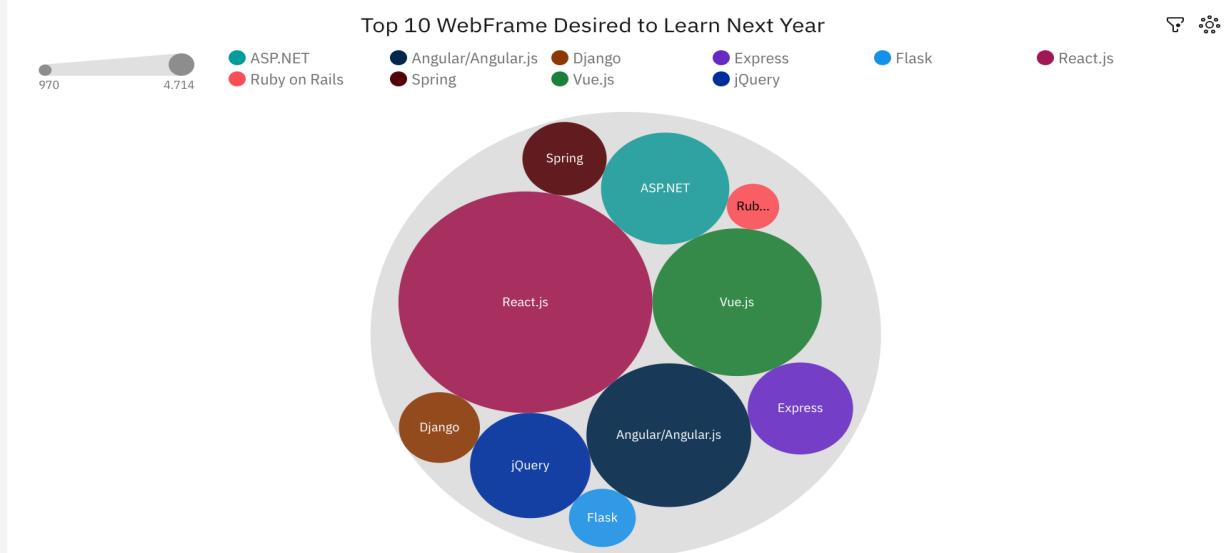
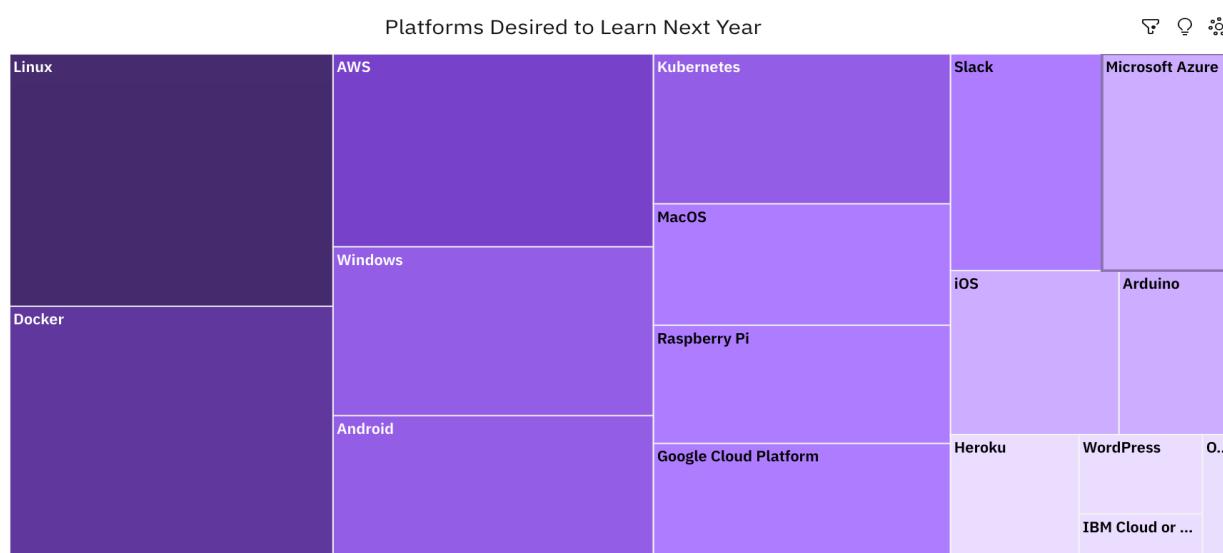
