

Data
Technology
Insights and
Trend
Analysis



OUTLINE

- Executive Summary
- Introduction
- Methodology
- Results
- Findings and Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY

- Stack Overflow Developer Survey 2019 data sets were used to analyze data technology trends of this year and next year among different age groups with different educational backgrounds.
- Current technology analysis:
 - JavaScript was the most used language while MySQL was most popular database.
 - Linux & Windows were the preferred platforms while jQuery was most used web frame .
- Future Technology Trend :
 - JavaScript was the most desired language and PostgreSQL was most desired database for next year.
 - Linux and Docker were desired platforms
 - React.js and Vue were preferred platform web frame for next year
- Demographics
 - 93.5% of the respondents were male with majority of them residing in USA and India
 - Majority of respondents had bachelor's or master's degree.

INTRODUCTION

We are analyzing the current and upcoming trends in software development.



To know the answer for:

What are the top programming languages in demand?

What are the top database skill and platforms in demand?

What are popular IDEs?

Methodology

Two datasets were used from the modified subset of the Stack Overflow Developer 2019 Survey.

Dashboards were created using IBM Cognos

Findings were shared

Results

JavaScript popularity is on the rise and will continue to be in demand.

MySQL is most preferred now however next year PostgreSQL will take its place

Linux is used platform along with Docker

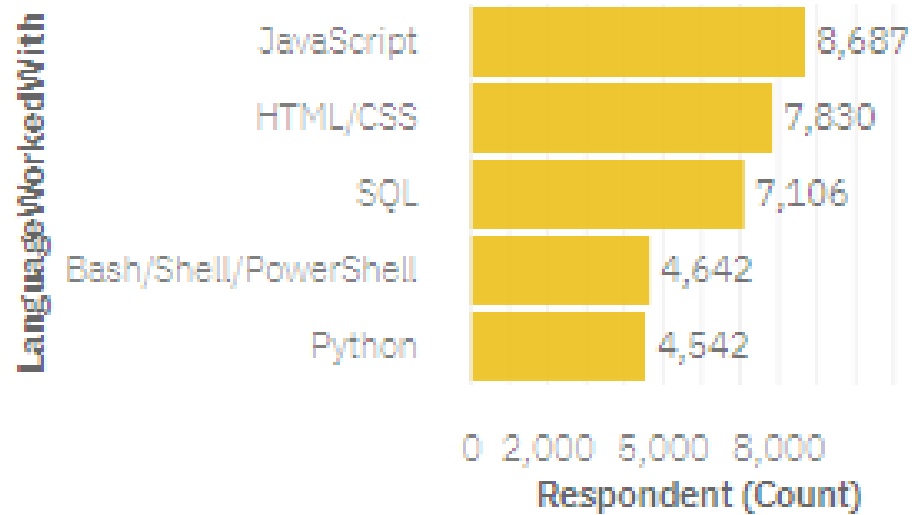
jQuery and React.js are most popular Web Frames

Percentage of women in sample is very low.

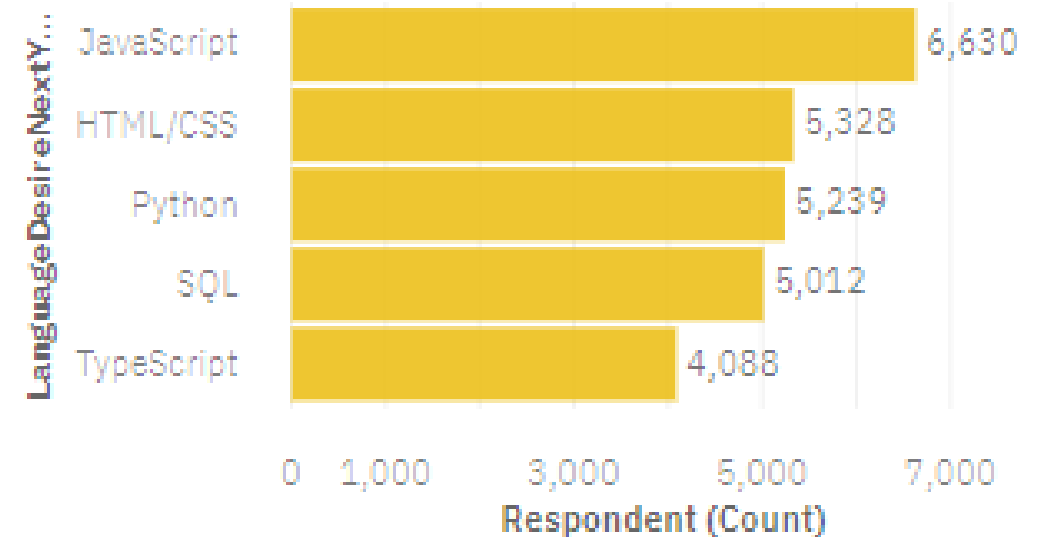
Highest number of respondents are between 20-40 age group.

