



Analysis of technology trends

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OUTLINE



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

EXECUTIVE SUMMARY



- Context and importance of the study
- Explanation of the methodology
 - Data collection and wrangling
 - Data exploration and analysis
 - Data analysis and findings
- Results presentation
- Big Reveal
- Recommendations and conclusion

INTRODUCTION



- Presentation of all stakeholders
- Brief presentation of the current state of the development world
- Importance of anticipating future trends in the world of software development
- Brief presentation of key fundamental stones in software development
 - Programming Languages
 - SGBD
 - Frameworks
 - Demographics of human resources

METHODOLOGY



- Data collection
- Data processing
- Data analysis
- Data sharing
 - Reports
 - Data visualization
 - Presentation
- Recommended actions

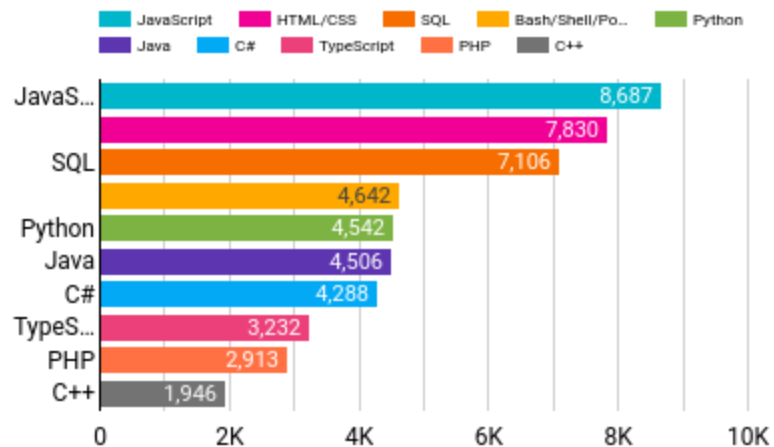
RESULTS



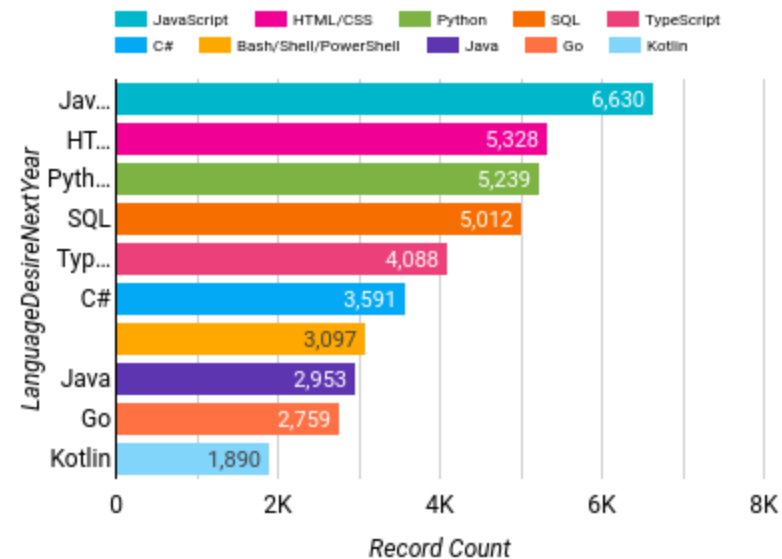
PROGRAMMING LANGUAGE TRENDS

Current Year

Top 10 Programming Language In Used Now



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

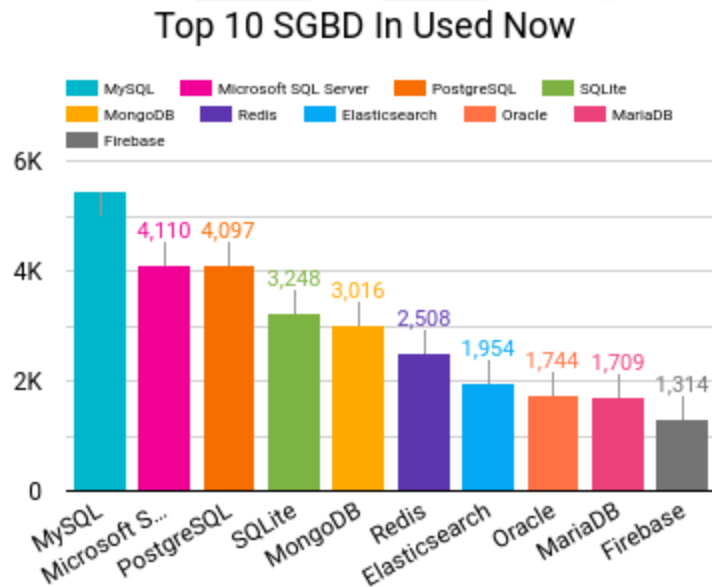
- Javascript and HTML/CSS sit at the top currently and for next year projection
- SQL is the only data management in the top 10 currently and for the next year projection
- Python is in the rise

