

# Languages in Development

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# Outline

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- Introduction
- Methodology
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- Discussion
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- Conclusion
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# Executive Summary

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- JavaScript is still the most popular language among all other languages
- Python is increasing in popularity
- Non-relational databases are increasing in popularity
- There is still a vast majority of male developers in community

# Introduction

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- The proposed report shows the trends in popularity for different development languages
- It is mainly oriented on people interested in trends regarding the use of development languages

# Methodology

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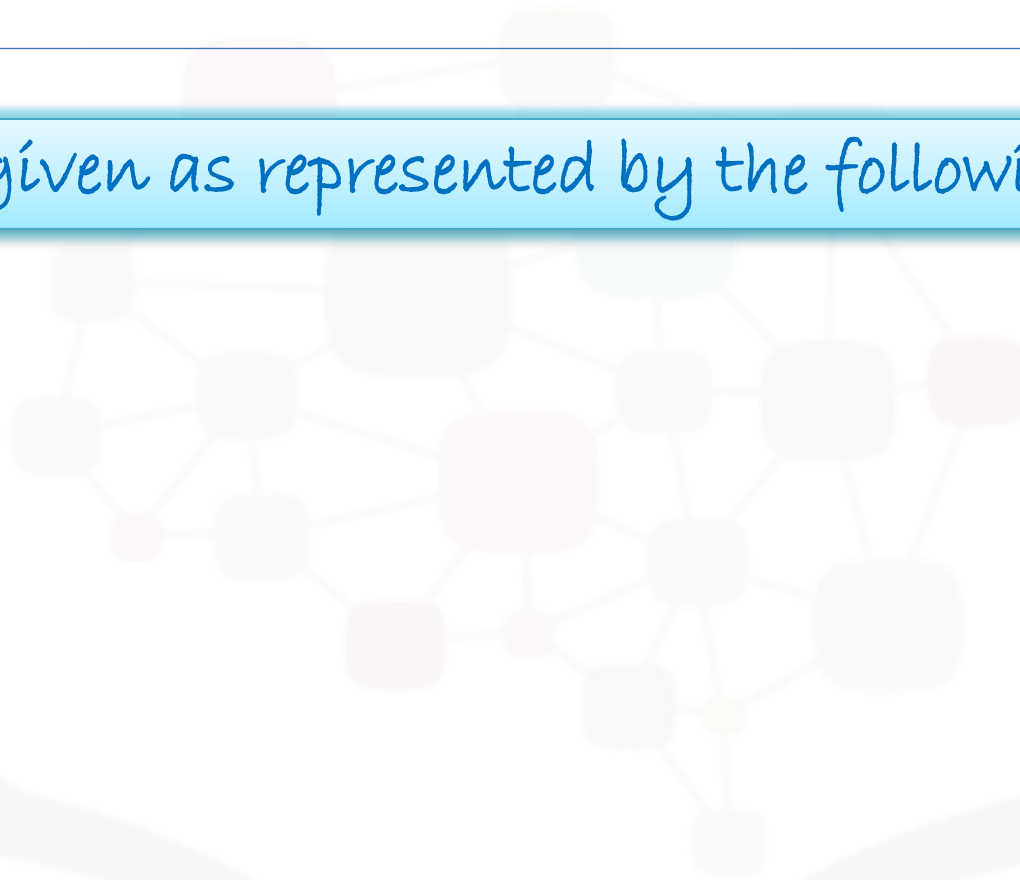


- The data mainly comes from Github Barometer and was provided by IBM Skills Network
- Data about Github Job Postings is collected via Github API
- The data was directly downloaded and scraped from the web links as well
- The data was then analyzed with exploratory data analysis

