

SURVEY ON MOST POPULAR TOOLS AMONG DEVELOPERS

ESSKA IBNUSURA
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OUTLINE



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

EXECUTIVE SUMMARY



- JavaScript, Python, and HTML/CSS continue to be the most sought-after programming languages, reflecting their versatility and widespread use.
- MySQL remains the most popular database, followed by PostgreSQL and Microsoft SQL Server.
 - AWS, LINUX & Windows are the leading platforms.
 - React & Angular are the most commonly used web framework.
 - AWS, Azure, Google Cloud cloud are the dominant cloud platforms.
- The majority of the developer identify as male
- The United States has the higher number of developer.
- The large age group is between 20 and 30.

INTRODUCTION



- Analyze the latest trends in the developer community, based on data from Stack Overflow's annual developer survey.
- The results may not be representative of all developers.
- Identify the most popular tools used by developers.
- Distribution of developers across different regions and countries.
- Explore the trends in developer programming language, technologies, and tools.

METHODOLOGY



- Collect Survey Data & Explore the Content
 - Web Scrapping
 - APIs
- Data Pre-Processing
- Exploratory Data Analysis
 - Analyzing data distribution
 - Handling outliers
 - Check correlation
- **Data Visualization**
 - Highlight distribution of data, relationships, the proportion and comparison of data.
- Building a Dashboard

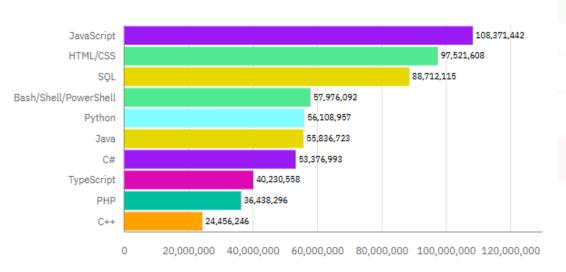
RESULTS



PROGRAMMING LANGUAGE TRENDS

Current Year

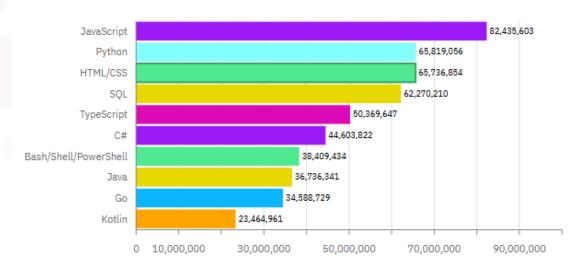
Top 10 Programming Language



Number of Respondents

Next Year

Top 10 Desired Language to Learn



Number of Respondents

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Javascript remains as the leading web development language.
- HTML/CSS/SQL are the most crucial for developer
- Python is growing in popularity

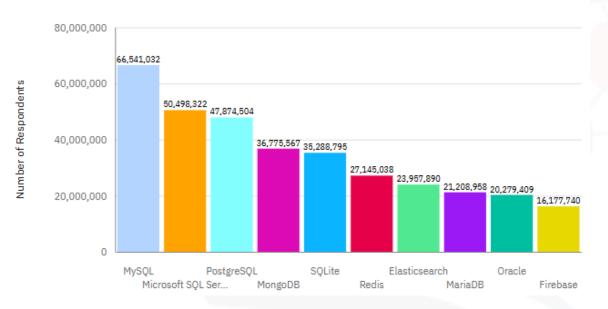
Implications

 Typescript is increasingly being learned, indicates a shift over Javascript.

DATABASE TRENDS

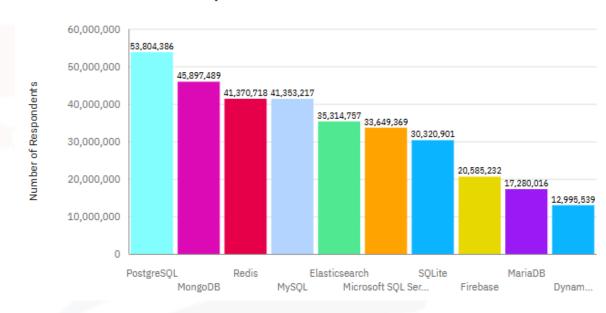
Current Year

Top 10 Databases



Next Year

Top 10 Desired Database to Learn



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL, the most commonly used database.
- PostgreSQL & MongoDB is gaining popularity.

Implications

- PostgreSQL as an alternative to MySQL in advanced features and scalability.
- Redis increasing popularity.