Implications

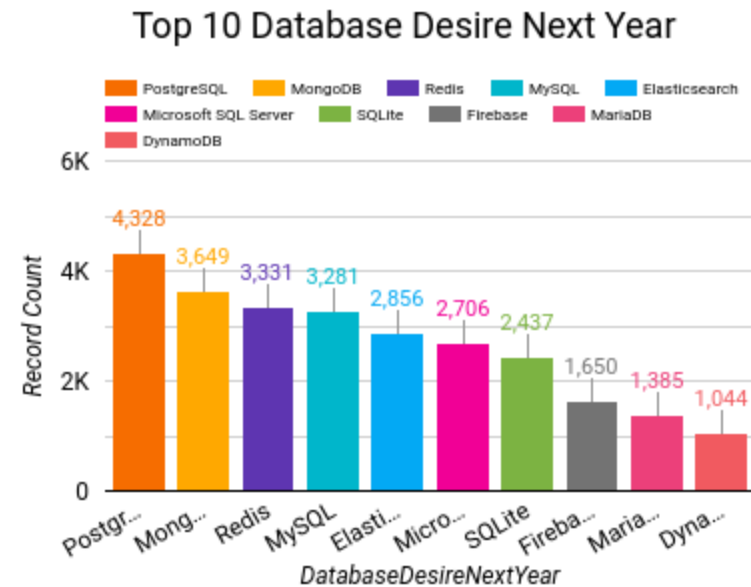
- Web development still draws the lion share of the landscape
- SQL is as reliable and popular as ever. Data management goes through SQL
- Python and its versatility is critical even more regarding AI and Machine Learning increased importance

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL and PostgreSQL dominate respectively the current year and the year to come
- MongoDB popularity is skyrocketing
- Redis and Elasticsearch

Implications

- OpenSource SGBD is a valuable asset in the programming world
- NoSQL databases are having an important impact
- Emphasis on rapid data retrieval and complex query processing and analytics tasks are increasingly in demand

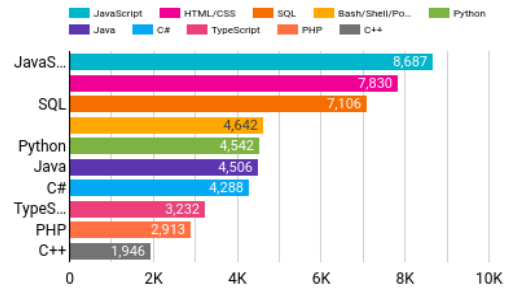
DASHBOARD



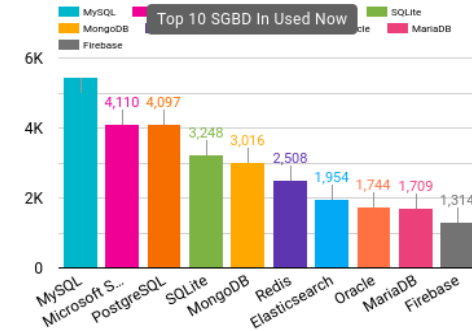
<https://lookerstudio.google.com/s/s8MrmVhoYRs>

