



Overview on Developers Job Market

HS

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OUTLINE



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EXECUTIVE SUMMARY



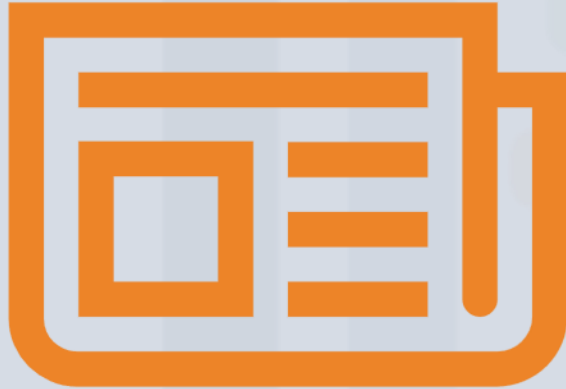
- Based on Stack Overflow Developers Survey we seek to gain some insights on the International Developers job market
- The work also aimed to develop skills in the use of IBM Cognos Analytics and consolidate the knowledge provided within the Coursera IBM Data Analysis training
- General profile of developers is still "Well Educated Young Males"
- JavaScript, HTML/CSS, SQL and Python are predominant skills and recommended entry points for who wants to start in the IT
- There are new names arising as Database Tech that deserves more attention and research: PostgreSQL, MongoDB and Redis

INTRODUCTION



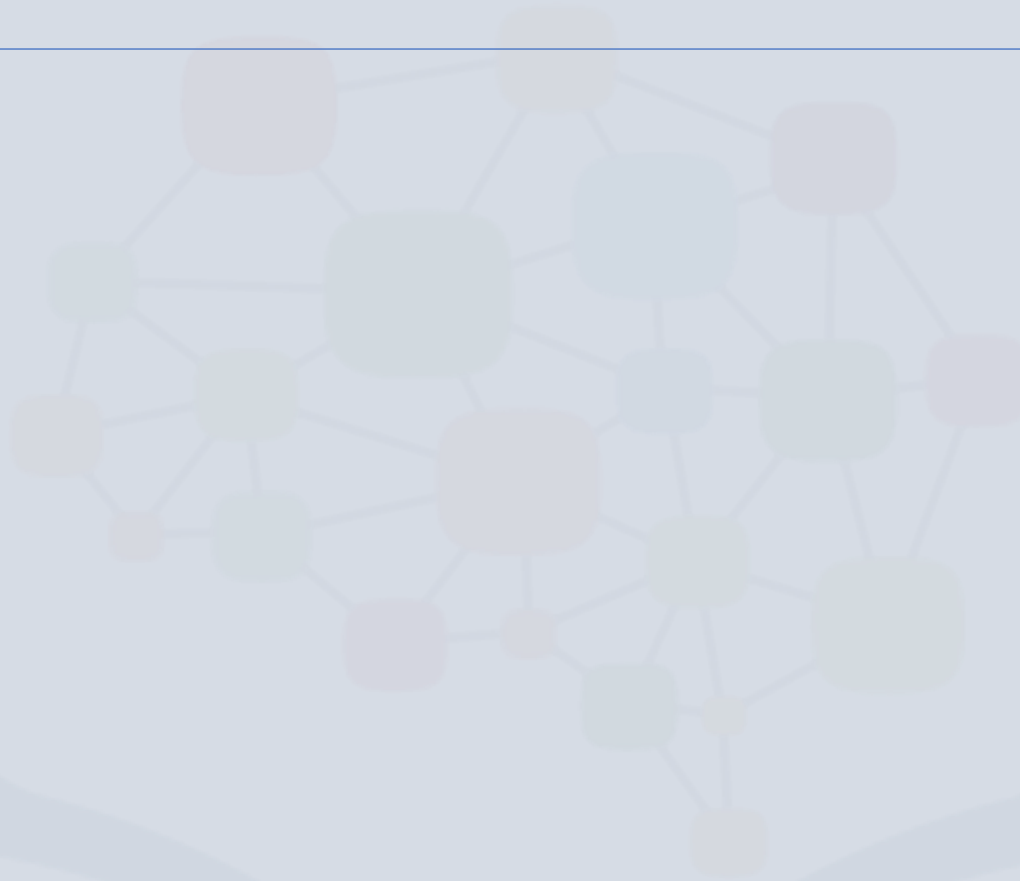
- Explored data available on 2019 Stack Overflow Developer Survey
- Insights found could be useful for :
 - People who wants to enter in the IT job market
 - Business who offer training in IT market
 - Providers looking to identify where to invest in HR

