



Jobs and Trends of Programming Languages and Database

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2022.02.20

OUTLINE



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

EXECUTIVE SUMMARY



- Trends of Programming Languages
- Trends of Databases
- Age of the data related positions
 - Most of them are young
- Gender of the data related positions
 - Most of them are men

INTRODUCTION



- Compare between Programming Languages in current and next year
- Compare between Database in current and next year
- Analysis in Age
- Analysis in Gender

METHODOLOGY



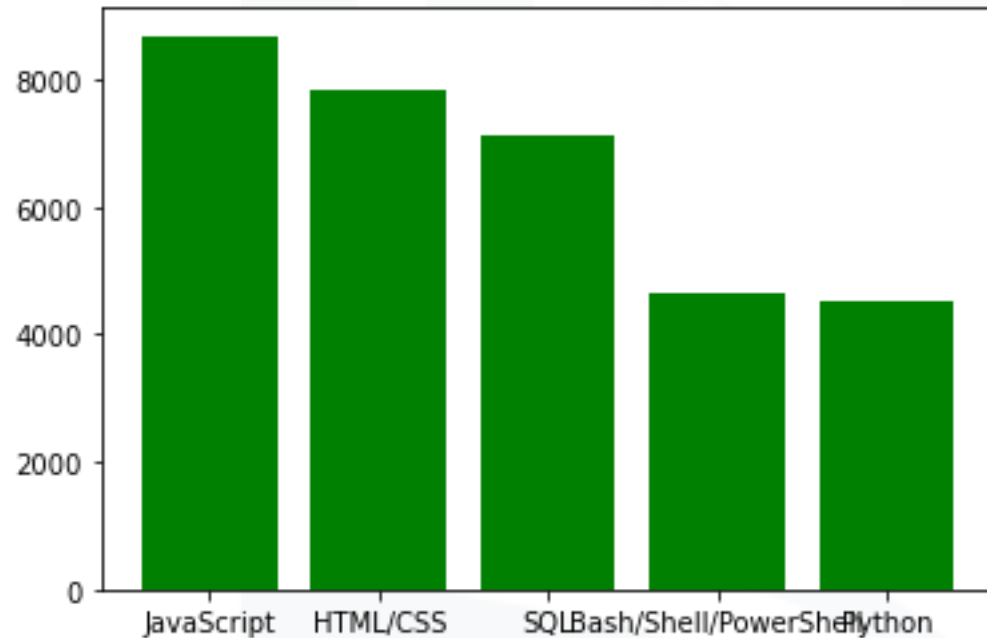
- Perform Data Collection and Data Exploring
- Perform Data Wrangling
- Perform Data Analysis
 - Distribution
 - Outliers
 - Correlation
- Perform Data Visualization
- Build a Dashboard

