



Developers Survey Analysis

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OUTLINE



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EXECUTIVE SUMMARY



- This project includes data collection , data cleaning and visualization and data analysis.
- Data collection
 - Using API's
 - Using Web-scraping
 - EDA
- Data Cleaning and Analysis
- Data Visualization
- Dashboard building

INTRODUCTION

- To analyze changing technologies, identifying trends for this year's report on emerging skills and to help identify future skill requirements.
- To collect the top programming skills that are most in demand from various sources including:
 - 1. Job postings
 - 2. Training portals
 - 3. Surveys
- Analyzing the data and identify insights and trends that include the following:
 - What are the top programming languages in demand?
 - What are the top database skills in demand?

RESULTS

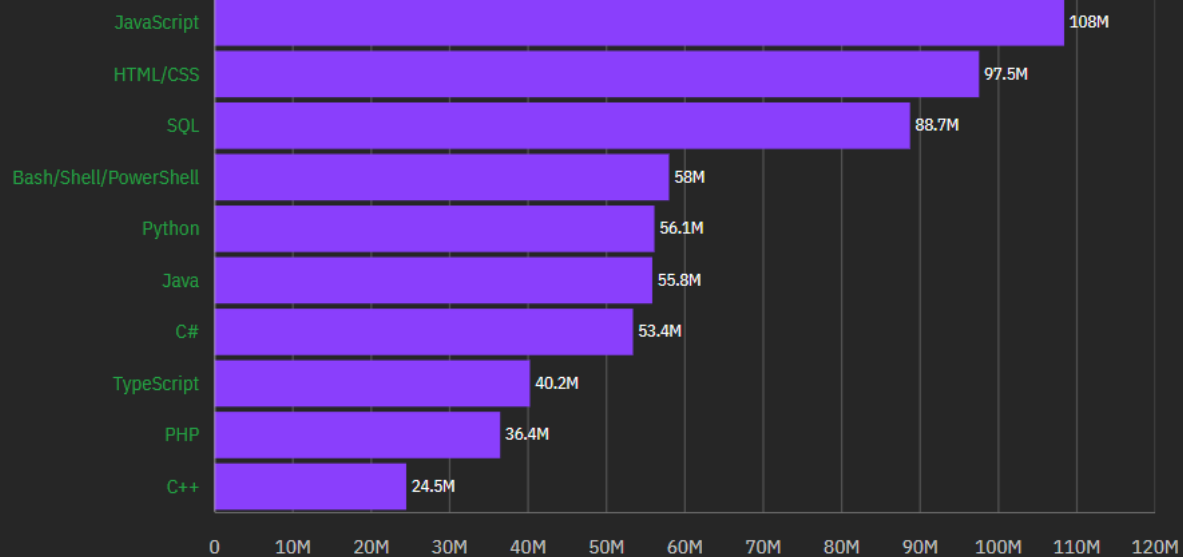
- Programing Languages and Database Trends.
- Trends in OS and Web frames.
- Respondents classification by Gender.
- Respondents count by Age.
- Analysis of Respondents Education qualification.
- Global distribution of developers.