METHODOLOGY



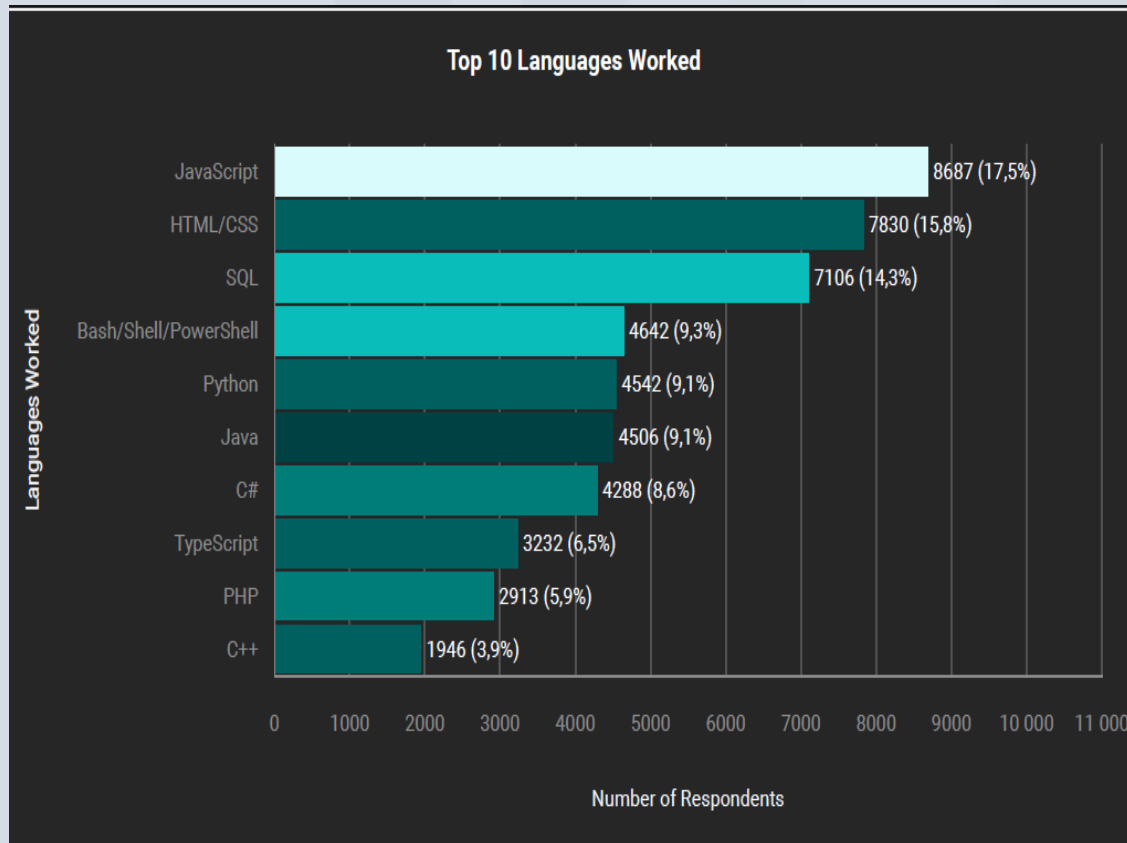
- Analysis was based on Stack Overflow Developer Survey 2019
- IBM Cognos Analytics was used to filter and build visualizations of the main info surveyed
- Methods and procedures developed based on the Coursera framework and recommended practices

