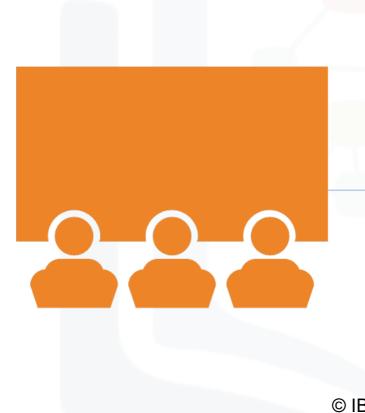


Analysis of Stack Overflow Users Kacper Sienkiewicz 15/03/2024

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OUTLINE



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

EXECUTIVE SUMMARY



- Go and Elixir is on the rise
- Elasticsearch is massively on the rise
- Platforms are fairly stagnant. The top is still desirable to learn.
- Angular is popular and is still desirable
 - React is on the rise, and Jquery's popularity is waning
- Most respondents were young Males with either a Bachelor's or Master's Degree

INTRODUCTION



- Stack Overflow is home to the most popular programming forum on the internet
 - Plenty of developers use it as a source
- Analyzing their position and desires can help you figure out the direction of programming.

METHODOLOGY



- Data is derived from two csv files from Stack Overflow's survey
 - 1 is demographic data
 - 2 is normalized technical data
- Cognos Analytics was used to probe and visualize the data.

RESULTS

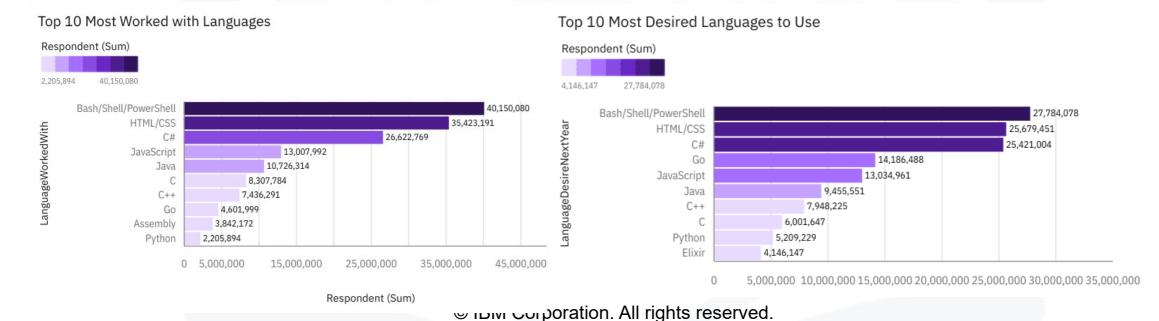
Many desired and current technologies lined up but there were a few outliers.

Most Stack Overflow users were young male college graduates.

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

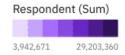
- Bash/Shell have a smaller desired than current number
- Go, Elixir, Python on the rise

Implications

- Bash/Shell interest and work may be declining
- Go, Elixir, and Python may be a fad or big

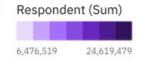
DATABASE TRENDS

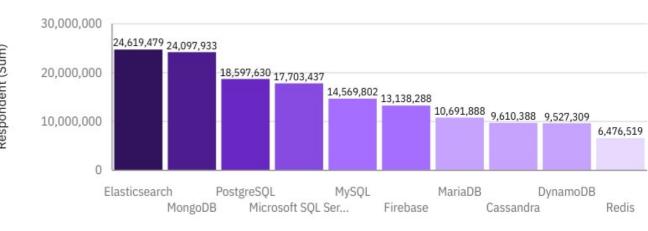
Current Year





Next Year





DatabaseDesireNextYear

DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Elasticsearch and MongoDB have much larger desired than current numbers
- MS SQL Server and My SQL have smaller desired than current © IBM Corporation. All rights reserved.

Implications

- Elasticsearch/MongoDB are on the rise
- MySQL/MS SQL are on the decline.

