



Technology Usage Trends

Presentation by Martins Rokis

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OUTLINE



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- Discussion
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EXECUTIVE SUMMARY



Technology Usage Trends

Current Top 10

- Programming Languages
- Databases
- Platforms
- Web Frameworks

Future Top 10

- Programming Languages
- Databases
- Platforms
- Web Frameworks
- **Demographics Survey**
 - Work Experience Gender Gap
 - Technology Gap by Country
 - Respondent Count by Age
 - Education and Gender Gap

INTRODUCTION



- Relevant skills is crucial for IT professionals.
- This report captures current trends in distribution of skills vs desired skills for the future.
- We also compare demographic data among respondents
- Identify important gender, age and education trends and their implication for the industry.
- Net results help us clarify top 10 technologies used by IT professionals in different categories currently and in near future.

METHODOLOGY



- Data Collection
- Data Wrangling
- Exploratory Data Analytics
- Visualization of Data
- Creation of Dashboard
- Presentation of results

RESULTS

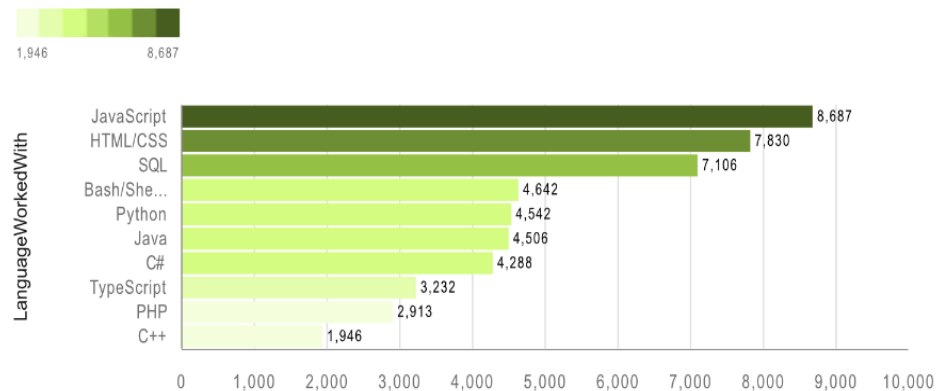
Current Technology Usage Trends



PROGRAMMING LANGUAGE TRENDS

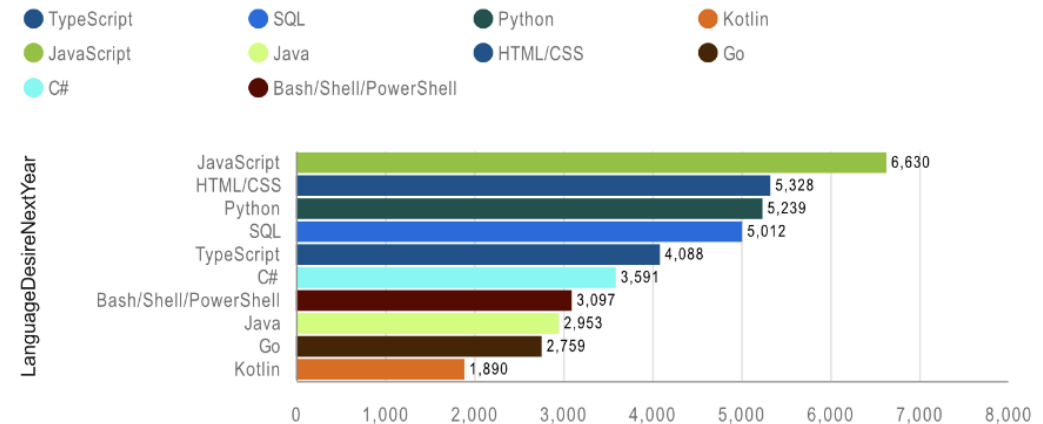
Current Year

Top 10 Languages



Next Year

Top 10 Languages for the Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript /HTML/CSS are top skills now and next year
- Python is gaining popularity
- SQL is in top 4 now & next year
- Bash/Shell/PowerShell trend is down