PROGRAMMING LANGUAGE TRENDS

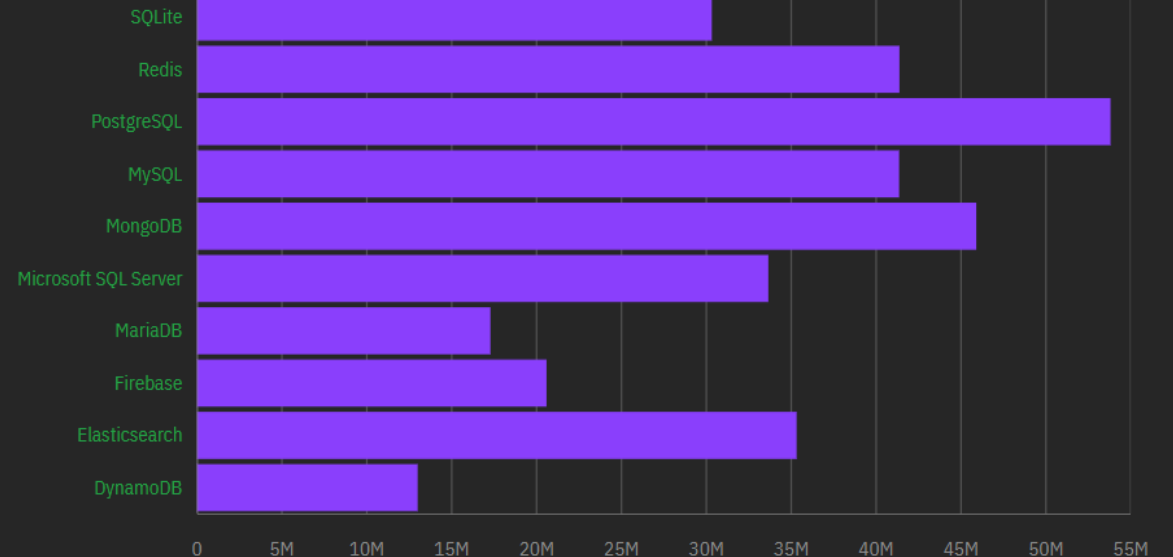
Current Year

Next Year

Top 10 LanguageWorkedWith



Top 10 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

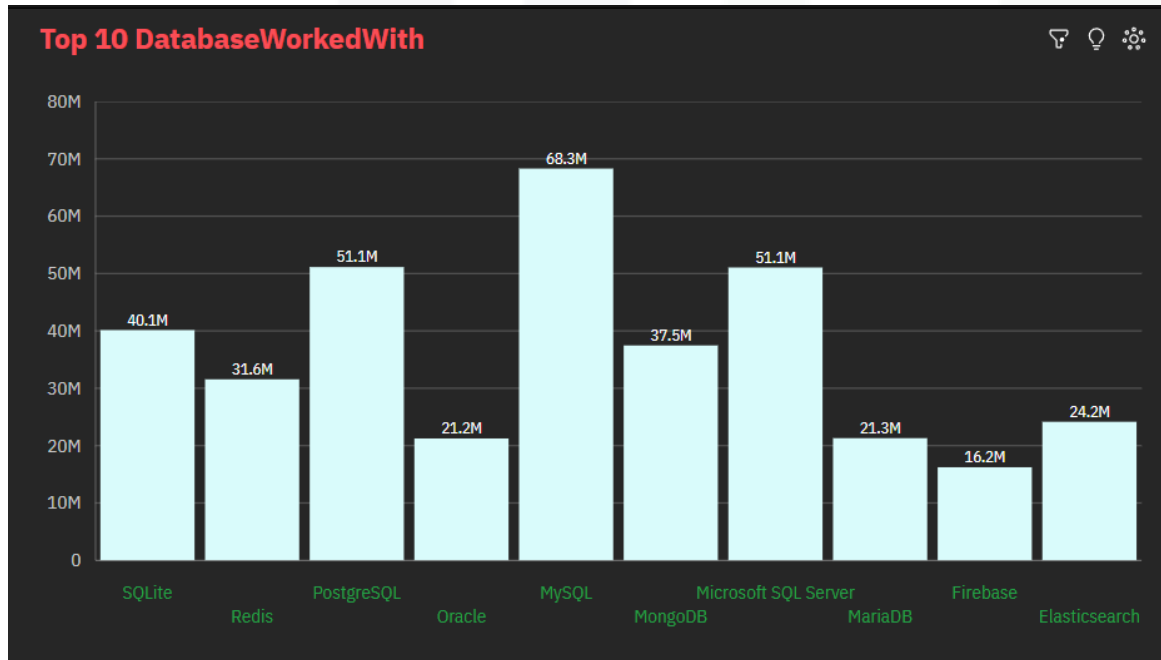
- JavaScript , HTML/CSS and SQL are top 3 programming language.
- Respondents who work with Java also contribute on web-frame like JQuery and React.js
- HTML/CSS and Mysql is the most preferable programing and database for development.

