



<Stack Overflow Developer Survey 2019 Analysis>

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OUTLINE



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

EXECUTIVE SUMMARY



- Stack Overflow Developer Survey of 2019 data analyzed
- Top 3 most used programming language
 - JavaScript
 - HTML/CSS
 - SQL
- Top 3 most used RDBMS
 - MySQL
 - Microsoft SQL Server
 - Postgre SQL

INTRODUCTION



- Programming language trends
 - Findings & Implications
- DBMS trends
 - Findins & Implications
- 3 Dashboards

METHODOLOGY

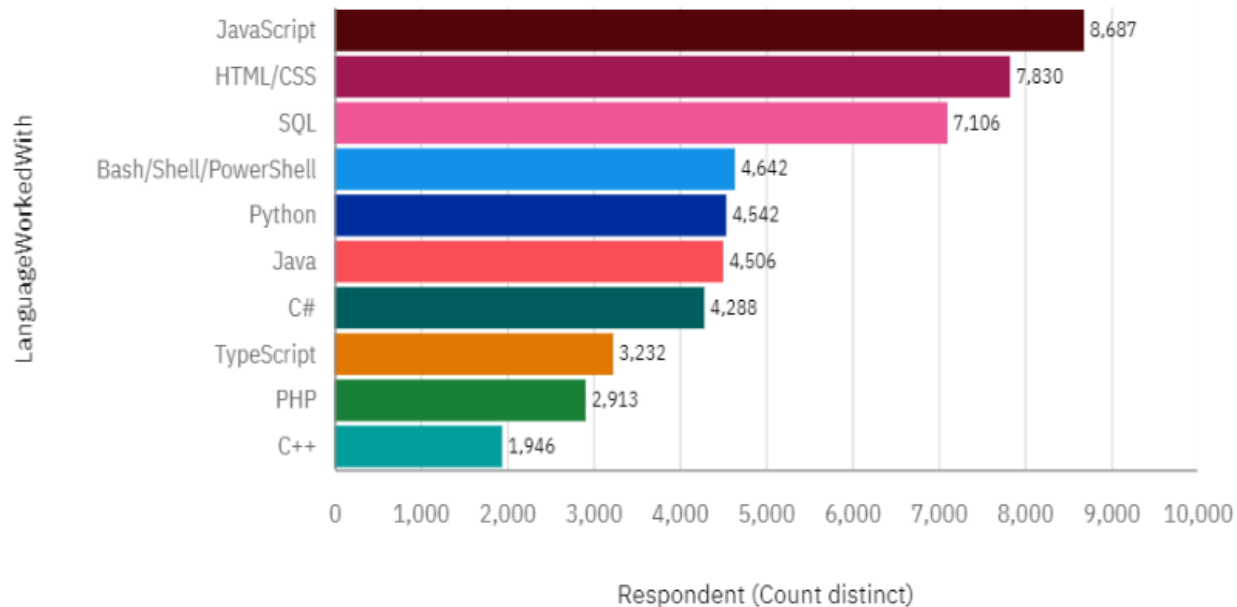


- Data Source from Stack Overflow Developer Survey of 2019
 - Format: .CSV
- IBM Cognos Analytics was used to visualize this data.
- Pandas in a Jupyter Notebook was used to clean and organize this data.