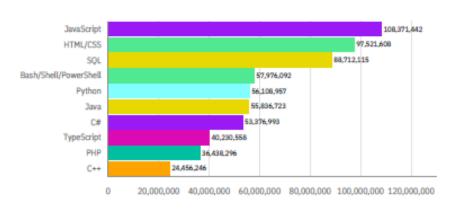
DASHBOARD



https://github.com/Ibnusura/IBM-Data-Analyst-Capstone-Project/blob/172c9a2f54b3ff5bf5e07f6708a686a4adcf91ef/5.%2 ODashboard%20with%20Cognos%20Analytics.pdf

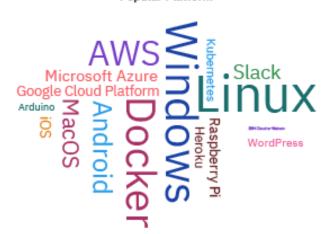
CURRENT TECHNOLOGY USAGE

Top 10 Programming Language

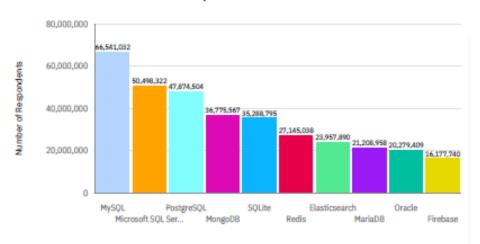


Number of Respondents

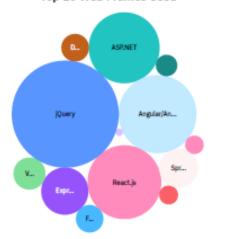
Popular Platform



Top 10 Databases



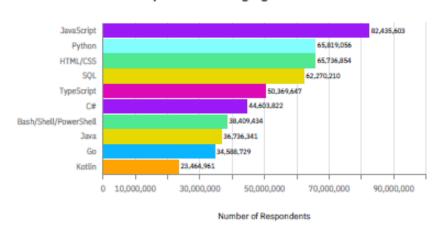
Top 10 Web Frames Used



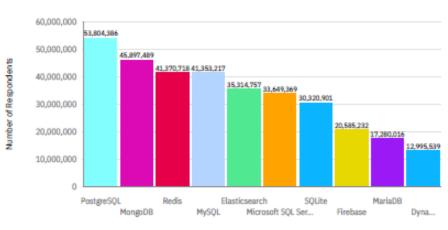


FUTURE TECHNOLOGY TREND

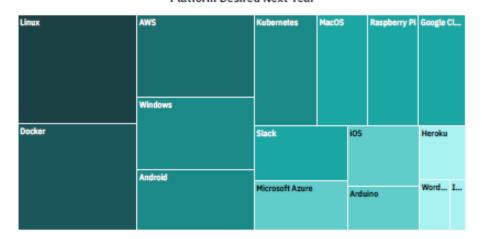
Top 10 Desired Language to Learn



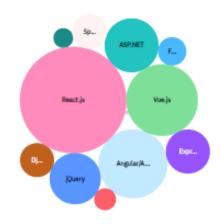
Top 10 Desired Database to Learn



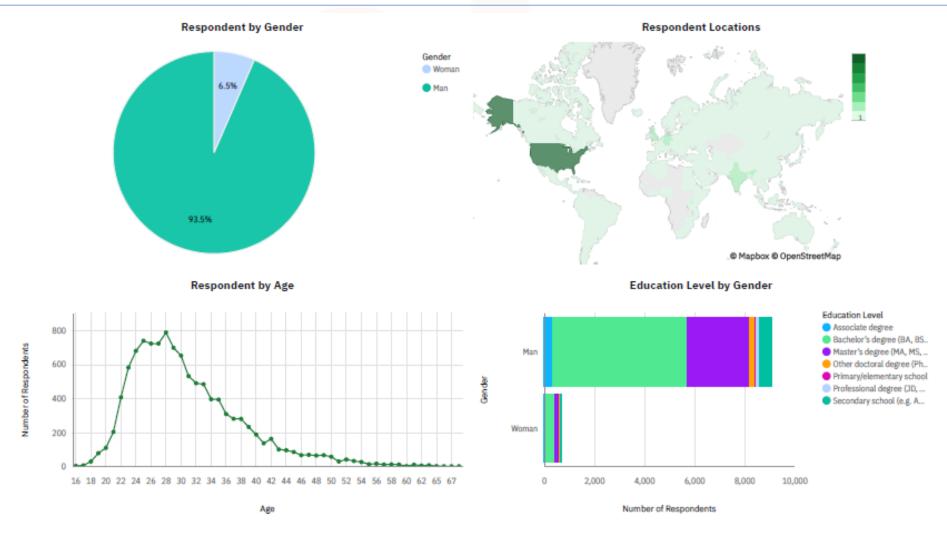
Platform Desired Next Year



Top 10 Web Frames Next Year



DEMOGRAPHICS



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Python & Typescript is growing in popularity
- Over 90% around 20-30 age are male developers.
- Significant portion of developers have some college or university experience but did not complete a degree.