Implications

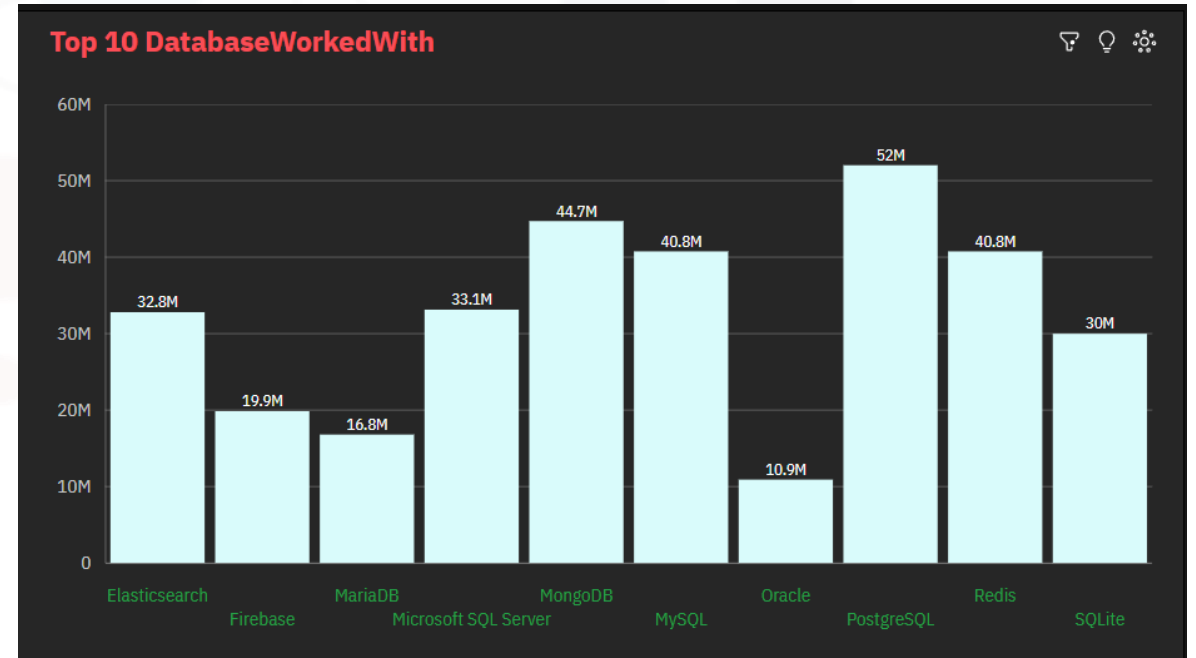
- PostgreSQL, MongoDB and Mysql will be leading programming languages
- PostgreSQL and PostgreSQL will be the most preferable programing and database for development in future.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Top 3 Database respondents worked with are Mysql and Microsoft Sql Server and PostgreSQL.
- Mysql and Microsoft Sql Server are the most used Data base for web_frames.

Implications

- PostgreSQL, MongoDB and Mysql will be leading Databases in future.
- Linux, docker along with React.js and value.js with PostgreSQL will be the ideal environment for development.

