

# Top IT Industry Trends

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## OUTLINE



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

### **EXECUTIVE SUMMARY**



- JavaScript is the most popular programming language to work with
- Linux continuous to be the top most popular platform
  - Followed by Windows and Docker
- BASH as the most desired language next year
- Visual Studio Code reigns the Development Environment
- **jQuery** is the best pick of the people for Web Frameworks

### INTRODUCTION



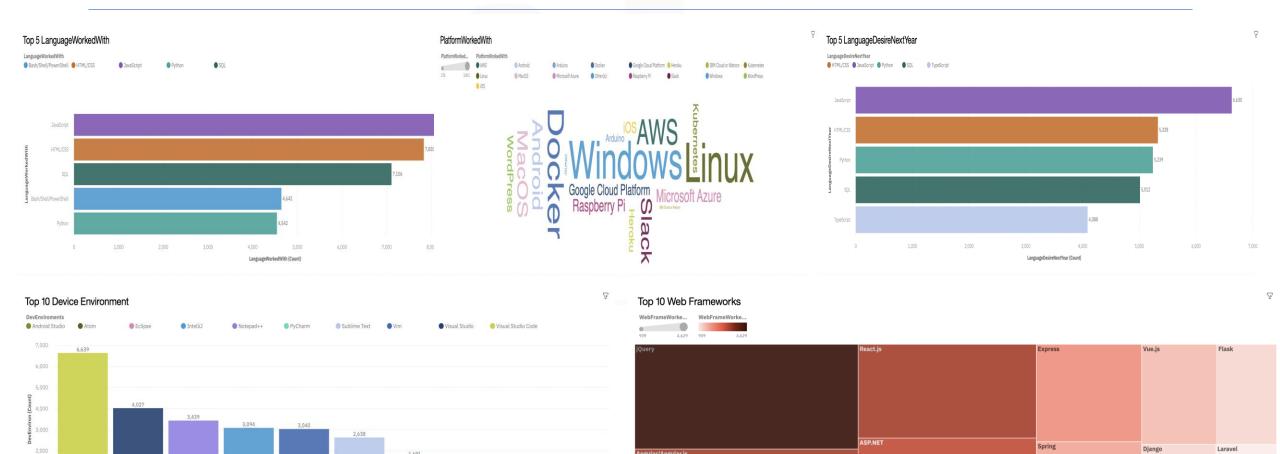
- IT industry continues to innovate and develop in the fastpaced manner
- New languages, databases and platforms are desired in the future
- This study explores the information gathered from the Stack Overflow archived dataset
- It elaborates the sentiments of software developers around the world regarding what technologies they prefer to use
  - Programming Languages
  - Database and Platforms
  - Web Frameworks

## **METHODOLOGY**



- The survey is conducted globally and received 88,883 responses from 179 countries
- The survey took place in 2019 from January to February
- Respondents were mainly from channels owned by Stack Overflow
- Channels such as:
  - On-site messaging and Emails
  - Blog posts and Meta posts
  - Banner ads