PROGRAMMING LANGUAGE TRENDS

Top 5 Programming language this year



Top 5 Programming language next year

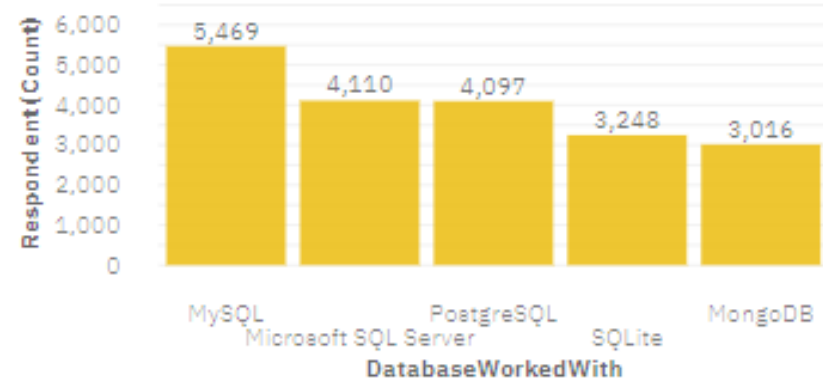


Findings and Implications

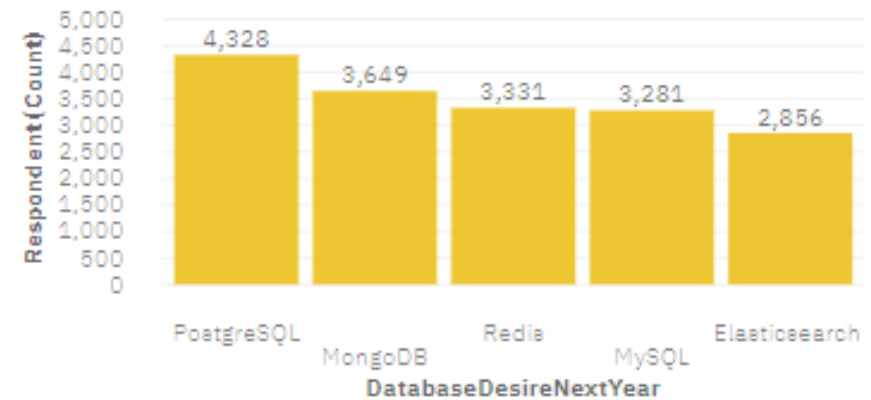
- Findings
 - JavaScript and html/CSS are top two languages .
 - Python popularity is increasing
 - SQL remains in top 5
 - TypeScript rises top 5 from 8th position.
- Implications
 - Web development is still popular and its demand for web developer will rise.
 - Python is emerging fast as a general purpose language .
 - TypeScript is gaining popularity

Data Base Trends

Current Year



Next Year



Finding and implication

- Findings
- Current Year
 - 1.MySQL
 - 2.PostgreSQL
 - 3.Microsoft SQL Server
- Next year
 - 1.PostgreSQL
 - 2.MongoDB
 - 3.Redis

