# Stack Overflow Survey Story 2019

Mohammad Sayem Chowdhury

1st July 2022

# OUTLINE

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

# EXECUTIVE SUMMARY

- The analysis is based on stack overflow survey 2019
- Trends we are looking here
  - Programming Language
  - Database
  - WebFrame
  - Platforms
- We also find respondent count based on age, countries, age and formal education level
- Old vs New Skills which is desired most.

# INTRODUCTION

- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- What's programming language and database people need to learn
- What's platform or skills company needs to be aware of
- The ratio of respondent age, gender and country in this survey.

# METHODOLOGY

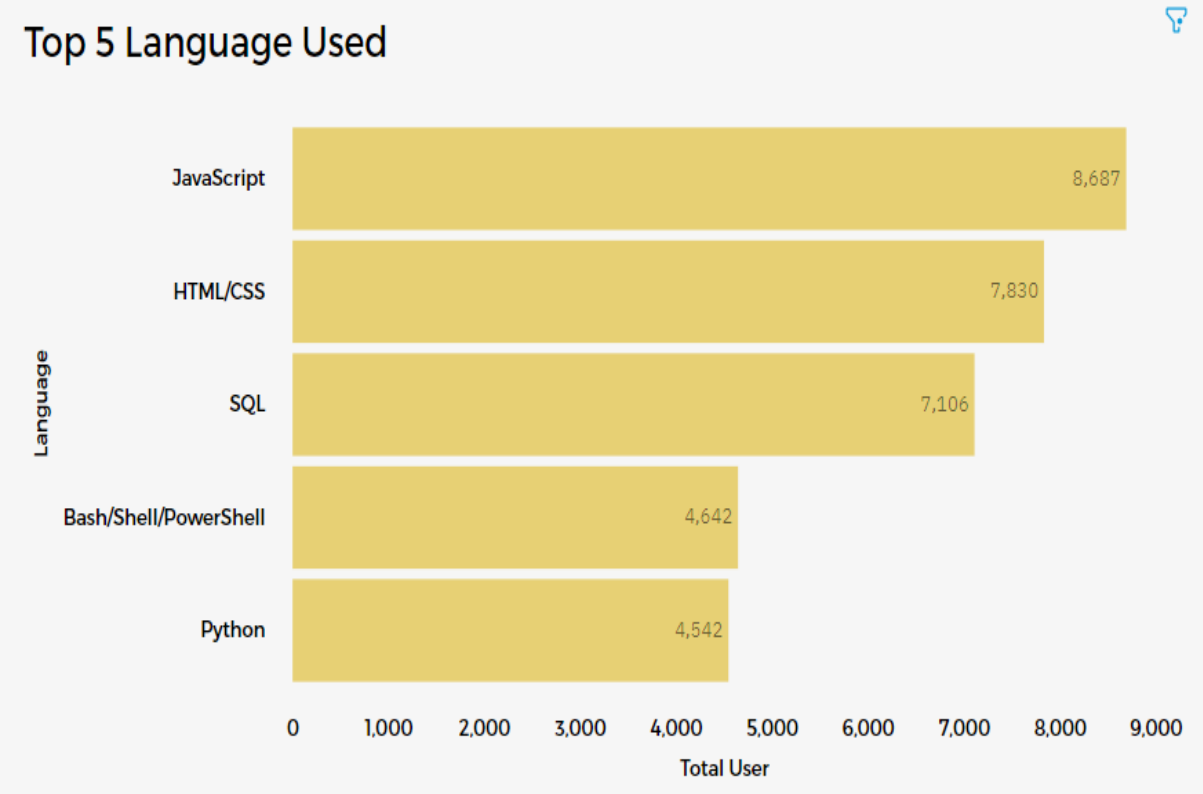
- Data is collected from people around the world from a survey on stack overflow website
- Data Sources is stack overflow
- Data is valid by sources
- We have used 1/10 of stack overflow data 2019
- We have organized it on our local computer