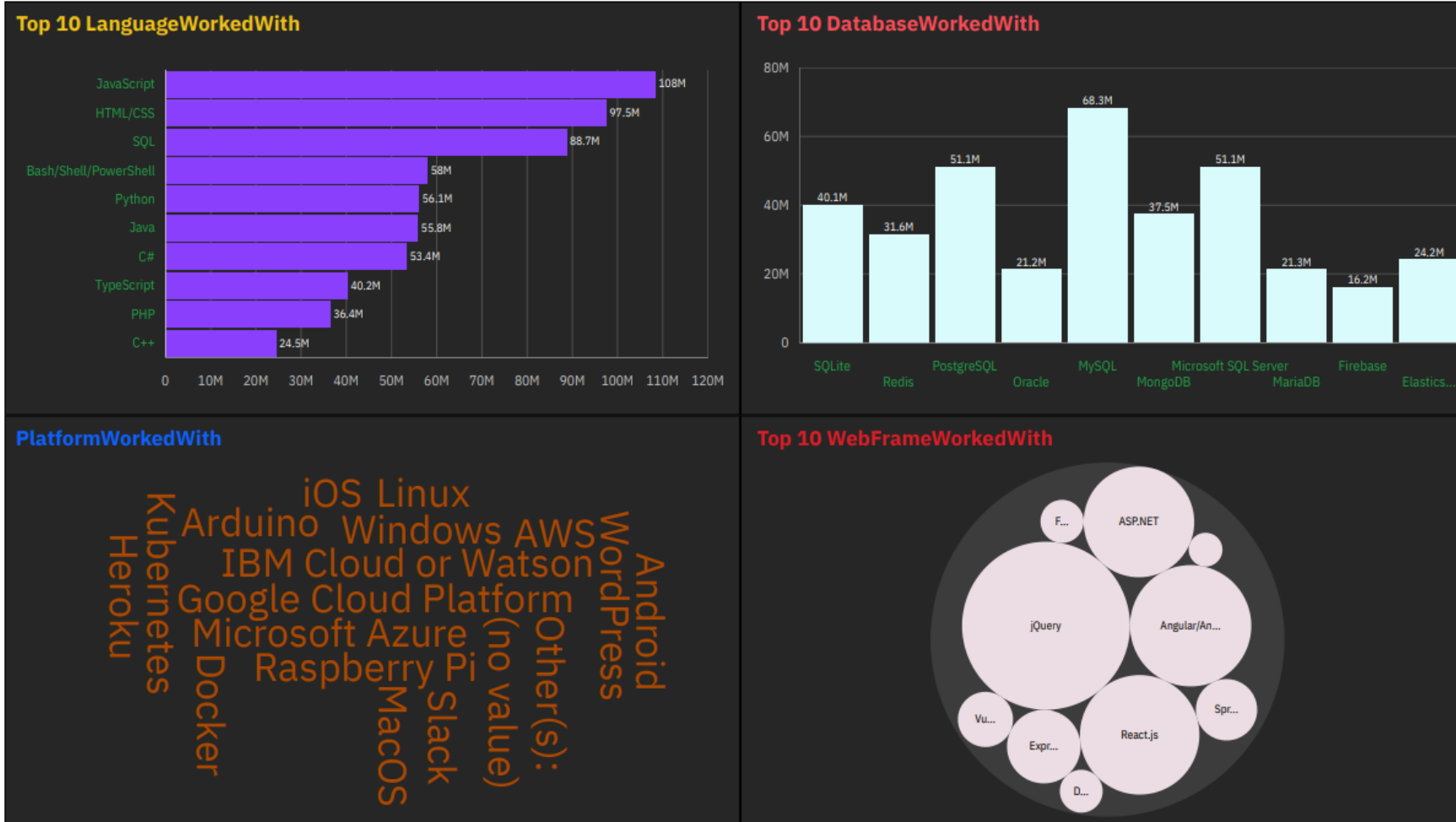
DASHBOARD



[https://github.com/DenisM03/IBM--Data Analyst Capstone Project](https://github.com/DenisM03/IBM--Data_Analyst_Capstone_Project)

