STACK OVERFLOW DEVELOPER SURVEY

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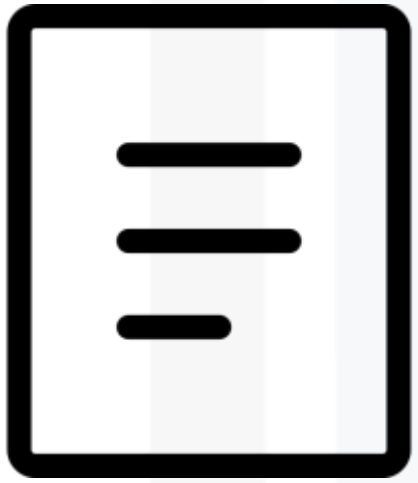
OUTLINE

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

EXECUTIVE SUMMARY



- Data contextualization and analysis goal
- Methodology description
  - Data gathering
  - Data analysis
  - Data visualization
- Results shows the graphs and trend supported by various graphs
- Discussion of overall findings and implications regarding the results previously exposed
- Final conclusions of the findings in Dataset.

INTRODUCTION

- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of developers around the world.
- Results don't represent everyone in the developer community evenly
- Nearly 90,000 developers responded
- Trends
  - Technology worked with
  - Future technology to work

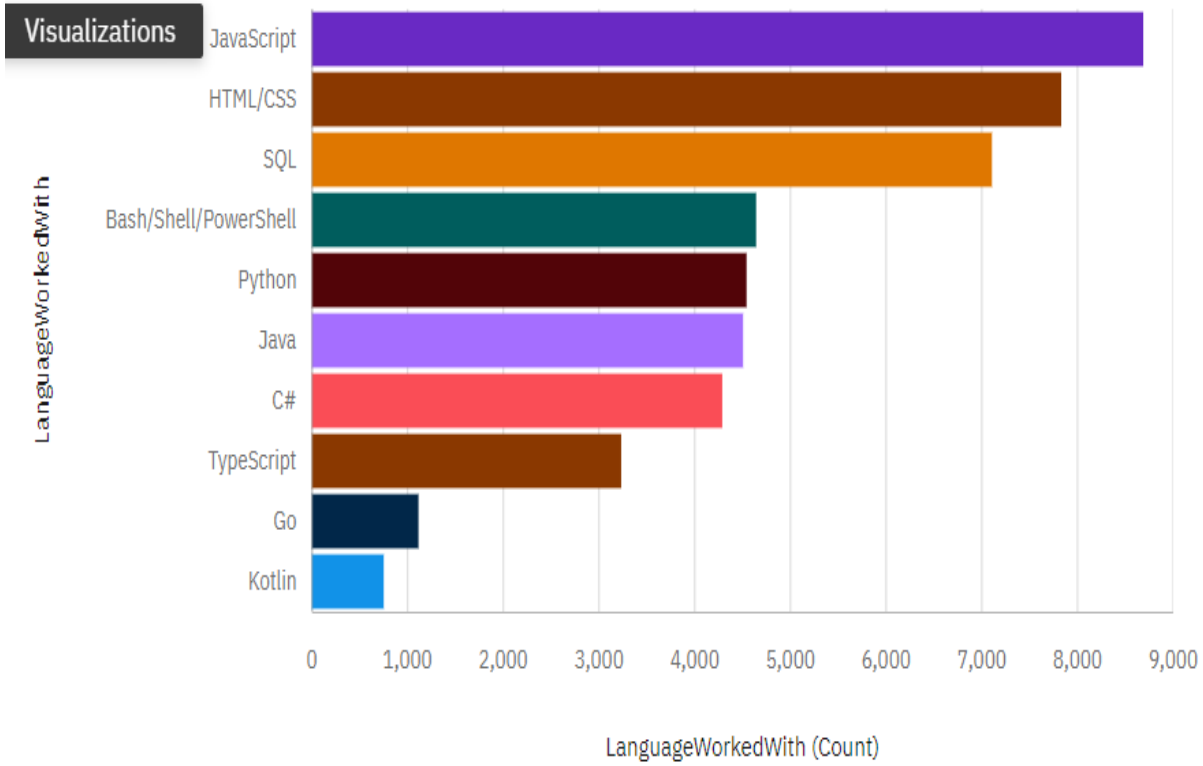
METHODOLOGY

- Collect survey data
  - Web scraping
  - APIs
  - Request library
- Data wrangling
- Exploratory Data Analysis (EDA)
  - Distribution
  - Outlier Handling
  - Correlation
- Visualization
  - Distribution of data
  - Relationship
  - Comparison
  - Composition
- Dashboards