# RESULTS

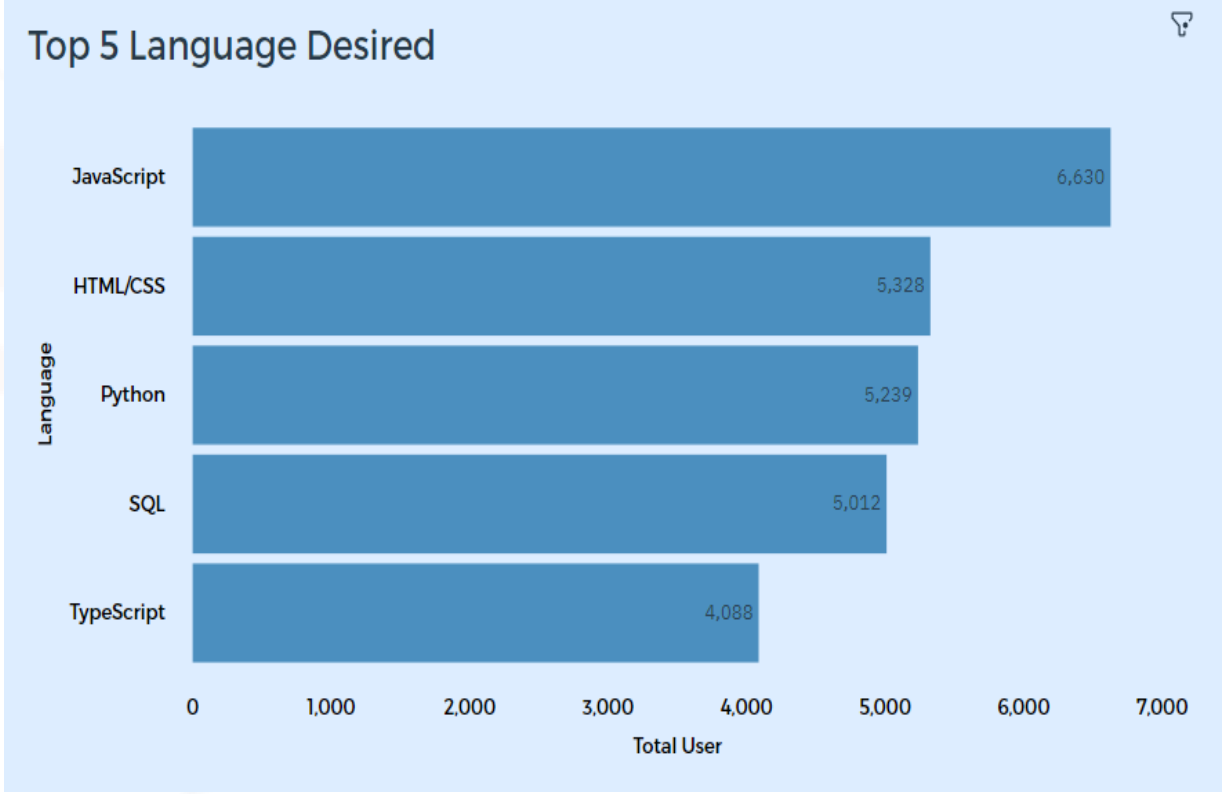
- About The Dataset
- How Data Prepared in this analysis
- What Data Analysis Method used?
- Which Type of Data Visualization
  - IBM Cognos
  - Mathplotlib

# PROGRAMMING LANGUAGE TRENDS

## Current Year




## Next Year



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

## Findings

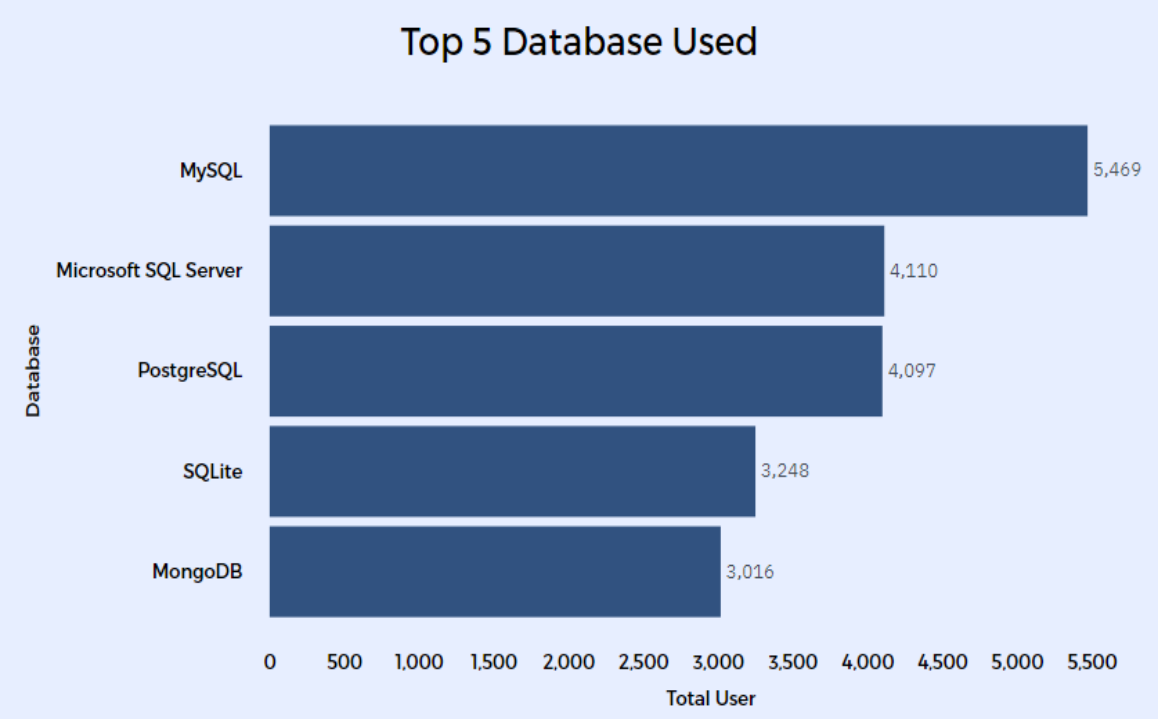
- JavaScript is most used and desirable language
- JavaScript, HTML/CSS, Python and SQL language are most used and desirable language
- People wants to learn new language like typescript rather than old Bash/shell.