DASHBOARD TAB 1

Top 10 Programming Language In Used Now



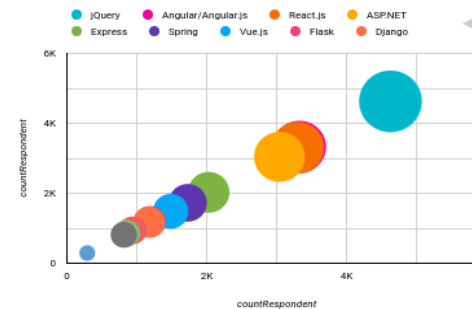
Top 10 SGBD In Used Now



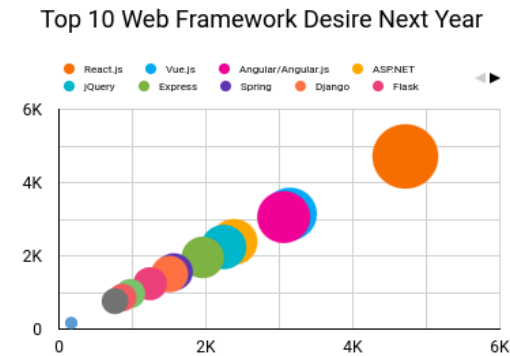
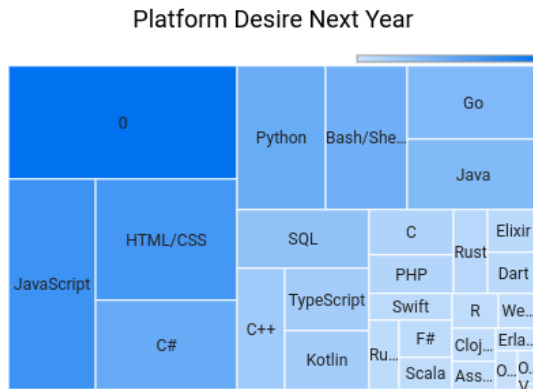
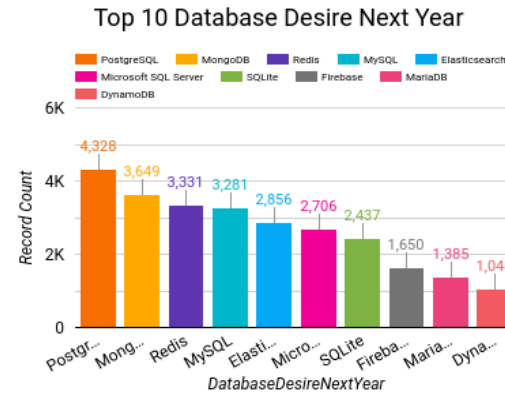
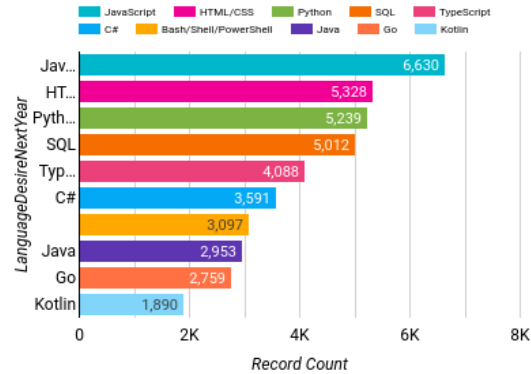
Top 10 Platform In Used Now