## Results

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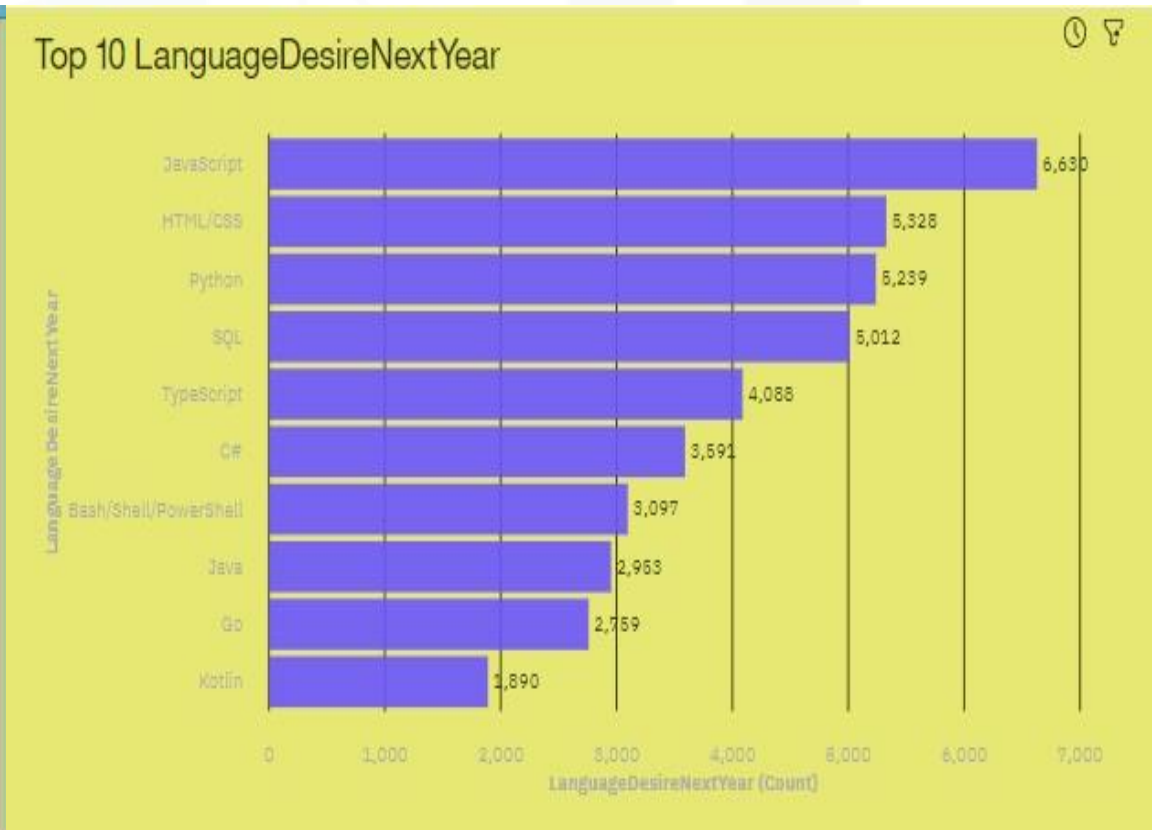
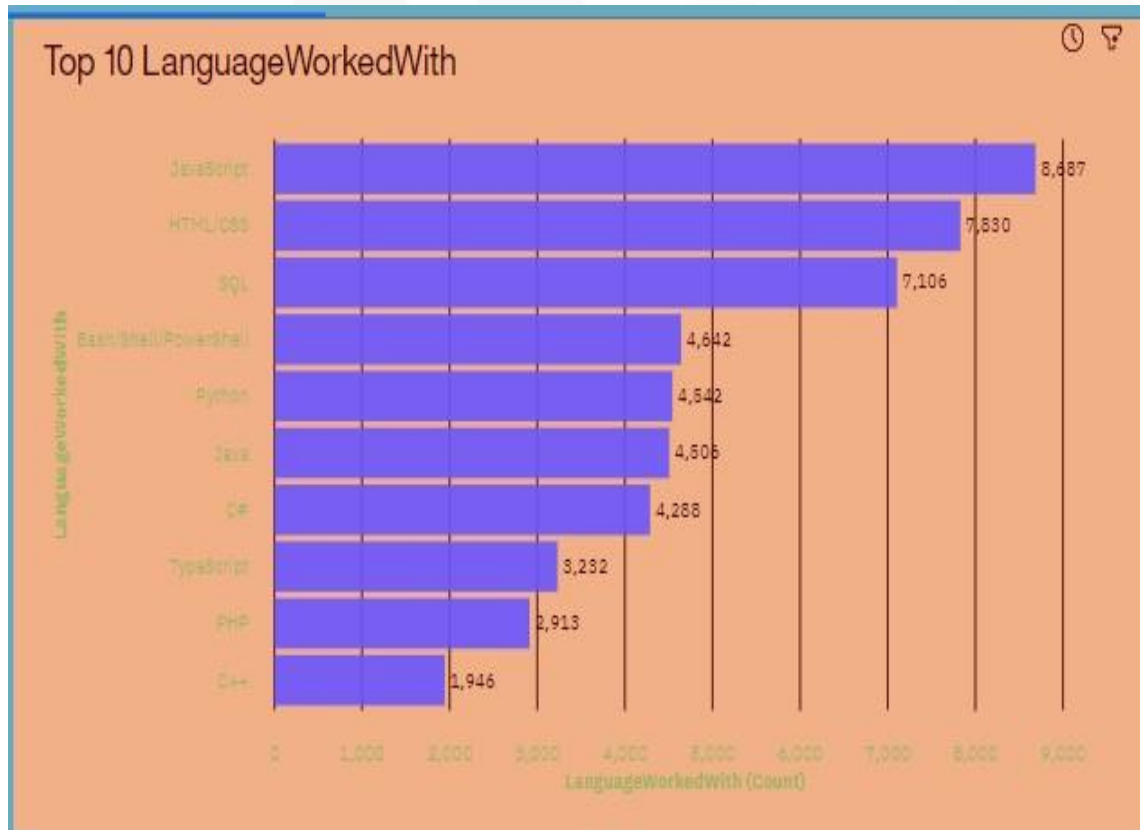
The results can be given as represented by the following visualizations