## Implications

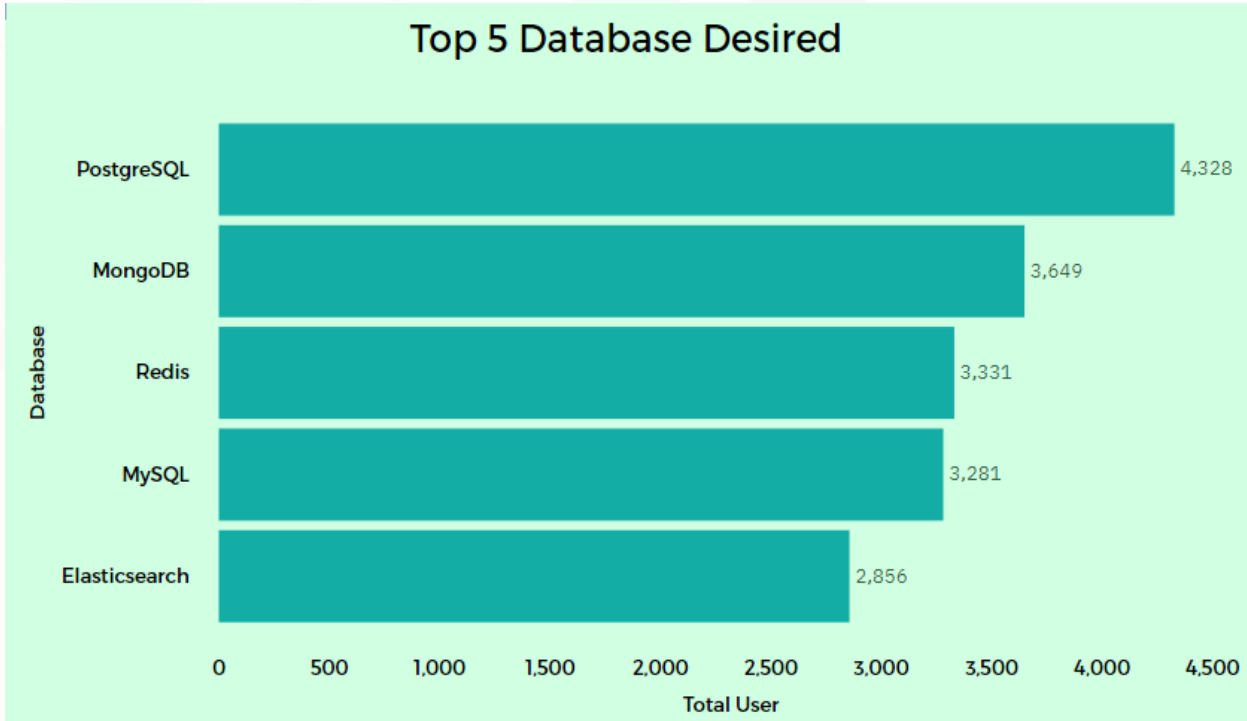
- Bash/shell language will be replaced by typescript language in learning
- As JavaScript, HTML/CSS, Python and SQL language are most popular there could be a rise in web-development in next years

# DATABASE TRENDS

## Current Year




## Next Year



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

## Findings

- MySQL is most used language whereas PostgreSql is most desired database.
- MongoDB, PostgreSql and MySQL are in most used and most desired database.
- People wants to learn new database such as redis and elasticsearch

