



Developer Survey Data Analysis

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27/09/2024

OUTLINE



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- Discussion
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EXECUTIVE SUMMARY



- **Top Languages & Databases**

	Current Year	Next Year
Top Language	<ul style="list-style-type: none">• JavaScript	<ul style="list-style-type: none">• JavaScript
Top Database	<ul style="list-style-type: none">• MySQL	<ul style="list-style-type: none">• PostgreSQL

- **Demography**

- The respondents are mostly young men (under 35) and have completed higher education.

INTRODUCTION



- What are the top programming languages in demand?
- What are the top database skills in demand?
- Who are the respondents to the survey?
 - Gender
 - Country
 - Age
 - Education Level

METHODOLOGY



- **Retrieve the data from "LanguageWorkedWith" & "LanguageDesireNextYear" tables:**
 - For these 2 tables, for each language, calculate the number of respondents who designated this language.
 - Retrieve the 10 most popular languages.
- **Retrieve the data from "DatabaseWorkedWith" & "DatabaseDesireNextYear" tables:**
 - For these 2 tables, for each database, calculate the number of respondents who designated this database.
 - Retrieve the 10 most popular databases.
- **Retrieve the data from "master" table corresponding to "Gender", "Age", "Country" and "Education":**
 - Use descriptive statistics

RESULTS

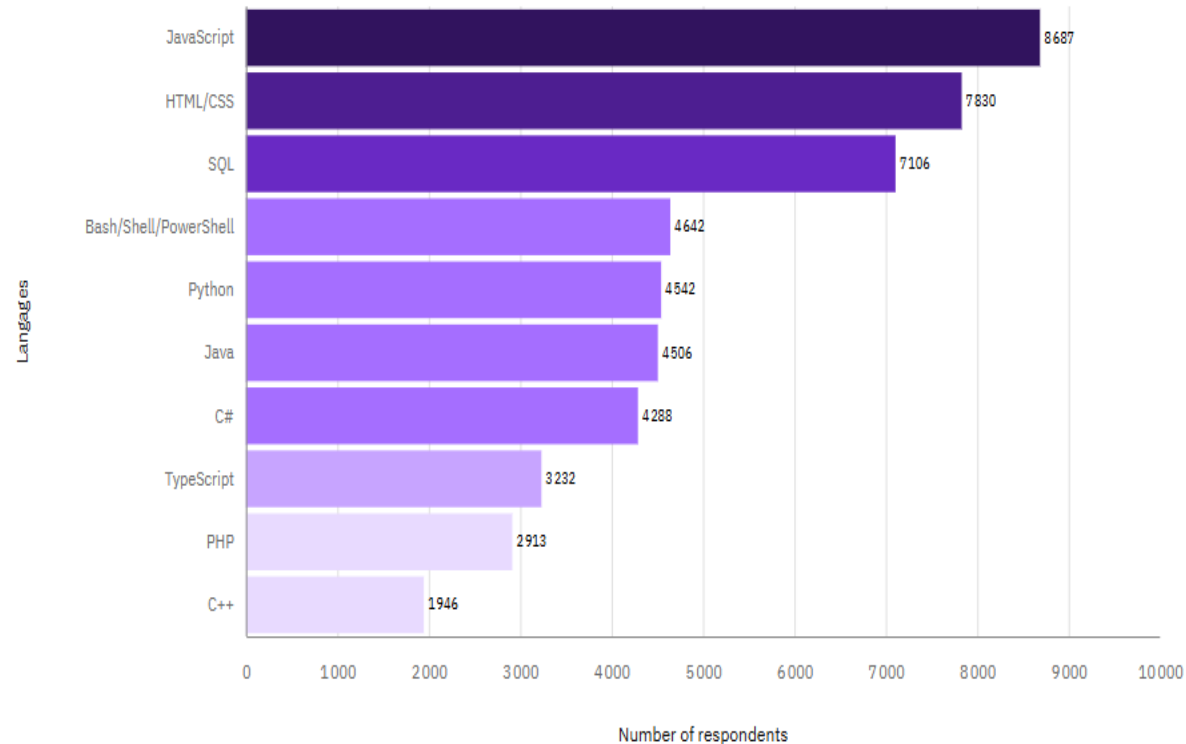
	Current Year	Next Year
Top Languages	<ul style="list-style-type: none">• JavaScript• HTML/CSS• SQL	<ul style="list-style-type: none">• JavaScript• HTML/CSS• Go
Top Databases	<ul style="list-style-type: none">• MySQL• SQL Server• PostgreSQL	<ul style="list-style-type: none">• PostgreSQL• MongoDB• MySQL