Top 10 Web Framework In Used Now



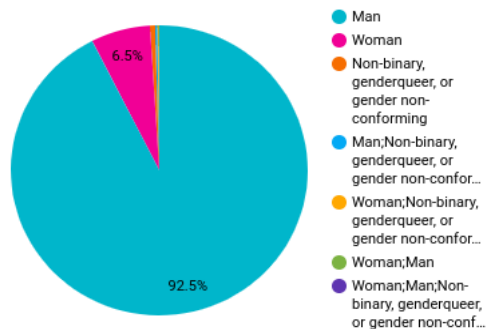
DASHBOARD TAB 2



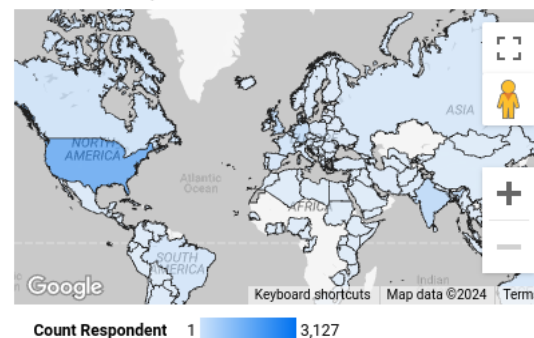
DASHBOARD TAB 3

S

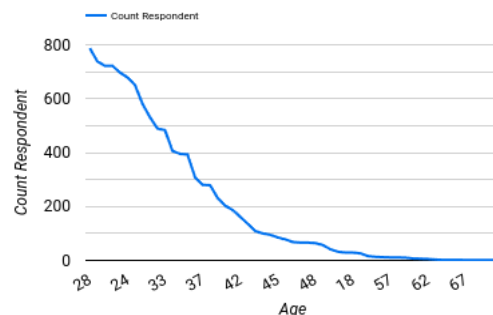
Respondent classified by Gender



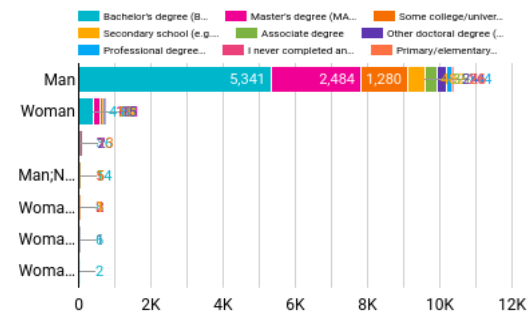
Respondent Count for Countries



Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



- Technology trends now and tomorrow
- Gender inclusion in the programming world
- Open Source impact in the programming world
- How to keep veteran programmer in the loop?
- How to decrease the gap of skills programmer between countries?

OVERALL FINDINGS & IMPLICATIONS

Findings

- Web development is here to stay
- Programming world is in constant evolution
- The population of woman in programming world is not representing of the overall population

Implications

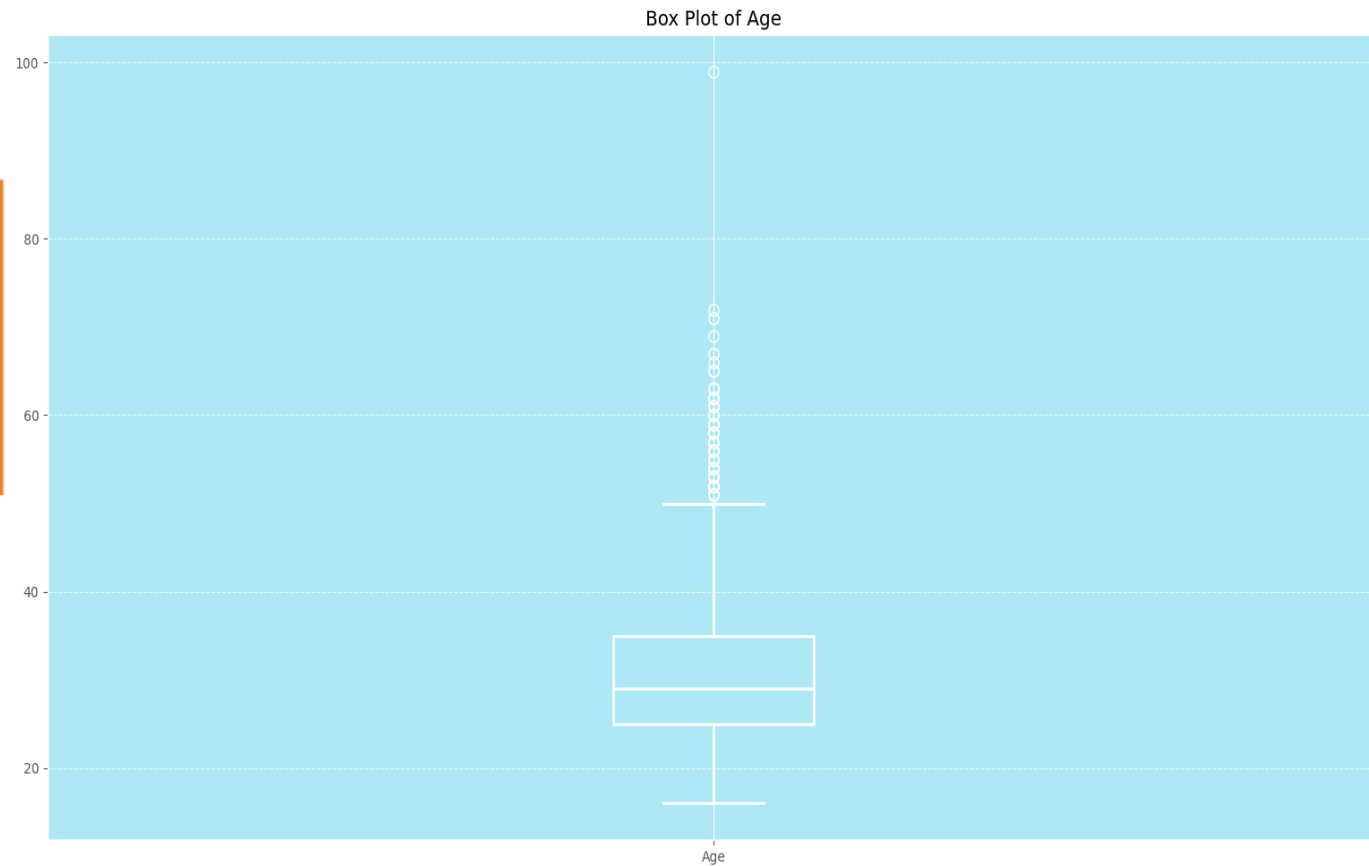
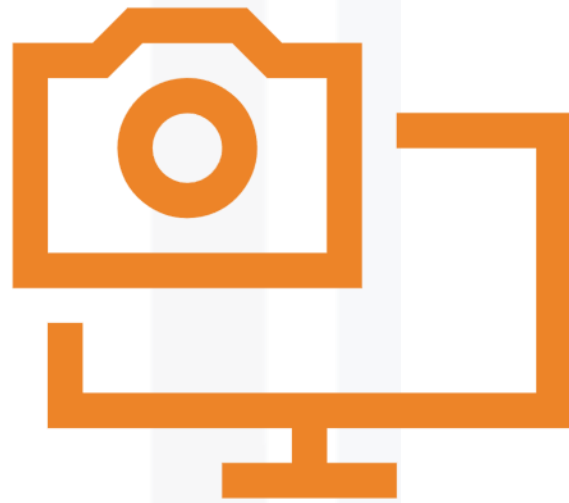
- There are more opportunities for skills web developer
- Companies and developers need to adjust constantly and fast
- Negative impacts on integration, diversity and equity