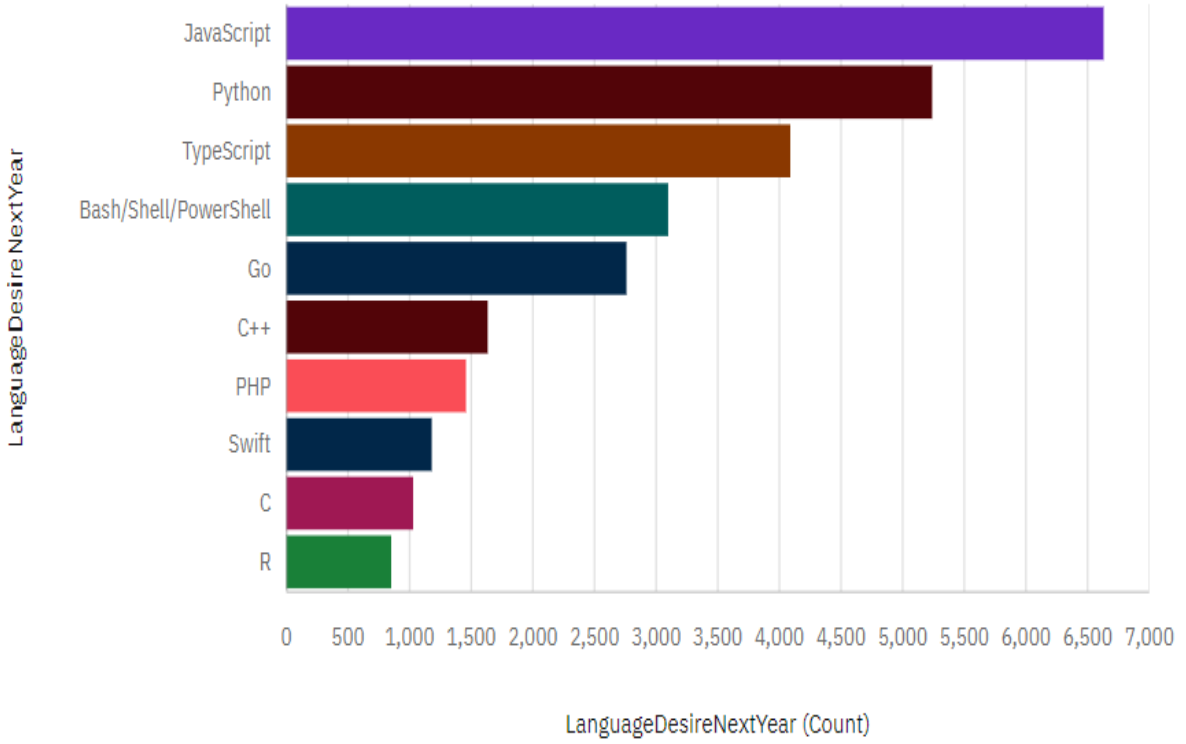
RESULTS

PROGRAMMING LANGUAGE TRENDS

Top 10 Language Worked with



Top 10 Language Desire Next Year



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PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

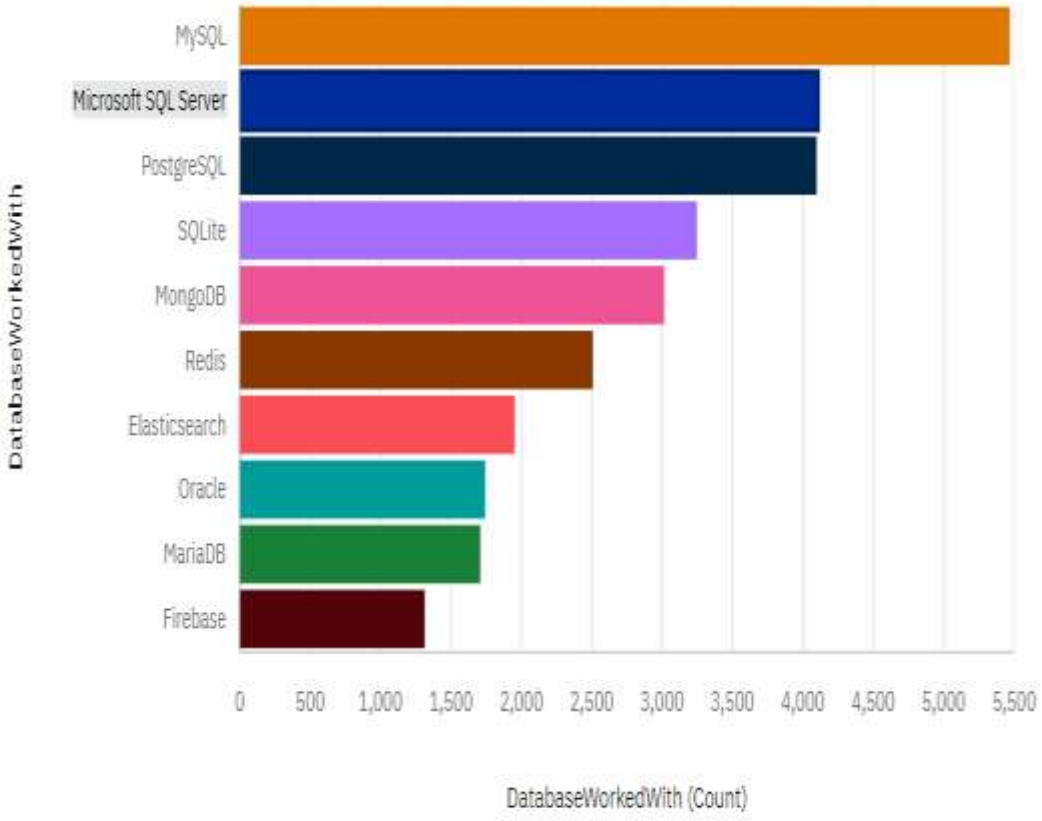
- Java Script is currently most popular language
- TypeScript, Go, Kotlin least popular now
- Python and TypeScript seem to be the next popular languages as they are emerging to top