Gender	Country	Age	Education
93% Men	27% USA	<ul style="list-style-type: none">• 50% 25-35• 25% > 35	<ul style="list-style-type: none">• 51% Bachelor's degree• 24% Master's degree

PROGRAMMING LANGUAGE TRENDS

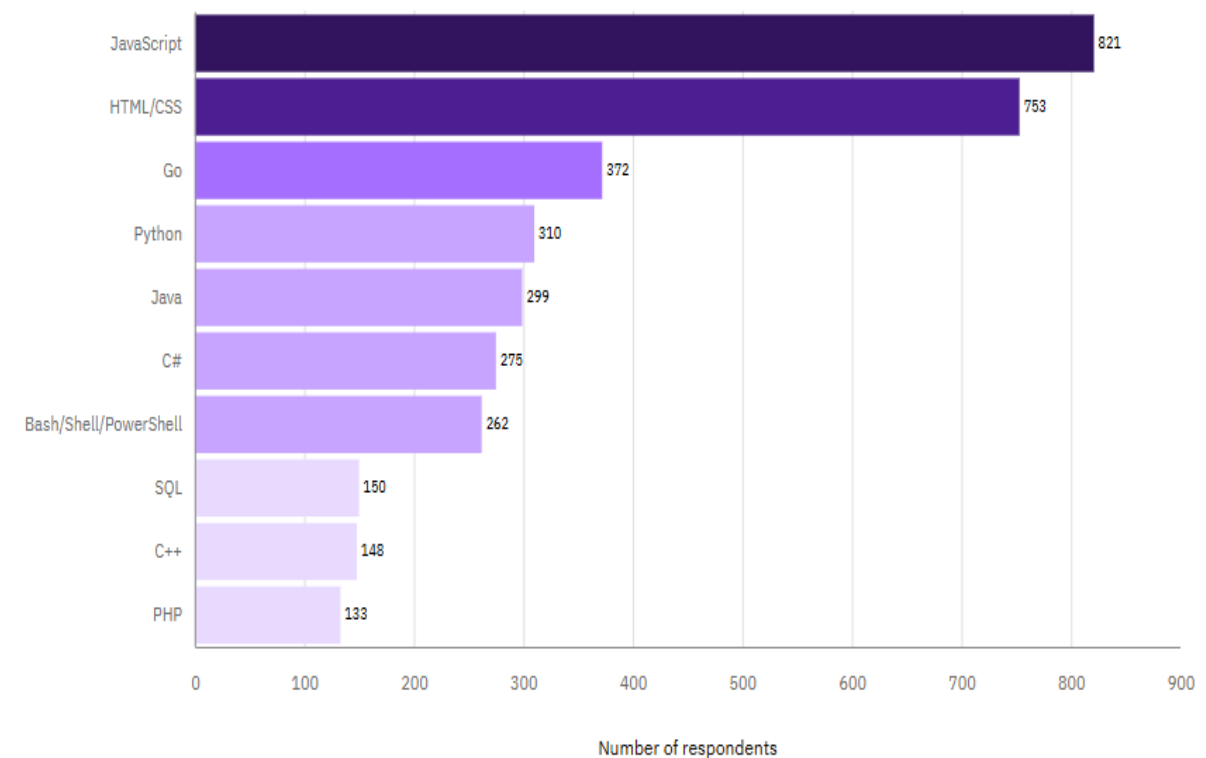
Current Year

Top 10 languages used for work by respondents



Next Year

Top 10 languages that respondents wish to learn next year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript & HTML/CSS are Top 1 in Current Year and Next Year.
- SQL is in the top 3 most used languages but it is not in the top 3 languages to learn.
- Go, appears to be in high demand for learning.