RESULTS

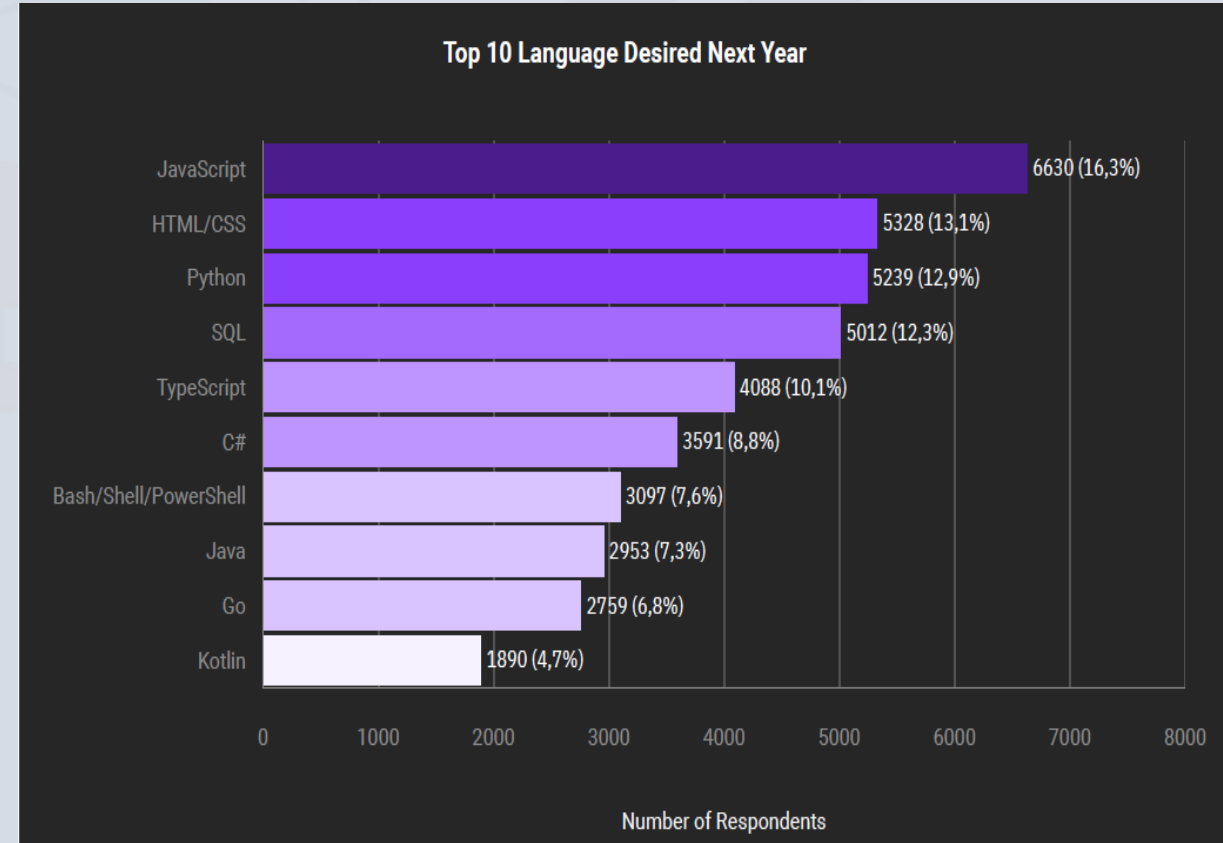


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

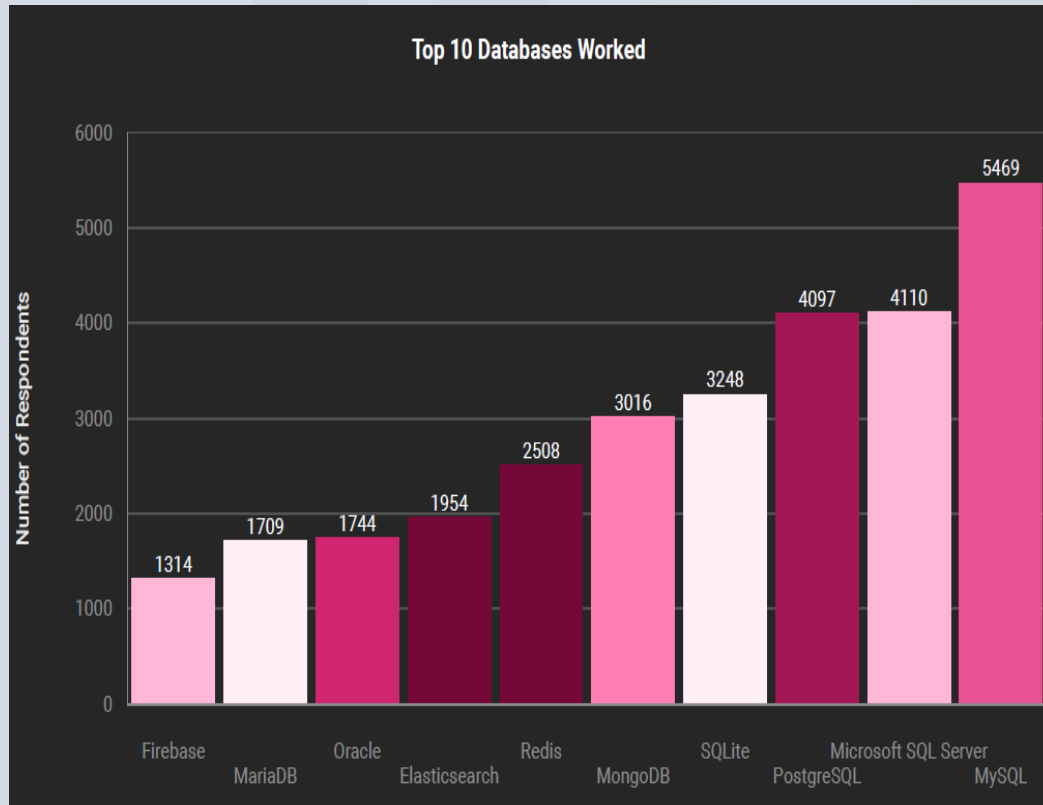
- JavaScript and HTML/CSS continues to dominate the scenario
- Python and TypeScript gaining attention of the developers
- SQL and PowerShell lost positions in the ranking