## **RESULTS**



Notepad++

IntelliJ

Sublime Text

DevEnviron

Android Studio

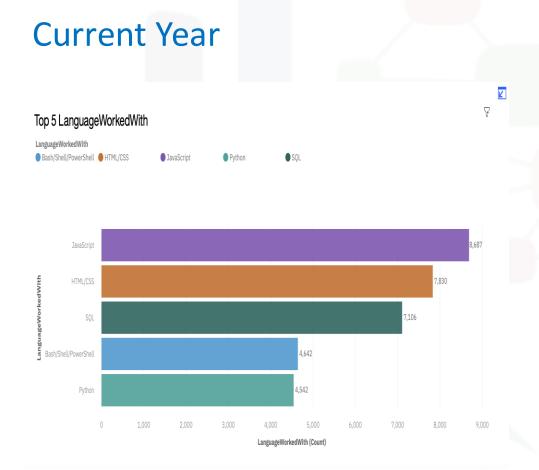
Eclipse

Visual Studio

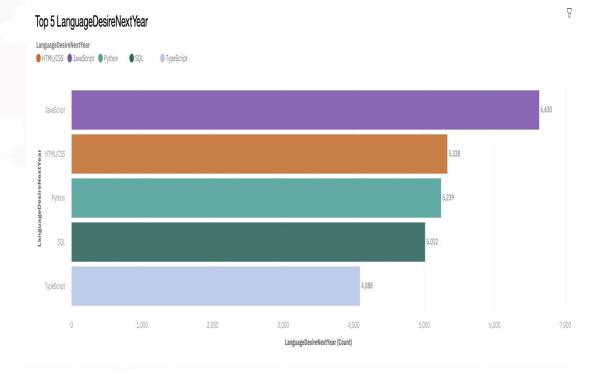
1,000

Visual Studio Code

### PROGRAMMING LANGUAGE TRENDS



#### **Next Year**



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

#### **Findings**

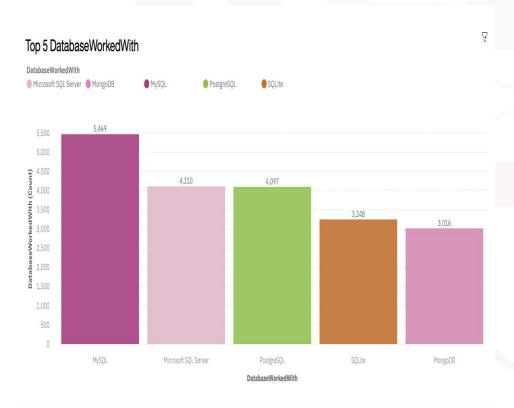
- JavaScript is the most popular
- HTML/CSS will continue to be the second most popular
- Python will rise and be popular next year

#### **Implications**

- JavaScript continues to be the most popular next year
- Bash is on decline and will be replace by TypeScript
- SQL will stay in popularity

### DATABASE TRENDS

#### **Current Year**



#### **Next Year**



## DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

#### **Findings**

- MySQL is currently the most popular
- MongoDB is rapidly growing
- Redis and Elasticsearch will emerge next year

#### **Implications**

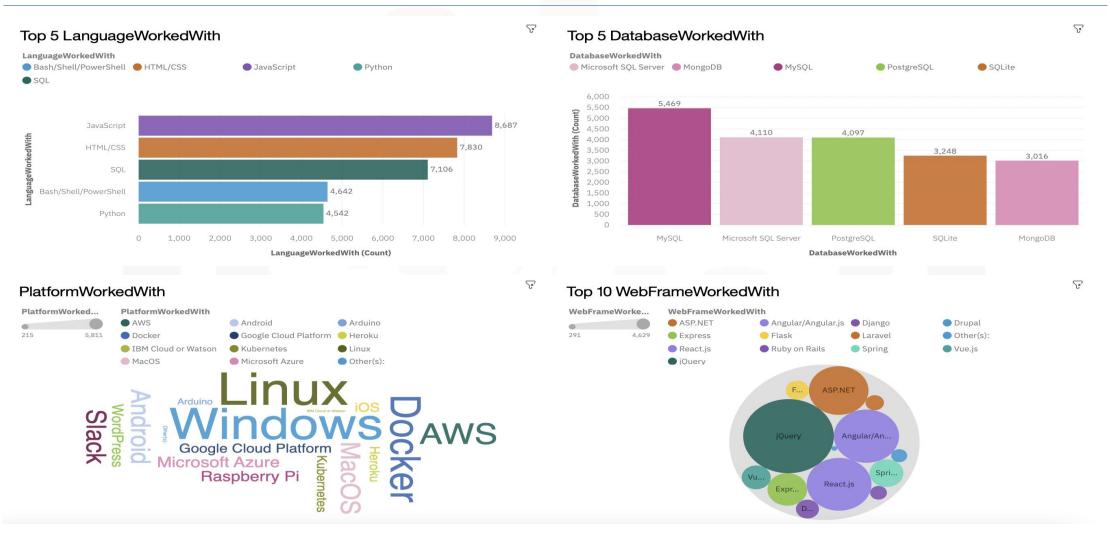
- MySQL is on declined and will be replaced by PostgreSQL
- Database sector changes rapidly
- New databases will emerge