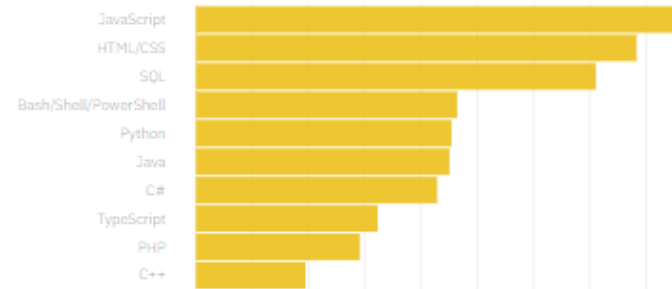
- Implications
- SQL is most desired database
- Database trends are changing rapidly.
- PostgreSQL becomes the most desired database.



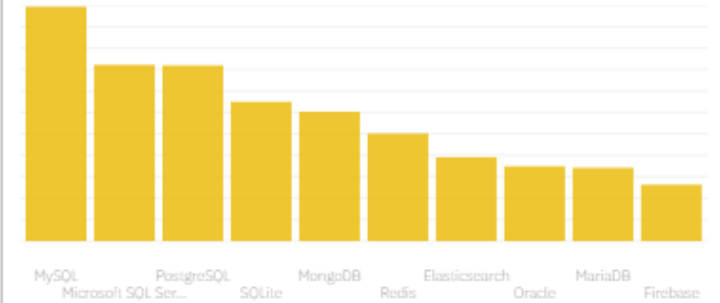
DASHBOARD

CURRENT TECHNOLOGY USAGE

Top 10 Language Worked With



Top 10 Database Worked With



Top Platform Worked With.