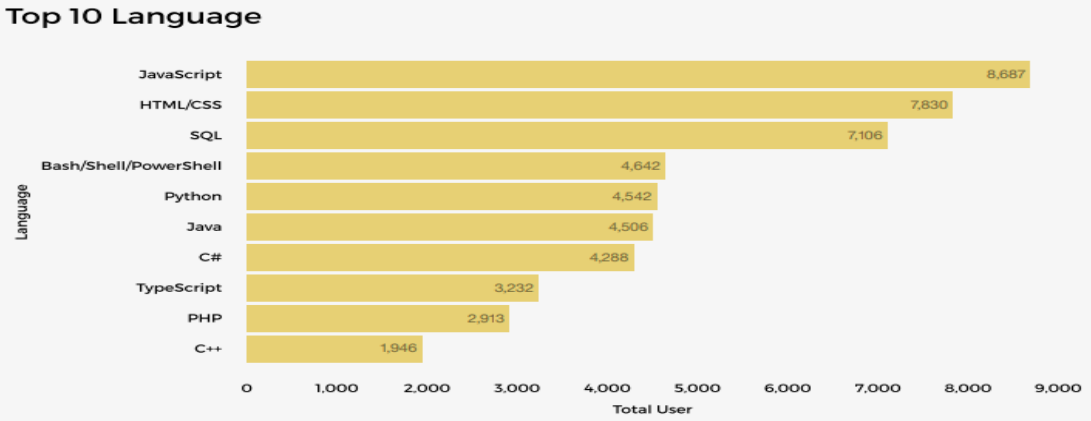
## Implications

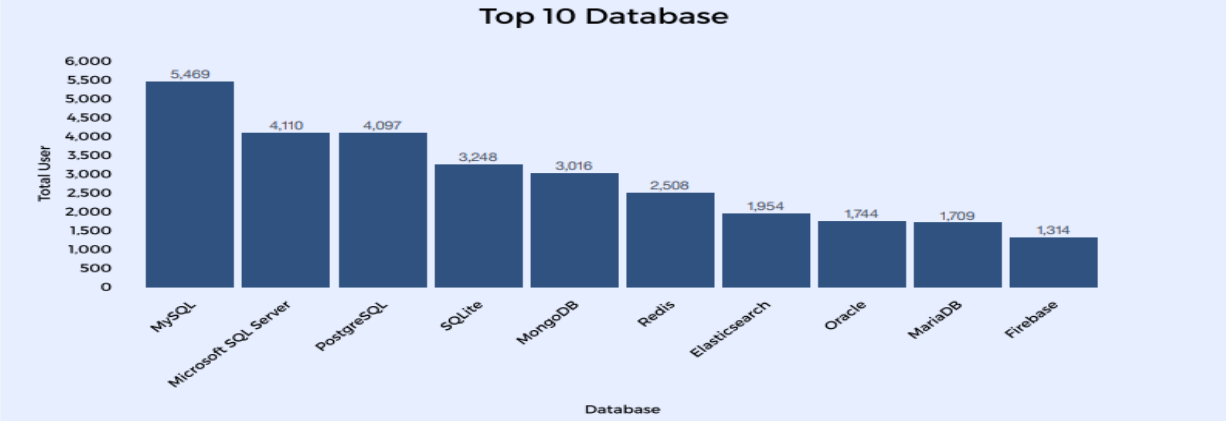
- There could be a huge change in using database
- People could try to use new database rather than old database

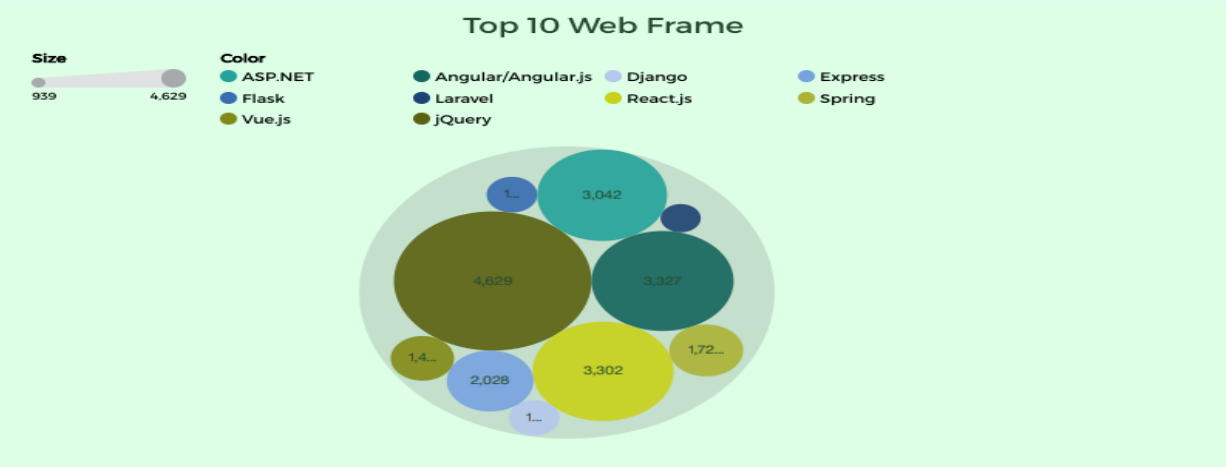
# DASHBOARD

https://eu-gb.dataplatform.cloud.ibm.com/dashboards/fa3759ab-17d8-4415-a074-5acec745d993/view/7524f72907826e924db5e2e4079b28532e627159bbbb830682827b490b627397f03d47c4c82f4d0f8b150d67f7ba1150cf