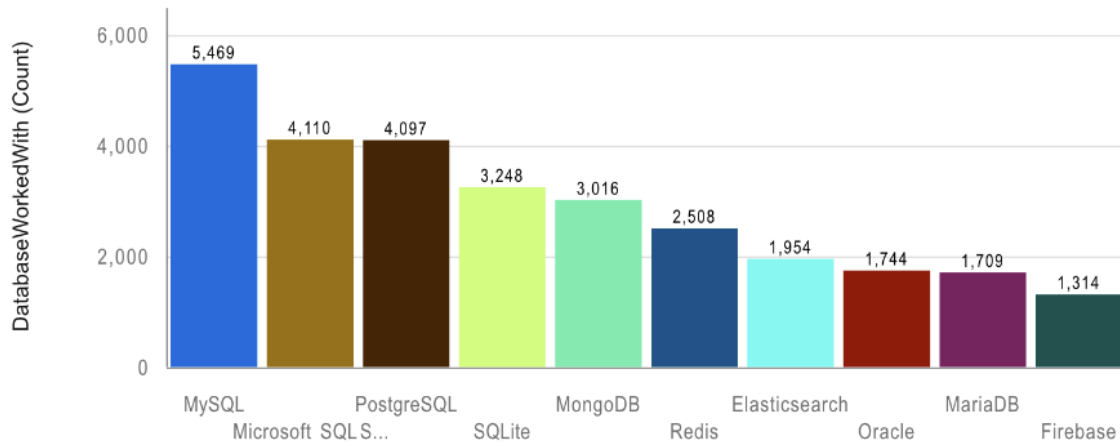
Implications

- Programming for web show high relevance and strong persistent trend
- Python's relevance is growing
- SQL is still highly relevant
- Command line scripting is more niche skill

DATABASE TRENDS

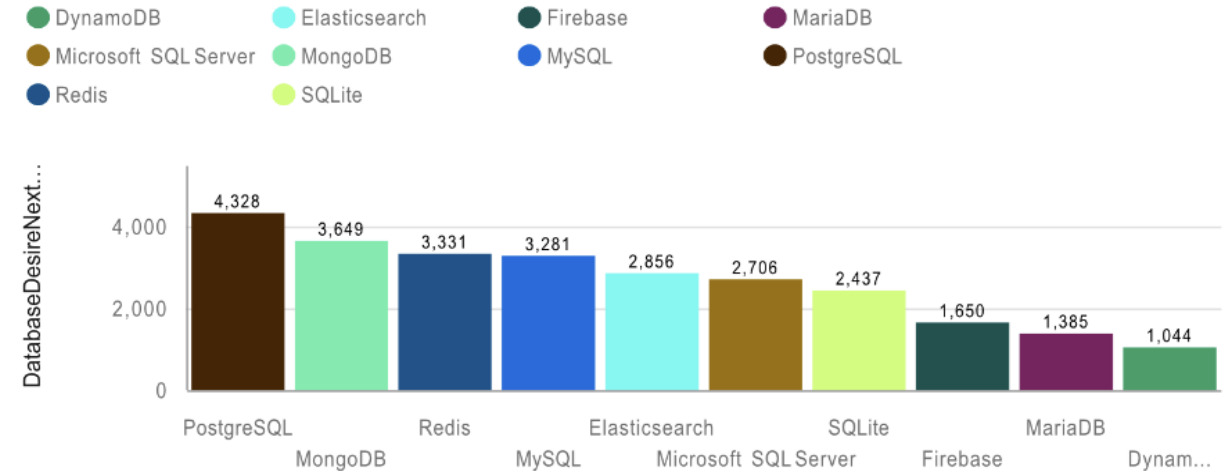
Current Year

Top 10 Databases



Next Year

Top 10 Databases for the Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is at the top
- PostgreSQL is gaining popularity
- Microsoft SQL server is down trending

Implications

- MySQL overall is still relevant
- Opensource databases are gaining popularity
- Proprietary database management systems have strong competition

DASHBOARD

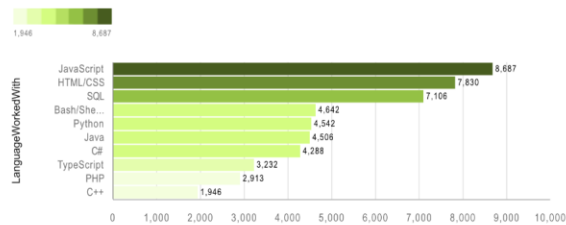


[GitHub link of the dashboard](#)