Implications

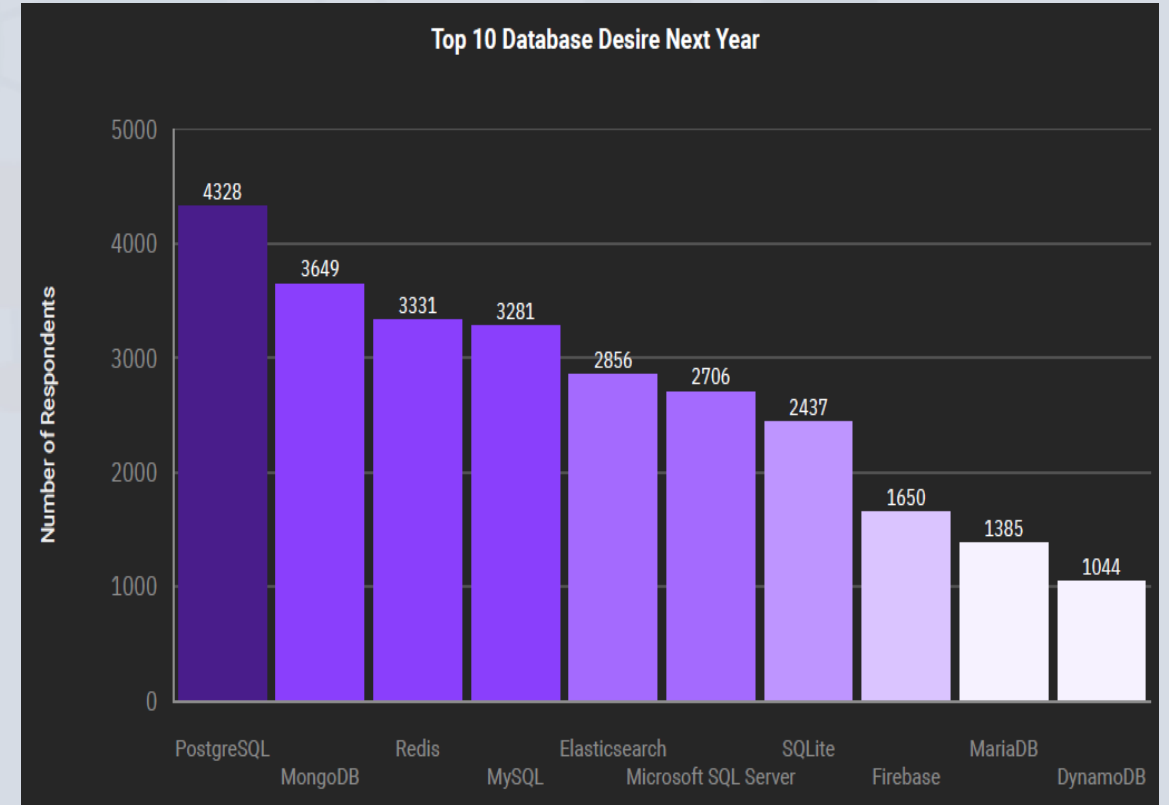
- X based Software continue to attract attention of developers and their clients
- Seeking to learn or enhance skills on Python and TypeScript may be an area a good idea

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS

FINDINGS & IMPLICATIONS

Findings

- MySQL and Ms SQL Servers dominates the scenario
- But PostgreSQL, MongoDB and Redis dominates the interest as future tech

Implications

- MySQL and SQL Server continue as to be a must know to enter in the market
- Must start to look for opportunities to develop app with the ascending competitors

