

OUTLINE



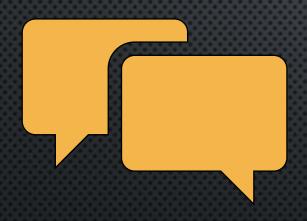
- EXECUTIVE SUMMARY
- Introduction
- METHODOLOGY
- RESULTS
 - VISUALIZATION CHARTS
 - Dashboard
- Discussion
 - FINDINGS & IMPLICATIONS
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EXECUTIVE SUMMARY



- JAVASCRIPT IS THE MOST USED AND DESIRED PROGRAMMING LANGUAGE
- POSTGRESQL AND MONGODB ARE FORECASTED TO BE THE MOST POPULAR DATABASES
- THE PROGRAMMING FIELD IS DOMINATED BY YOUNG, EDUCATED, MALE WORKERS
- THE TOP POPULAR PLATFORMS ARE CONSISTENTLY LINUX, WINDOWS, AWS, AND DOCKER
- REACT.JS OVERTOOK IQUERY AND OTHER WEBFRAMES AS MOST DESIRED

INTRODUCTION



- This report summarizes findings from the StackOverflow Developer Survey results for 2019
- This report is for people interested in learning about the popularity of specific languages, platforms, WebFrames, and databases
- This report juxtaposes current and forecasted datasets to provide trends and forecasts
- This report could be used for careers
 - Employers learn what databases and tools to provide
 - Employees learn which languages are desirable to learn

METHODOLOGY



- Data was taken from StackOverflow Developer
 2019 Survey and compiled into a database
- Null values were removed from survey results
- THE TOP RESULTS FROM THE SURVEY DATA WAS HIGHLIGHTED
- Data was displayed in graphs of different formats
 - GRAPHS WERE TAILORED TO EACH DATA TYPE FOR MAXIMUM READABILITY
 - A LINK TO A LARGER PDF OF THE GRAPHS IS PROVIDED AS A GITHUB
 LINK

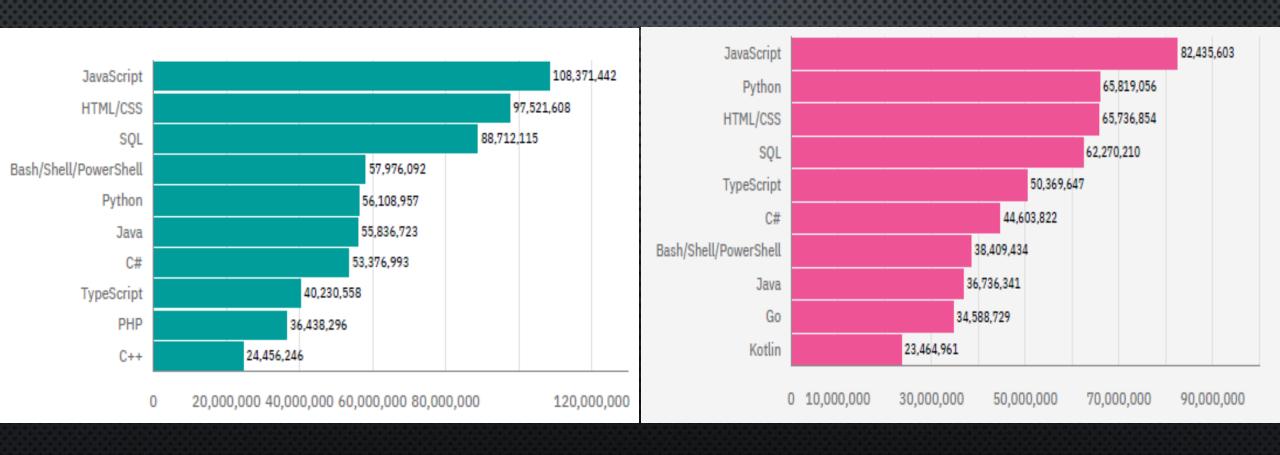
RESULTS



PROGRAMMING LANGUAGE TRENDS

CURRENT YEAR

NEXT YEAR



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

FINDINGS

- JAVASCRIPT: #1 LANGUAGE FOR CURRENT AND FUTURE USE
- HTML/CSS, SQL, JAVASCRIPT, AND PYTHON: IN THE TOP 5 FOR CURRENT AND FORECASTED USE
- BASH/SHELL/POWERSHELL: IN THE TOP 5 FOR CURRENTLY USE, BUT MOVED TO 7TH PLACE IN FORECASTED USE