PROGRAMMING LANGUAGE TRENDS

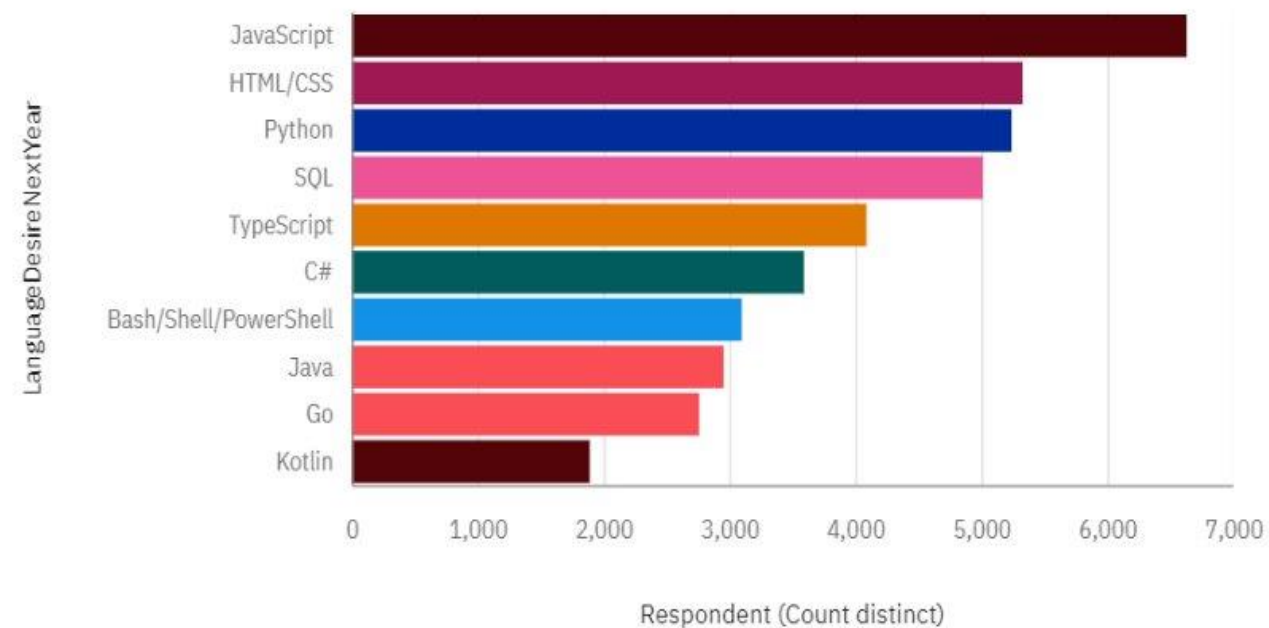
Current Year

Most worked/used programming language by Respondents



Next Year

Most desired programming language for next year by Respondents



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Top 3 most worked with/used languages:
 - JavaScript, HTML/CSS & SQL
- TOP 3 most desired languages for next year:
 - JavaScript, HTML/CSS & Python