# DASHBOARD TAB 1



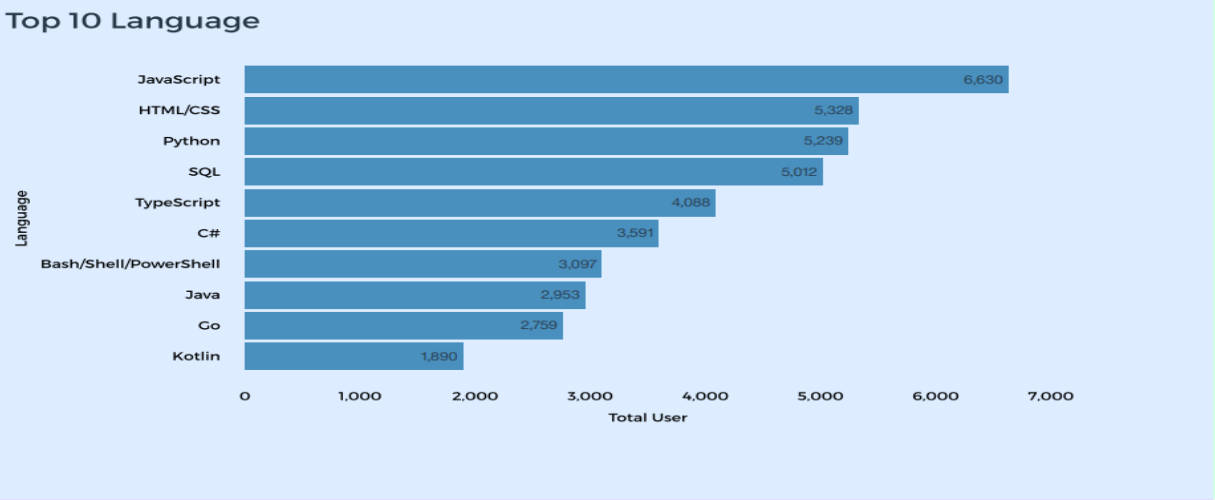



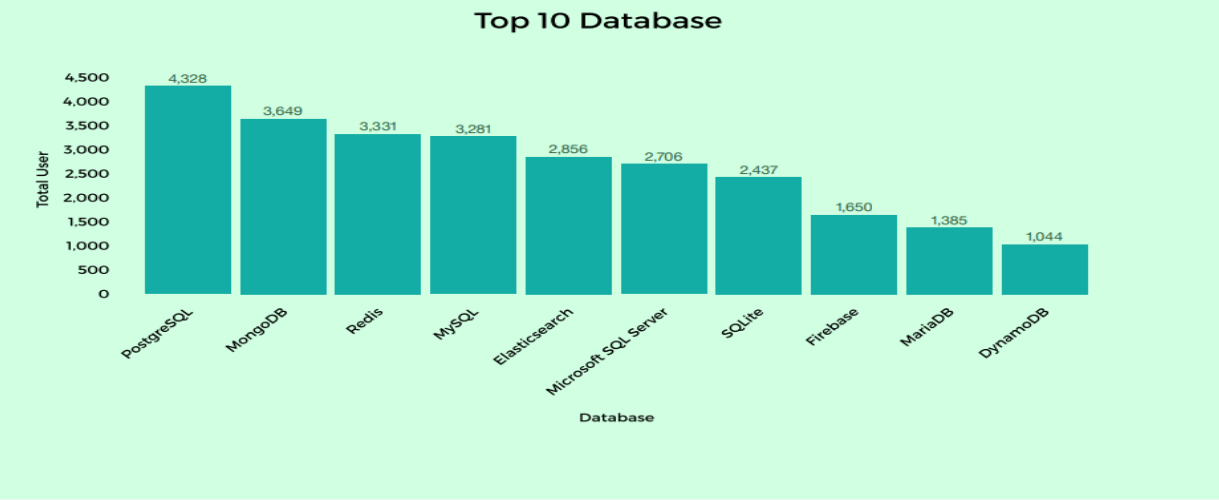


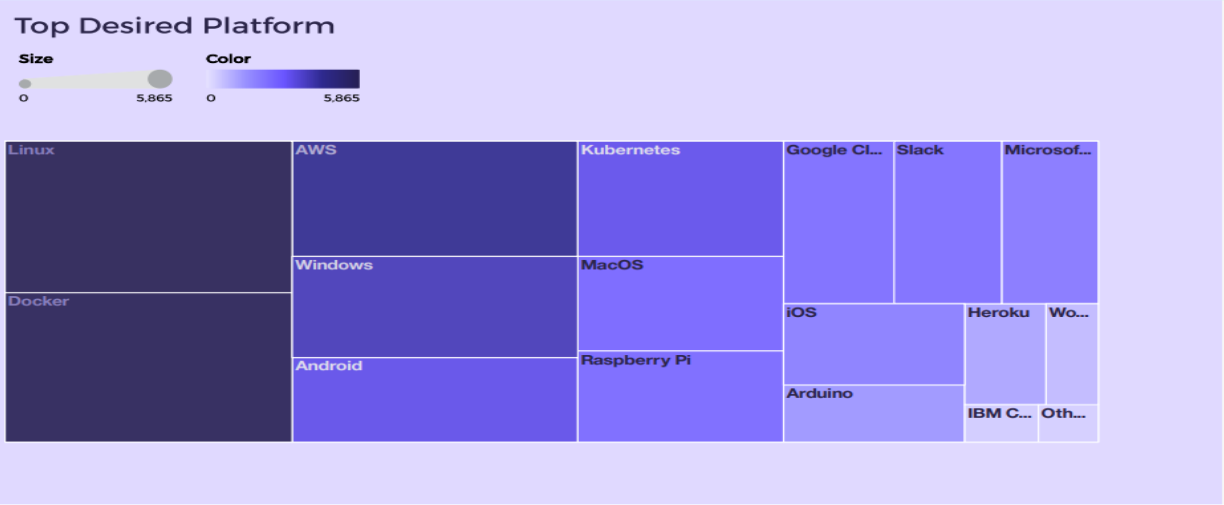

IBM Developer

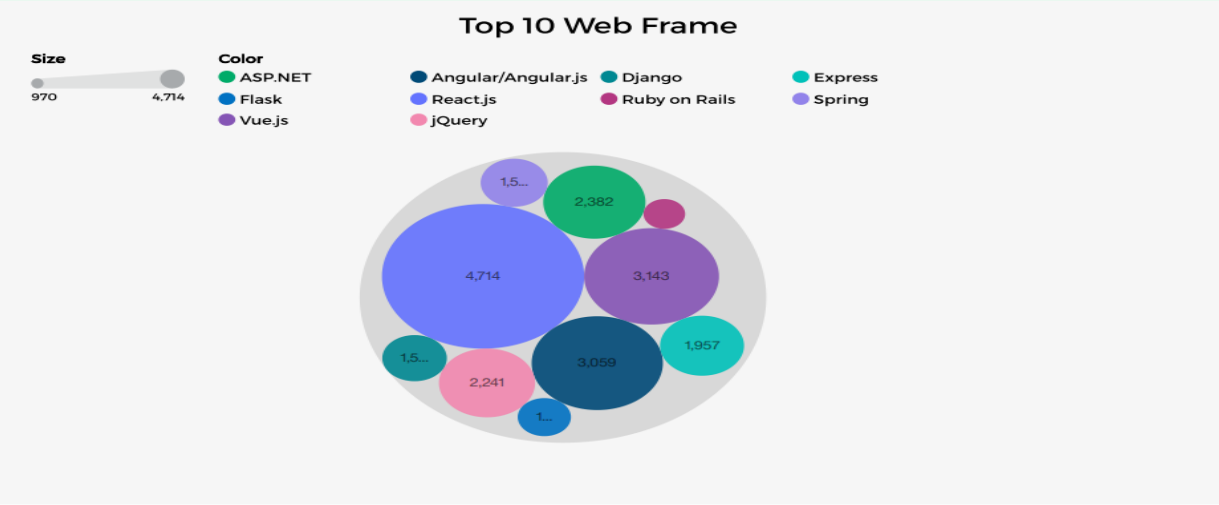
SKILLS NETWORK

# DASHBOARD TAB 2



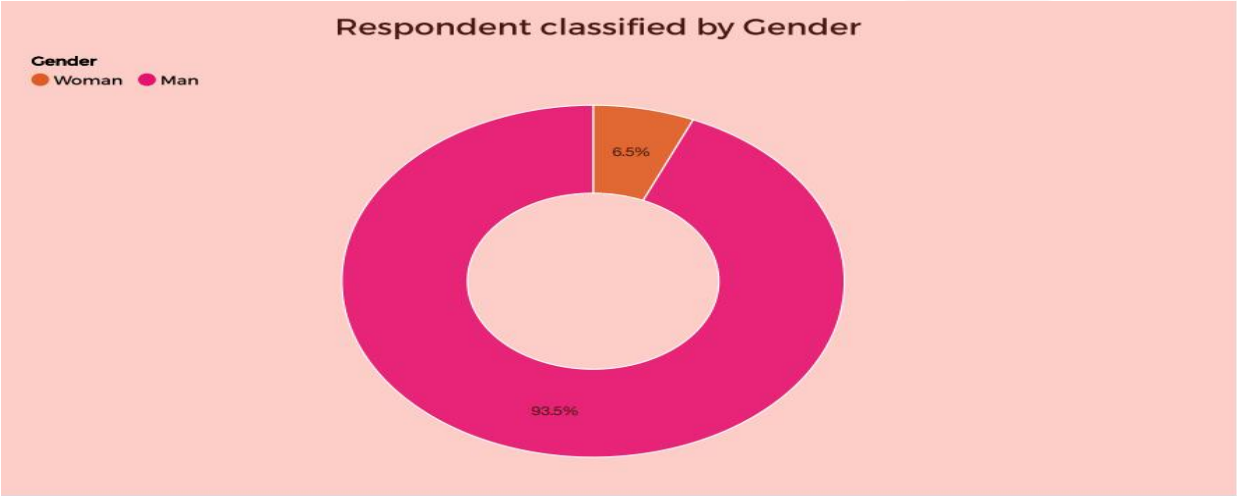



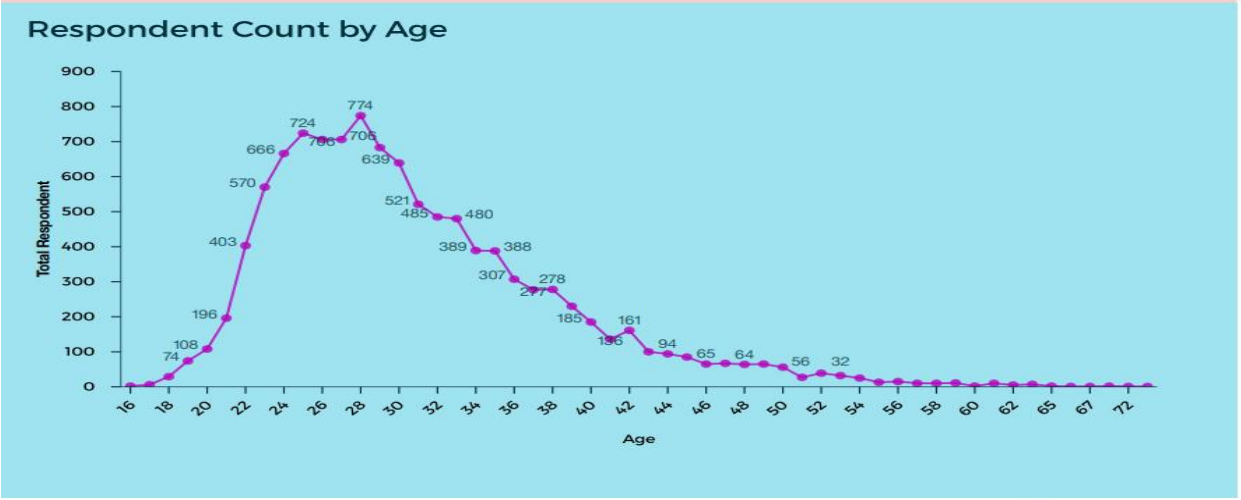