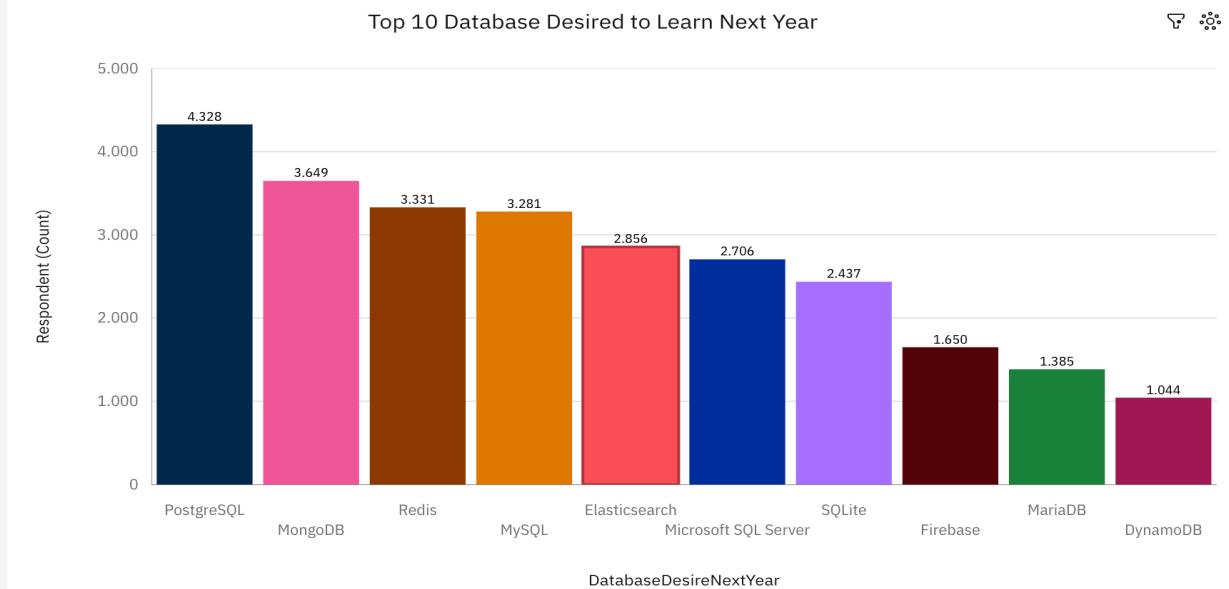
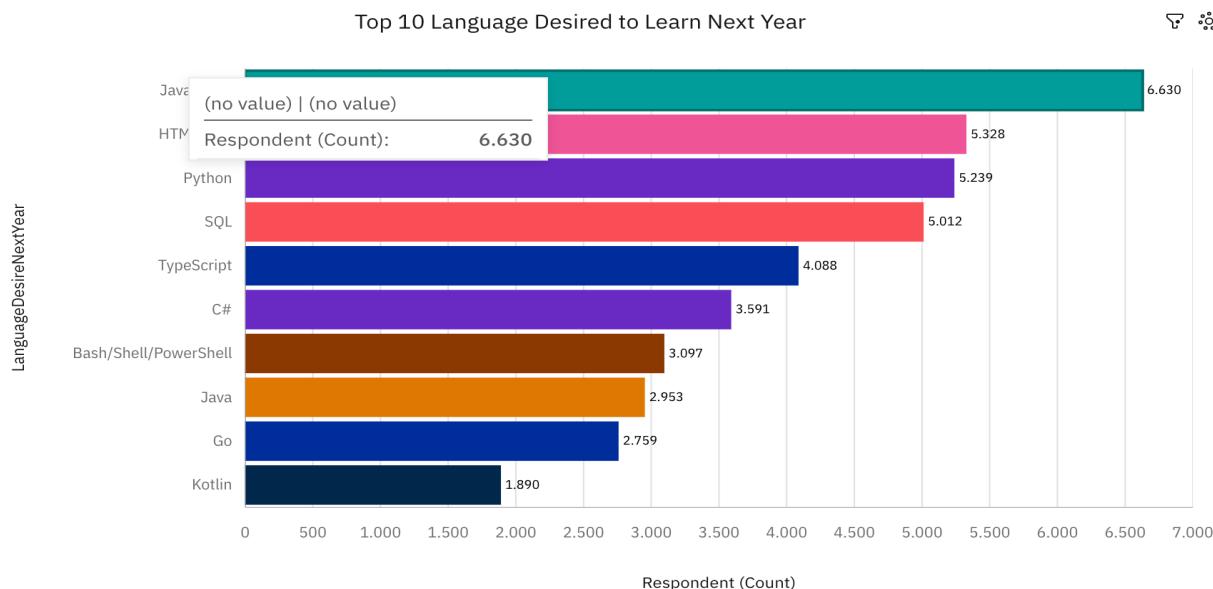
DASHBOARD