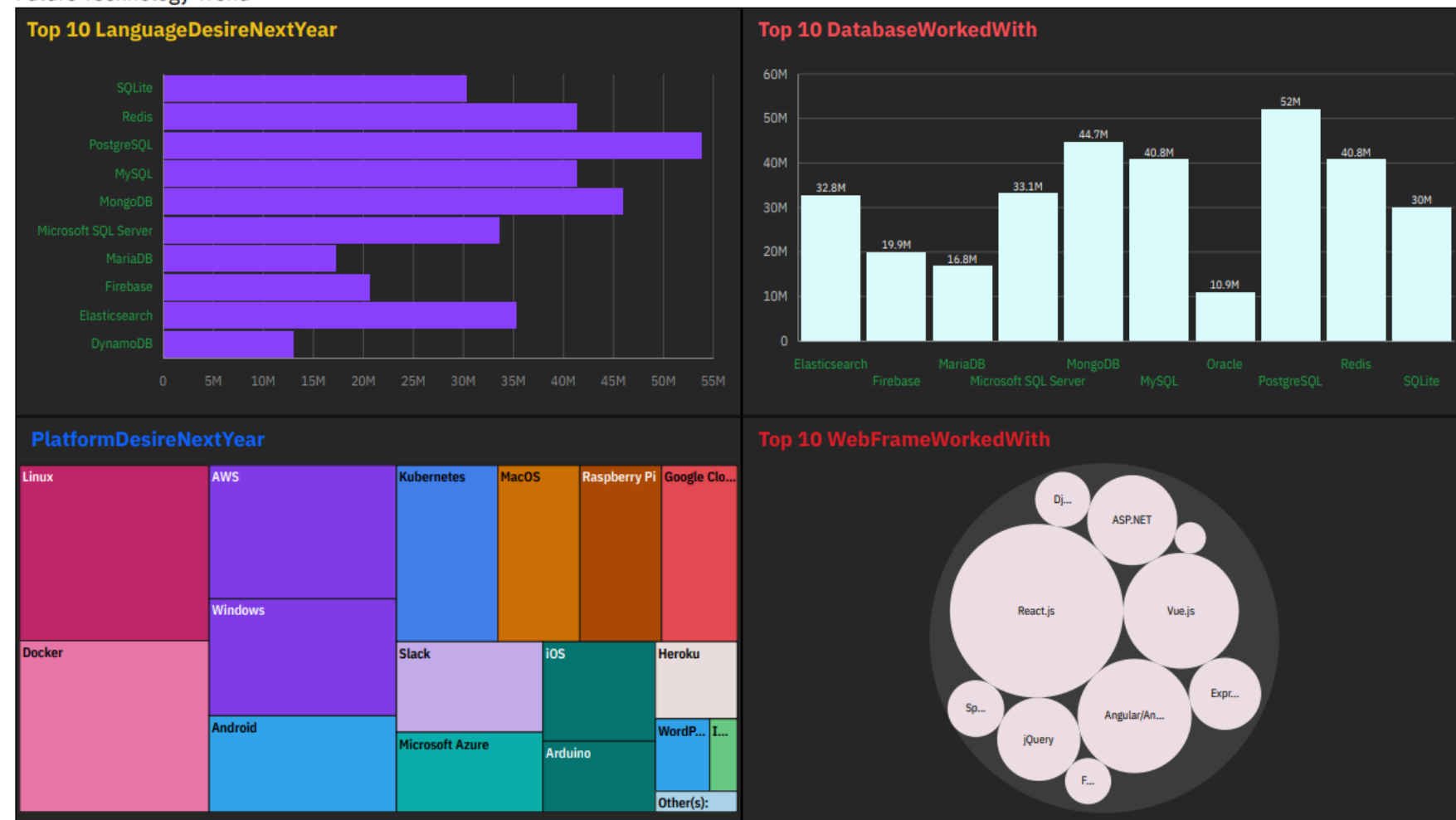
Current Technology Usage

Current Technology Usage



Future Technology Trend

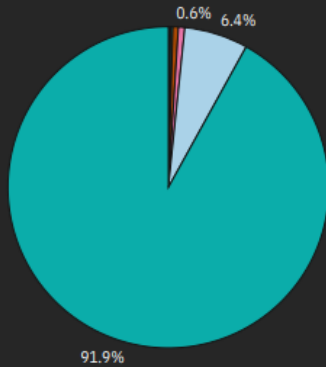
Future Technology Trend



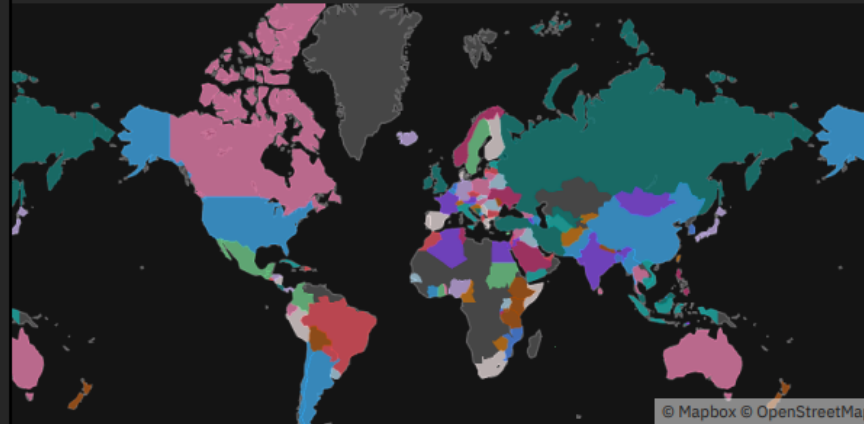
Demographics

Demographics

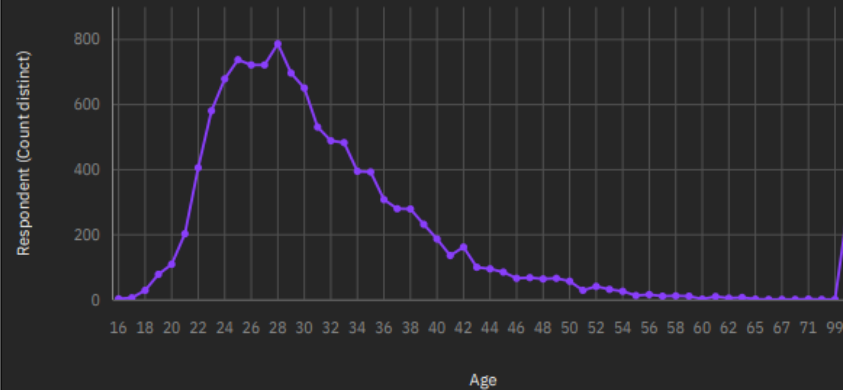
Respondent classified by Gender



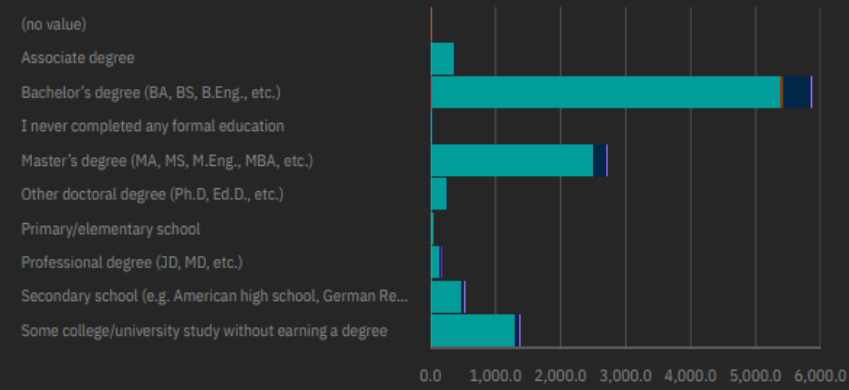
Respondents Distribution by Country



Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



1. List the languages and Database you wished learn in future?
2. Drop your favorite Operating system and web frame you are working and say why?
3. Why does women not likely to choose Development?
4. Does a Degree is still needed to get a job or the industry are recognizes talents among people?

OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript and Mysql are the most used language and database.