RESULTS

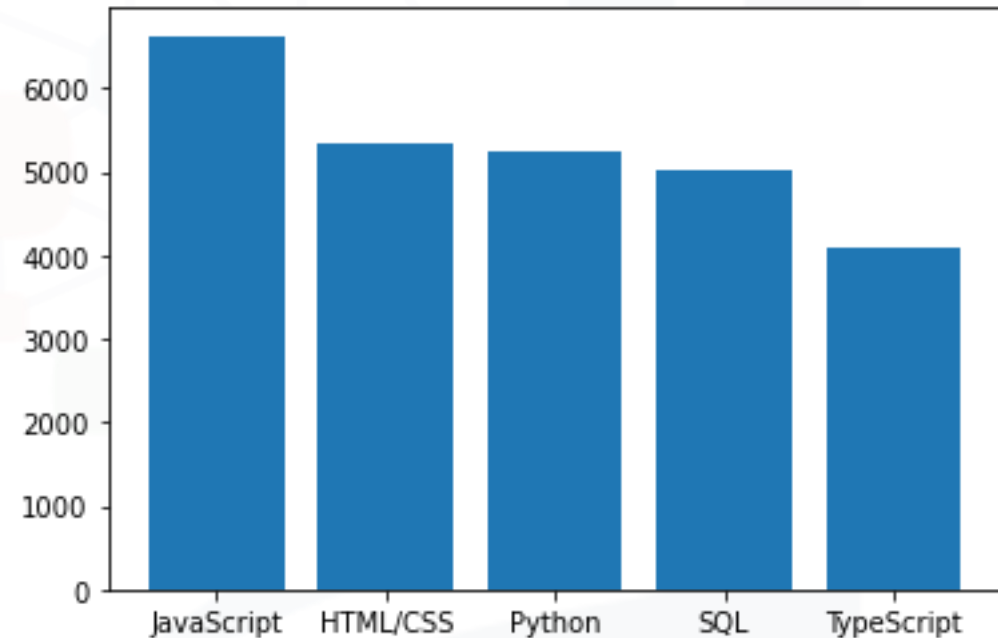
1. Trends of Programming Languages
2. Trends of Databases
3. Dashboards
 1. Current Technology Usage
 2. Future Technology Trend
 3. Demographic
4. Conclusion

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

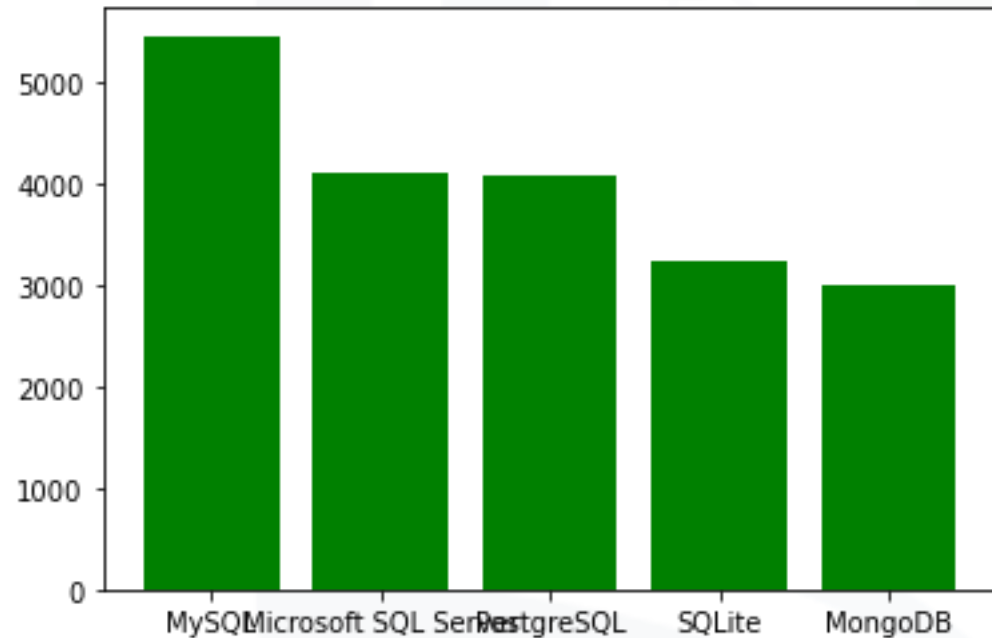
- In current and next year, both JavaScript and HTML/CSS are the most popular languages
- Python is the fifth popular language in current year, become third next year
- Shell language fall down from the top 5 popular in the next year