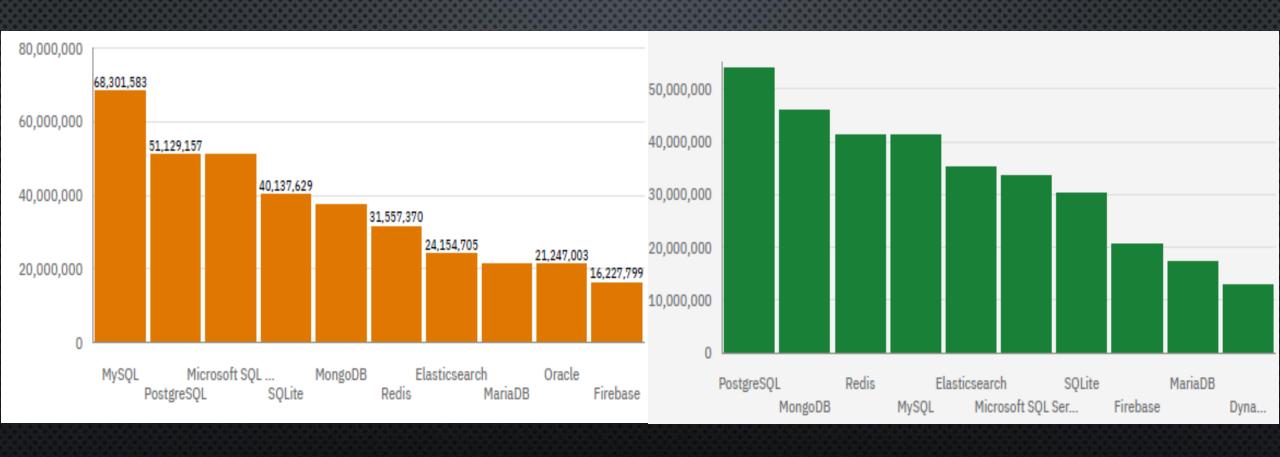
IMPLICATIONS

- JAVASCRIPT IS THE MOST POPULAR LANGUAGE
 AND WILL REMAIN SO NEXT YEAR.
- HTML/CSS, SQL, AND PYTHON
 ARE IMPORTANT LANGUAGES FOR CURRENT AND
 FUTURE USE
- BASH/SHELL/POWERSHELL WILL BE LESS USEFUL IN THE FUTURE

DATABASE TRENDS

CURRENT YEAR

NEXT YEAR



DATABASE TRENDS - FINDINGS & IMPLICATIONS

FINDINGS

IMPLICATIONS

- POSTGRESQL: #2 IN CURRENT DATABASES, #1
 IN FORECASTED
- MYSQL, MICROSOFT SQL, AND SQLITE: ALL IN TOP 5 DATABASES FOR CURRENT USE, BUT DECREASED THEIR RANK IN FORECASTED USE
- MONGODB: #5 IN CURRENT USE BUT FORECASTED TO BE #2

- POSTGRESQL IS A POPULAR DATABASE
 THAT WILL INCREASE TO BE THE MOST USED
 DATABASE
- MONGODB IS QUICKLY BECOMING A WIDELY USED LANGUAGE
- OTHER SQL SERVERS ARE LOSING POPULARILY