https://github.com/Kiet-Analytics/Dashboard_IBM_Cognos/blob/main/Dashboard_IBM_Cognos.pdf

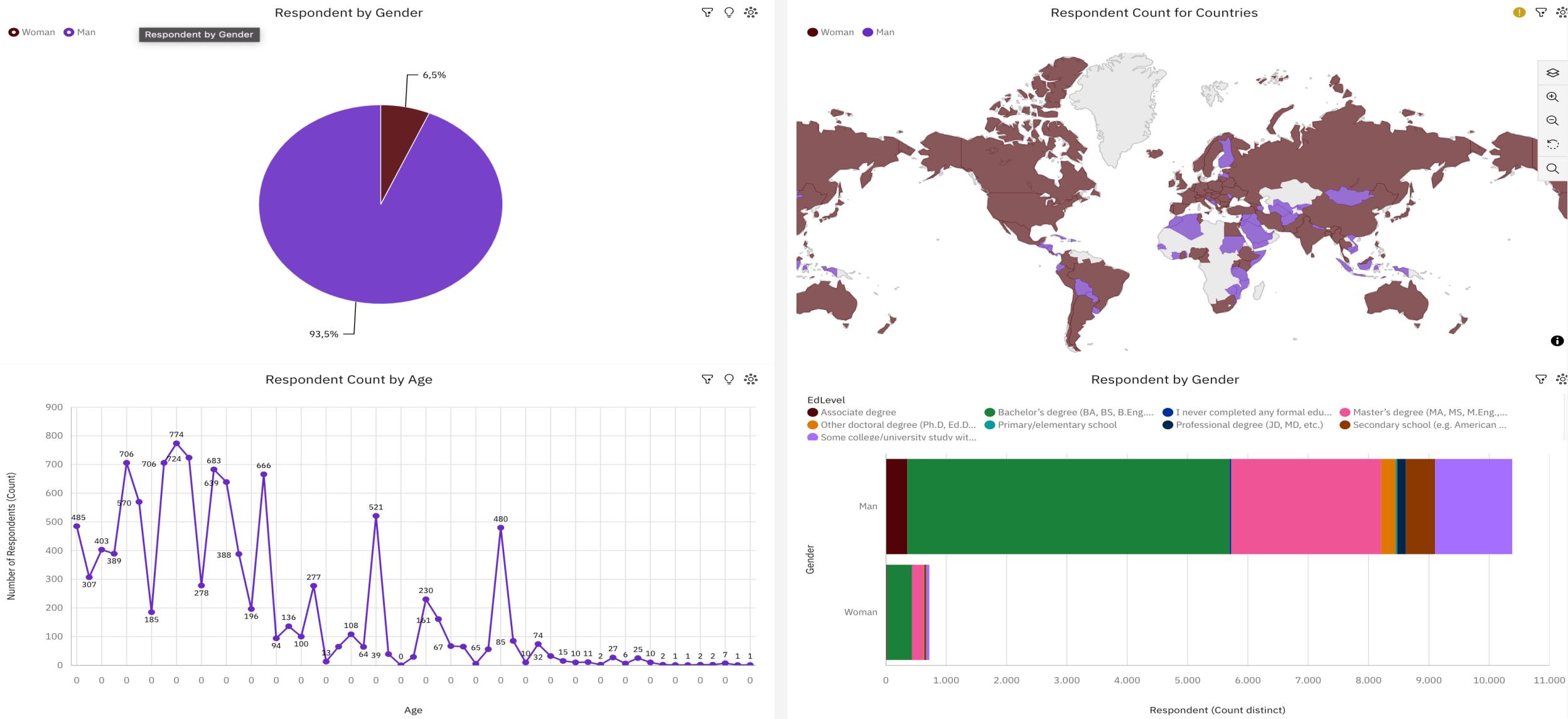
CURRENT TECHNOLOGY USAGE



FUTURE TECHNOLOGY USAGE



DEMOGRAPHICS