Implications

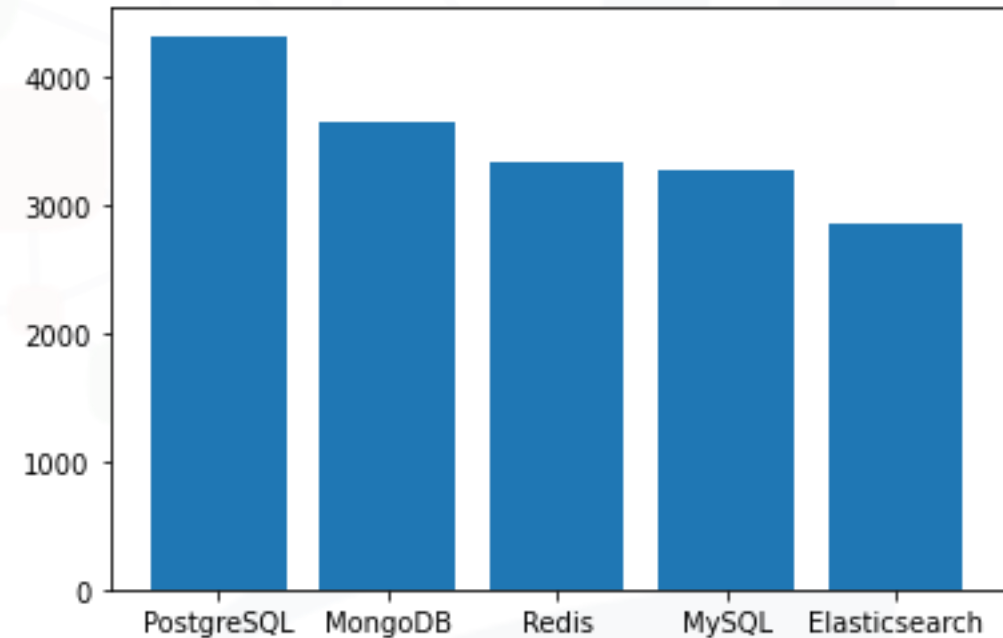
- JavaScript and HTML/CSS are the most popular languages
- Python become more popular than current year
- Shell language become less popular in next year

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- PostgreSQL is the third in current year and the first in next year
- MySQL is popular in both current and next year
- MongoDB comes to second place in next year, which being the fifth in current year

Implications

- PostgreSQL and MySQL are the most popular
- MongoDB is getting more and more popular

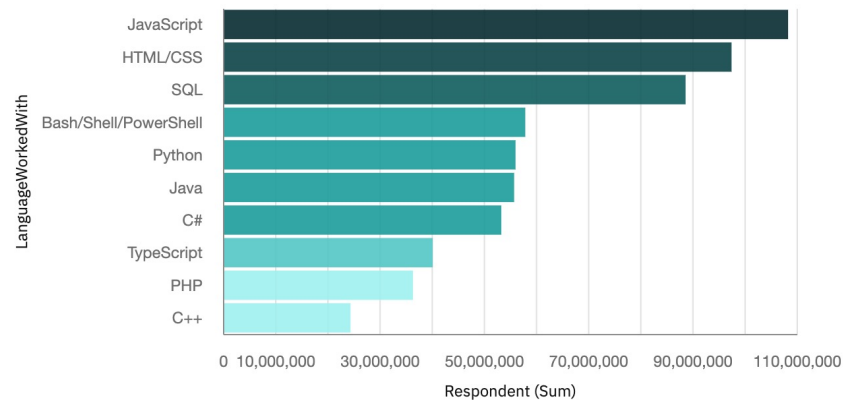
DASHBOARD



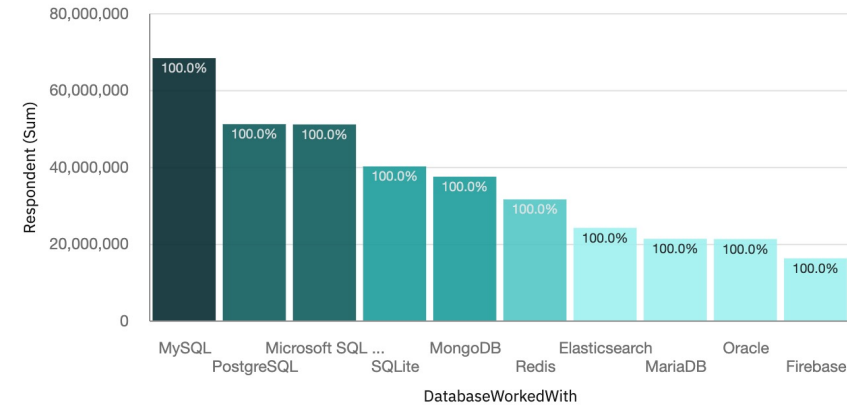
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Current Technology Usage