Implications

- Possibility of learning New language among the developers and the future technology will work on that language

DATABASE TRENDS

Current Year



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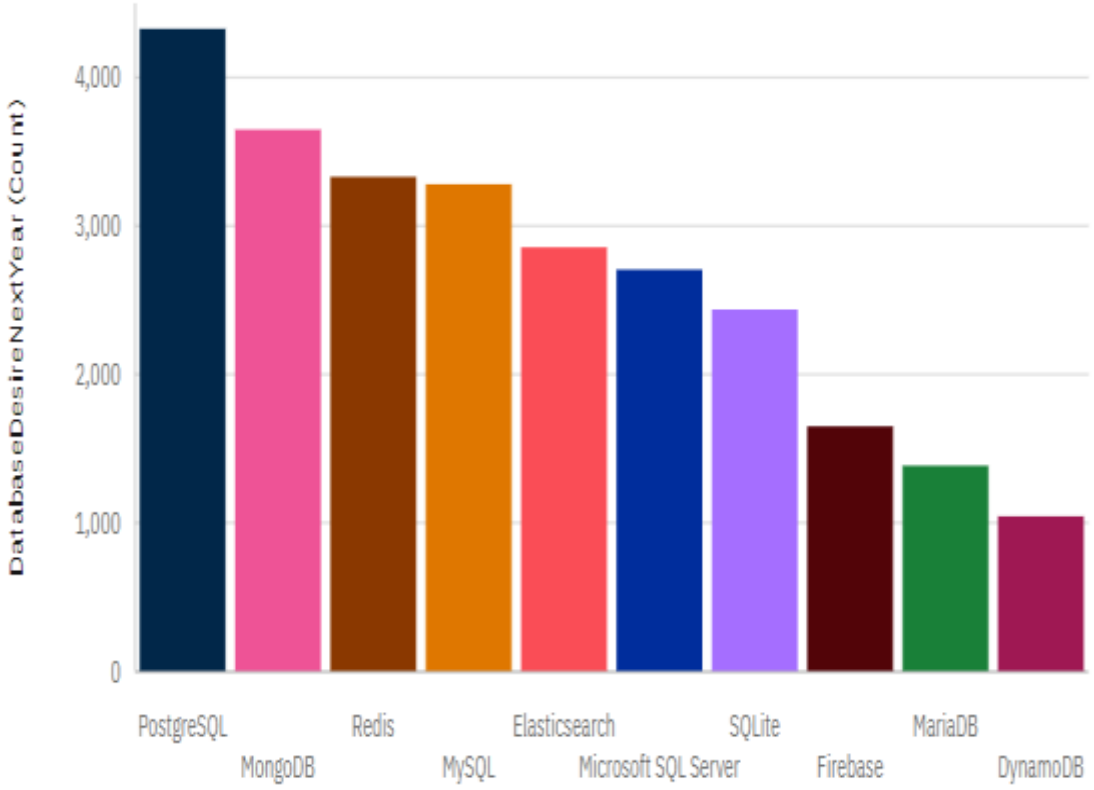


DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the most used database, followed by Microsoft SQL
- Lack of interest in Oracle, MariaDB, firebase
- Increasing interest in PostgreSQL and MongoDB