DISCUSSION

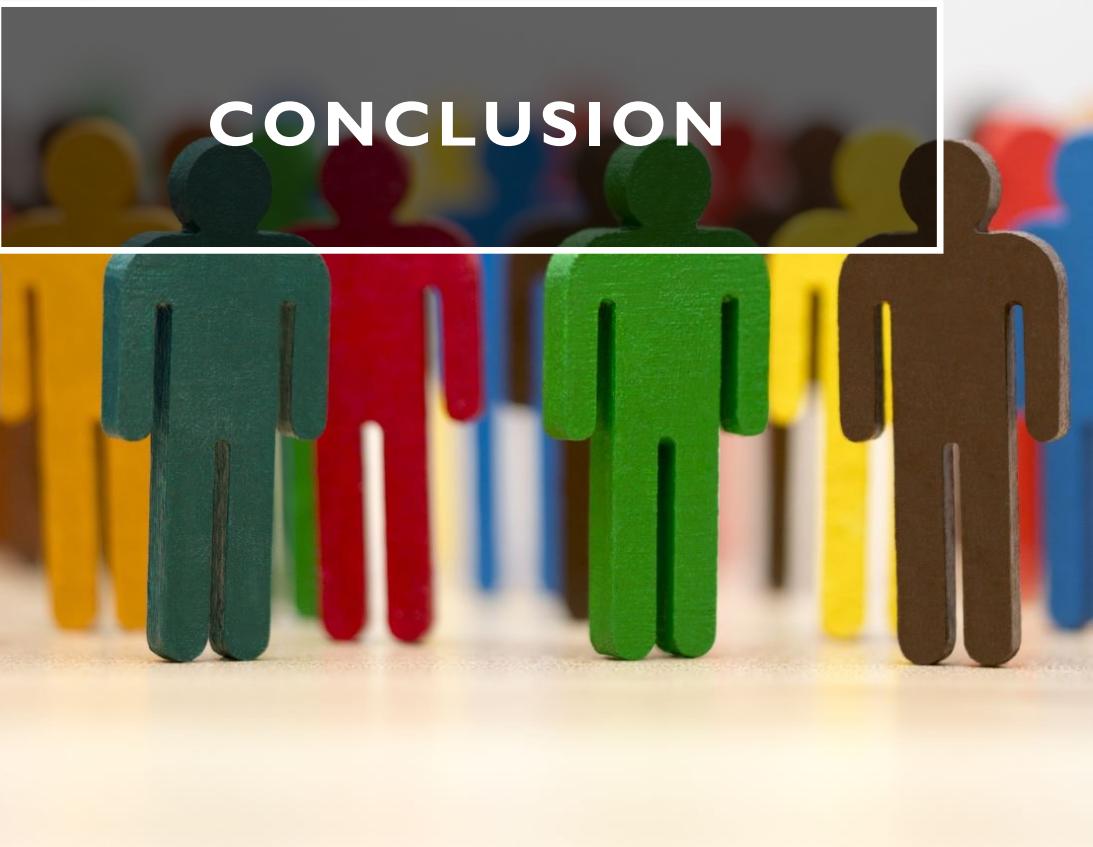
OVERALL FINDINGS & IMPLICATIONS

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**



- 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