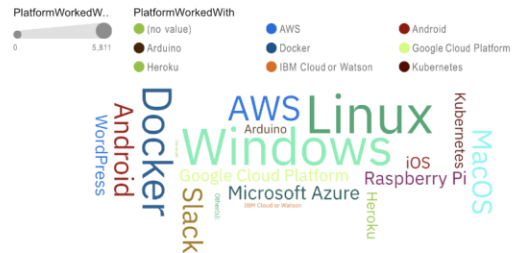
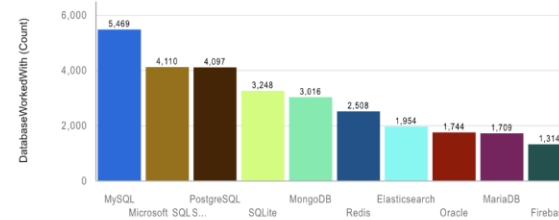
DASHBOARD TAB 1

Current Technology Usage

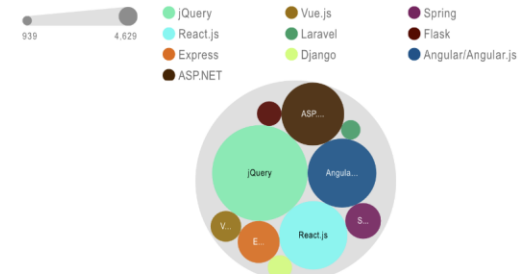
Top 10 Languages



Top 10 Databases



Top 10 Platforms

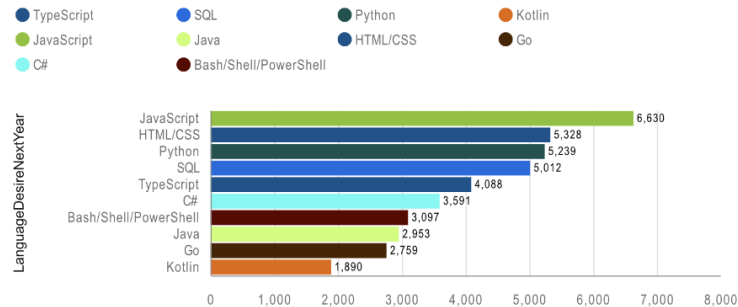


Top 10 Web Frameworks

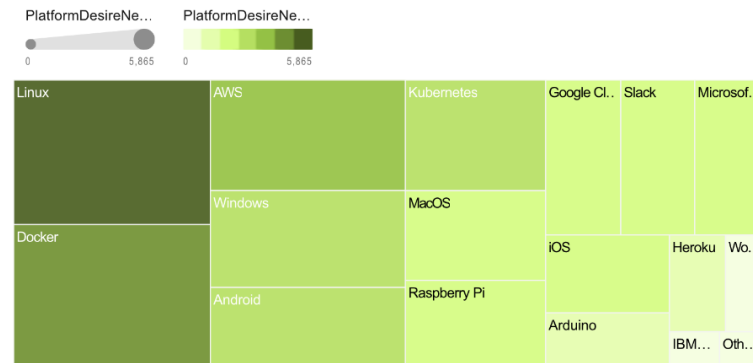
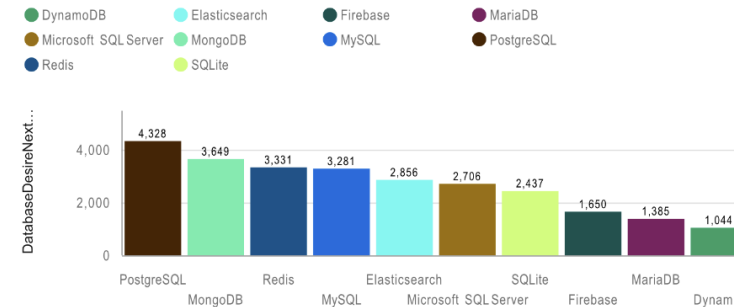
DASHBOARD TAB 2

