

Capstone Project

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OUTLINE



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EXECUTIVE SUMMARY



- Top 10 Software Languages
- Top 10 Databases
- Top 10 Platforms
- Top 10 Web Frames
- Top 10 trending Languages next year
- Top 10 trending Databases next year
- Top 10 trending Platforms next year
- Top 10 trending Web Frames next year

INTRODUCTION



- The dataset used was the Stack Overflow Developer Survey 2019
- Why? It is one of the largest developer focused open collaboration platforms currently in use
- Through our study we intend to answer some very interesting questions:
 - Top Current Technologies currently in use
 - Future Technology Trends
 - Current Demographics

METHODOLOGY

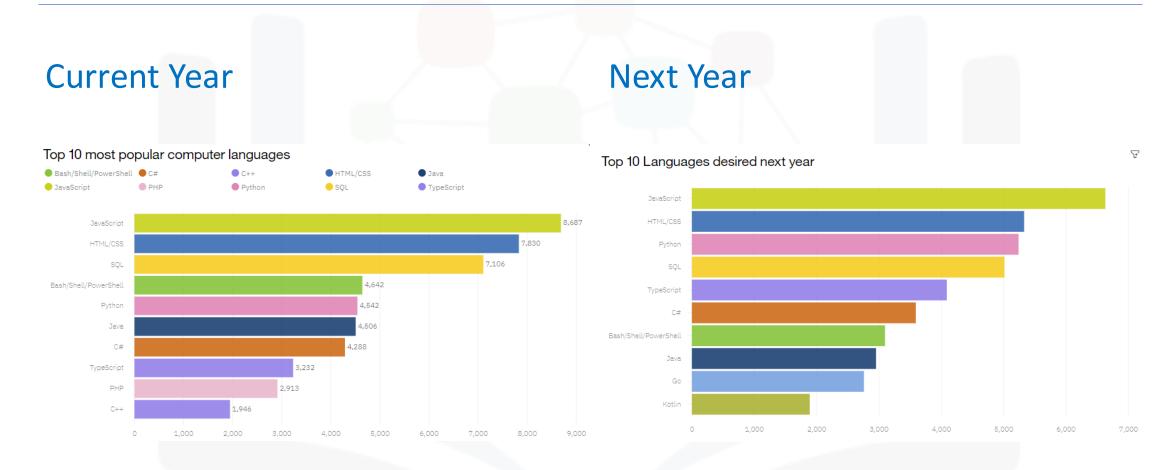


- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world
- 90,000 developers took a 20-minute survey
- Survey was taken in 2019
- Top 5 sources of respondents were
 - Onsite messaging
 - Blog posts
 - **Email lists**
 - Meta posts
 - Banner ads
 - Social media posts

RESULTS

- Over 90% of all coders/programmers are men
- The United States dominates the Technology Sector
- Most programmers are under the age of 40

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

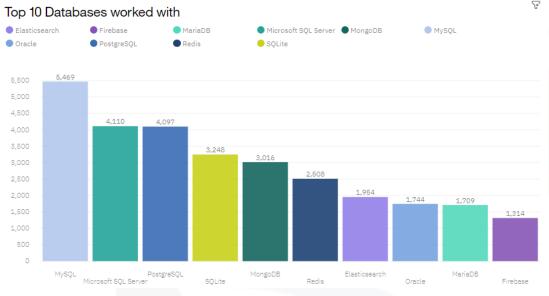
- JavaScript is currently the most popular language
- HTML/CSS remains at number 2 followed by SQL

Implications

- Python will surpass SQL next year
- Go and Kotlin are gaining in popularity
- SQL is decreasing in popularity

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL is the most popular database
- SQL Server and PostgreSQL are number 2 and 3

Implications

- PostgreSQL will become the most popular database
- MongoDB and Redia are increasing in popularity
- MySQL and Microsoft SQL Server are losing popularity