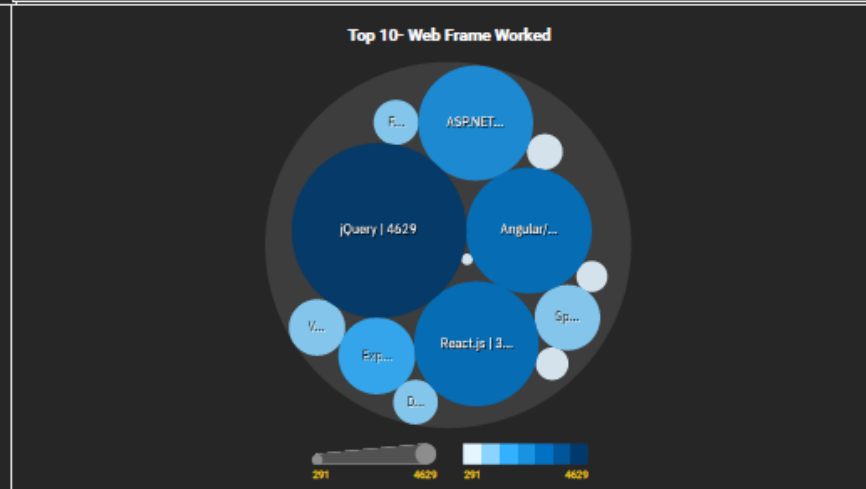
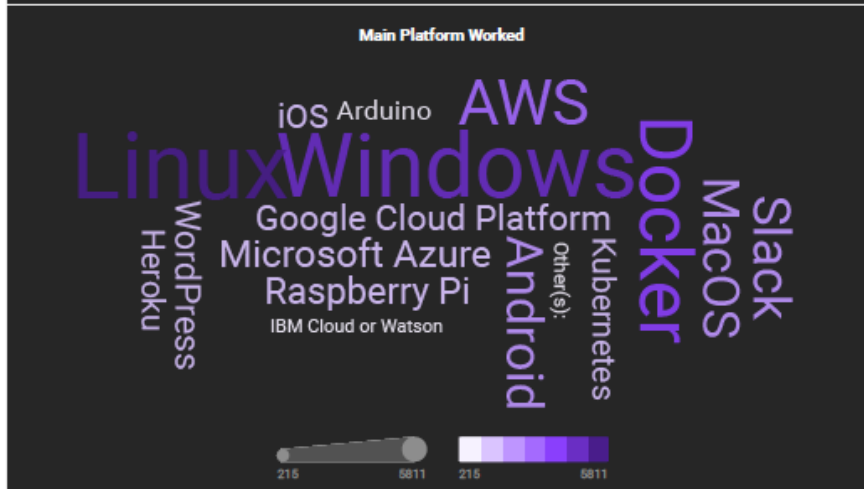
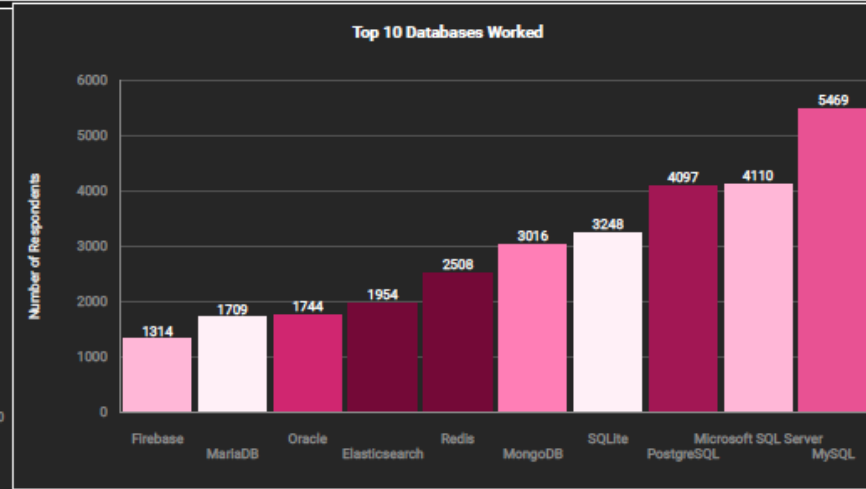
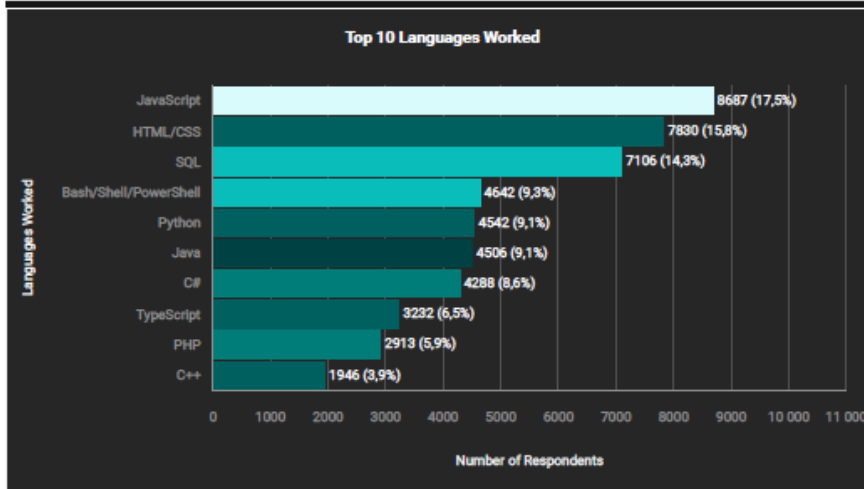
DASHBOARD



[<https://github.com/hsgeral/Coursera/blob/main/ibm%20data%20analyst_%20project%20capstone.pdf>](https://github.com/hsgeral/Coursera/blob/main/ibm%20data%20analyst_%20project%20capstone.pdf)