- The web frame with highest respondents rate is JQuery.
- 91.9% people who work in development are men between age group 22-32 with Bachelor's Degree(BA, BS,B.Eng etc...)
- Most of the developers are from Canada ,Russia and America.

Implications

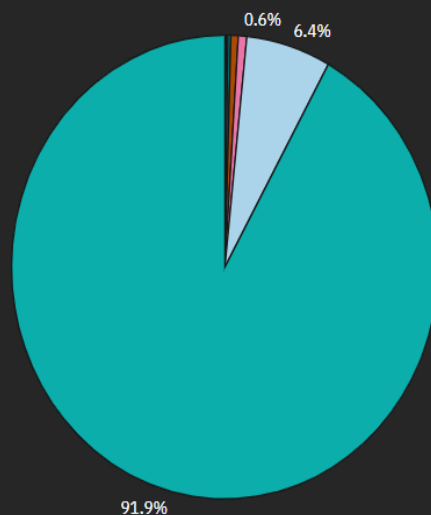
- PostgreSQL is the language and database the attracts respondents among future technology.
- Top 3 operating system respondents likely to work in future are Linux, Docker, AWS.
- React.js is likely to take over JQuery in future.

CONCLUSION

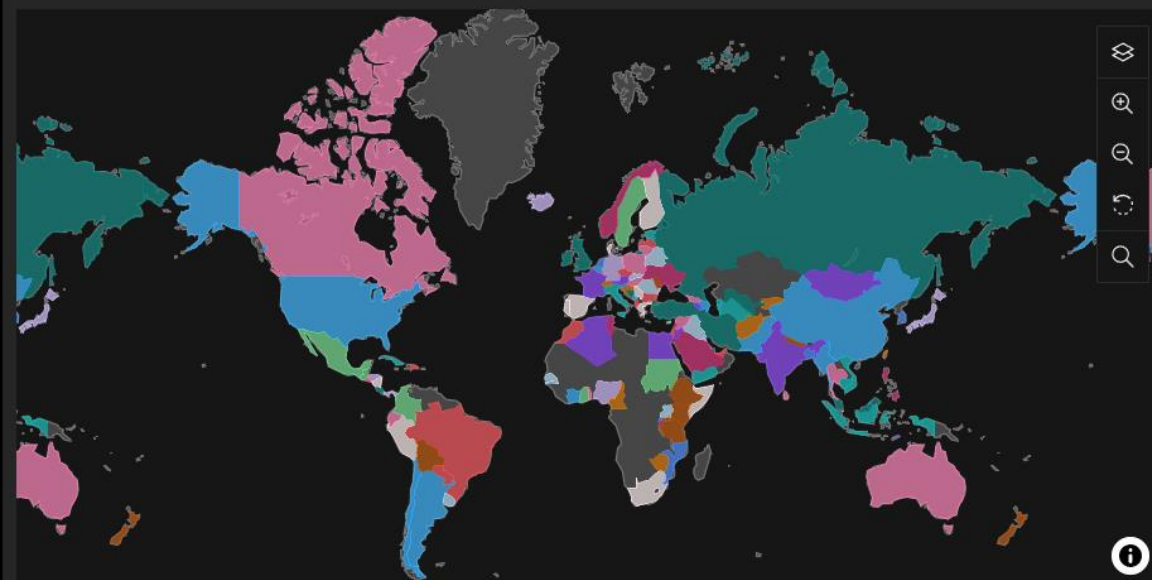
- Among top languages Database Management System, querying language will take lead among programming languages due to growth of Data Science.
- In future along with structural database developers likely to work with non-structural databases like MongoDB etc...
- Bachelors and Master degree holders are most interested in Development among the responders.