# Programming Language Trends

Current Year

Next Year



# Programming Language Trends - Findings & Implications

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## Findings

- JavaScript and HTML/CSS are the most popular languages and will continue to be popular next year
- Python seems to be even more desired next year
- Bash/Shell/PowerShell seems to decrease in popularity and TypeScript is growing

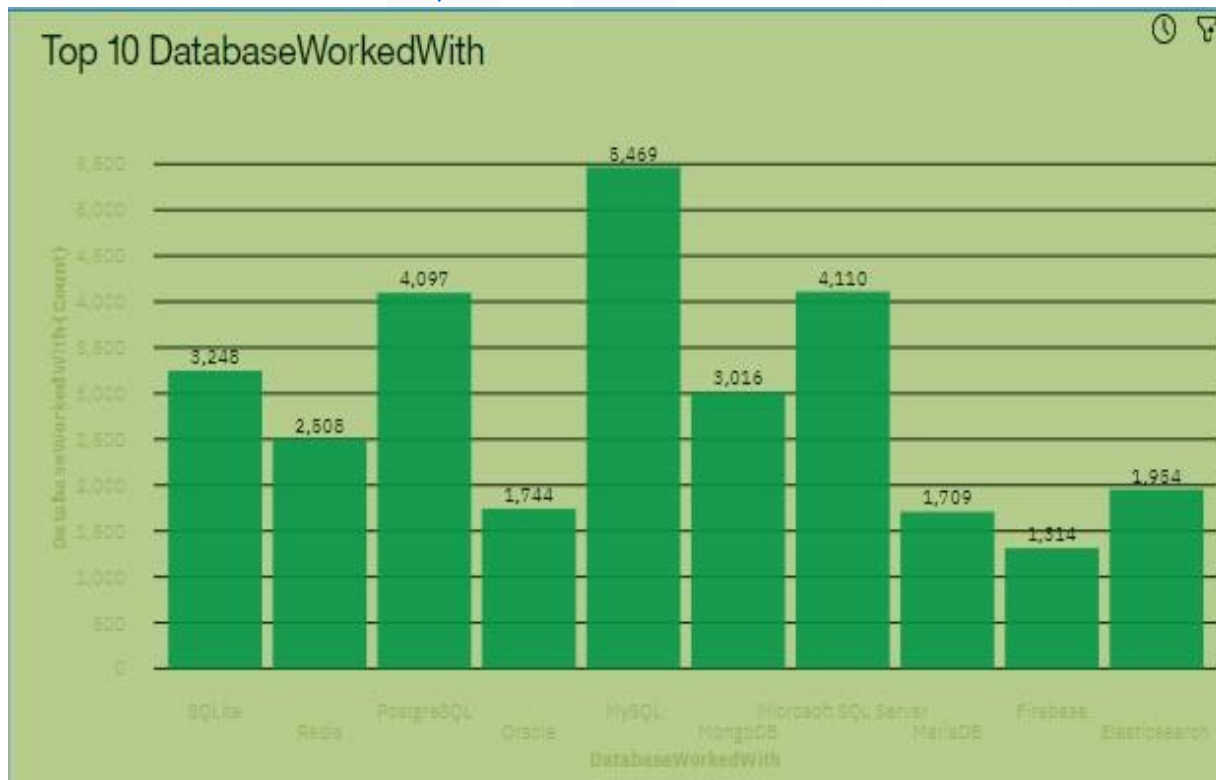