Future Technology Trends

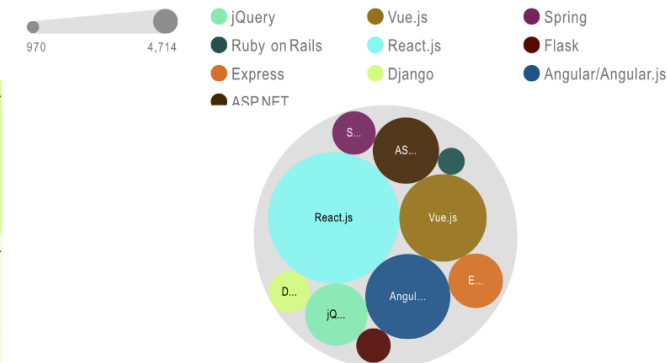
Top 10 Languages for the Next Year



Top 10 Databases for the Next Year



Top 10 Platforms for the Next Year

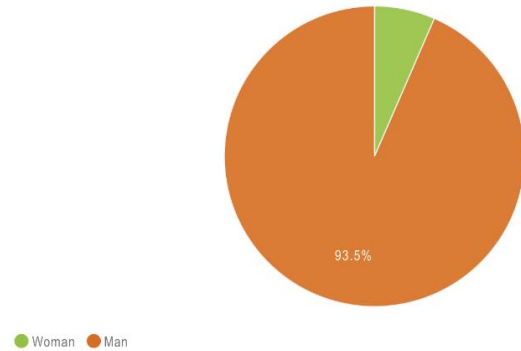


Top 10 Web Frameworks for the Next Year

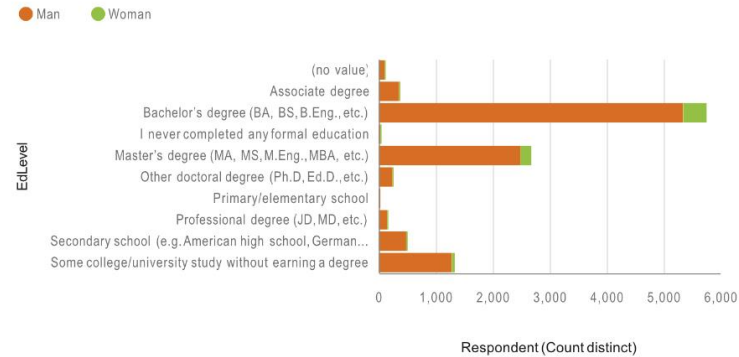
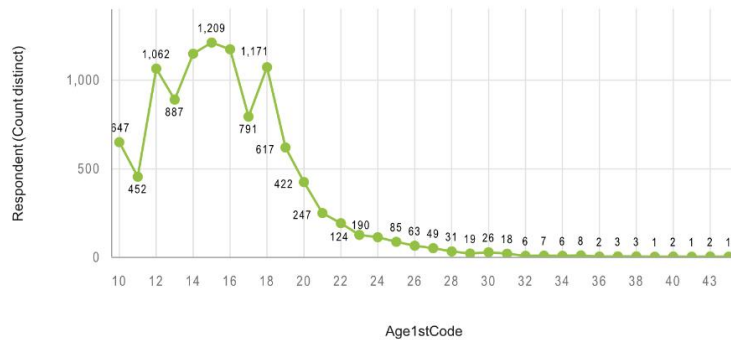
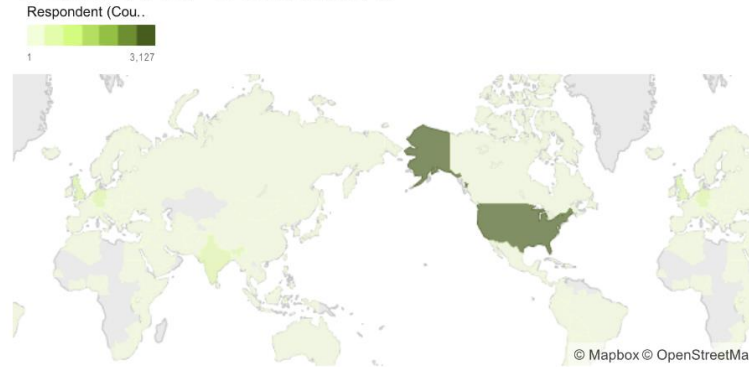
DASHBOARD TAB 3