Implications

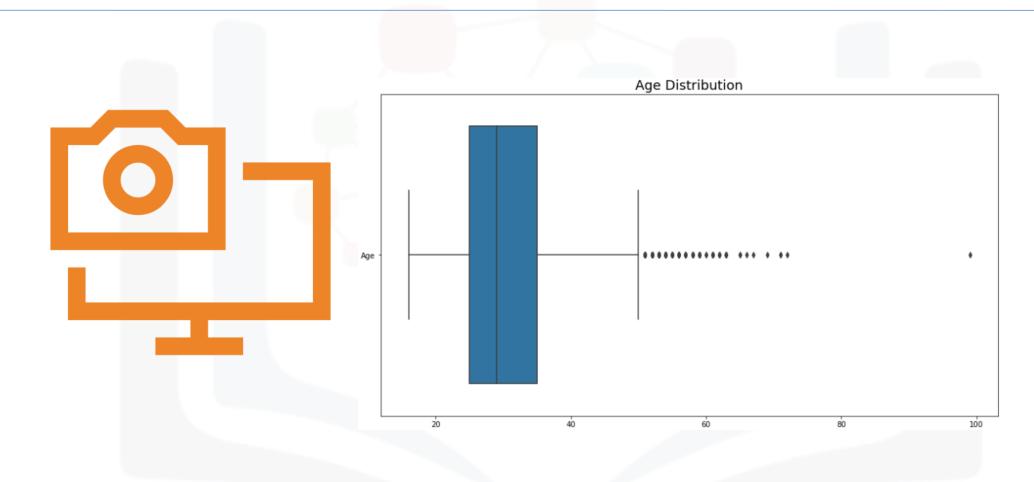
- Typescript is increasingly being learned, indicates a shift over Javascript.
- Demographic characteristics of the survey respondents.

CONCLUSION

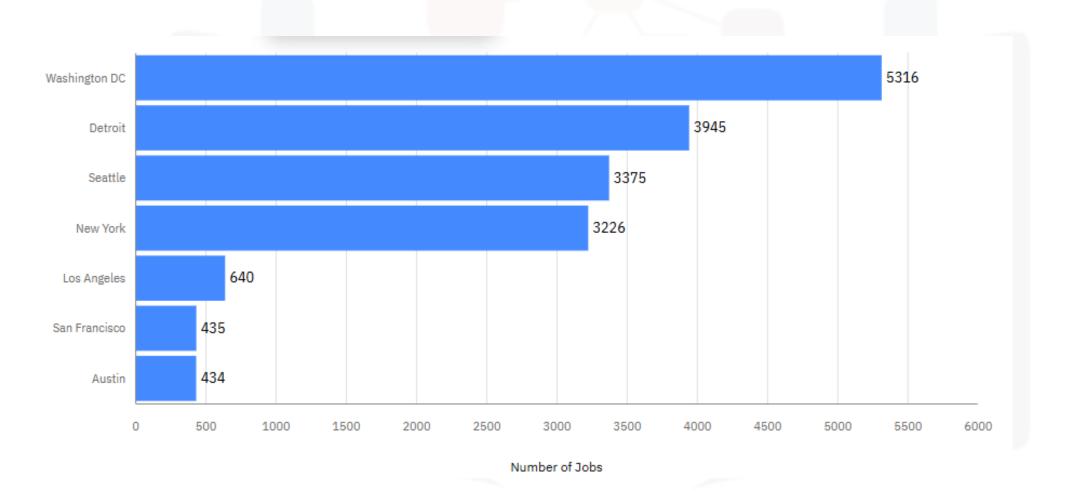


- Developers from various regions and backgrounds contribute to the field, reflecting the global nature of technology.
- Programming languages and technologies evolve rapidly.
- The trends from programming language, platform and tools is crucial to stay updated.

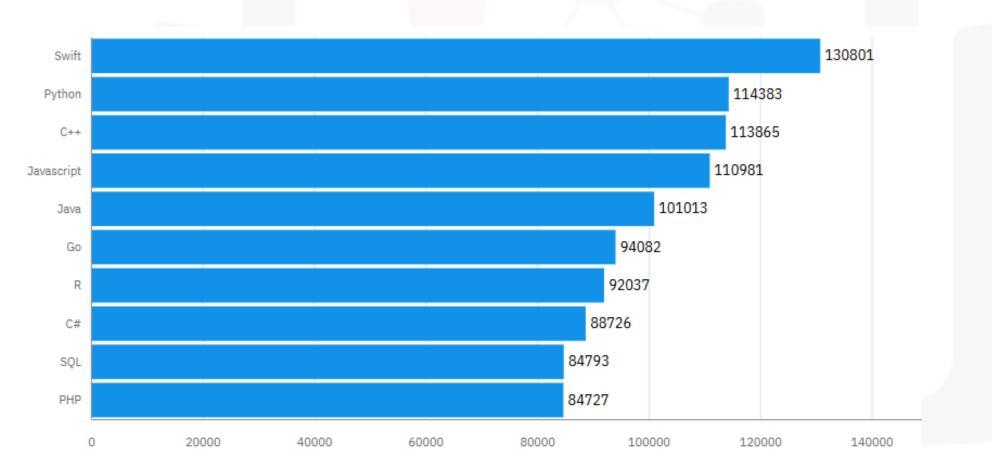
APPENDIX



JOB POSTINGS



POPULAR LANGUAGES



Average Annual Salary