## Implications

- There will still be a high demand for front end programming languages next year
- Python's popularity is growing rapidly

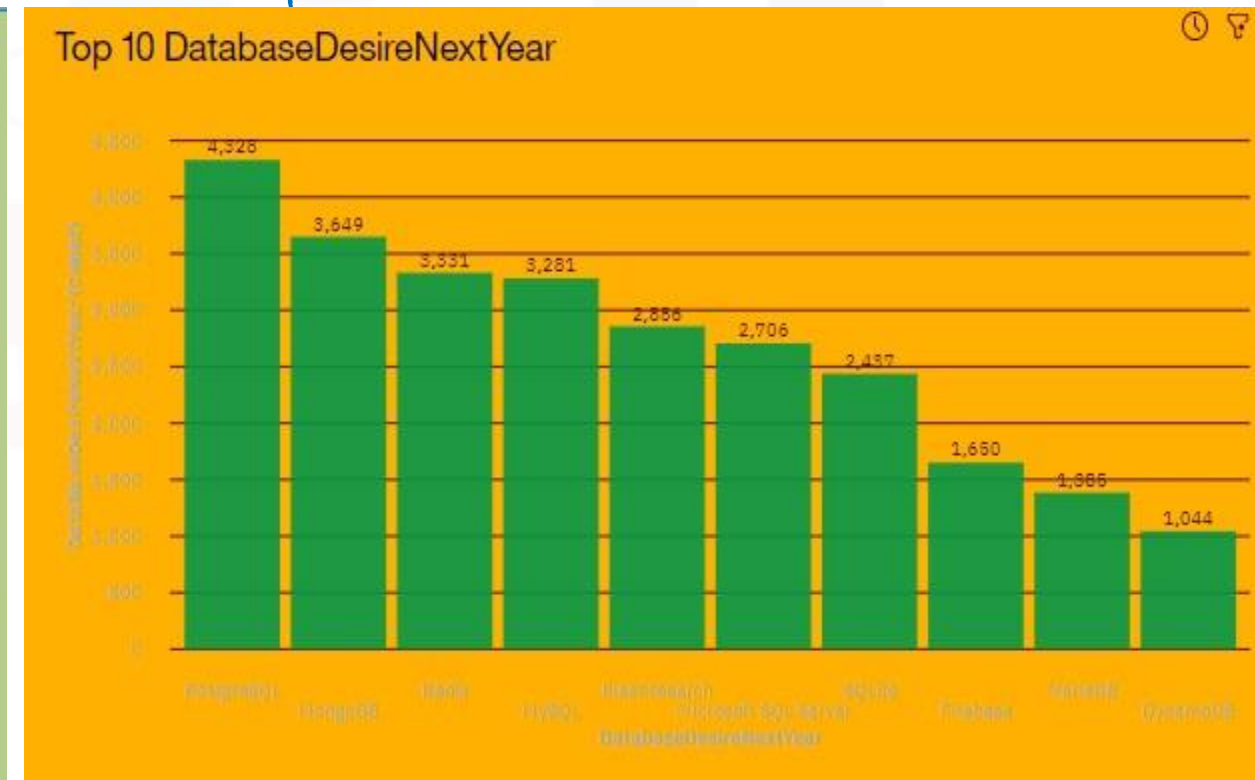


# Database Trends

## Current Year



## Next Year



# Database Trends- Findings & Implications

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## Findings

- Traditionally popular databases as MySQL and Microsoft SQL are becoming less popular
- PostgreSQL is the most popular database for next year
- NoSQL-databases seems to become more popular