CONCLUSION

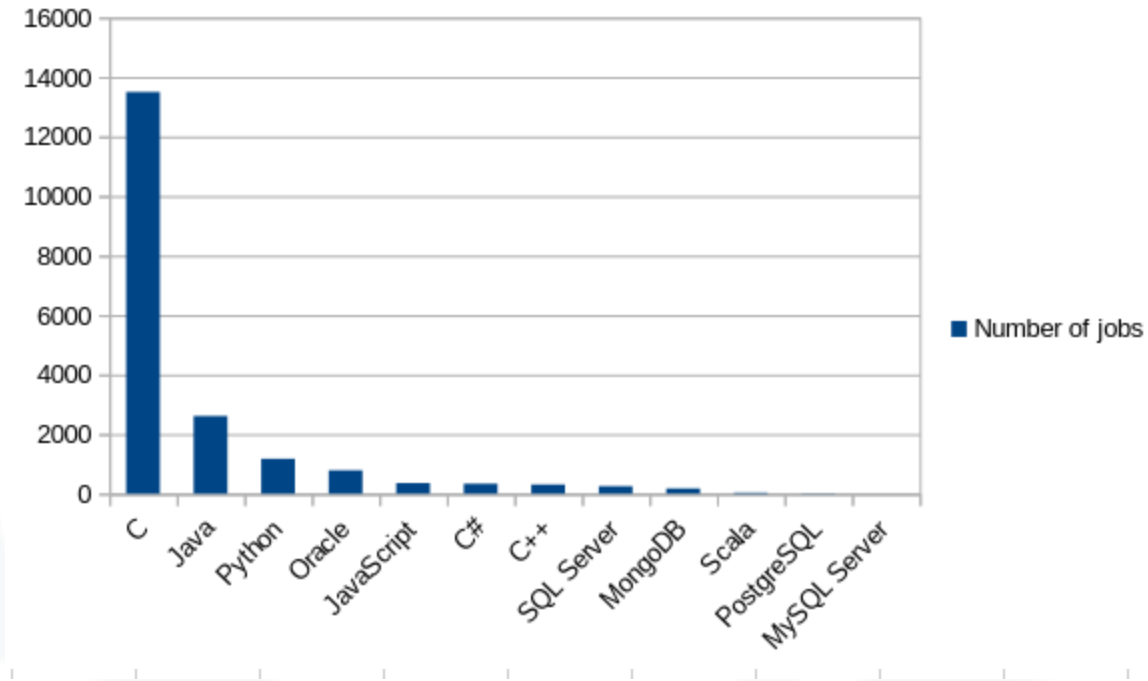


- Key technologies to appropriate
- The growth is exponential and adaption is imperative to stay relevant
- Improvements needs to be done to reduce the gap between gender and correct the age disparity
- Skills developers is extremely valuable

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