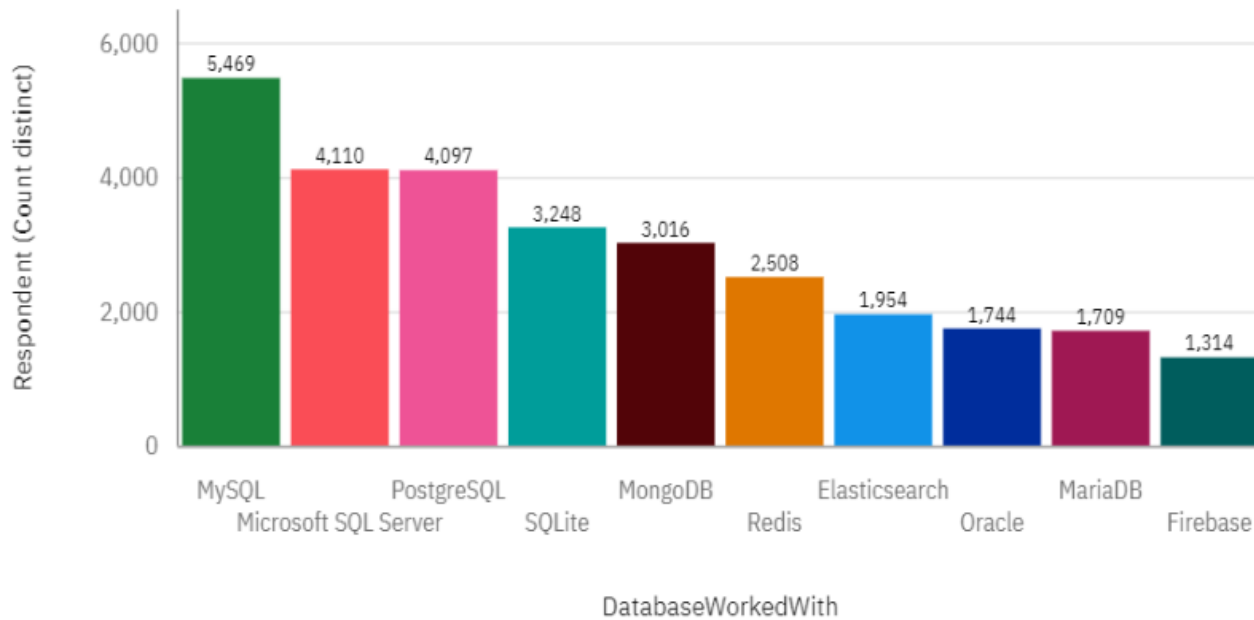
Implications

- JavaScript, HTML/CSS and SQL are the most popular programming languages and still remains next year.
- Python shows to be the fastest growing desired programming language.

DATABASE TRENDS

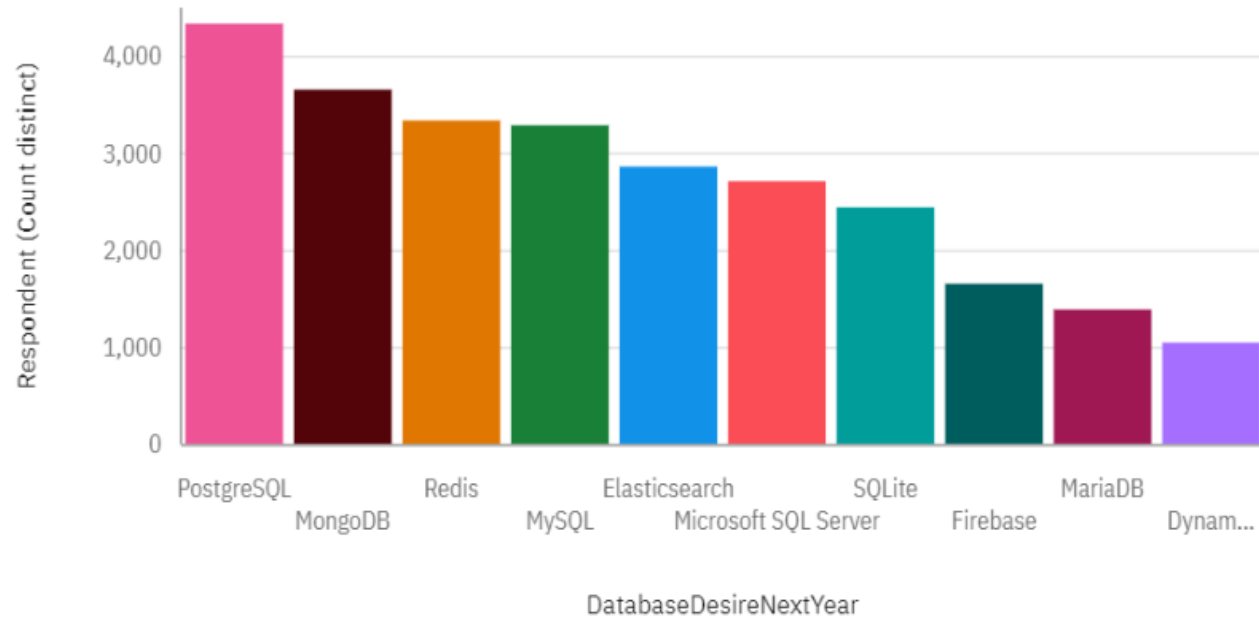
Current Year

Most worked/used DBMS by Respondent



Next Year

Most desired DBMS for next year by Respondents



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Top 3 DBMS:
 - MySQL, Microsoft SQL Server, PostgreSQL
- Top 3 desired DBMS for next year:
 - PostgreSQL