## Implications

- The demand for skills on non-relational databases might increase rapidly

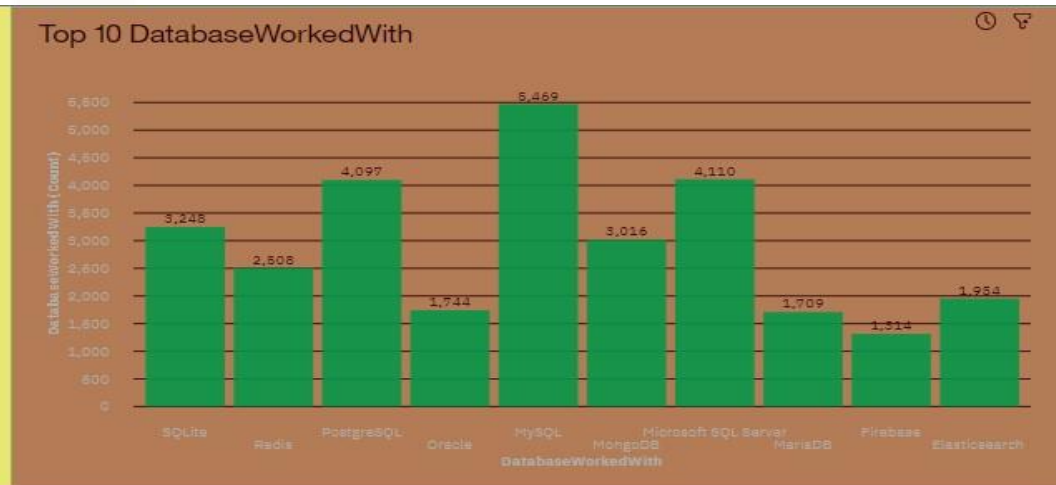
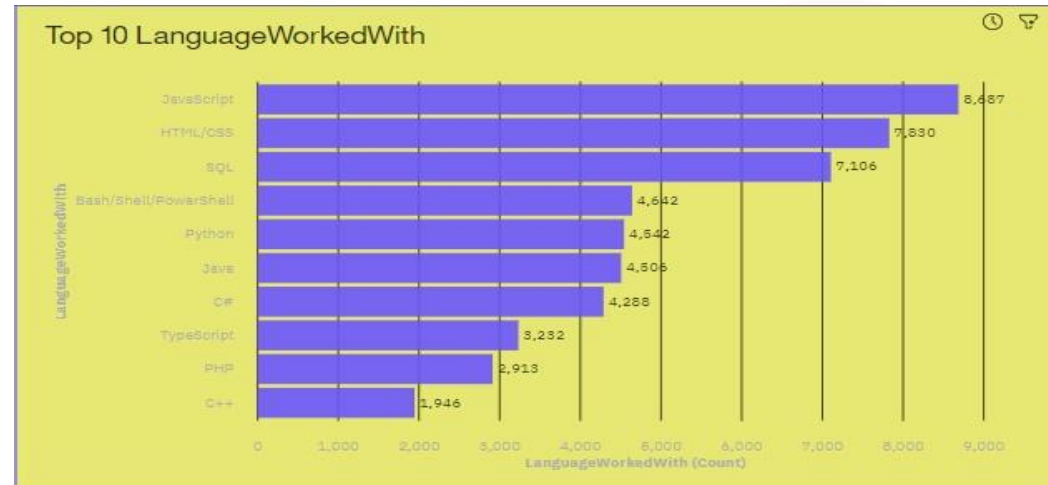
# Dashboard