Implications

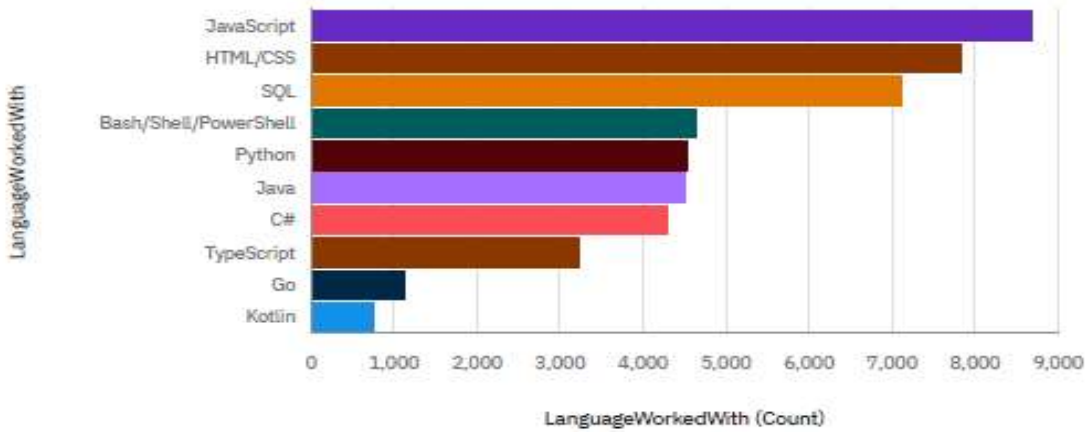
- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