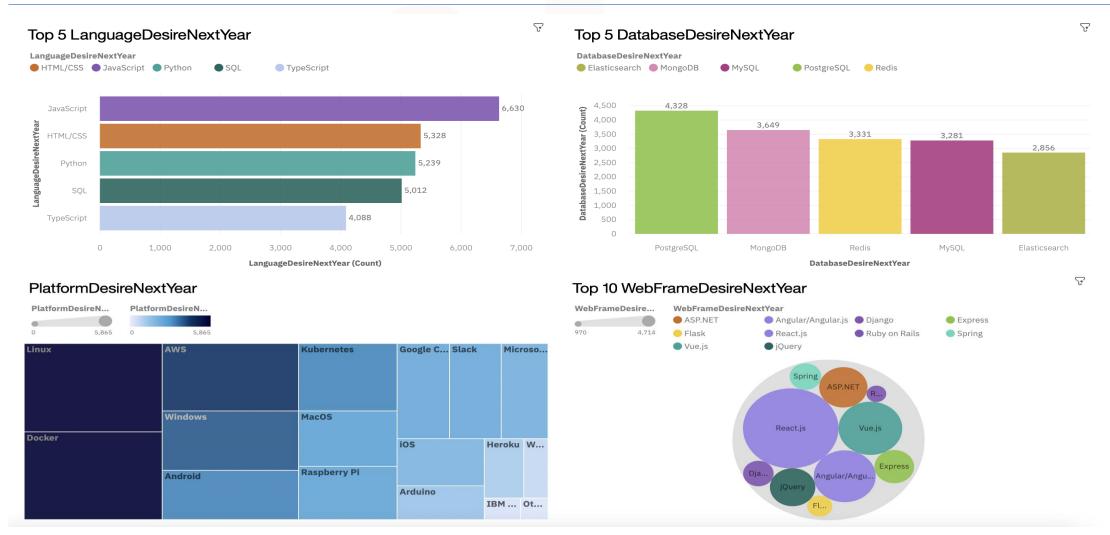
## **DASHBOARD**

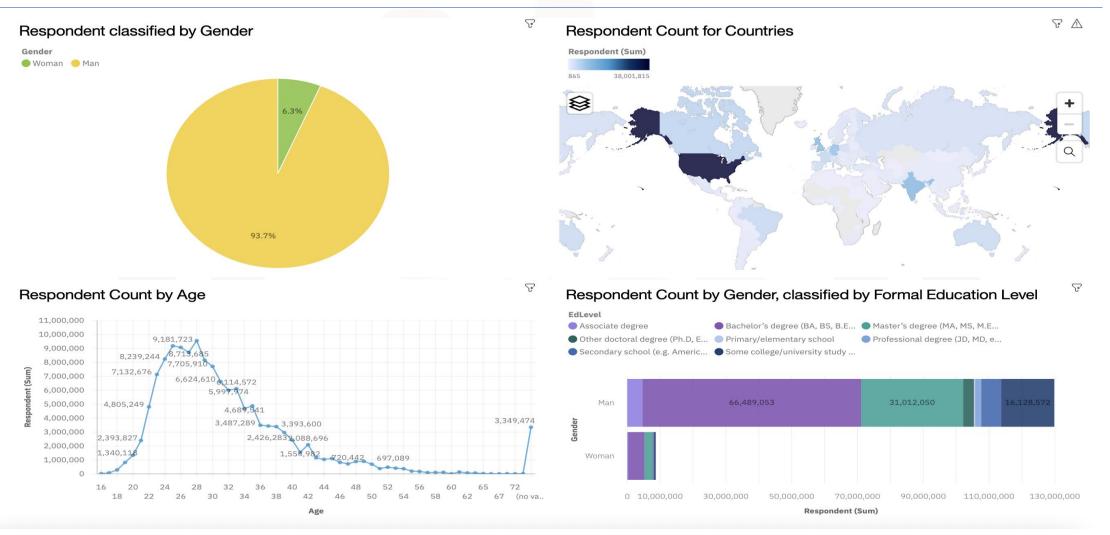


https://dataplatform.cloud.ibm.com/dashboards/1bfd6038-ea89-4901-b6db-

d2fb9a407505/view/7414a03704b26ffc63c8eee407ca79537 835770eb3bbd60089d37b4959692497f06f4592c87c4c5b88 475131a5bd140ac0