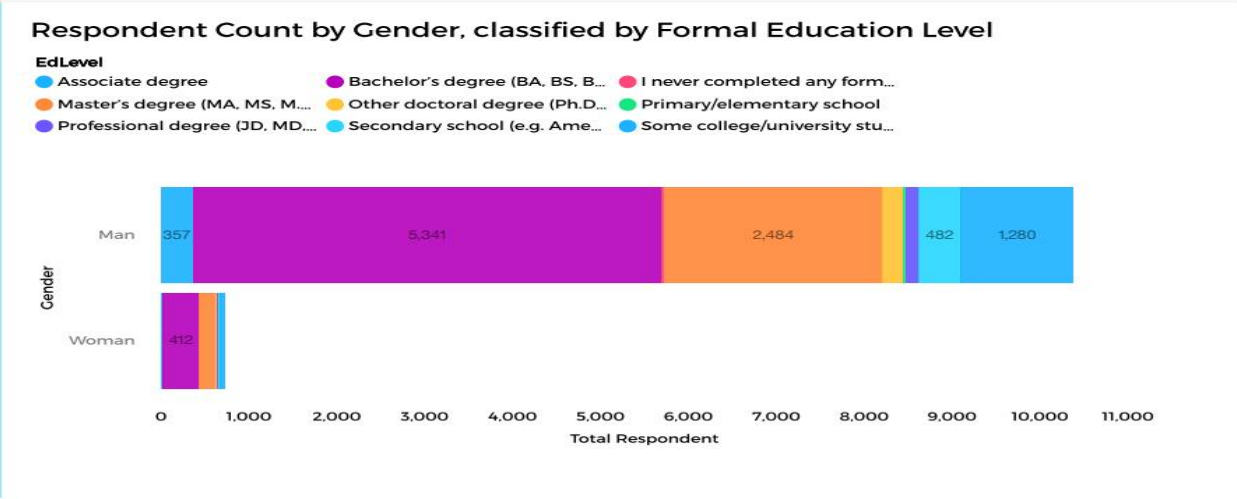

IBM Developer

SKILLS NETWORK

# DASHBOARD TAB 3





# DISCUSSION

- Which Gender and Country has most respondent?
- Which Platform is most popular?
- Which WebFrame will be the future?

# OVERALL FINDINGS & IMPLICATIONS

## Findings

- Most of the respondent are male and country is USA and Have Bachelor degree.