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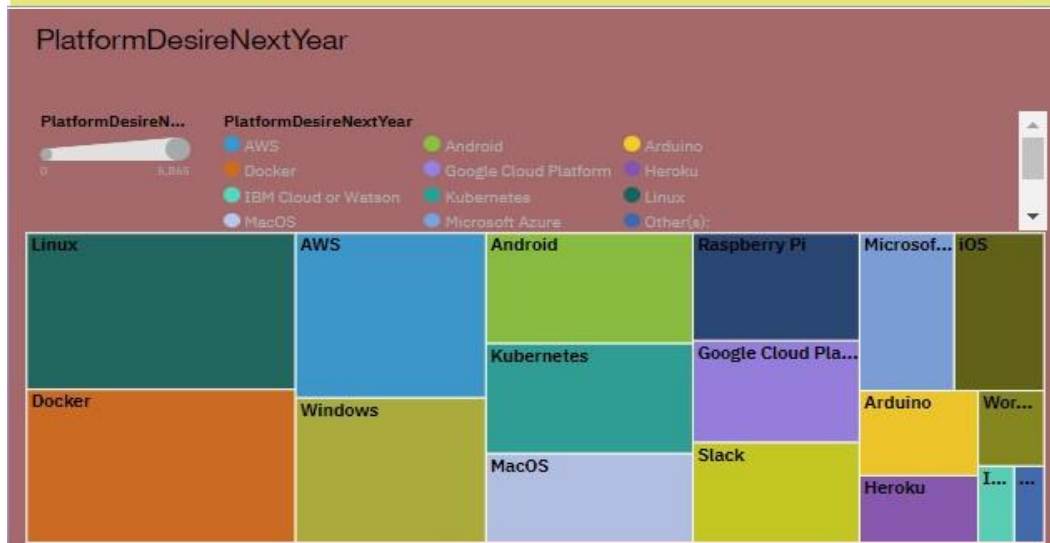
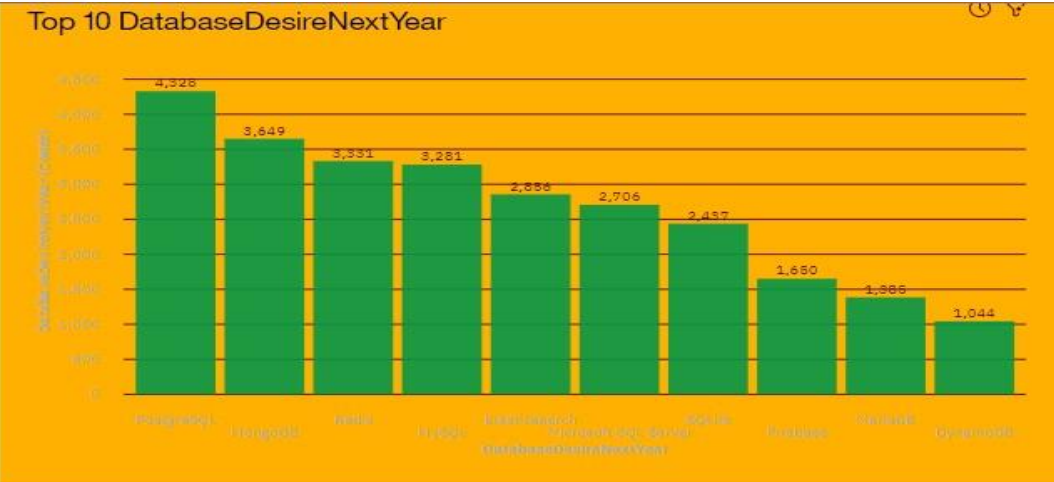
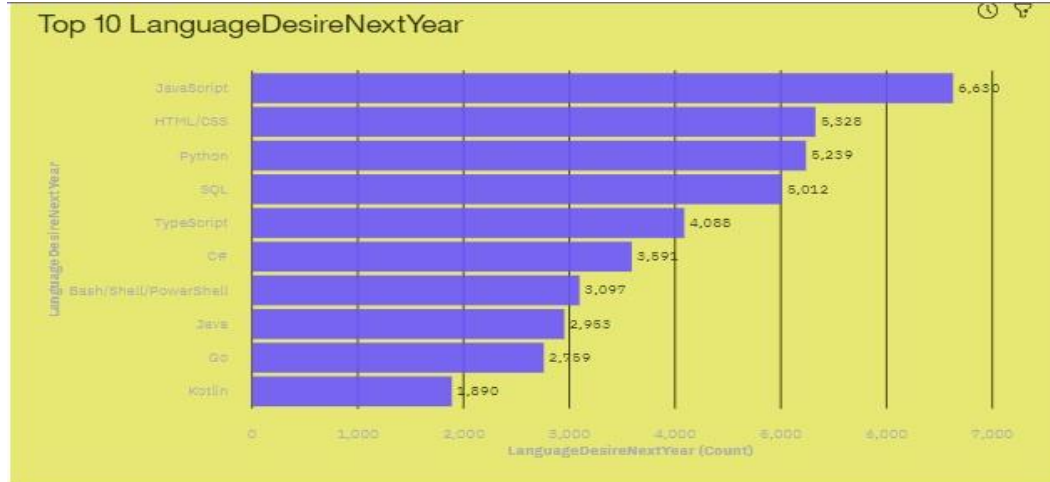