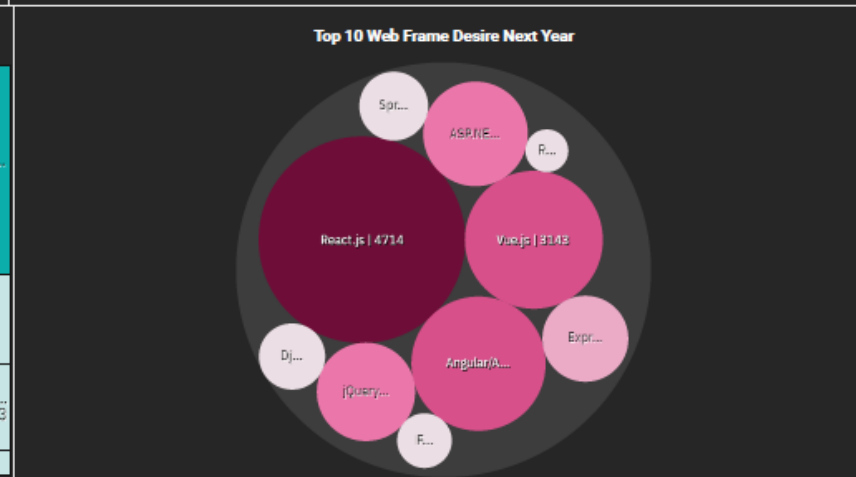
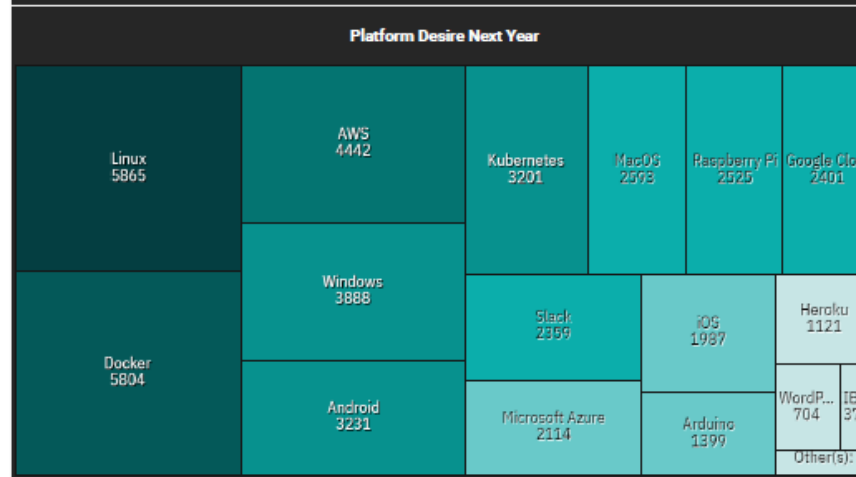
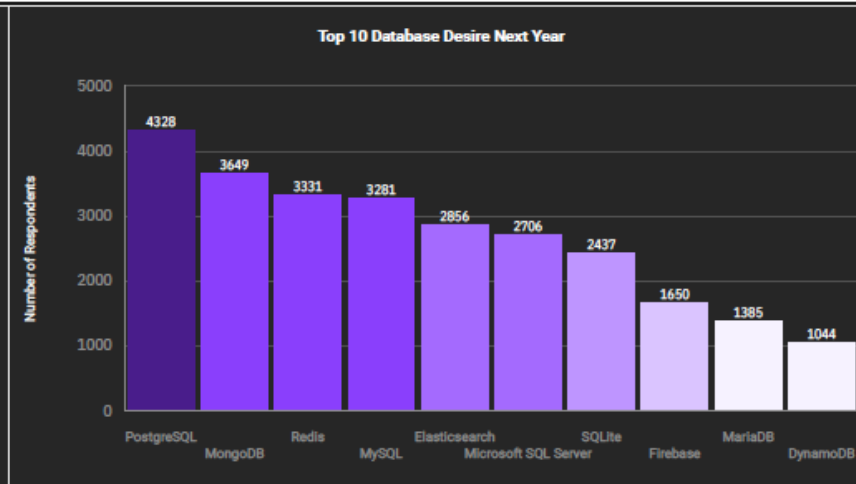
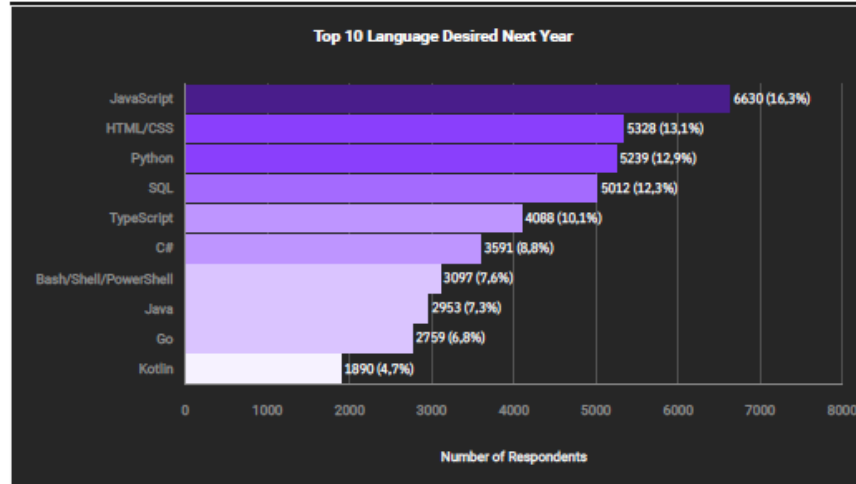
DASHBOARD TAB 1

Current Technology Usage.