DASHBOARD

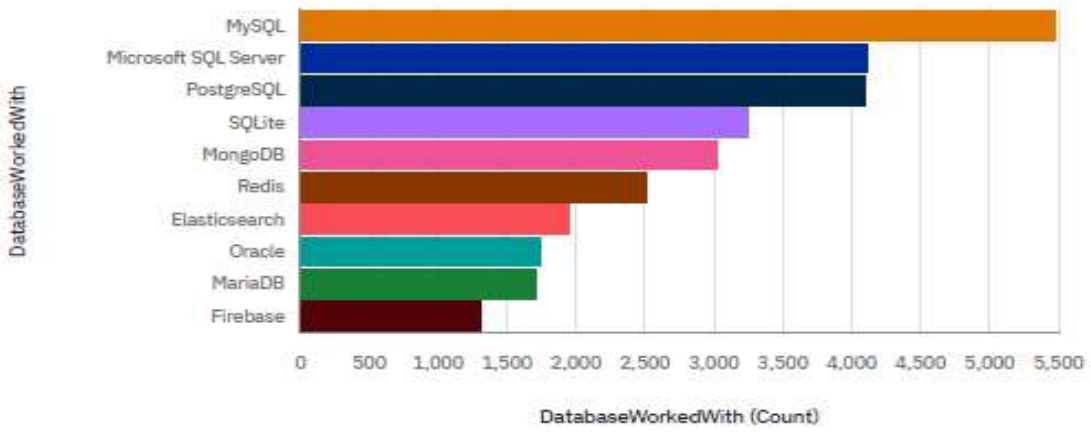
DASHBOARD TAB 1

Current Technology Usage

Top 10 Language Worked with

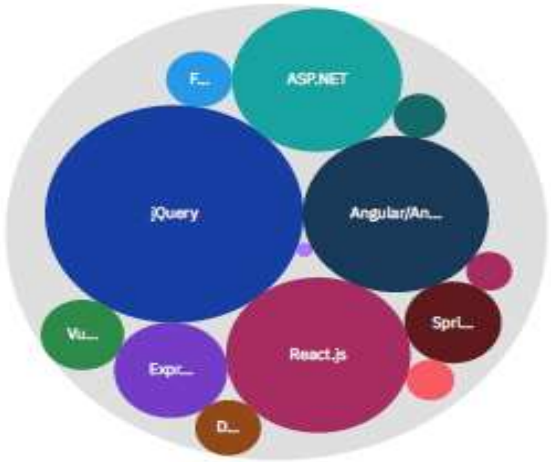


Top 10 Database Workedd



Platform Worked With

Top 10 Webframbed Work With



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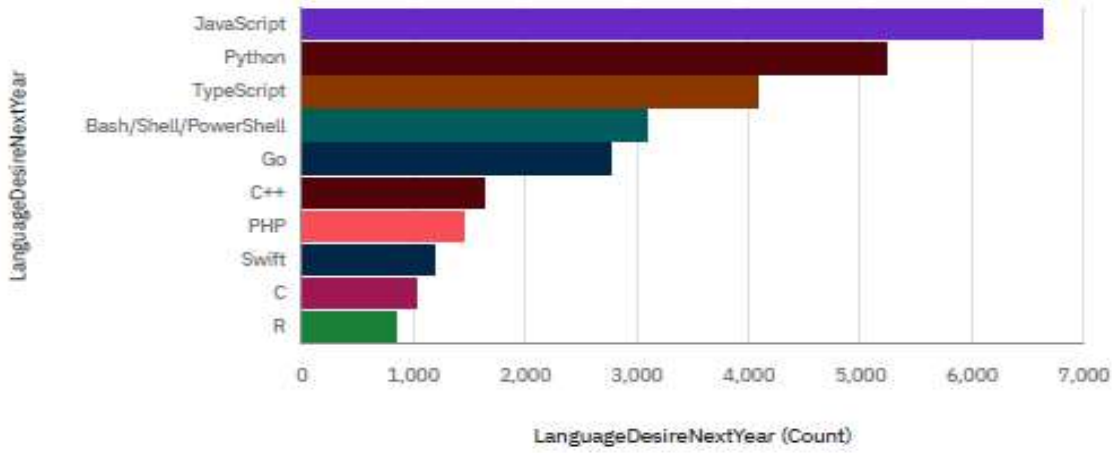
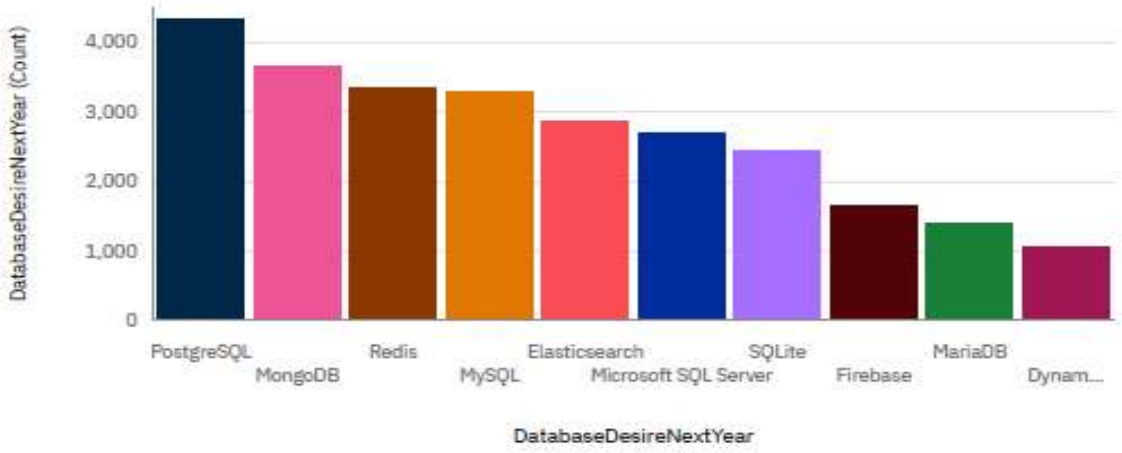
DASHBOARD TAB 2