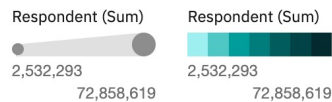
Top 10 LanguageWorkedWith



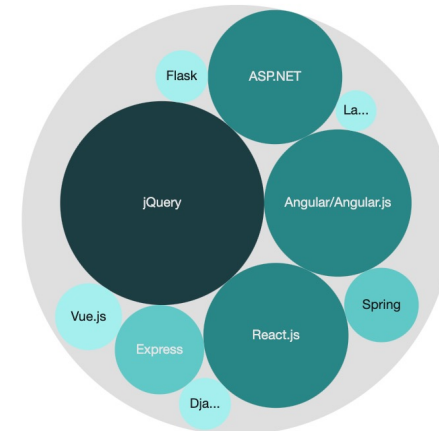
Top 10 DatabaseWorkedWith



PlatformWorkedWith

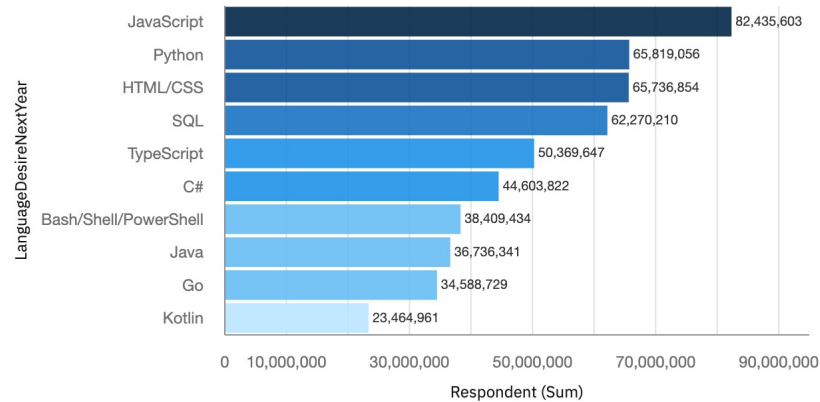


Top 10 WebFrameWorkedWith

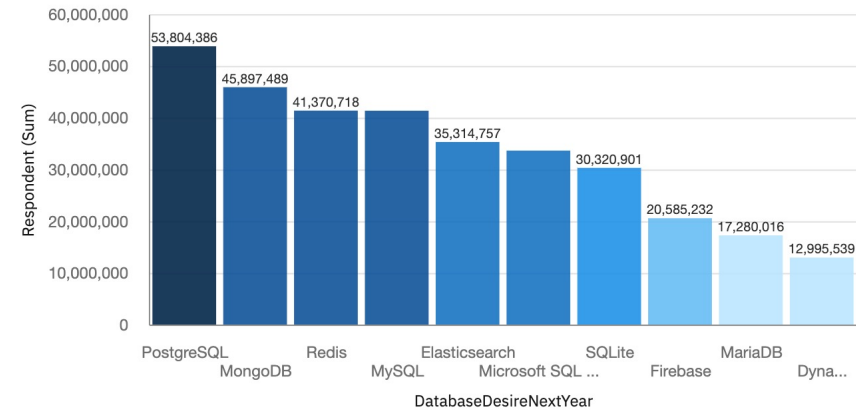


Future Technology Trend

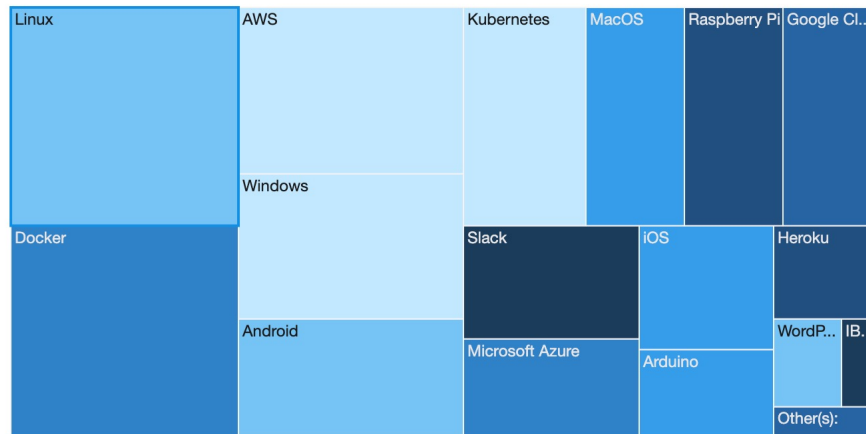
Top 10 LanguageDesireNextYear



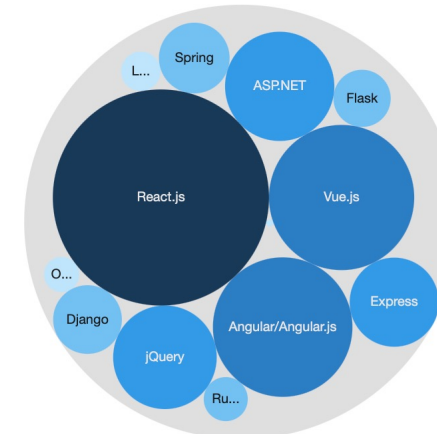
Top 10 DatabaseDesireNextYear



