

# STACK OVERFLOW DEVELOPER SUURVERY 2019

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## OUTLINE



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

## **EXECUTIVE SUMMARY**



- Data Analysis and Visualization goal
- Methodology description
  - Data Gathering
  - Data Analysis
  - Data Visualization
- Key finding presentation with graphs and charts
- Discussion of overall finding and implications regarding the results
- Final conclusions of the caried out research

## INTRODUCTION



- Stack Overflows annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- Survey don't represent everyone in the developer community evenly
- Nearly 90 thousand developers participated
- Trends to predict where the developers are going for next year
  - Learning new Programming language
  - Learning new Data base programming languages

## **METHODOLOGY**



- Collect survey data & explore its content
- Data Wrangling
- Exploratory data analysis
  - Analyzing data distribution
  - Handling outliers.
  - Correlations.
- Data Visualizations
  - Highlight distribution of data, relationships, the composition and comparison of data.
  - Dashboards for user interaction with data



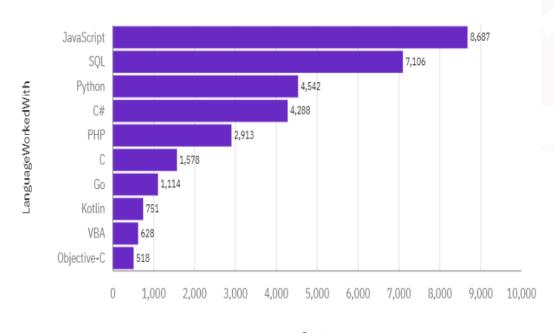
# **RESULTS**



## PROGRAMMING LANGUAGE TRENDS

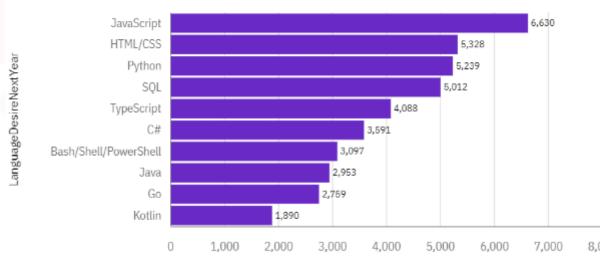
#### **Current Year**

Top 10 LanguageWorkedWith



#### **Next Year**

Top 10 Language Desired Next Year



Counts



## PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

## **Findings**

- JavaScript seems to keep as leading language.
- Python fastest-growing.
- Increasing popularity of TypeScript.

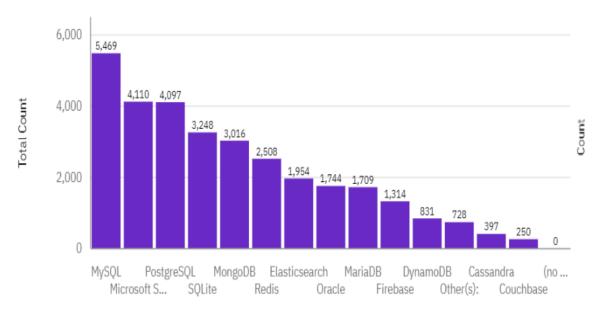
#### **Implications**

 Possible developer migration from JavaScript to TypeScript.