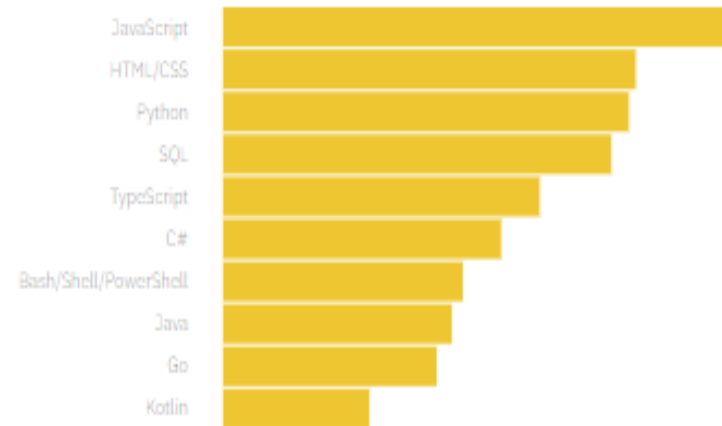


Top 10 Web Frame Worked With

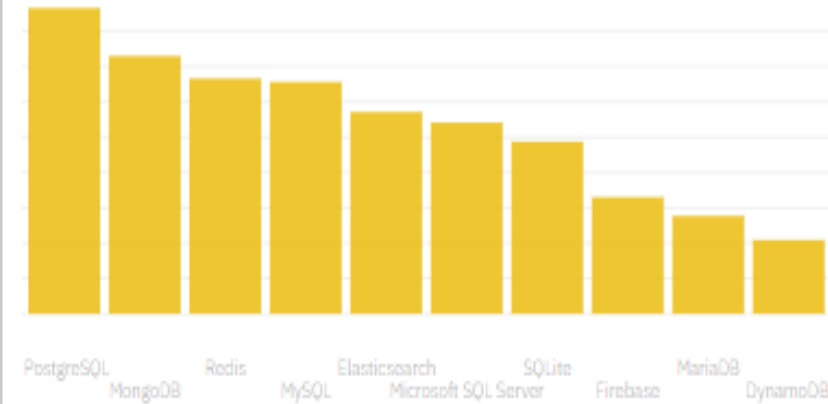


FUTURE TECHNOLOGY TRENDS

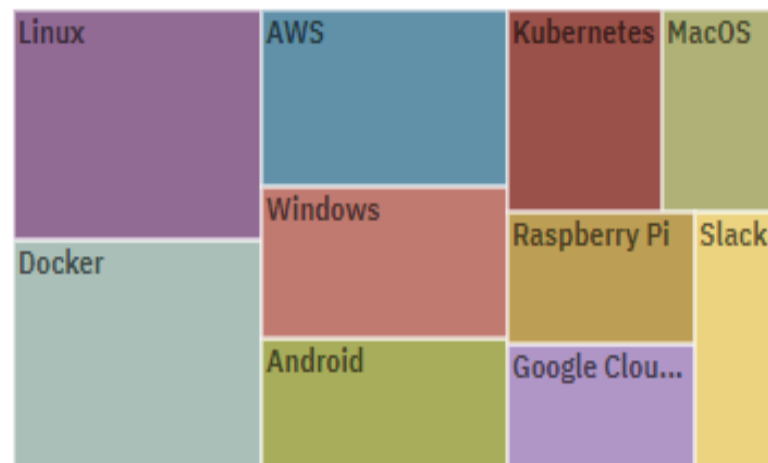
Top 10 Language Desire NextYear



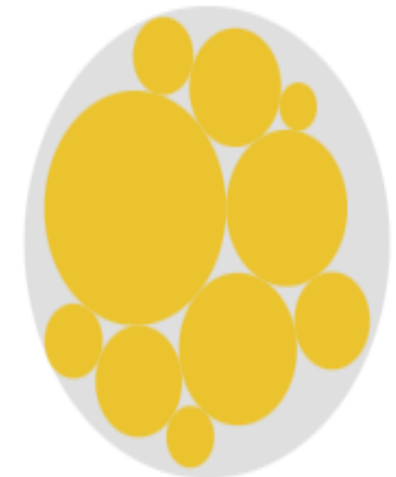
Top 10 Database Desire NextYear



Platform Desire Next Year



Top 10 Web Frame Desire Next Year.



DEMOGRAPHICS

Respondent classified by Gender

Gender

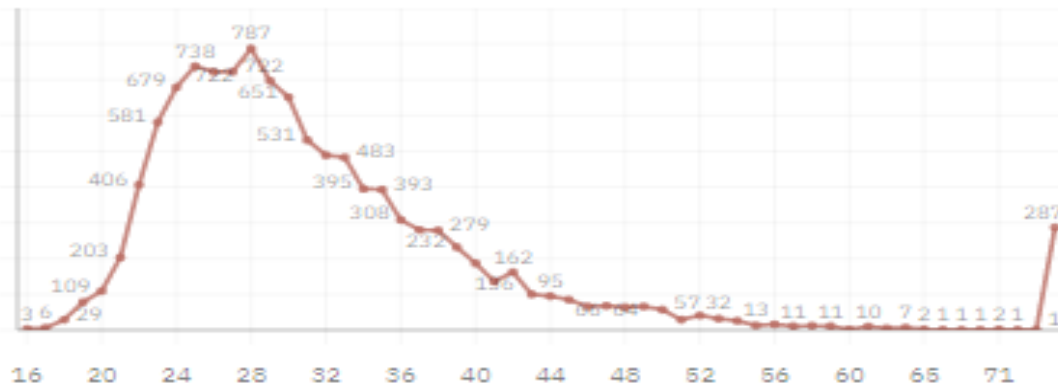
Woman Man



Respondent Count for Countries



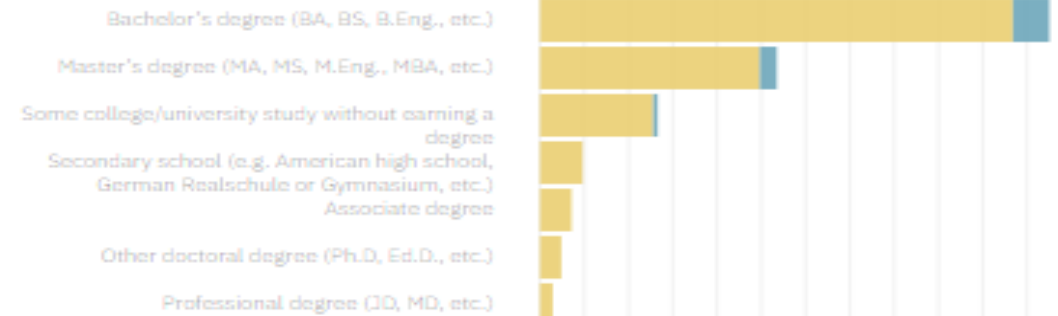
Respondent Count by Age



Respondent Count by Gender by Formal Education Level

Gender

Man Woman



DISCUSSIONS

Python popularity is increasing rapidly ,however in Web development JavaScript is most popular language.