Demographics

Work Experience



Count for Countries



Count by Age

Count by Gender & Education

DISCUSSION



- Trends in technology now
- Developing trends for the future
- Relevant skills & technologies
- Popularity of web environment
- Open source technologies vs proprietary systems
- Gender equality in tech sector

OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript /HTML/CSS are top skills now and next year
- Python and SQL is very relevant
- MySQL is at the top but PostgreSQL is gaining popularity

Implications

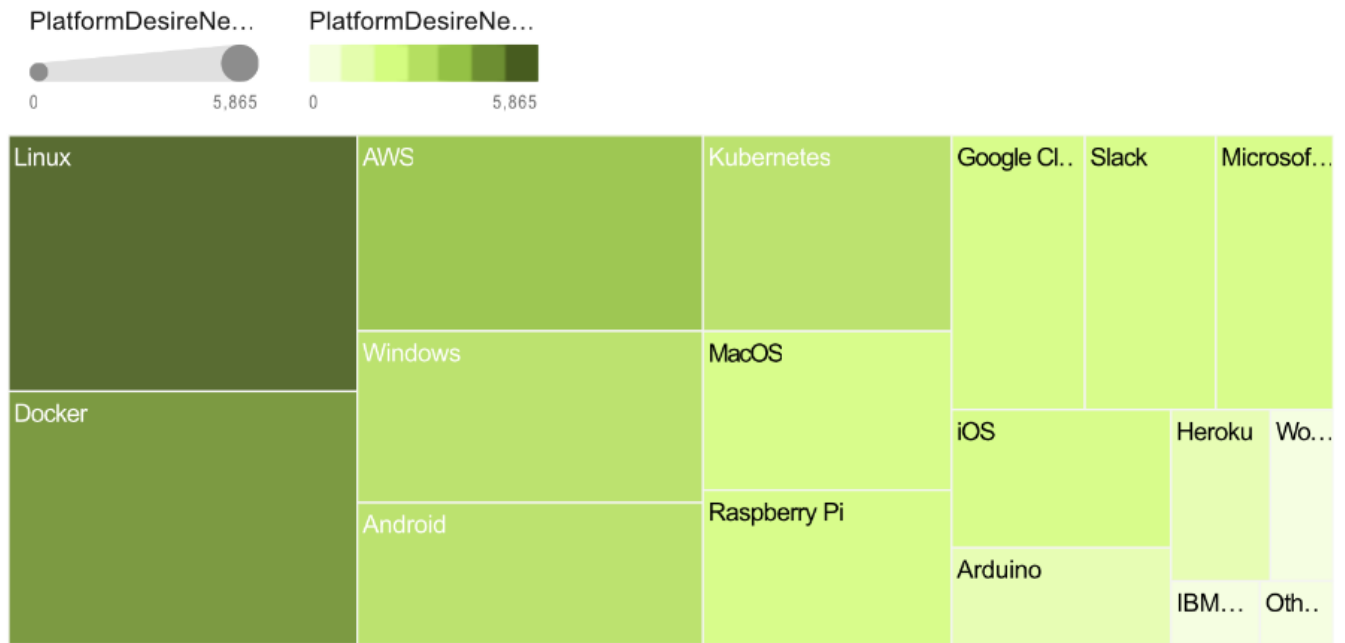
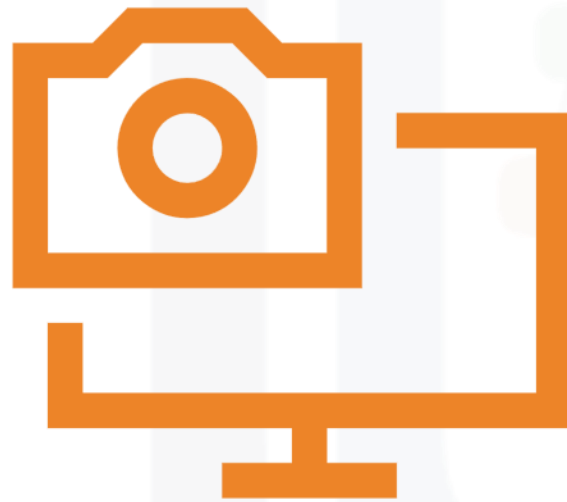
- Programming for web is very popular
- Python and SQL skills is and will be in demand
- Proprietary database management systems have strong competition from Open Source