DASHBOARD



https://eu-

de.dataplatform.cloud.ibm.com/dashboards/5c9608d8-

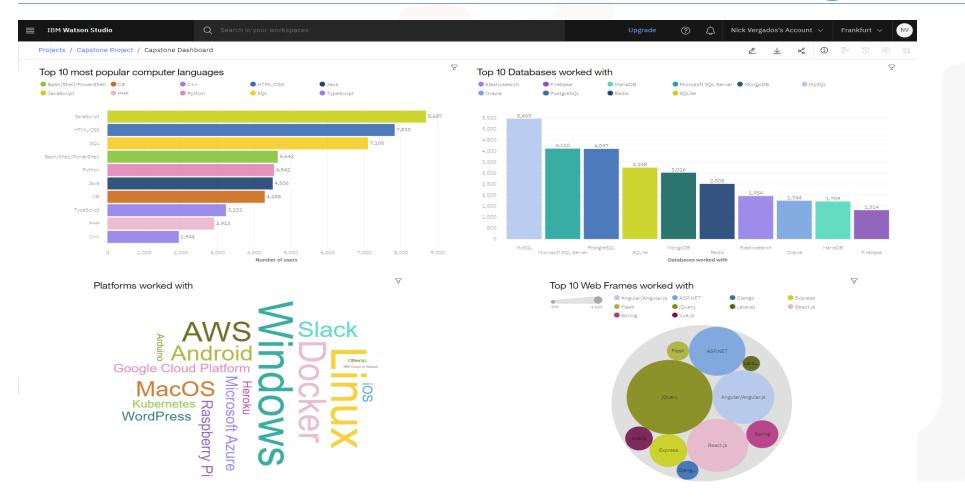
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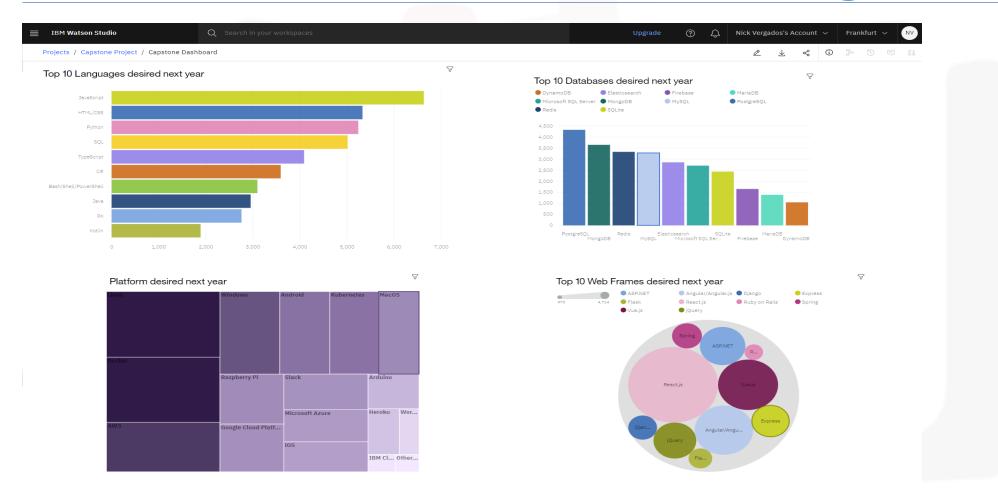
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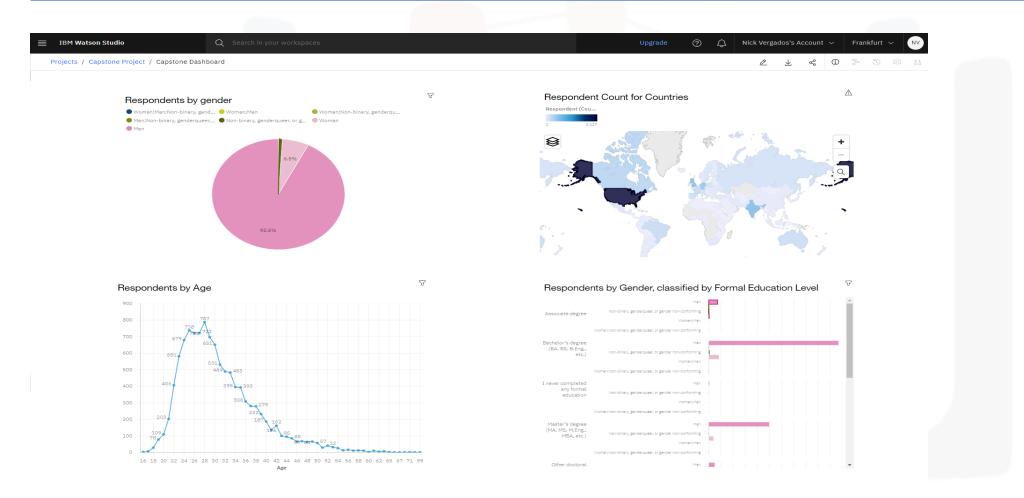
DASHBOARD Current Technology Usage