Future Technology Trend

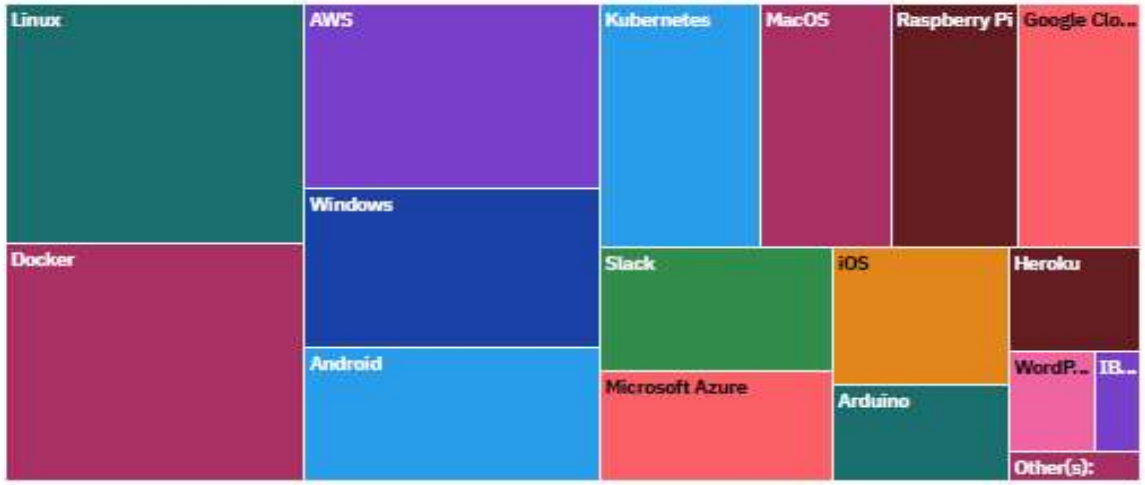
Top 10 Language Desire Next Year



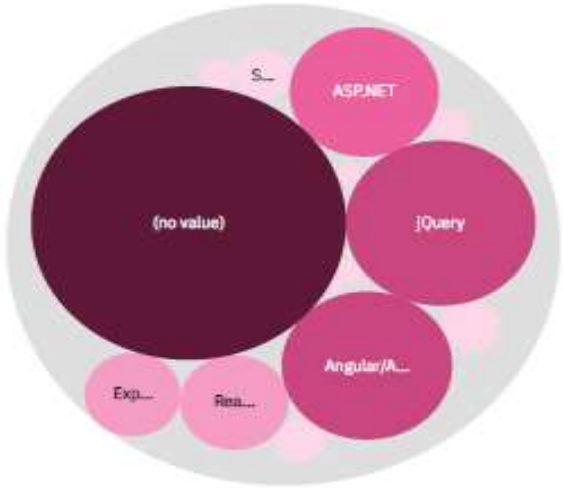
Top 10 Database Desire Next Year



Platform Desire Next Year



Webframe Desire Next Year



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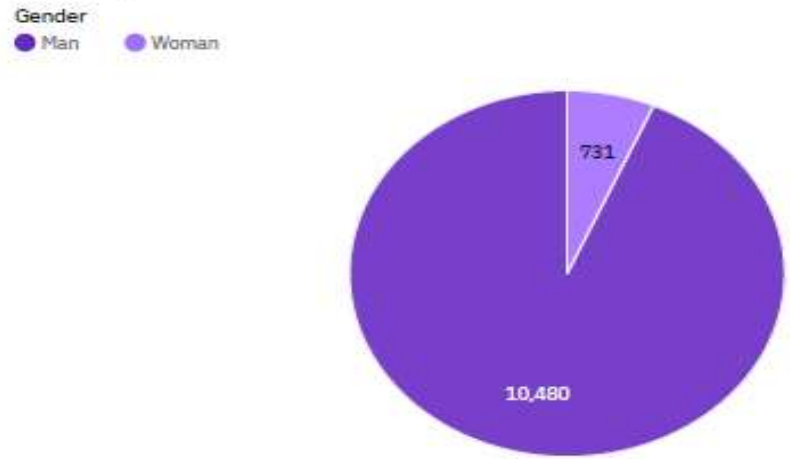
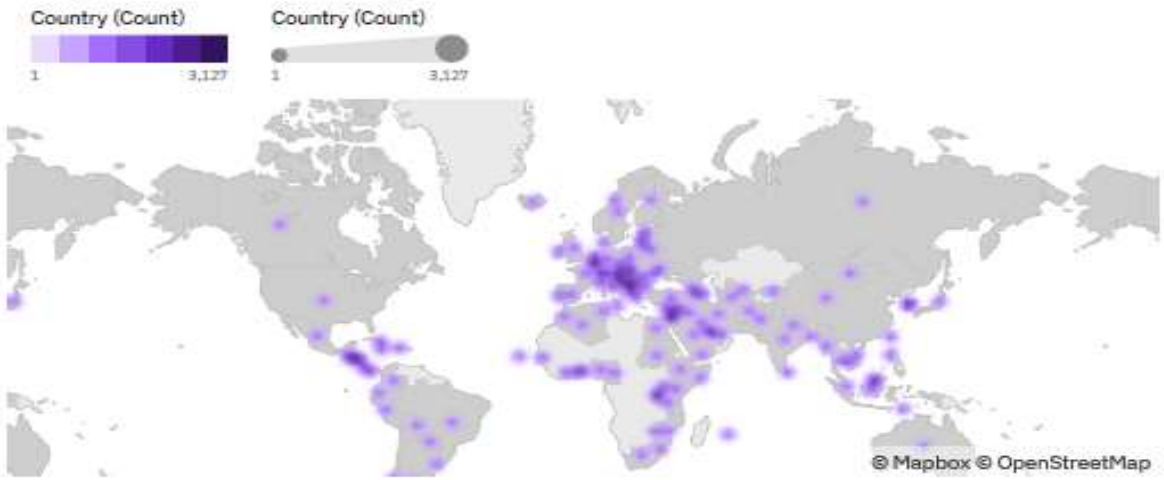
DASHBOARD TAB 3