PlatformDesireNextYear

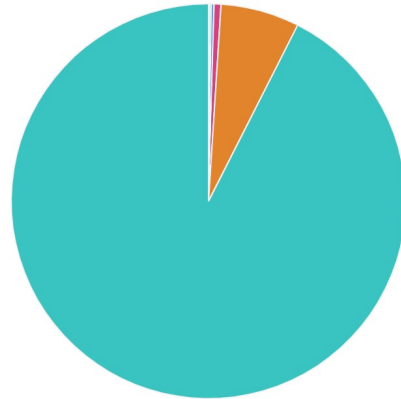


Top 10 WebFrameDesireNextYear

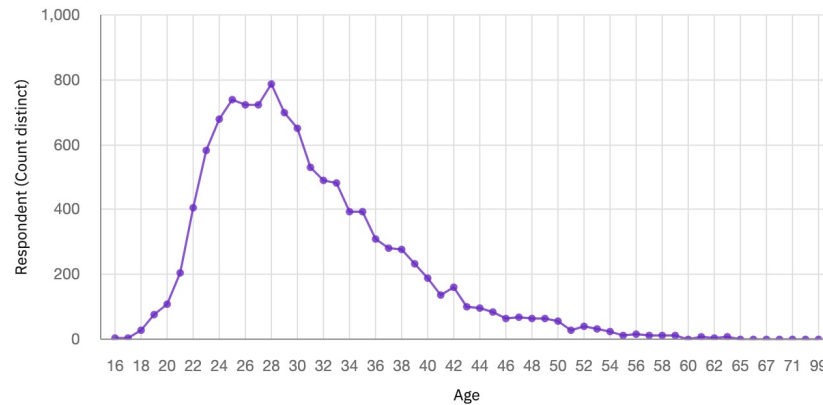


Demographic

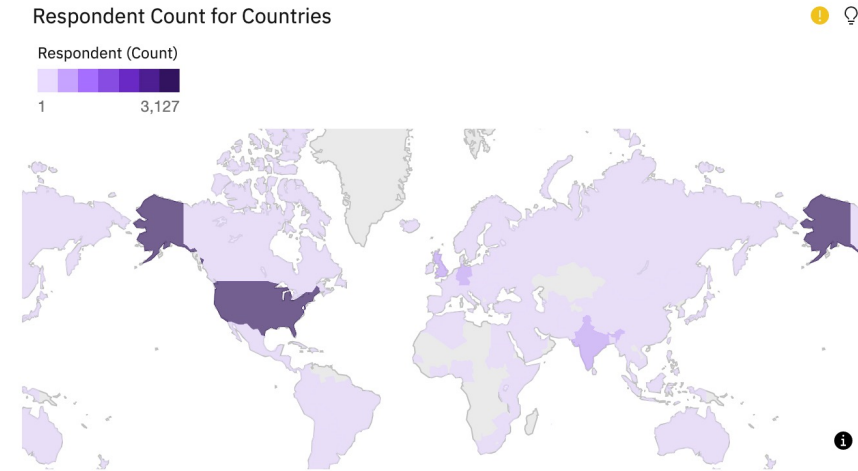
Respondent classified by Gender



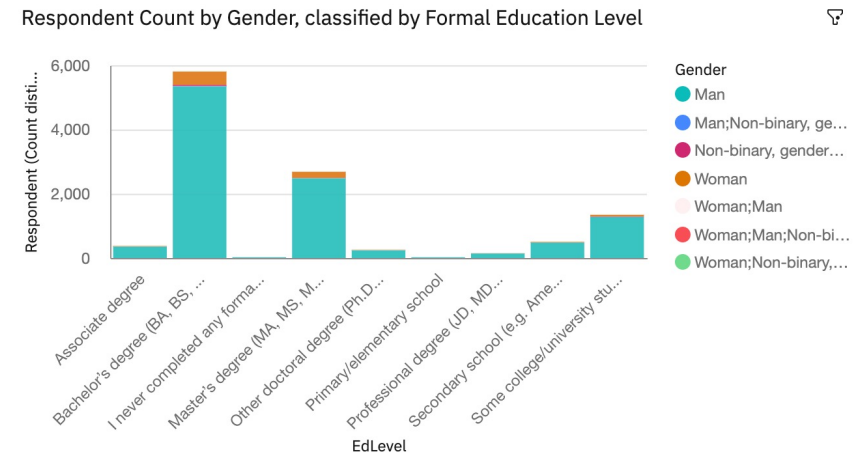
Respondent by Age



Respondent Count for Countries



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



- Age?
- Country?
- Popular Languages?
- Popular Database?

OVERALL FINDINGS & IMPLICATIONS

Findings

- Most of the respondents are men and in the States
- JavaScript is the most popular programming language
- The most popular database language becomes PostgreSQL from MySQL

Implications

- More men work with programming skills than women
- The survey might have been done in the States
- JavaScript might still be the most popular among programming languages in next years

