

2019 Technology Trends Report

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EXECUTIVE SUMMARY



This report presents key findings of broad in scope analysis targeted on the trend in software development. It highlights the top 10 programming languages, web framework and database developers have worked with, best platforms, top 10 languages, web framework and database they desire to work with (Desire Next Year), age and gender distribution and formal education level.

The data was collected from survey conducted on thousands of developers around the world by StackOverFlow.

The insights from this report are valuable for developers and businesses in the tech industry to choose the right tools and make better and informed decision on technology adoption.

INTRODUCTION



The field of software development is dynamic, with new technologies constantly emerging. Staying informed about the most popular programming languages, databases, platforms, and web frameworks is crucial for developers, businesses, and IT professionals to make informed decisions about technology adoption.

METHODOLOGY



This approach was adopted:

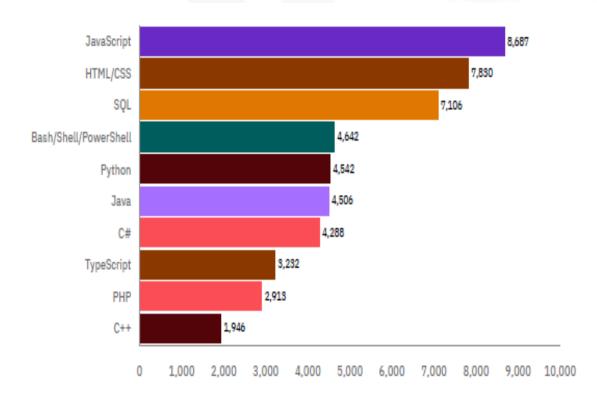
- 1. Data Collection: Data was collected from developer survey from StackOverFlow.
- 2. Analysis: The collected data was analyzed to identify trend, pattern, the prevalence of different technology and gender involvement in tech.
- 3. Ranking: Technologies were ranked based on factors such as popularity, desire and usage.

RESULTS

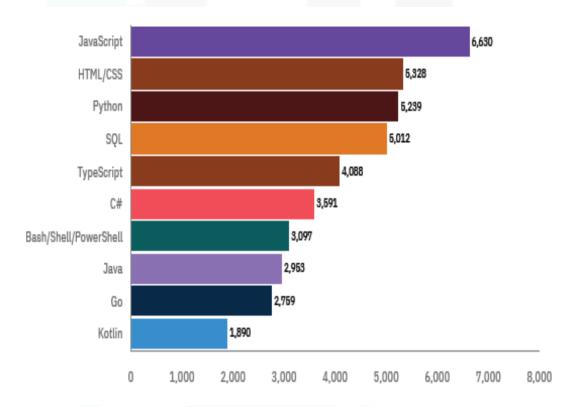


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



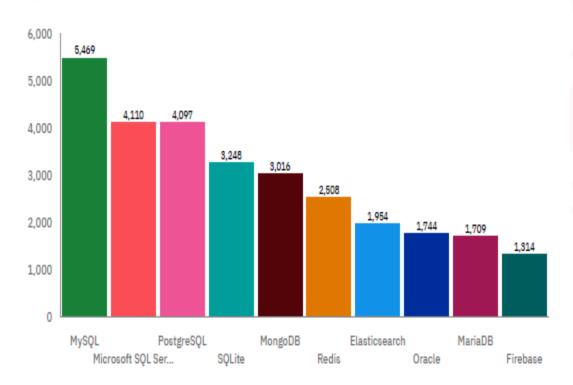
PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

- JavaScript emerges as the top programming language, reflecting its versatility and widespread adoption in various domains such as web development
- Python moved up as one of the most desired languages to work with due to its easy to learn and popular for data science.
- HTML and CSS still retain the second most used and desired due to its functionalities as the fundamental technologies that form the cornerstone of almost every website we see today.

DATABASE TRENDS

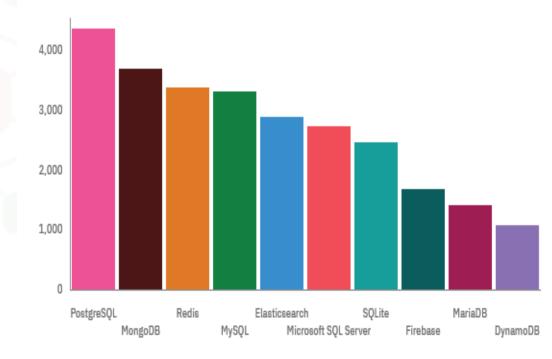
Current Year

Top 10 Database Worked With



Next Year

Top 10 Database Desire Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

SQL database leads the top ranking. SQL It's a powerful and versatile language designed specifically for communicating with and manipulating data stored in relational databases. Think of it as the key that unlocks the information stored within these databases.