## DATABASE TRENDS

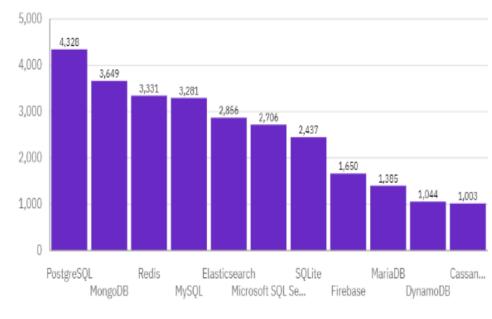
#### **Current Year**

#### Top 10 DatabaseWorkedWith



#### **Next Year**

Top 10 Database Desired Next Year



DatabaseWorkedWith

DatabaseDesireNextYear

# 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.

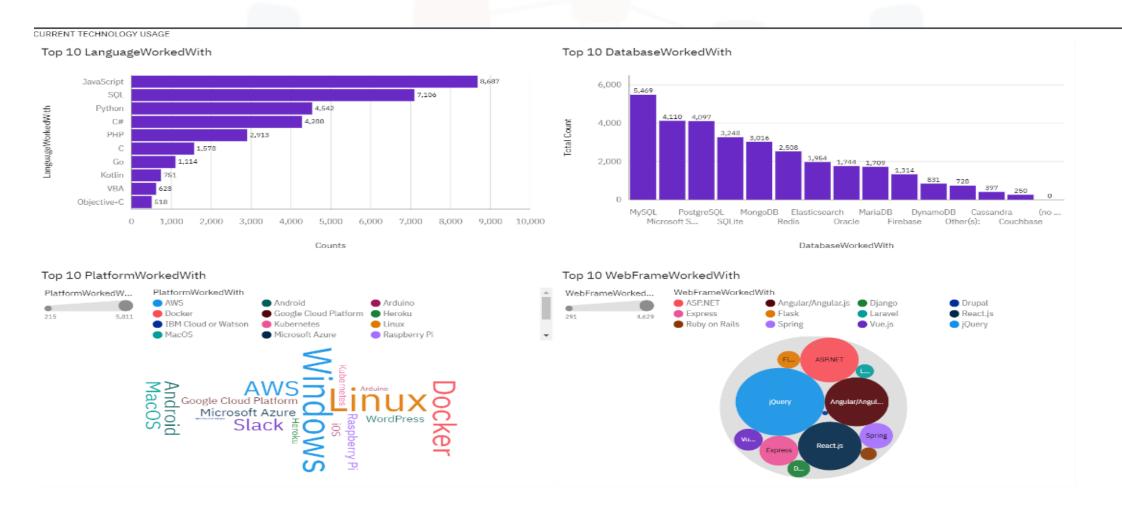


## **DASHBOARD**

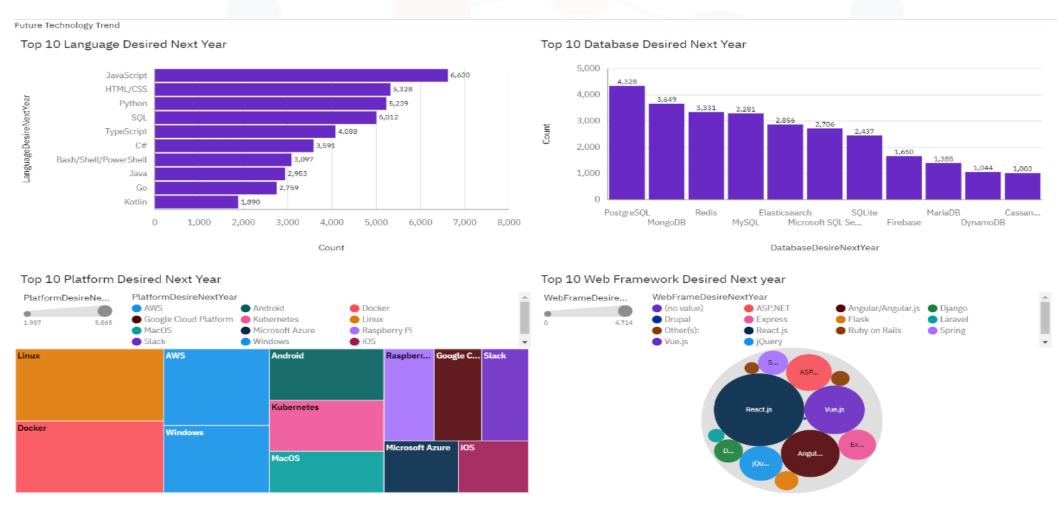


https://github.com/Suresh-Tamang/IBM-Data-Analyst-Capstone-Project/blob/main/IBM Cognos Dashboard.pdf