APPENDIX

Respondent classified by Gender

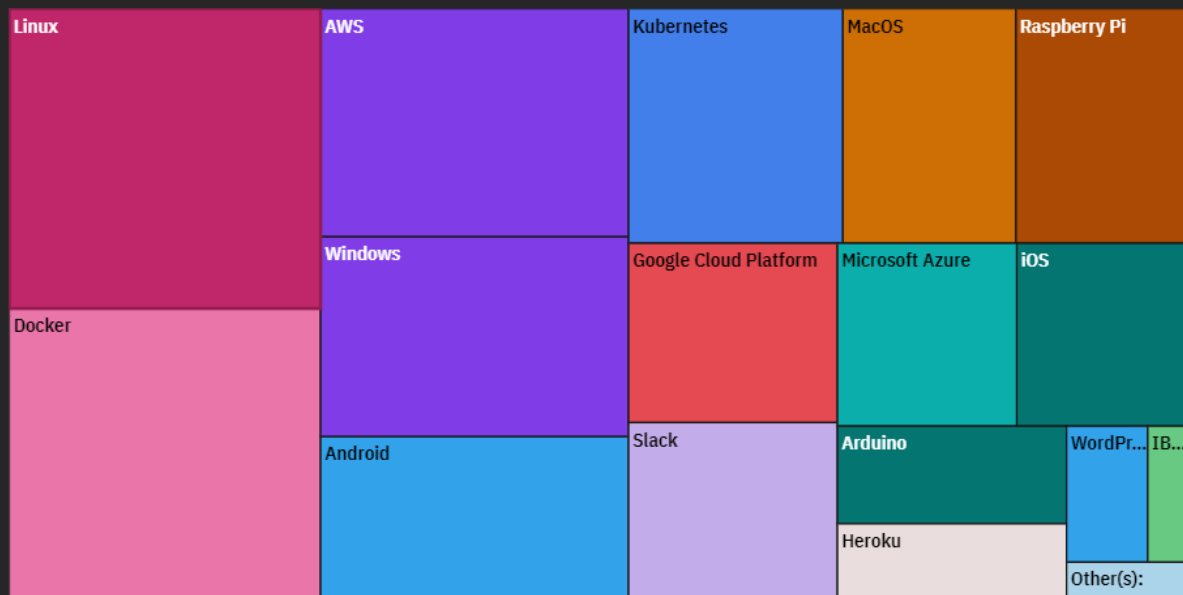


Respondents Distribution by Country

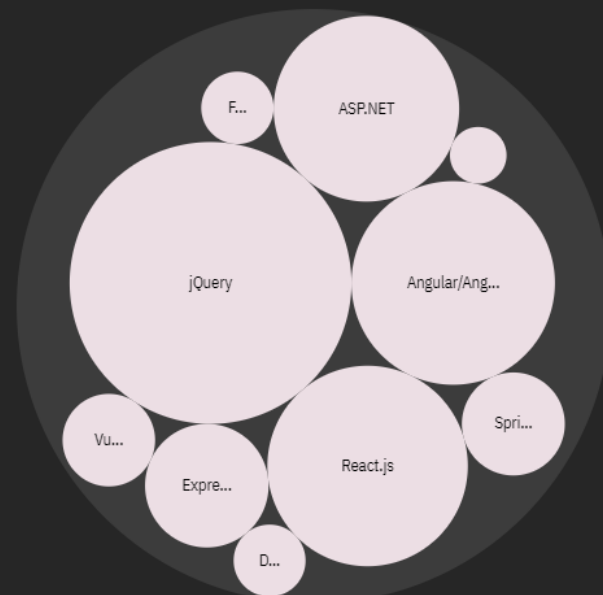


APPENDIX

PlatformDesireNextYear