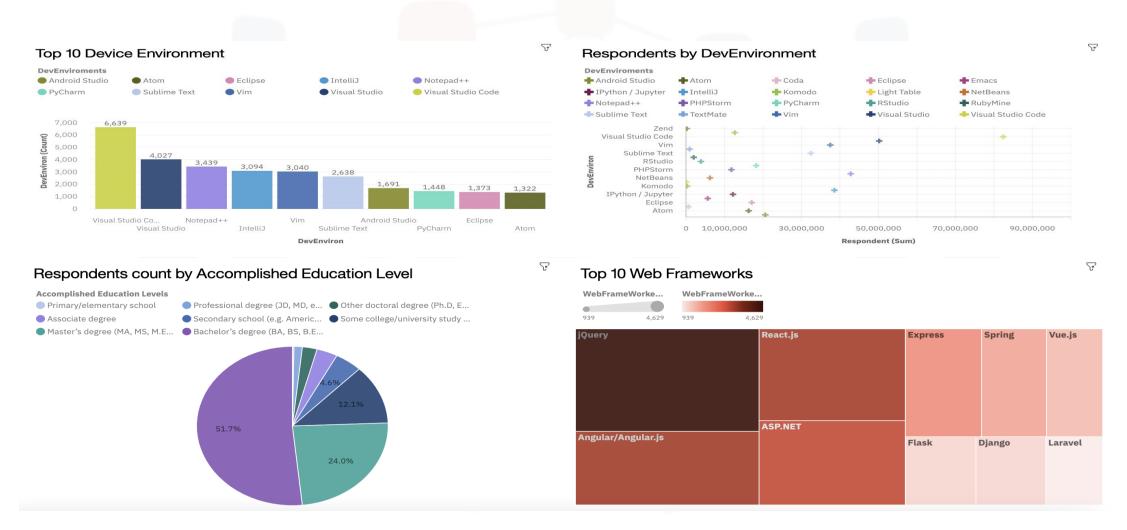












### **DISCUSSION**



- IBM Cloud for Data was used for data visualization
- Data was cleaned, removed duplicates and empty values and was explored using the IBM **Cloud Suites**
- Dataset provided were in .csv file format

### OVERALL FINDINGS & IMPLICATIONS

#### **Findings**

- Majority of respondents have Bachelor's Degree as their level of education
- Most of the respondents were from United States
- Linux will continue to reign the most popular platform

#### **Implications**

- Development Environment have low positive correlation with the respondents due to rapid technological innovations
- Python is rapidly emerging to be the most popular
- Age of respondents was 28 years old



### CONCLUSION

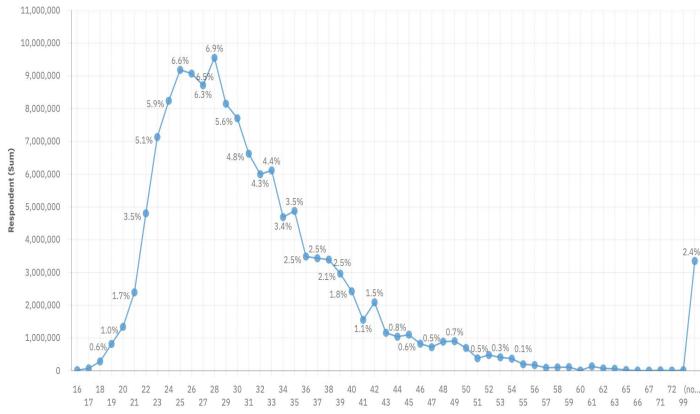


- JavaScript will retain to be the most popular programming language until the future
- Curiosity with regards to technology will continuously attract younger age
- PostgreSQL will emerge as the most popular database and will replace MySQL
- Technology rapidly develops for most of the advancements, efficiency and ease of use.