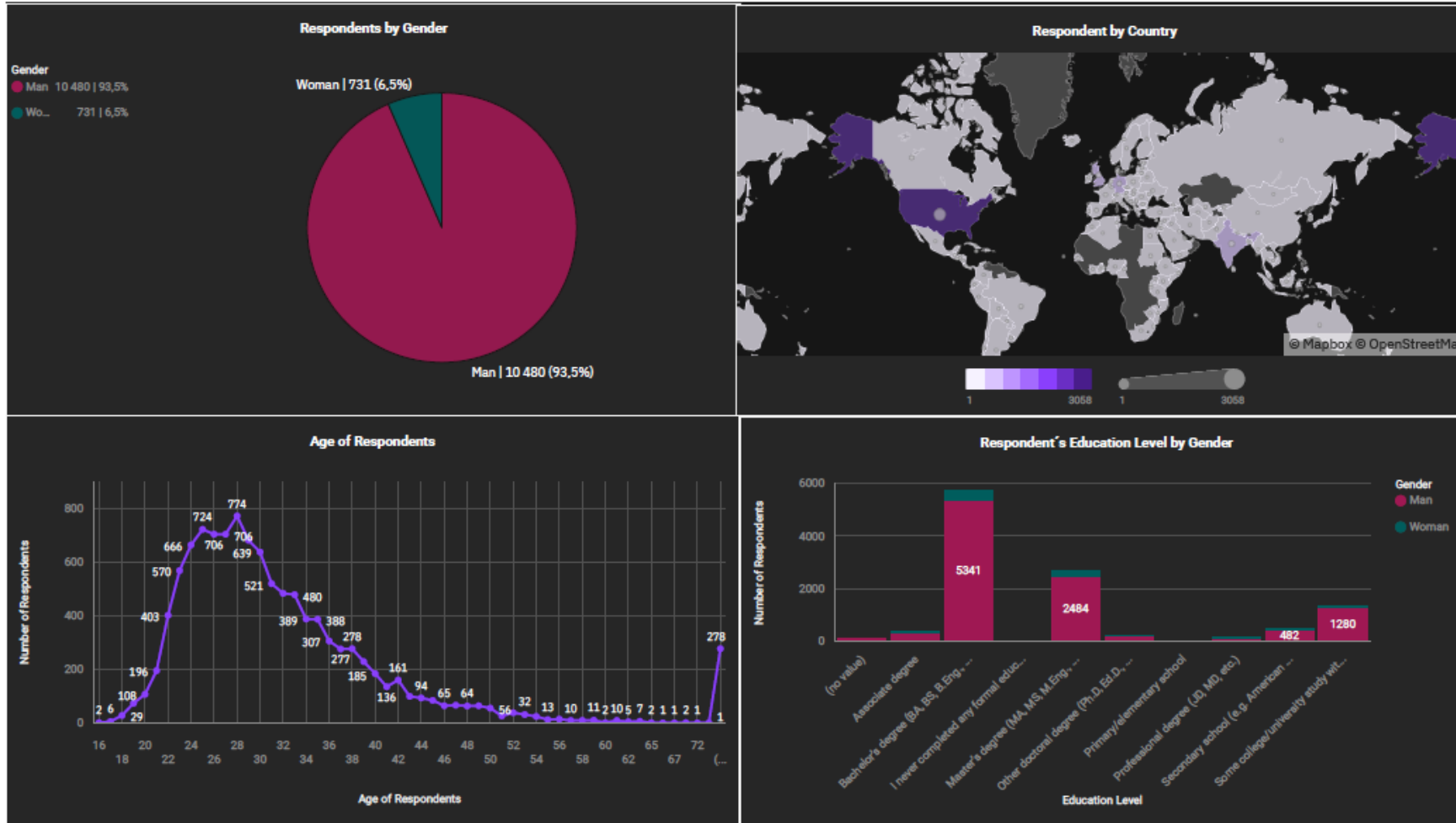
DASHBOARD TAB 2

Future Technology Trend



DASHBOARD TAB 3

Demographics



DISCUSSION



- Have you participated in discussions about PostgreSQL, MongoDB or Redis? Why you believe they are on the top of desired learning?
- Do you agree that SQL as a software language is losing terrain for Python based scripts?