Implications

- It seems essential to learn these two languages to remain competitive in the job market.
- Although widely used, it doesn't appear to be a priority language to learn in the coming year. This may suggest that developers are already comfortable enough with SQL or that other technologies (especially NoSQL) are gaining popularity.
- Probably due to its performance, simplicity, and increasing adoption for backend development and distributed systems.

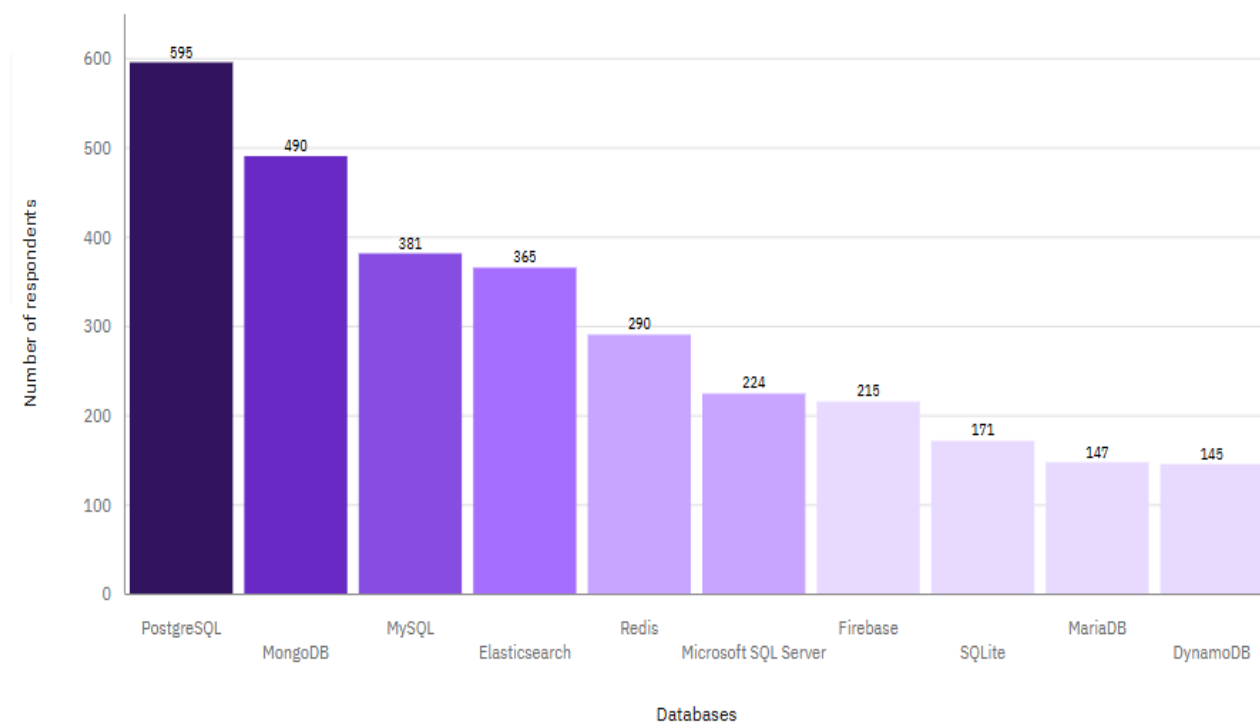
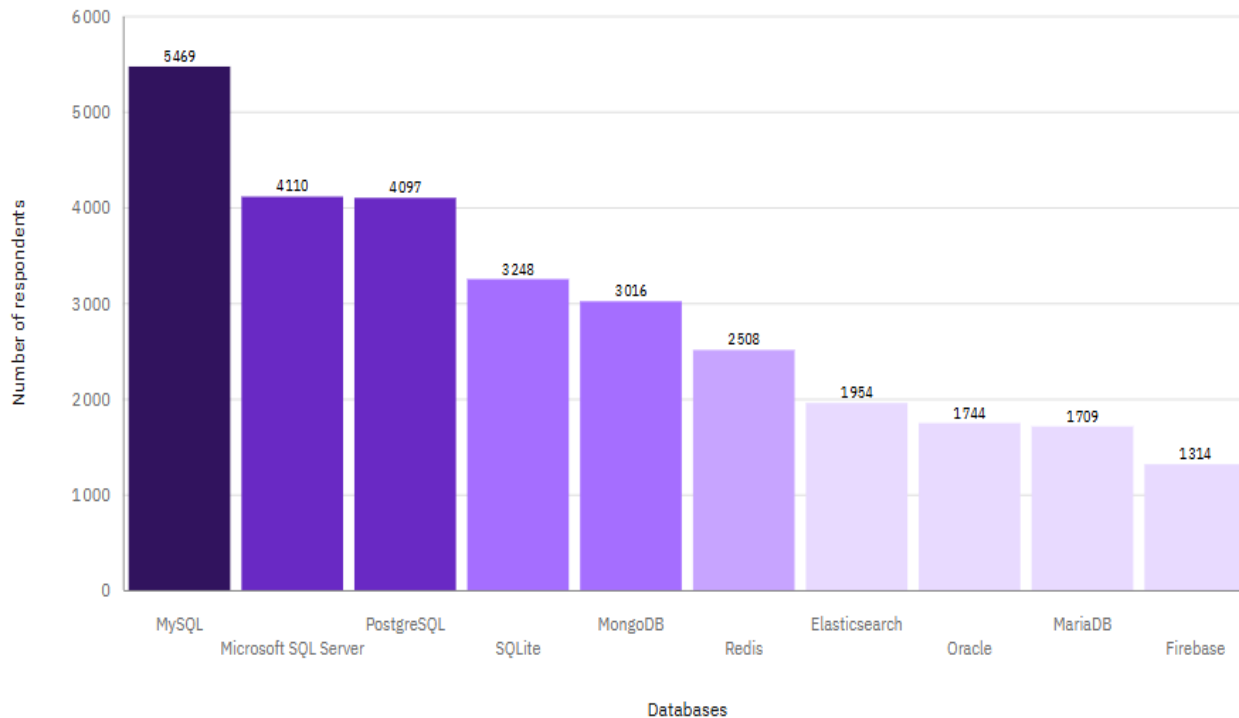
DATABASE TRENDS