Demographics

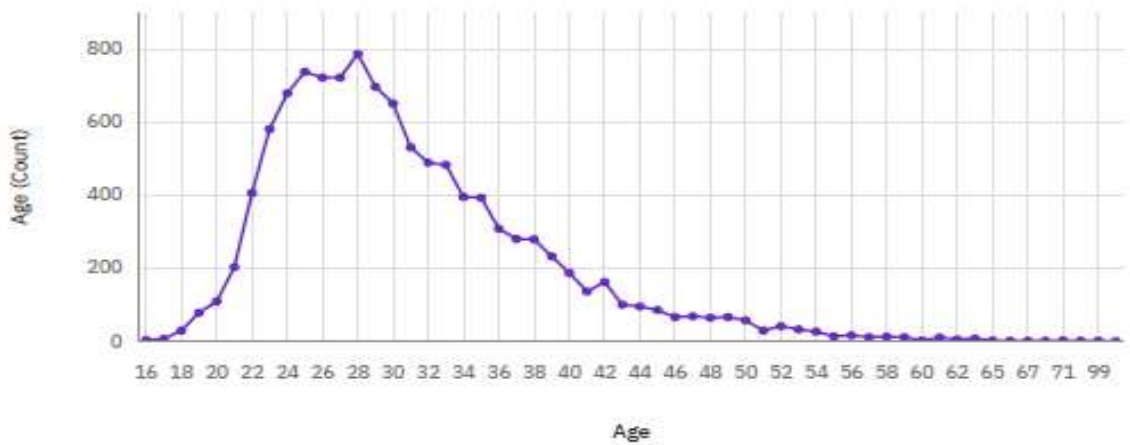
Gender by Gender



5 Respondent count for countrys



Respondent Count by Age



Gender by Gender colored by EdLevel

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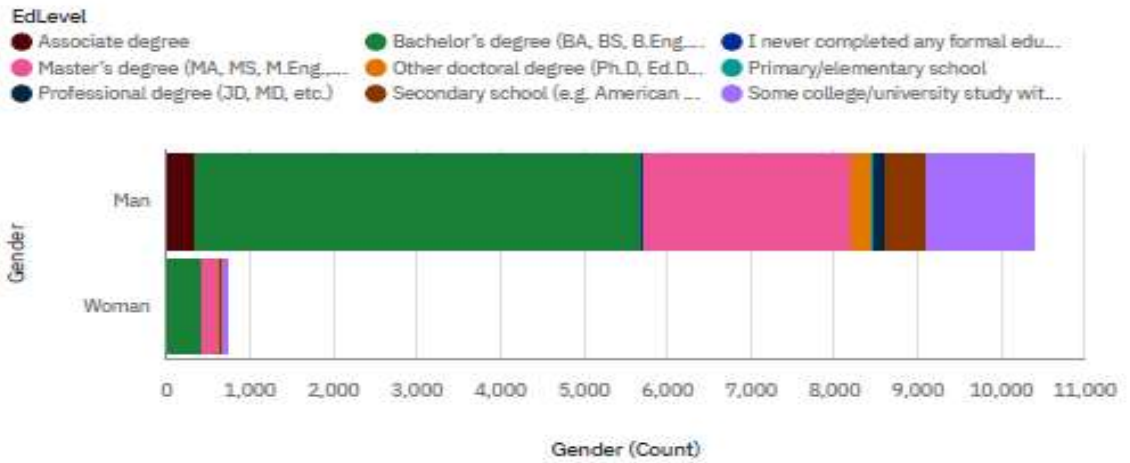

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DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript widely used and TypeScript getting popular.
- Over 90% young male developers.
- Developers mostly located in developed countries.