Implications

- PostgreSQL & MySQL keeps relevancy.
- MongoDB & Redis shows to be the fastest growing desired DBMS

DASHBOARD

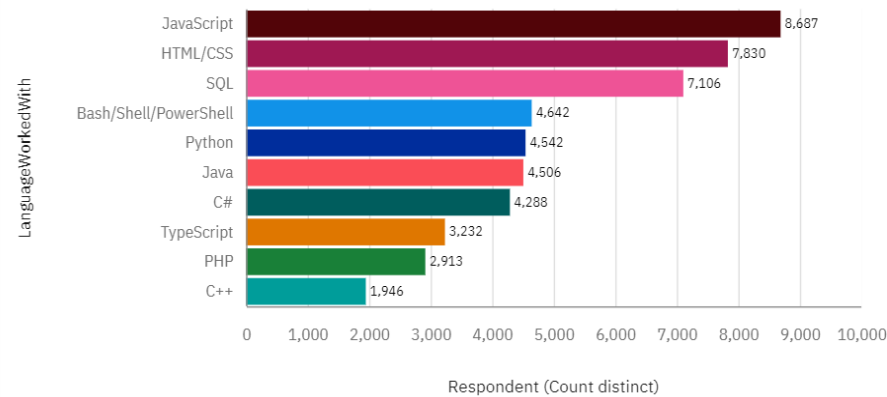


<https://github.com/2-Shy/Peer-Graded-Assignment-Building-a-dashboard-with-IBM-Cognos-Analytics.git>