Dashboard

# Dashboard Tab 1

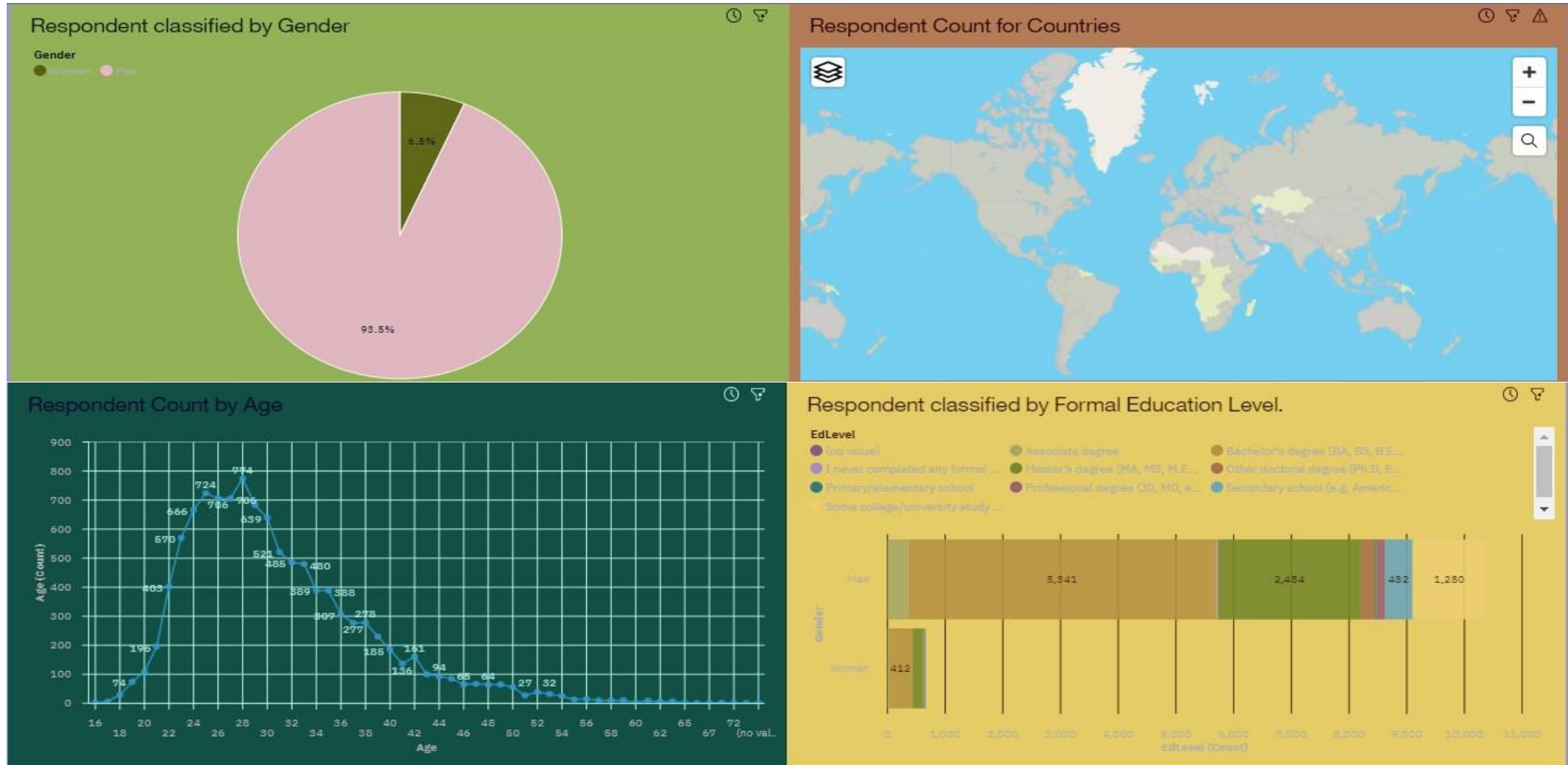


# Dashboard Tab 2





## Dashboard Tab 3



# Discussion

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# Overall Findings & Implications