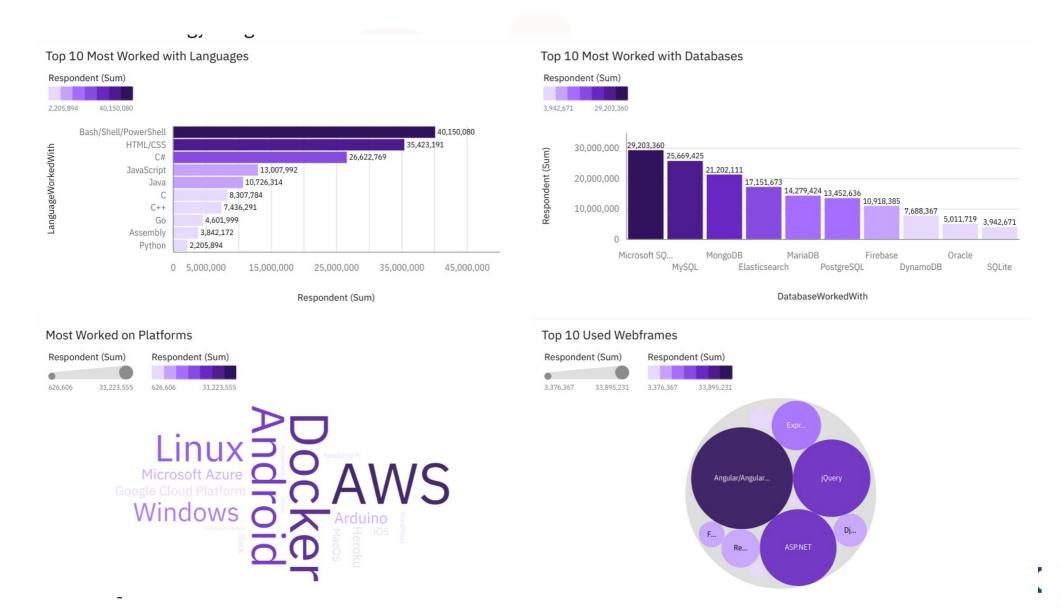
numbers

DASHBOARD



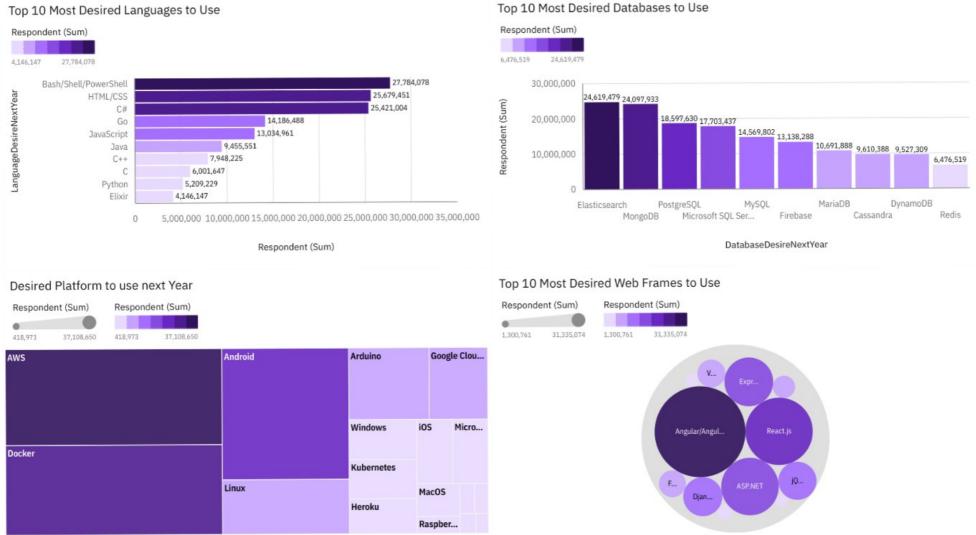
 https://github.com/ kacpersienkiewicz/IBM-Capstone-Project/tree/main/IBM%20Cognos %20Dashboard

Current Technology Usage

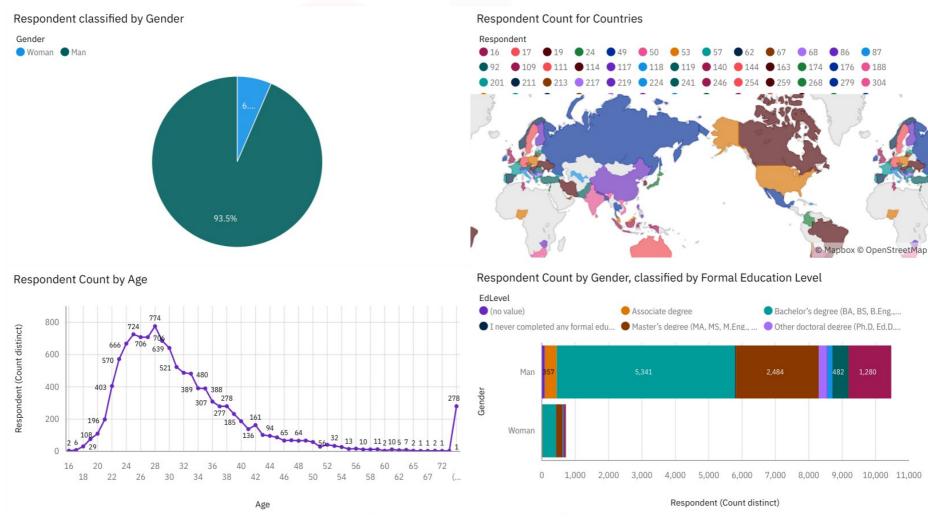




Future Technology Trends



Demographics







DISCUSSION



- The platforms seem stagnant.
- Angular is popular now and is likely to be in the future.
- Demographics are varied geographically.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Most fields are stagnant aside from a few outliers.
- Most respondents are college Graduate young males