- Linux is most used and Desired Platform
- Most of the People using jQuery as webframe and Desire ReactJs most.

## Implications

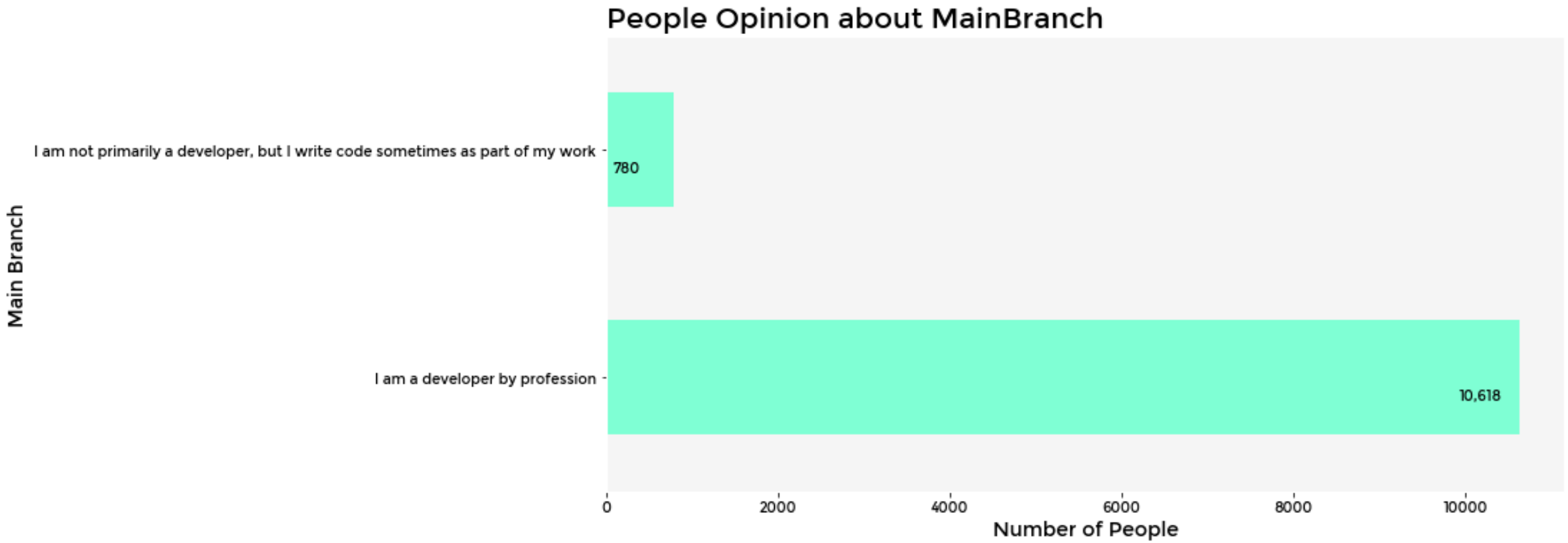
- The more people aged the more they don't want to participate in survey!
- The desire of javascript and it's library or framework is increasing.