MySQL, Microsoft SQL Server and PostgreSQL among the top databases developers like working with.

MongoDB continues to lead the NoSQL database category.

DASHBOARD



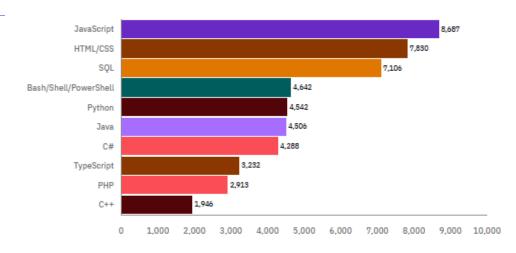
Dashboard Link

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FDashboard&action=view&mode=dashboard&subView=model0000018d9f690eaa_00000002

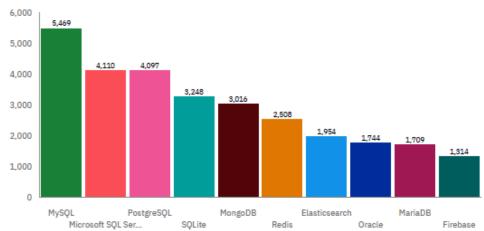
DASHBOARD TAB 1

Current Technology Usage

Top 10 Language Worked With



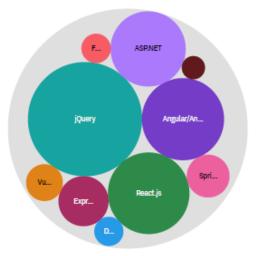
Top 10 Database Worked With



Platform Most Worked With



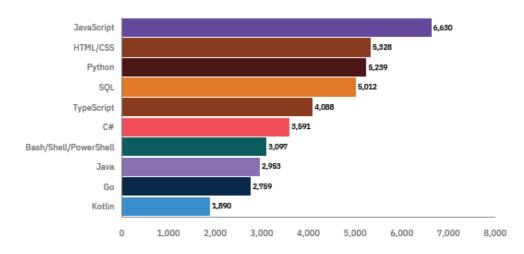
Top 10 WebFrame Worked With



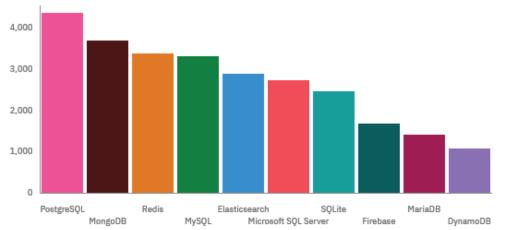
DASHBOARD TAB 2

Future Technology Trend

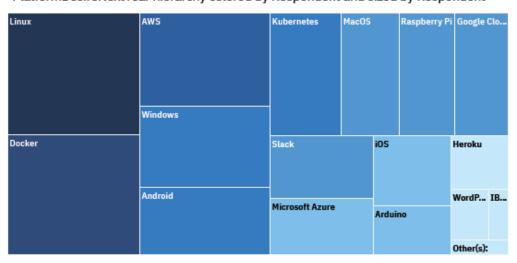
Top 10 Language Desire Next Year



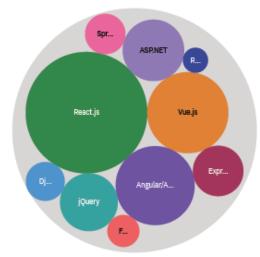
Top 10 Database Desire Next Year



PlatformDesireNextYear hierarchy colored by Respondent and sized by Respondent

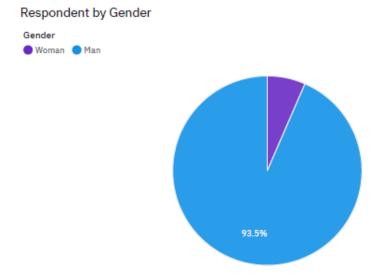


Top 10 WebFrame Desire Next Year

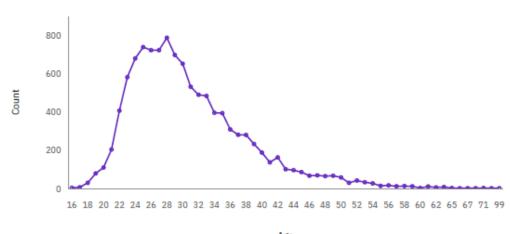


DASHBOARD TAB 3

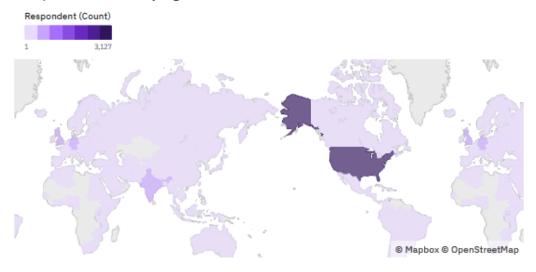
Demographics



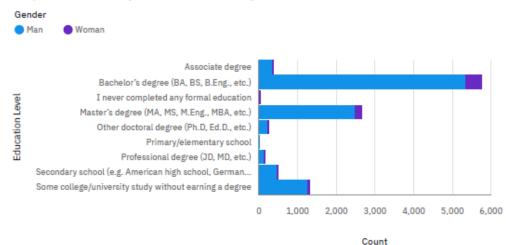
Respondent Count by Age



Respondent for Country regions



Respondent Count by Gender, classified by Formal Education Level







DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript maintains its dominance: Its versatility and growing ecosystem solidify its position as a leading choice for both frontend.
- MySQL and PostgreSQL maintain their dominance as the top relational databases, while MongoDB continues to lead the NoSQL database category.
- React.js, J-Query, Angular, and Vue.js emerge as the top choices for web development frameworks, highlighting the popularity of component-based UI development approaches.

- Implications:
- These findings are significant for developers, businesses, and IT professionals, as they highlight the importance of investing in skills and technologies that are in high demand in the industry.
- These findings have implications for technology adoption strategies, hiring practices, and investment decisions within the tech industry.



CONCLUSION

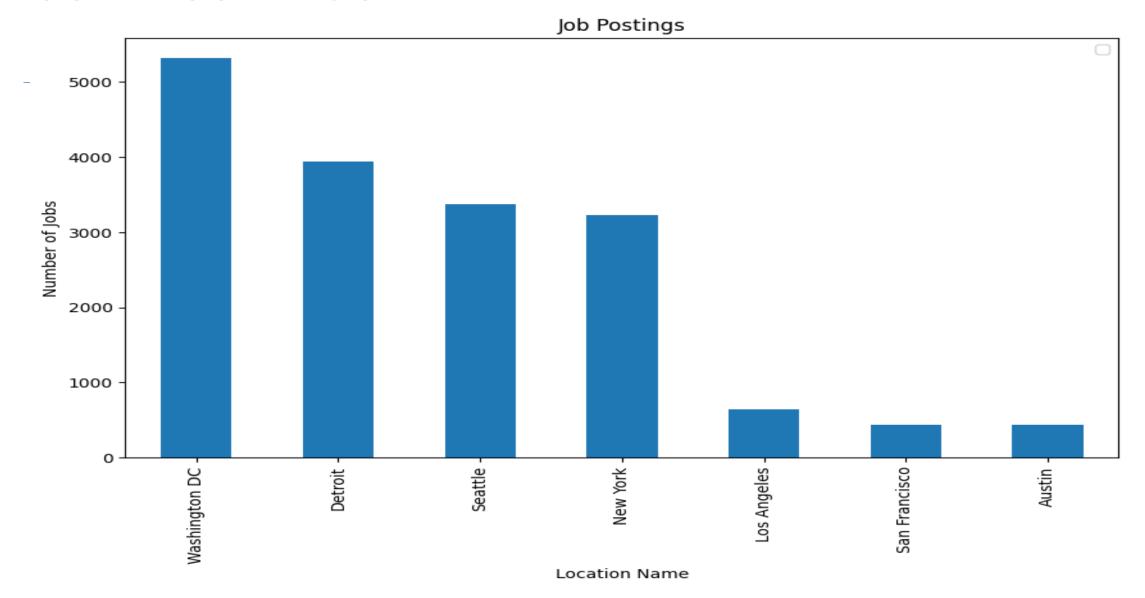


 This report provides valuable insights into the current landscape of programming languages, databases, platforms for programming, and web frameworks. Staying abreast of these trends is essential for making informed decisions about technology adoption and skill development in the ever-evolving field of software development.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