Implications

- Outliers like Go, Elasticsearch and MySQL should be kept tabs on
- We do not have much insight into older and © IBM Corporation. All rights reserved.

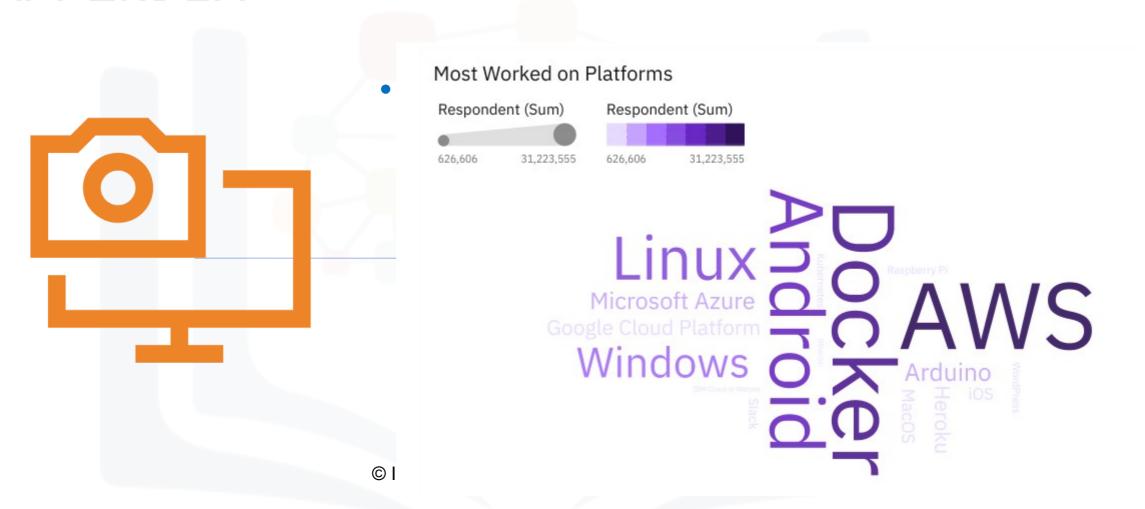


CONCLUSION

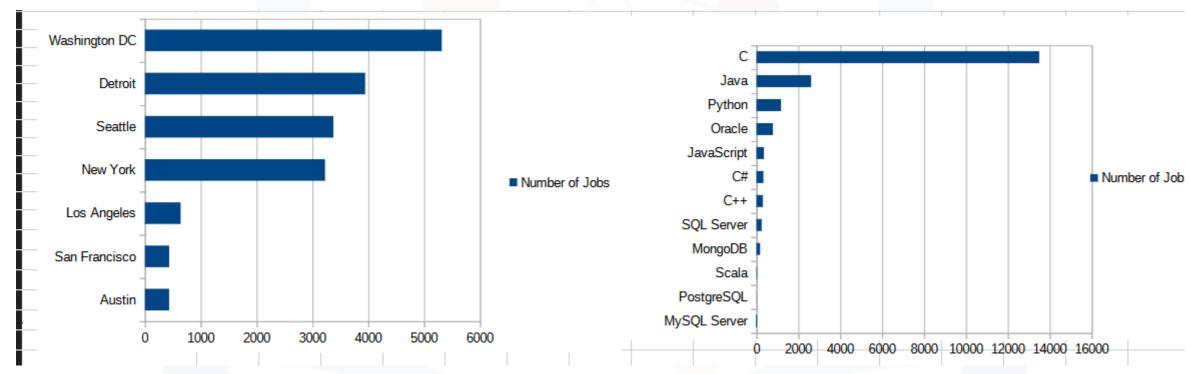


- · Go, Elasticsearch, Elixir, and MongoDB may explode in popularity
- Bash/Shell/PowerShell, MySQL, and MS SQL Server may decline
- More data needs to be gathered specifically on hobbyist, older, and female developers.

APPENDIX



JOB POSTINGS Organized by Location and Language





POPULAR LANGUAGES