CONCLUSION



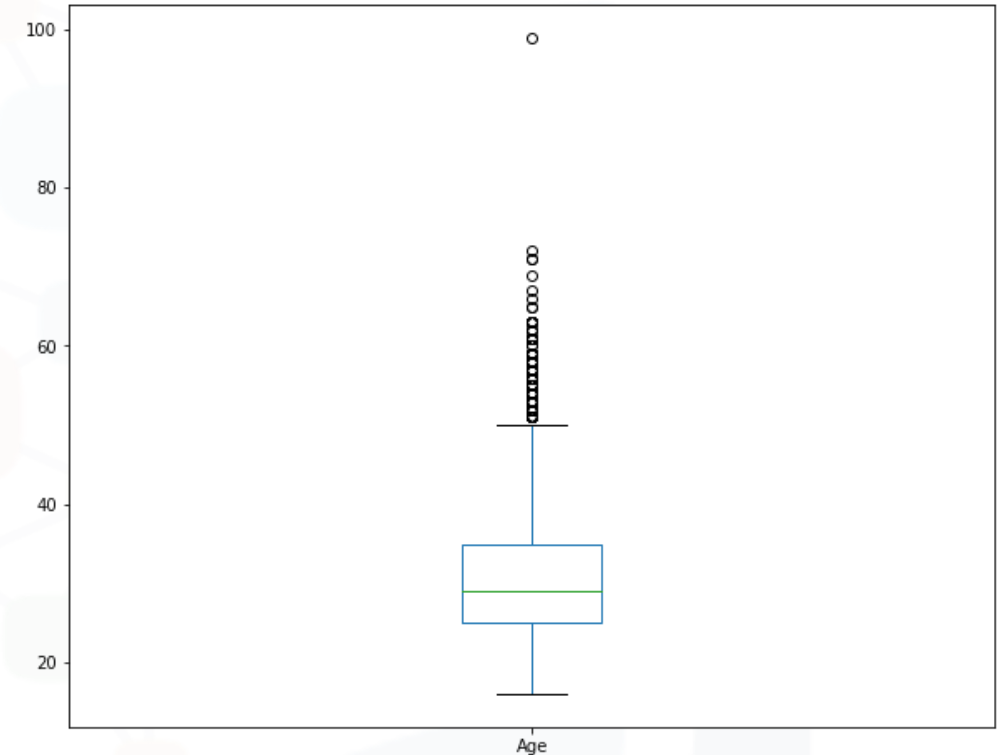
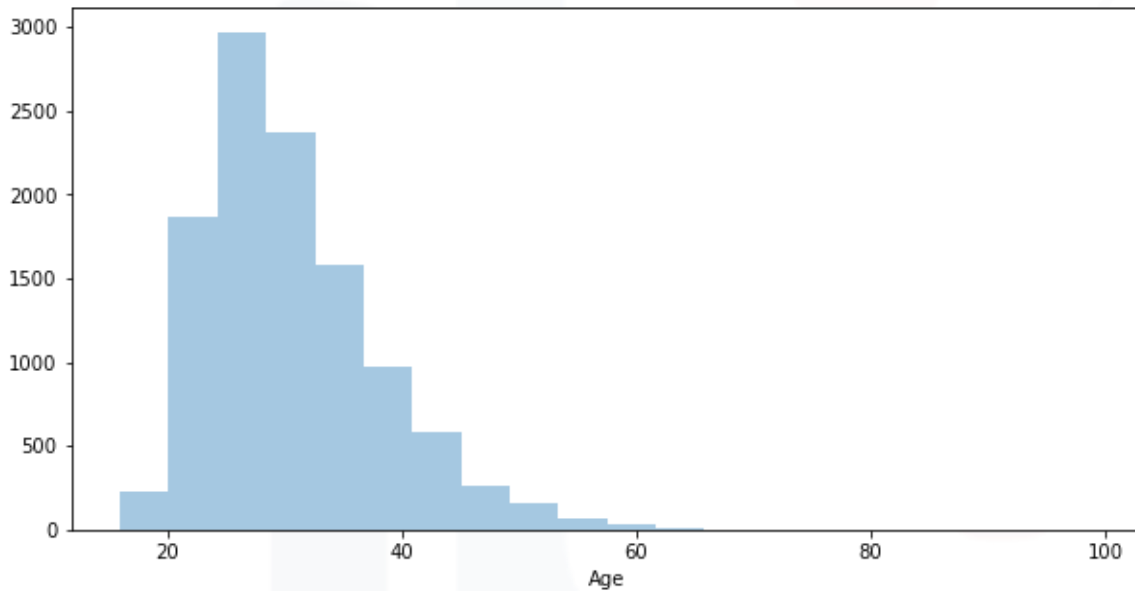
- More men work with programming skills than women
- JavaScript might still be the most popular among programming languages in next years
- PostgreSQL might become more popular than MySQL in database languages in next years
- People work with programming skills and database skills are in younger generation