## **CURRENT TECHNOLOGY USAGE**



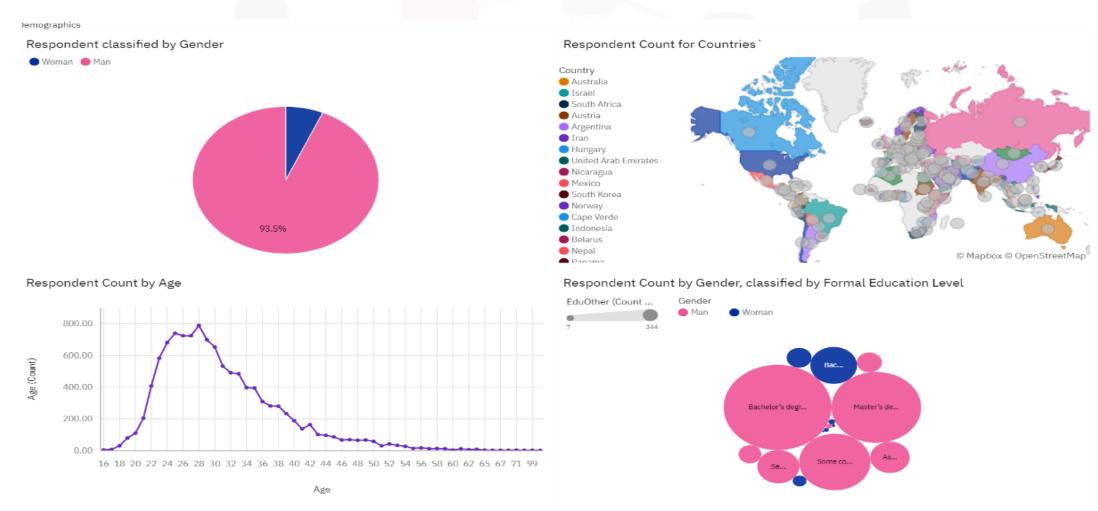
## FUTURE TECHNOLOAGY TREND







## **DEMOGRAPHICS**







# **DISCUSSION**



## OVERALL FINDINGS & IMPLICATIONS

## **Findings**

- JavaScript is widely used and TypeScript is getting popular.
- Over 90% are 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

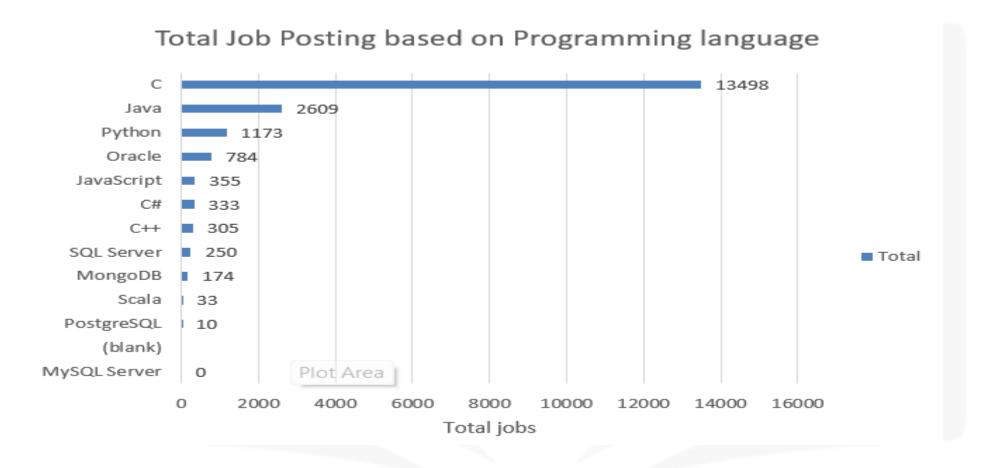


- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- Developers are also from different background.
- We can obtain the future trends of Programming language and Database
- The tech job is spread across the world

# **APPENDIX**



## JOB POSTINGS



## POPULAR LANGUAGES