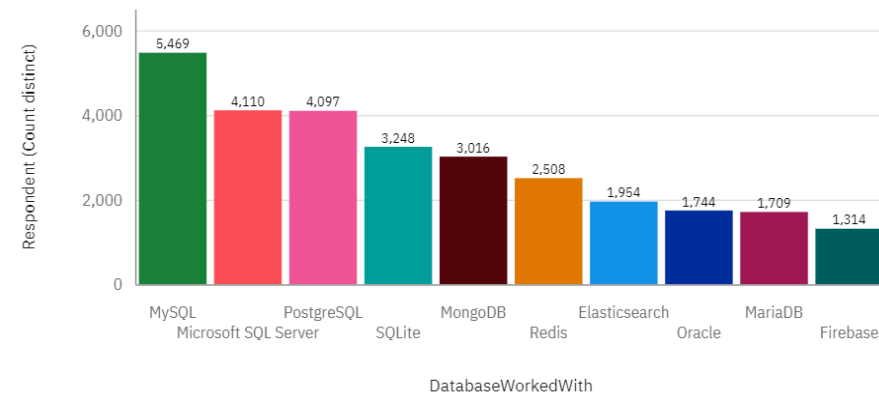
DASHBOARD TAB 1

Current Technology Usage

Most worked/used programming language by Respondents



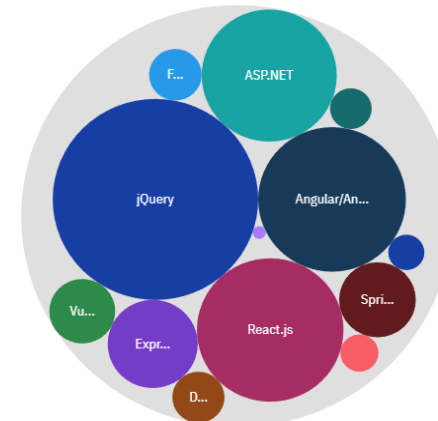
Most worked/used DBMS by Respondent



Most worked/used platform by Respondents



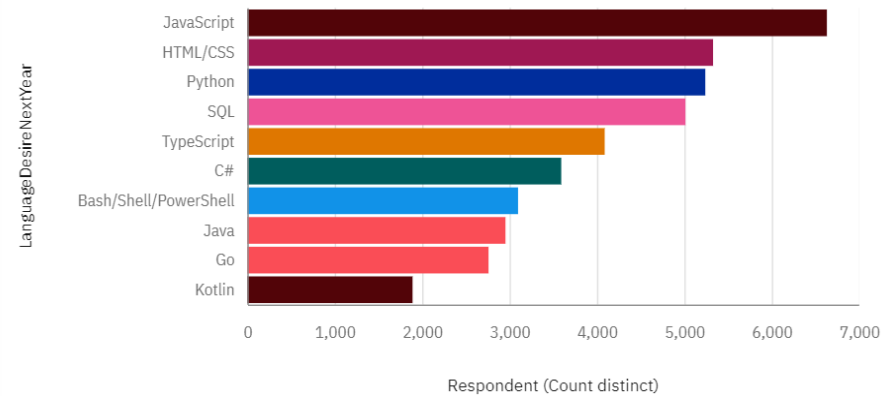
Most worked/used WebFrame by Respondents



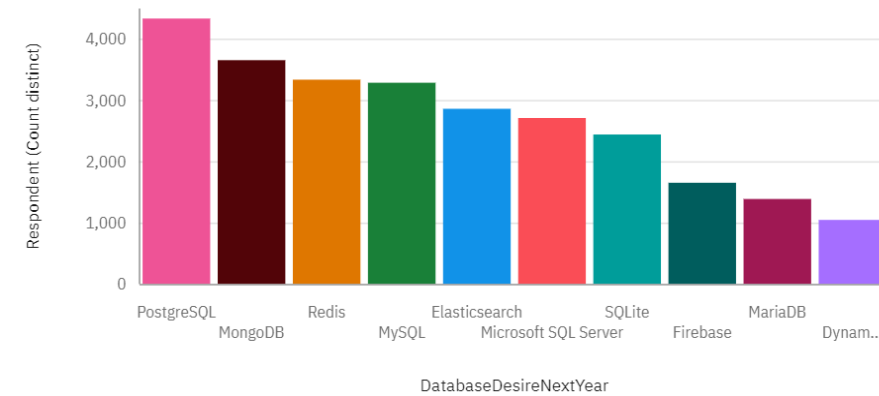
DASHBOARD TAB 2

Future Technology Trend

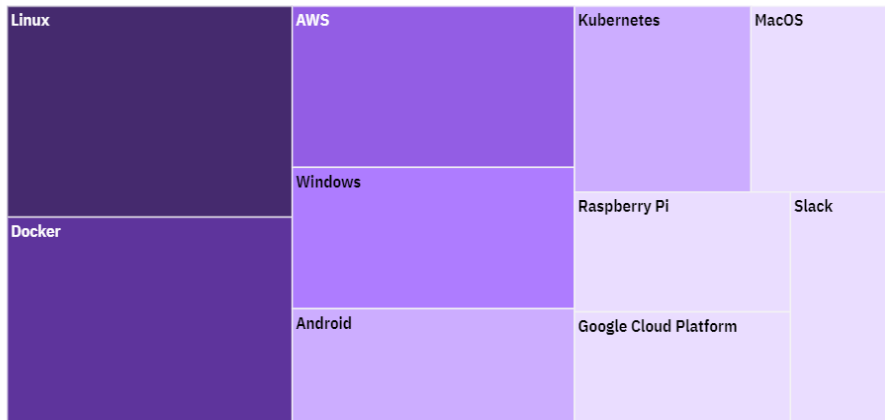
Most desired programming language for next year by Respondents