# CONCLUSION

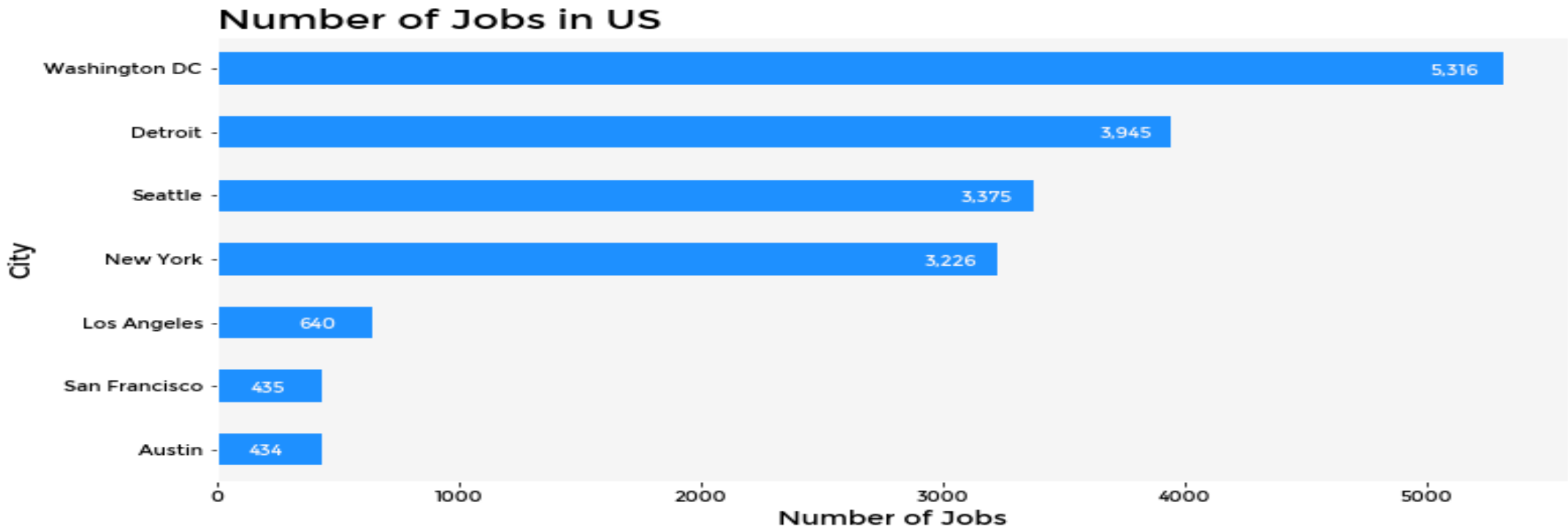
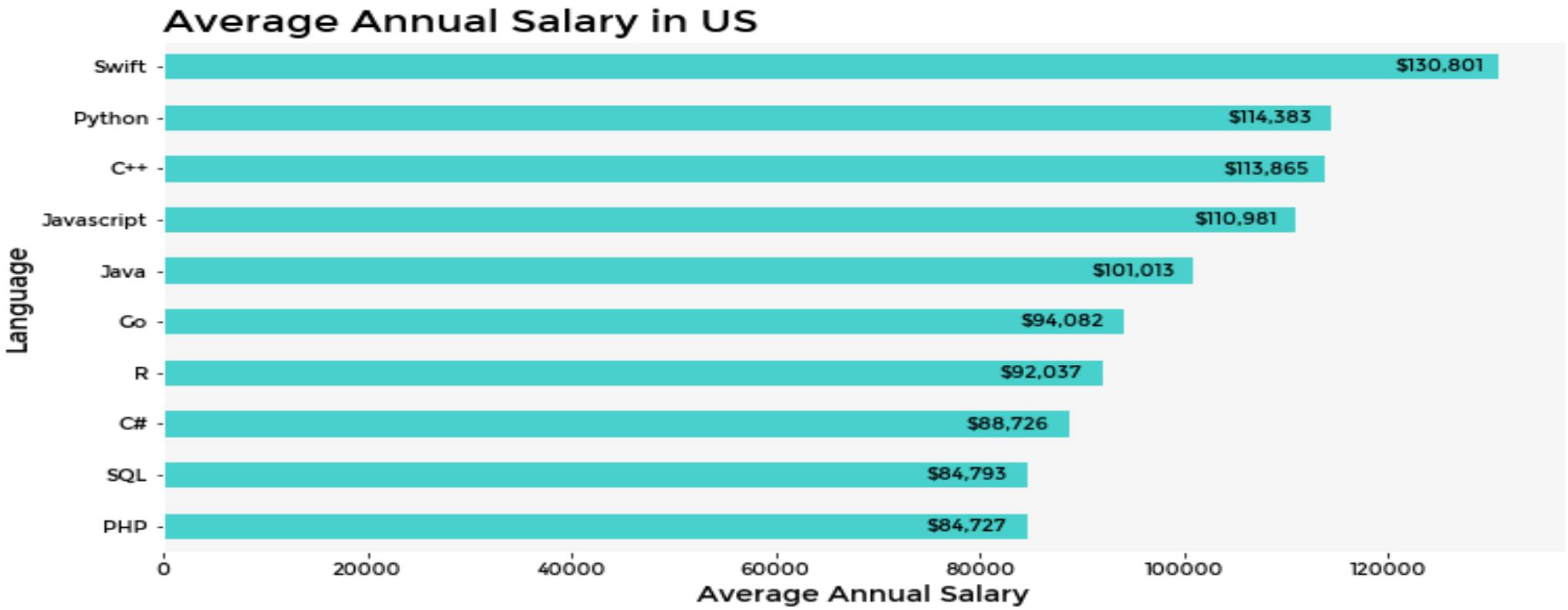
- Student should learn javaScript and it's library and framework.
- Docker is gaining more popularity where windows doing the opposite.
- The learning of new technology rather than the old technology is increasing.
- NoSQL is desired most than the SQL

# APPENDIX

## People Opinion about their Main Branch



# JOB POSTINGS



# POPULAR LANGUAGES