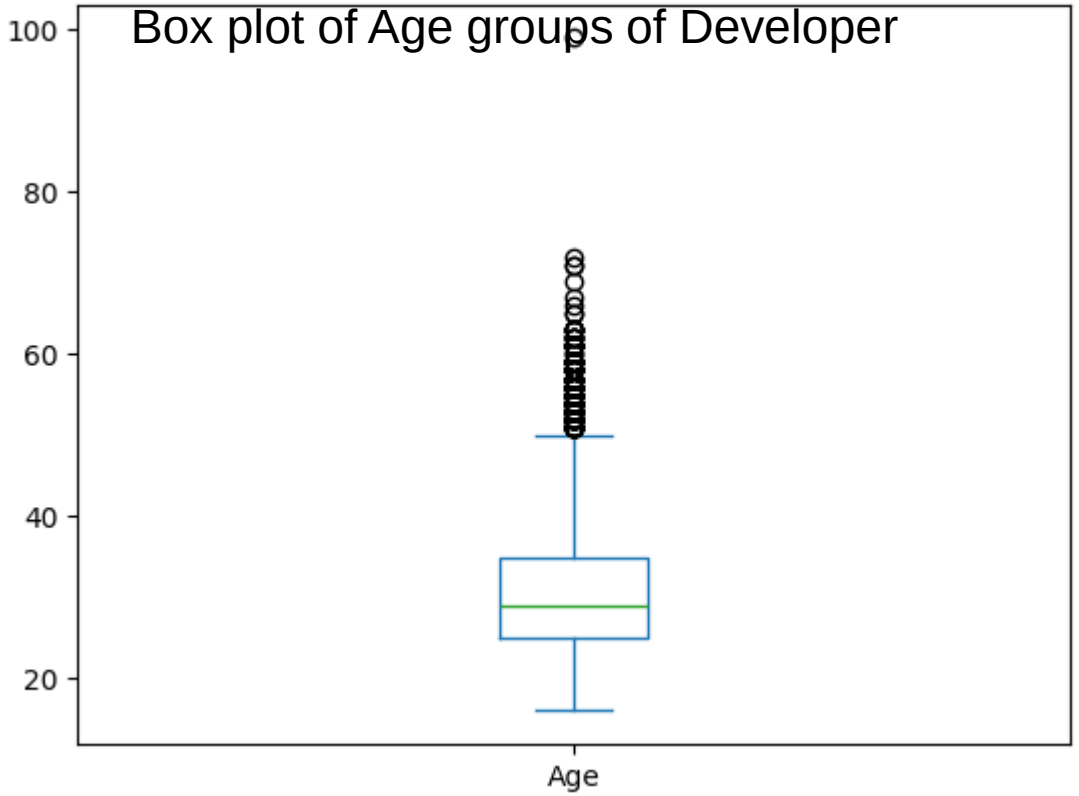
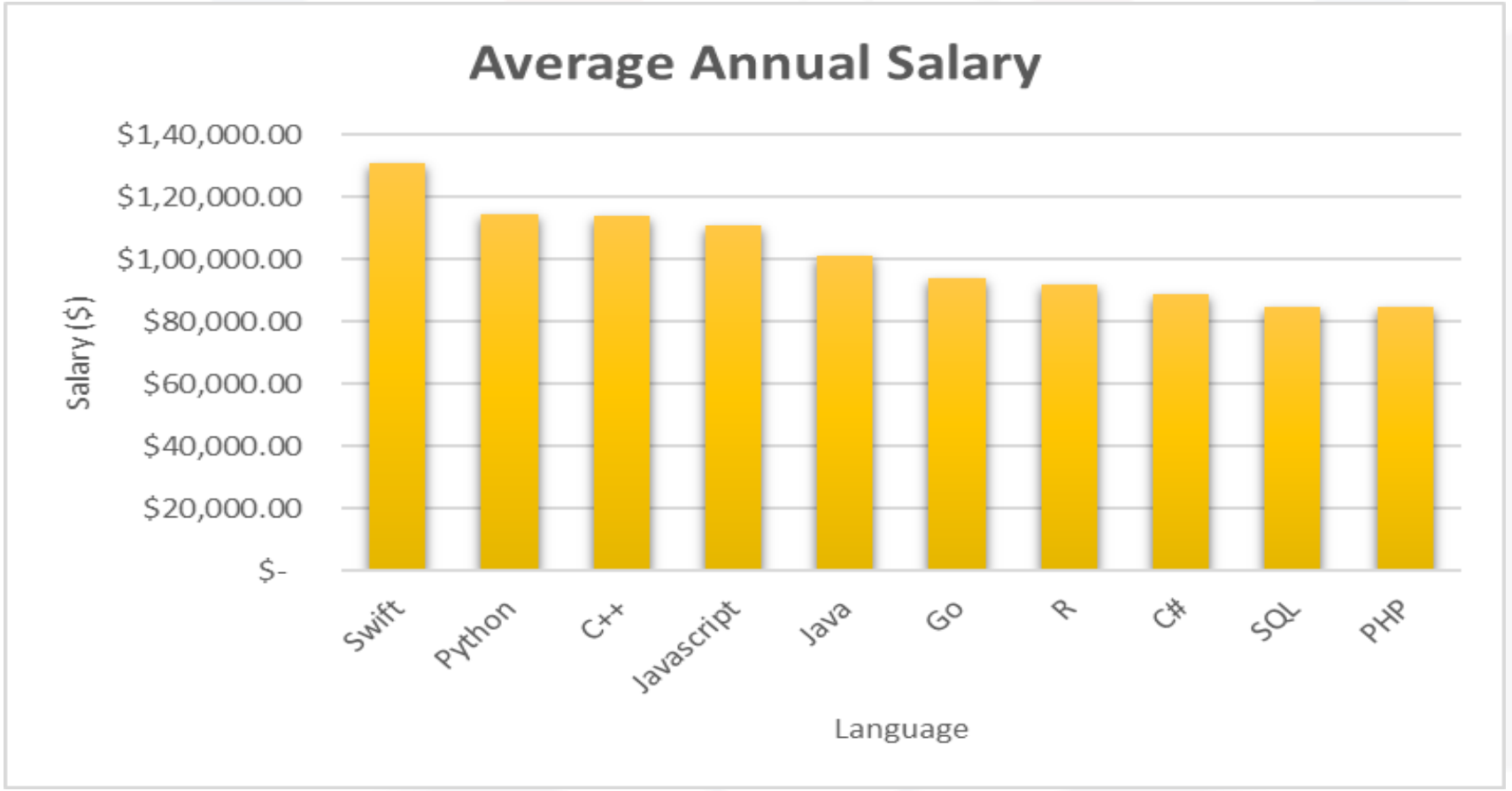
Implications

- JavaScript and TypeScript web frames gaining followers.
- Global polarization of developers location and gender.
- Young developers without postgrad studies are a majority.

CONCLUSION

- Developers are people who work with digital platforms and technology, to create products and services
- The popular trends of different tools, platforms and languages can be obtained from this stack overflow survey
- There is less involvement of female developers in this survey

APPENDIX



POPULAR LANGUAGES by Salary