CONCLUSION



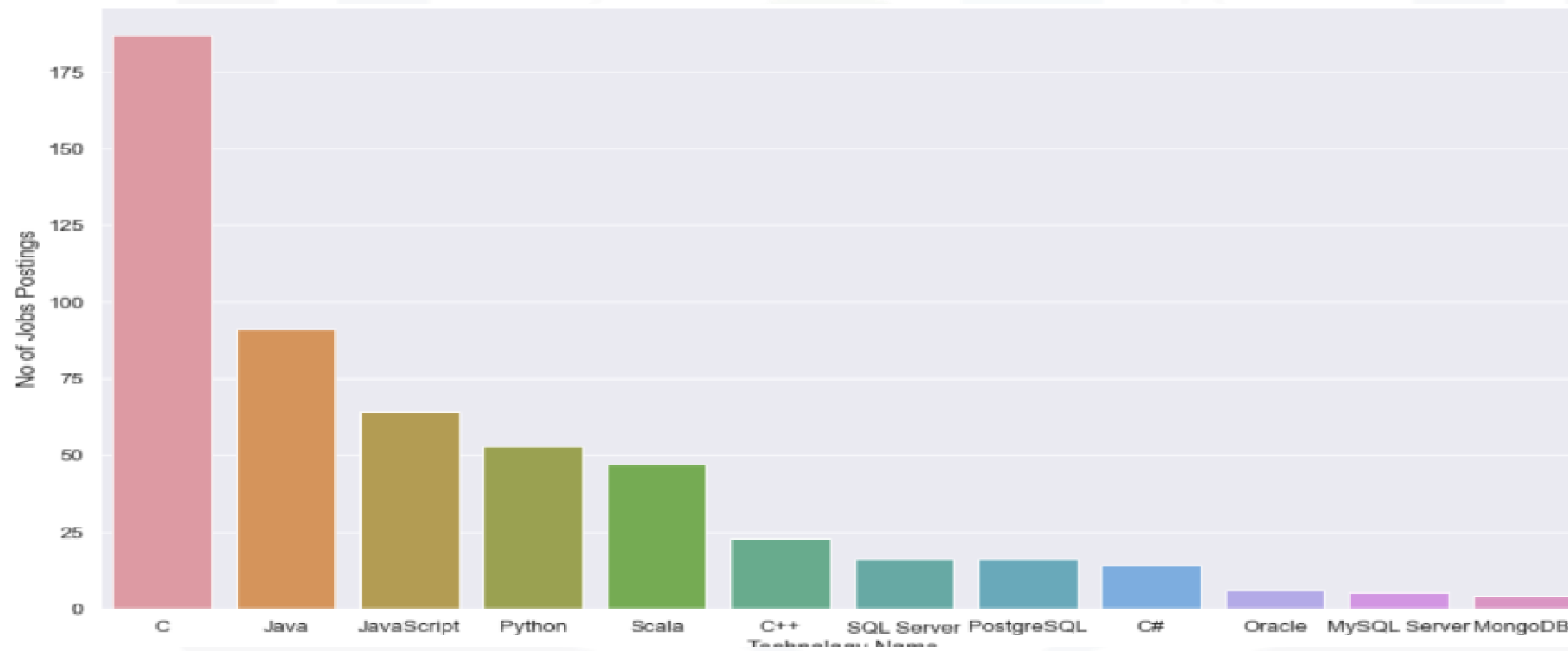
- Programming for web is still a relevant skill
- Python is high in demand programming language
- There is a trend in open source software
- Command line scripting is more niche skill
- Tech industry is overwhelmingly dominated by men

APPENDIX



Top 10 Platforms for the Next Year

JOB POSTINGS



POPULAR LANGUAGES