Current Year

Next Year

Top 10 Databases used for work by respondents

Top 10 Databases that respondents wish to learn next year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Postgre SQL stands out in particular by being both widely used and in high demand for learning.
- MongoDB is at the top 3 of the technologies that developers would like to master in the coming year.
- MySQL maintains a strong position in both current usage and interest in learning it.

Implications

- This could be explained by its growing popularity due to its flexibility, performance, and compliance with SQL standards.
- This trend highlights a growing interest in flexible and modern database like MongoDB (NoSQL).
- This confirms its robustness and widespread use in industry.

DASHBOARD

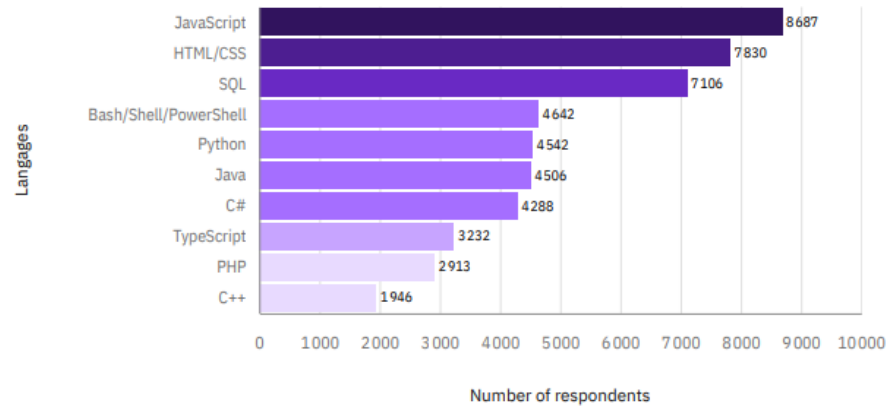


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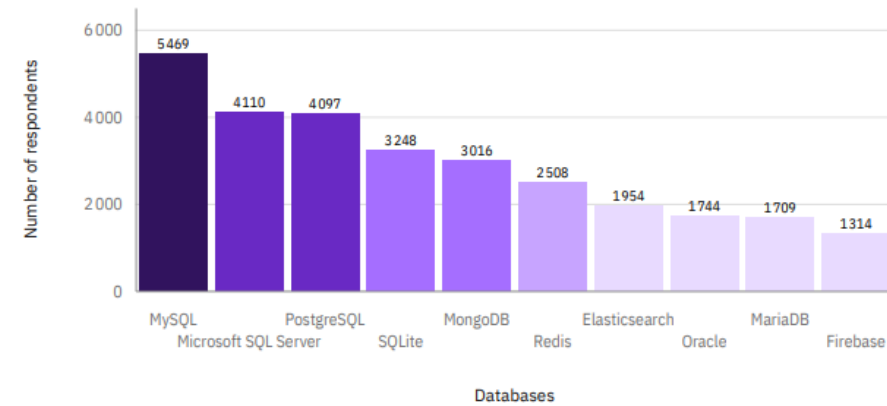
DASHBOARD TAB 1

Current Technology Usage

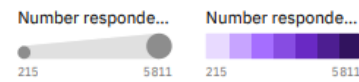
Top 10 languages used for work by respondents



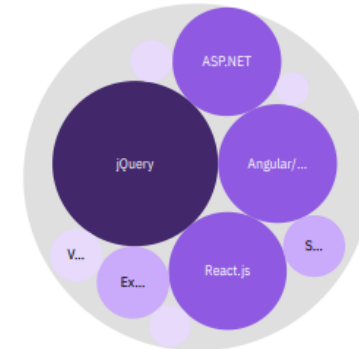
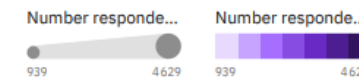
Top 10 Databases used for work by respondents