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## Findings

- Most developers are men
- Non-relational databases are becoming more popular
- A majority of developers have a Bachelor or Masters degree

## Implications

- There is a need for more women in development
- There might be a lack of skilled developers within non-relational databases



# Conclusion

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- There is a lack of female developers
- Non-relational databases are becoming more popular than traditional databases
- JavaScript and HTML/CSS are still the most popular languages, but Python is starting to catch up

# Appendix

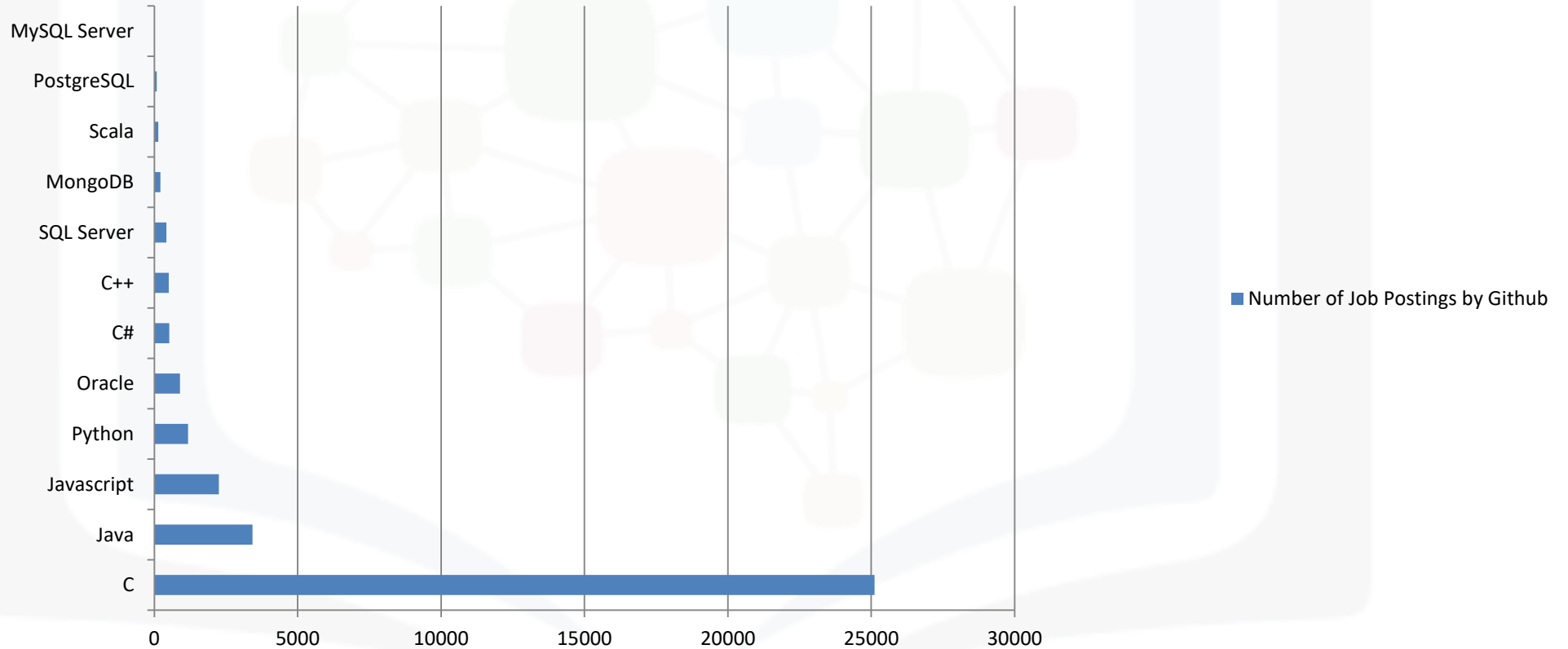
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Developer Survey Results 2019

# Github Job Postings

Number of Job Postings by Github



# Popular Languages

Average Annual Salary