The database field is changing continuously ,SQL remains the most desired data base.

Women in respondents were extremely low (6.3%)

Most of the respondents were from USA or India.

CONCLUSIONS

LINUX is most used platform.

JavaScript remains most popular programming language

Python is the upcoming language with usage in emergings fields such as AI and ML

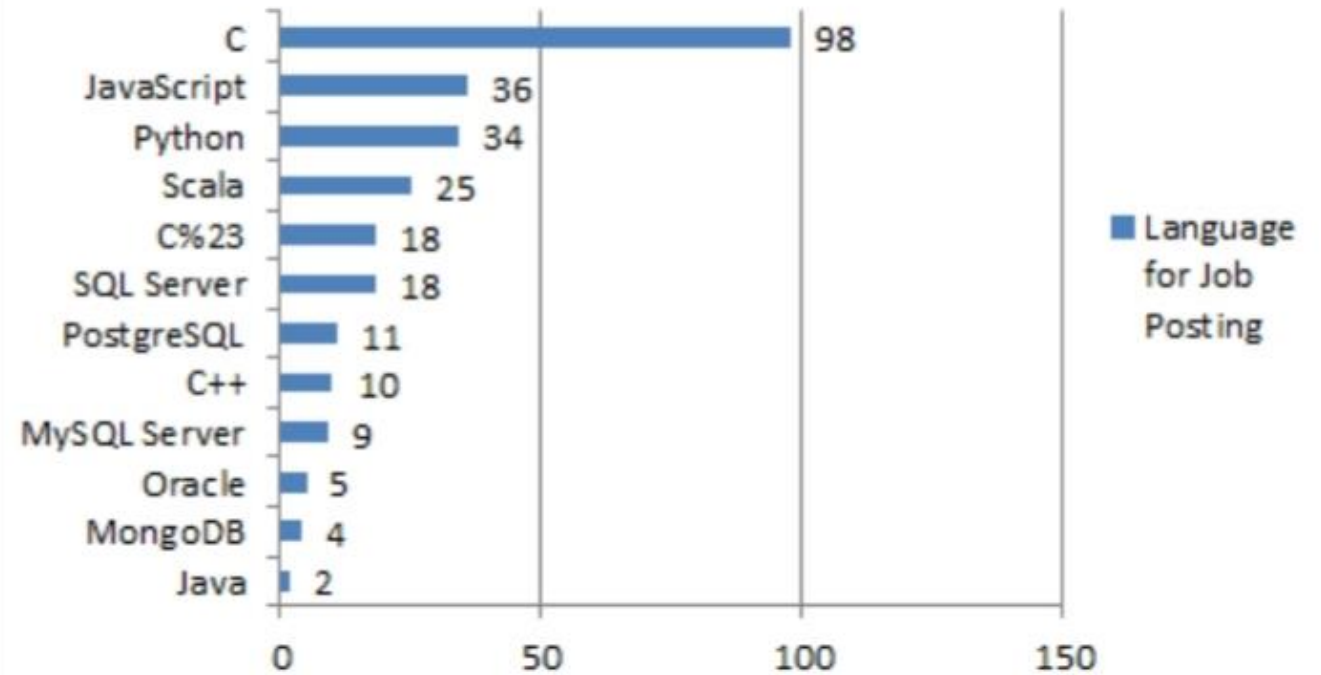
This field require more gender diversity.

Most of the Respondents have a master's or bachelor's degree

APPENDIX

- GITHUB JOB POSTINGS

Language for Job Posting



POPULAR LANGUAGES

- Average Annual Salary





THANK YOU