Platforms used for work by respondents

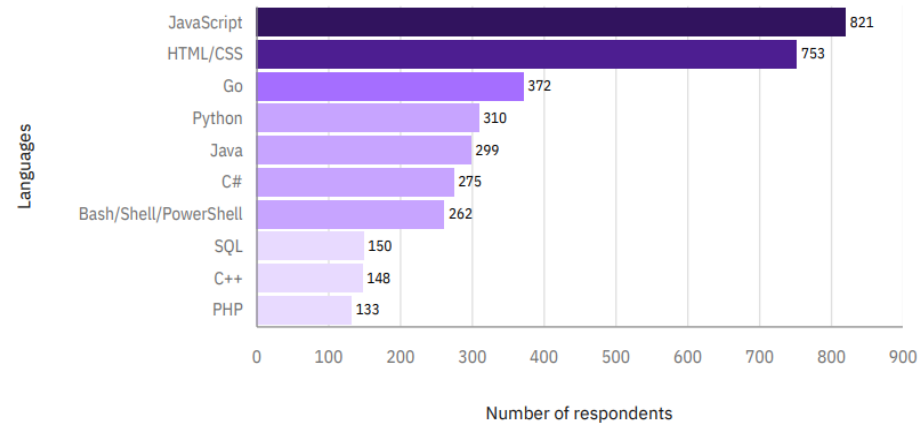


Top 10 Web Frame used for work by respondents

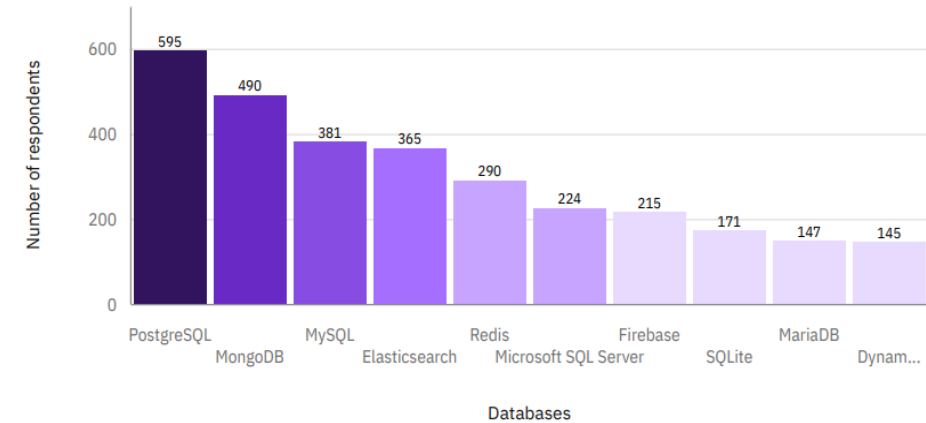


DASHBOARD TAB 2

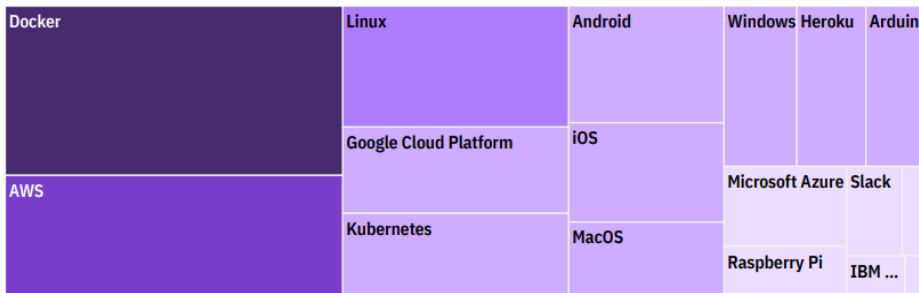
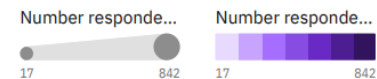
Top 10 languages that respondents wish to learn next year



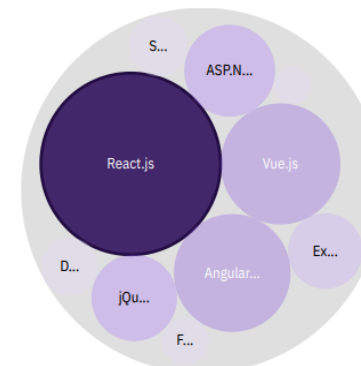
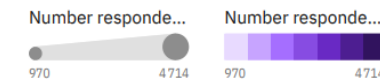
Top 10 Databases that respondents wish to learn next year