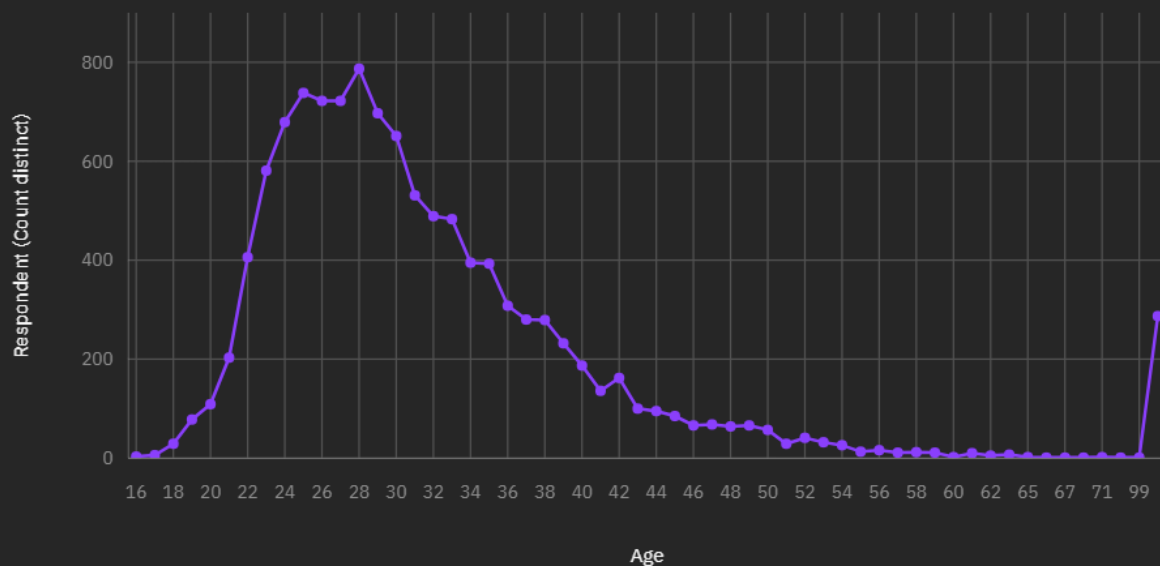


Top 10 WebFrameWorkedWith

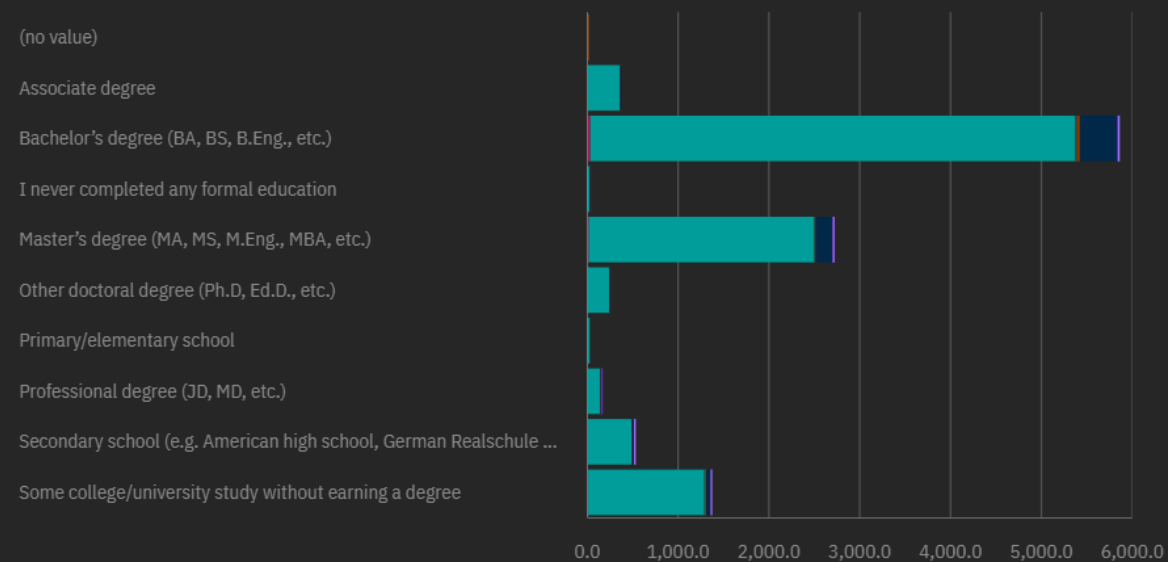


APPENDIX

Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level



POPULAR LANGUAGES