DASHBOARD Future Technology Trend



DASHBOARD Demographics



DISCUSSION



- Cognos Analytics is used to visualize the data
- Data was provided in Csv format
- Data converted into excel format to clean and analyze data

OVERALL FINDINGS & IMPLICATIONS

Findings

- The overwhelming majority of respondents were MEN
- Most were from the United States
- Most were between the ages of 22-35

Implications

 Young men from the United States will continue to dominate the technology sector

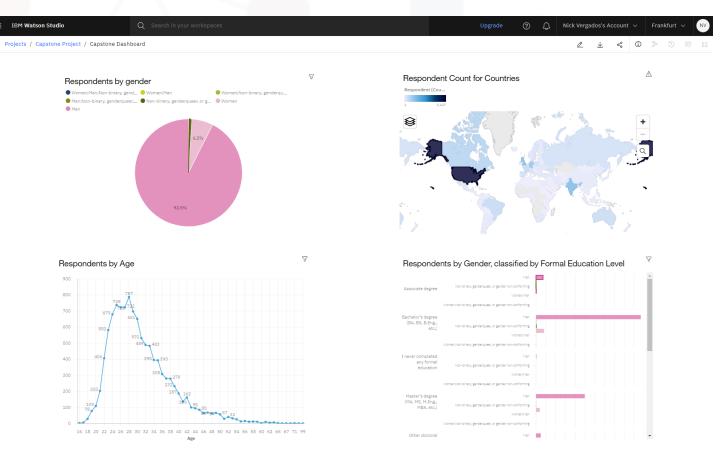
CONCLUSION



- JavaScript still is the most popular language, and will be next year
- PostgreSQL will be the most popular database next year
- Linux will be the most desired platform next year
- The majority of the Technology workforce will be young American men aged 22-35

APPENDIX

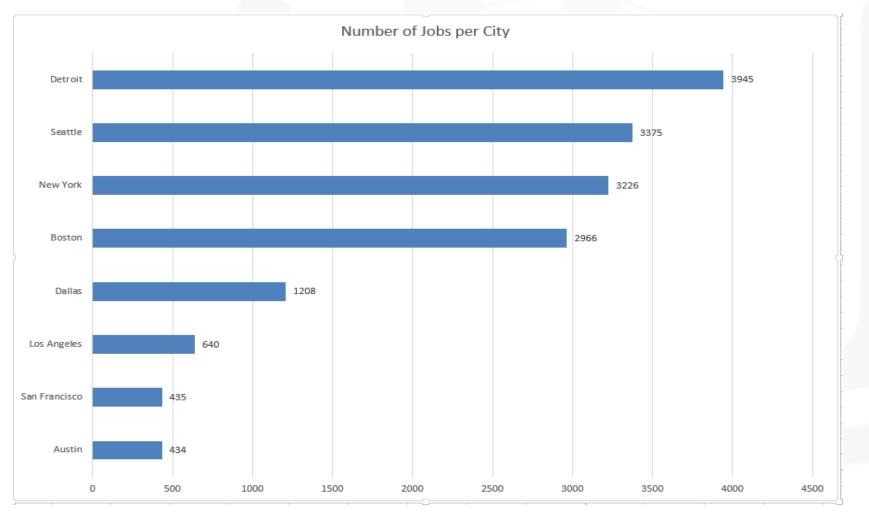








JOB POSTINGS



POPULAR LANGUAGES