Platforms that respondents wish to learn next year



Top 10 Web Frame that respondents wish to learn next year

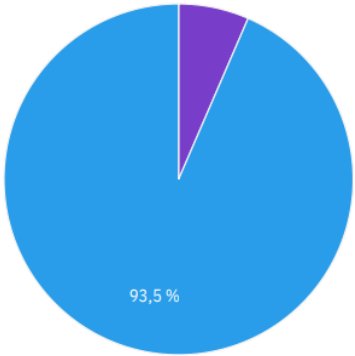


DASHBOARD TAB 3

Demographics

Respondent classified by Gender

Gender
● Woman ● Man

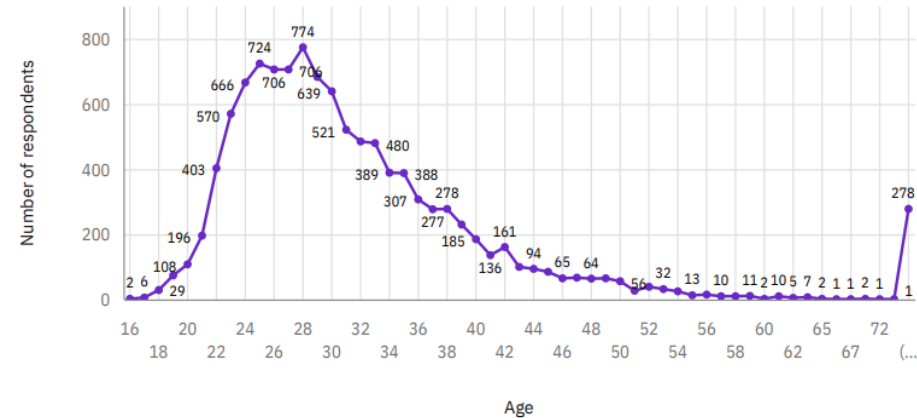


Respondent Count for Countries

Respondent (Nom...
1 3058

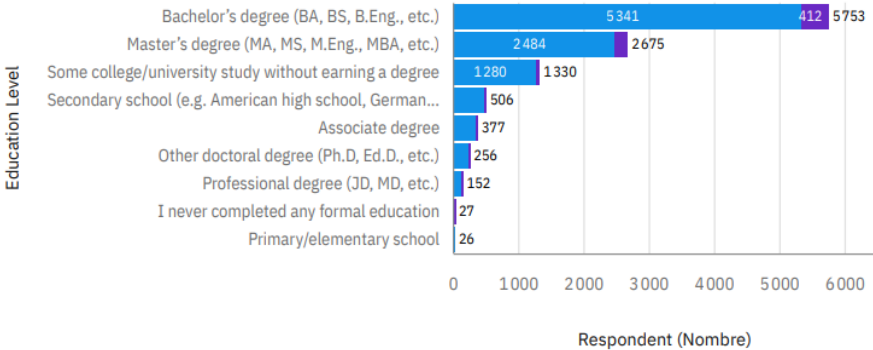


Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level

Gender
● Man ● Woman



DISCUSSION



- What skills do you think will be essential to develop in the coming years to remain competitive?
- Have you ever been in a situation where diversity played a key role in the success of a project?
- What tools or resources would you recommend for learning about new technologies like Go or MongoDB?

OVERALL FINDINGS & IMPLICATIONS

Findings

- SQL is widely used, but interest in MongoDB (NoSQL) is growing.
- JavaScript and HTML/CSS are popular, with a desire for continued learning.
- The majority of respondents are young men with high degrees.

Implications

- Professionals must master both SQL and NoSQL to meet the diverse data management needs of businesses.
- Companies must invest in ongoing training to keep their teams up to date with technological developments.
- This highlights the need for initiatives to improve diversity and attract talent from diverse backgrounds to the tech industry.