## **APPENDIX**

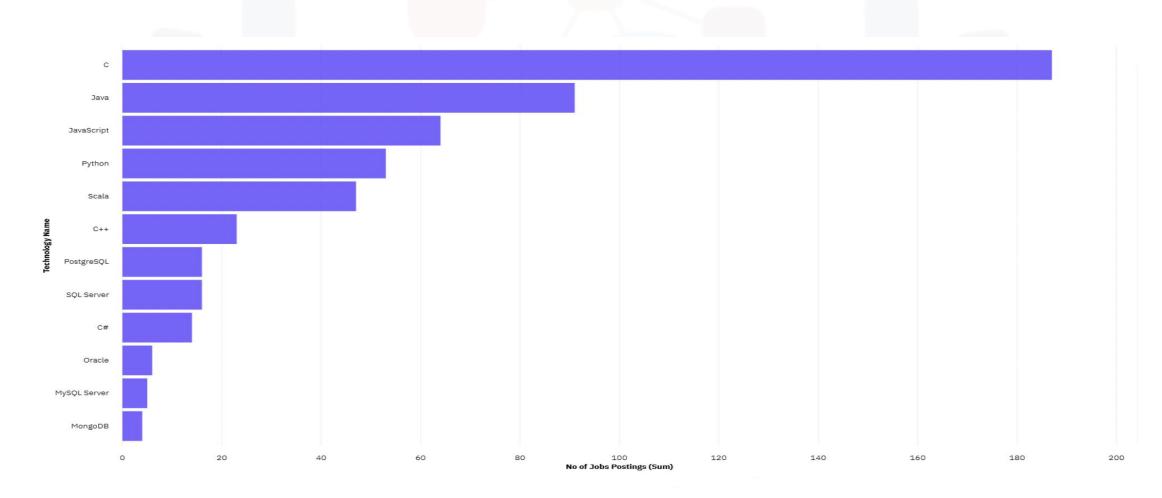


#### Respondent Count by Age

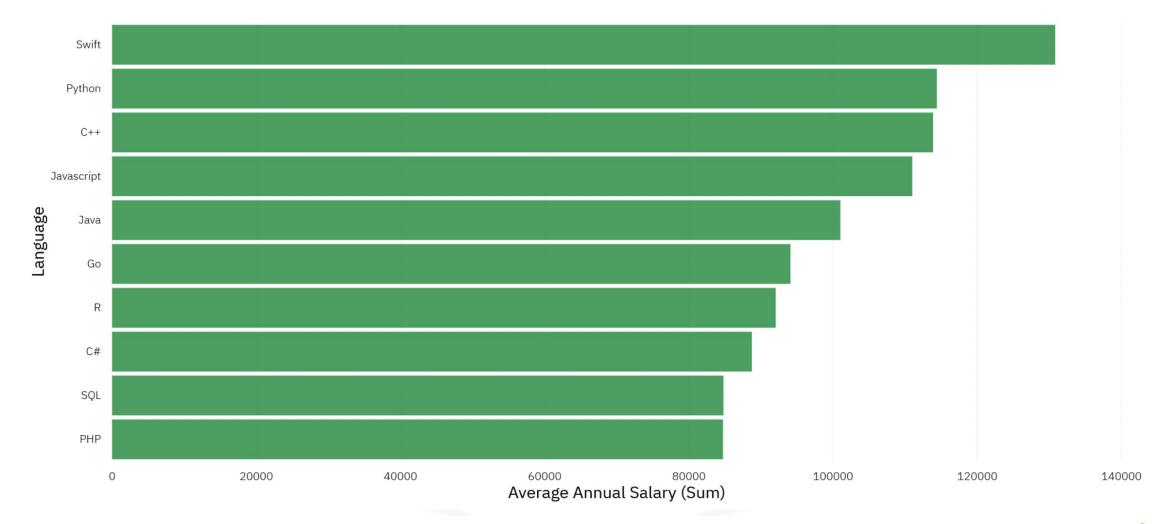




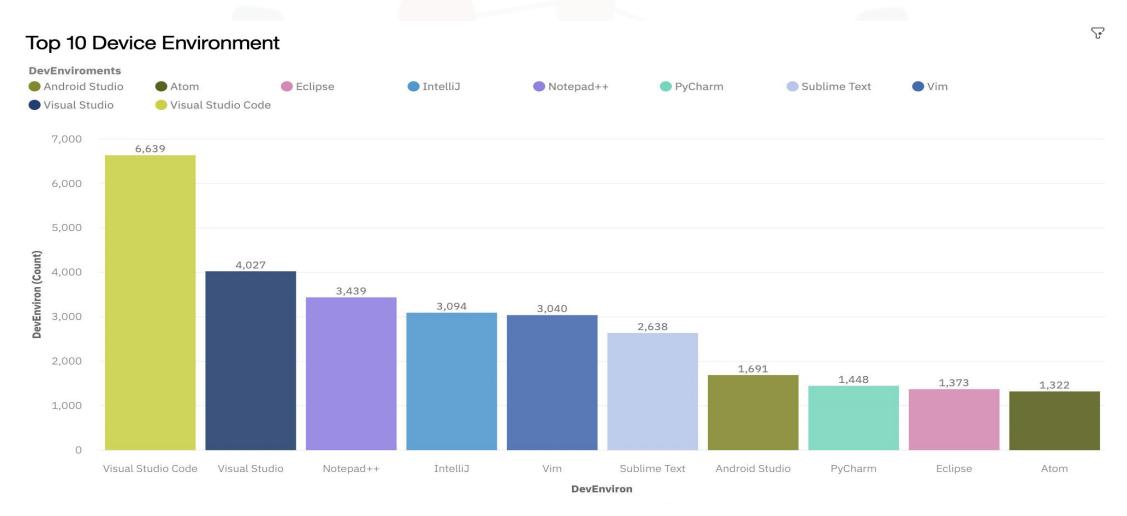
## GITHUB JOB POSTINGS



## POPULAR LANGUAGES



### TOP 10 DEVICE ENVIRONMENT







# CORRELATION BETWEEN RESPONDENTS AND DEVENVIRONMENT

#### Respondents by DevEnvironment