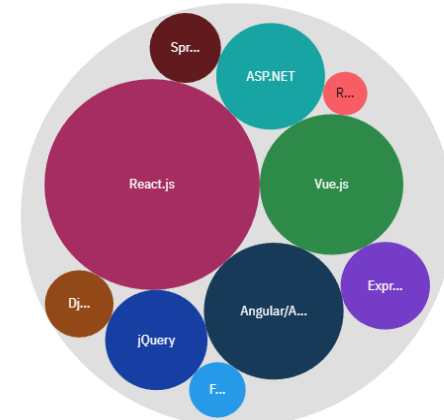
Most desired DBMS for next year by Respondents



Most desired Platform for next year by Respondents



Most desired WebFrame for next year by Respondents

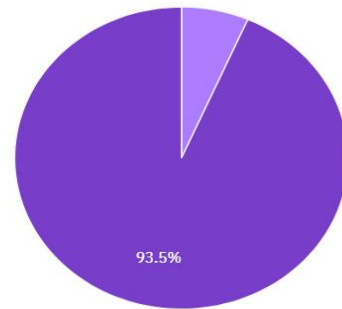


DASHBOARD TAB 3

Demographics

Respondent by Gender

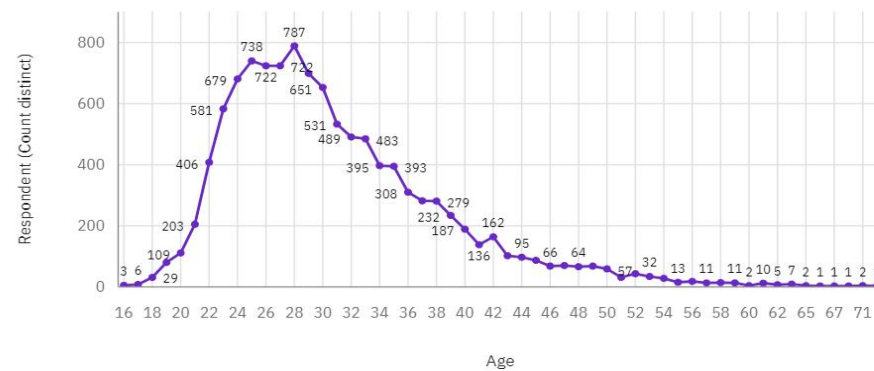
Gender
● Woman ● Man



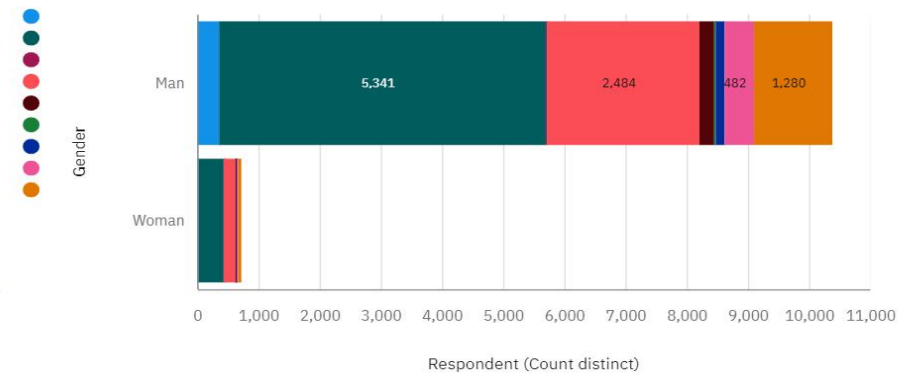
Respondent count for Countries



Respondent by Age



Respondent by Gender classified by Formal Education Level



DISCUSSION

- Age range of respondents:
 - 25 – 35
- 93% of respondents are male.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Age group: 25- 35
- Male dominated

Implications

- ?
- 93,5% are male

CONCLUSION



- JavaScript & SQL are good-to-go for learning.
- Market is male dominated
- Linux is good-to-go for learning.