CONCLUSION



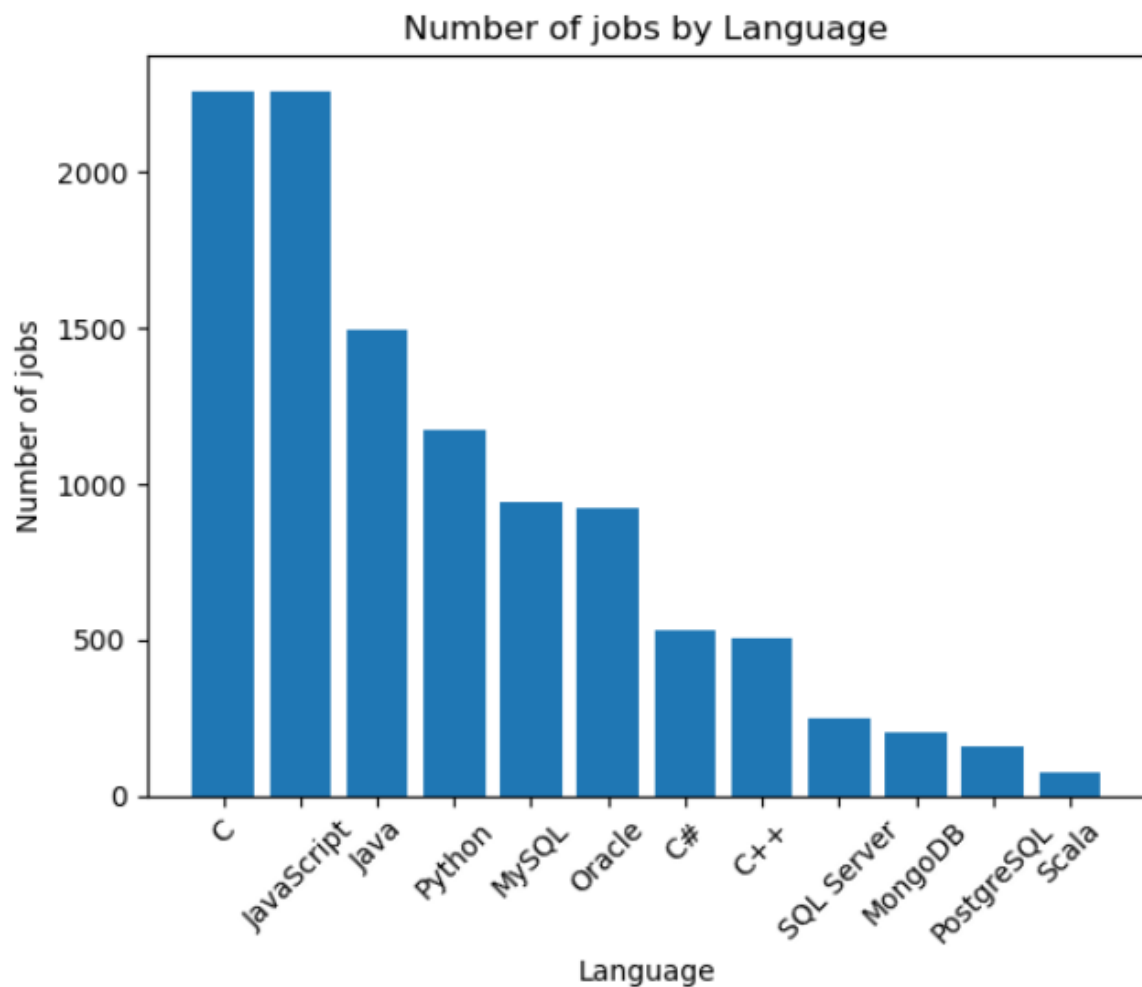
- This study shows that classic web technologies remain crucial, but that there is growing interest in modern languages like Go, which meet the needs of an evolving infrastructure.
- Enterprises continue to rely on traditional relational databases, while developers are showing interest in newer, more flexible technologies, such as MongoDB.
- These data reveal a male-dominated tech industry, with a high proportion of young, highly educated professionals. This highlights both opportunities for improvement in gender diversity and a need for professionals to keep their skills up to date through continuing education and learning new technologies.

APPENDIX



- JOB POSTINGS
- POPULAR LANGUAGES

JOB POSTINGS



POPULAR LANGUAGES