APPENDIX



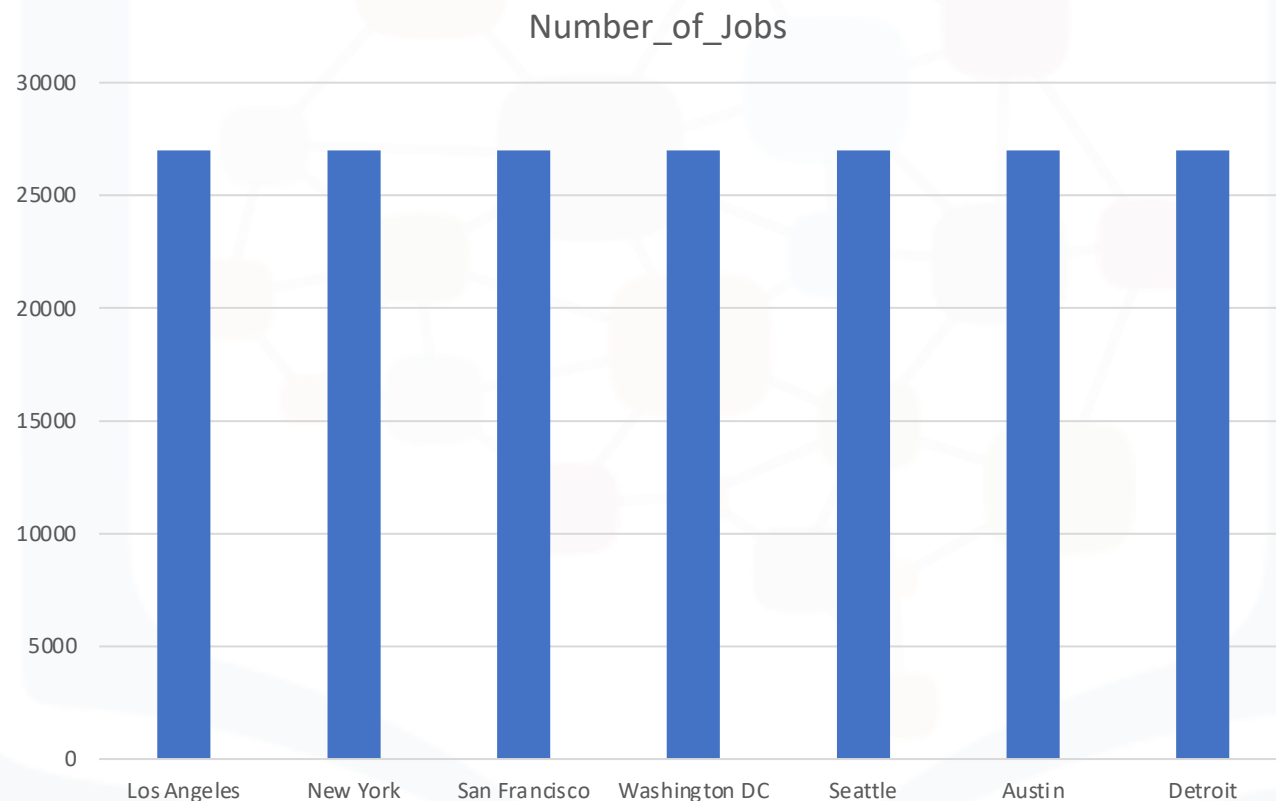
1. Age
2. GITHUB JOB POSTINGS
3. POPULAR LANGUAGES

Age



- Most of the respondents are age between 20-40
- An outlier appear near age 99

GITHUB JOB POSTINGS



POPULAR LANGUAGES