OVERALL FINDINGS & IMPLICATIONS

Findings

- Developer is dominated by young Man with Bachelor or Master Degree
- JavaScript and HTML predominance indicates most of the current opportunities are in the User Experience improvement
- There are an interest for new Database Tech that shall be seen deeper to get better understanding of reasons

Implications

- If you want to enter in the IT JavaScript and HTML are still the largest areas
- Python and Typescripts may be a skill to of interest
- Business shall find opportunities in the new database interests: offers of training or new apps could be a possibility.

CONCLUSION



- IBM Cognos Analytics is a great tool to analyzing data based on visualization approach
- Stack Overflow survey provided insights about the basic profile of developers (Male, Young, University Degree) and allow us to get the following insights:
 - JavaScript and HTML/CSS are the biggest areas of work
 - Python is ascending whilst SQL lost some positions
 - There are new Database tech that shall be monitored and studied

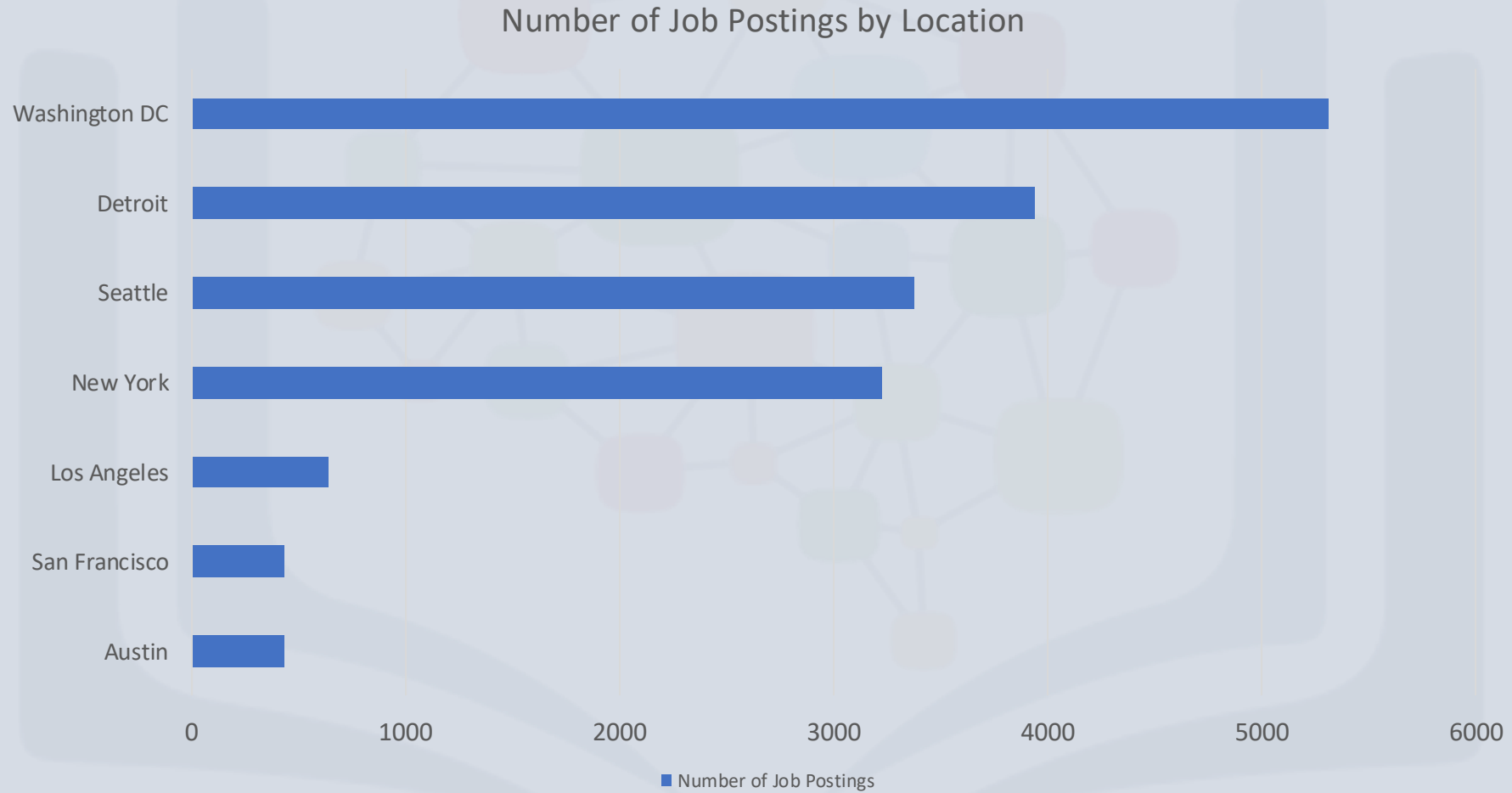
APPENDIX



1- Job Postings per Location

2- Annual Average Salary per Programming Language

JOB POSTINGS



POPULAR LANGUAGES