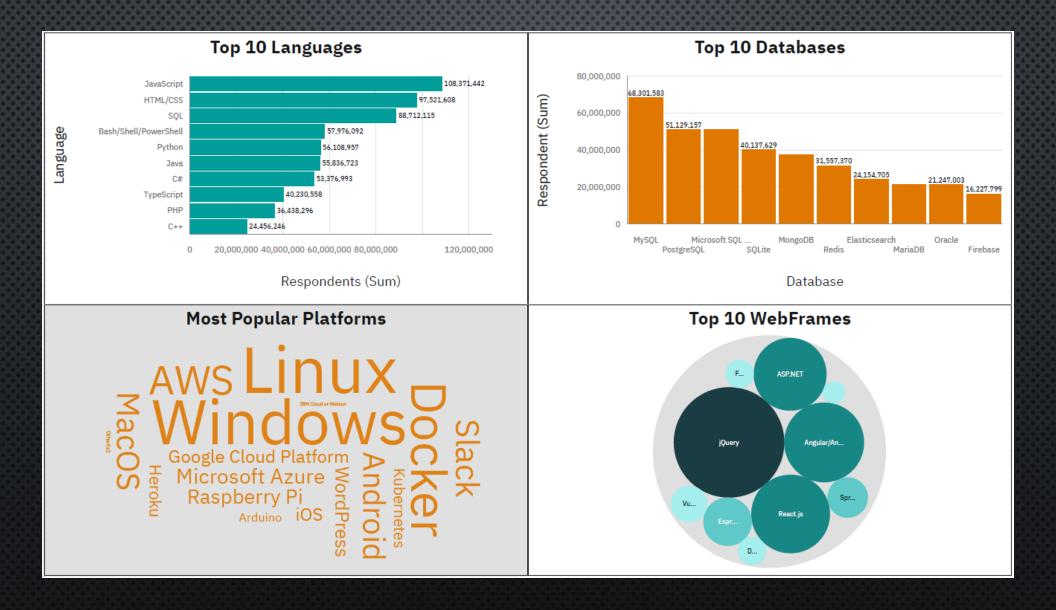
DASHBOARD



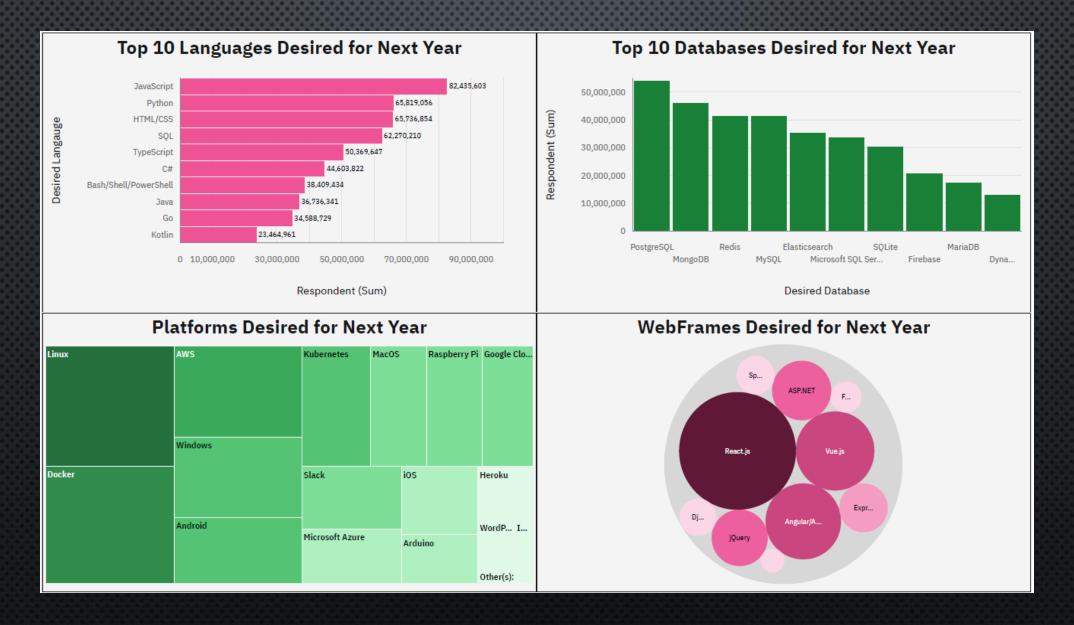
GITHUB LINK:

HTTPS://GITHUB.COM/KANDLEMAS/IBM-PEER-GRADED-ASSIGNMENT

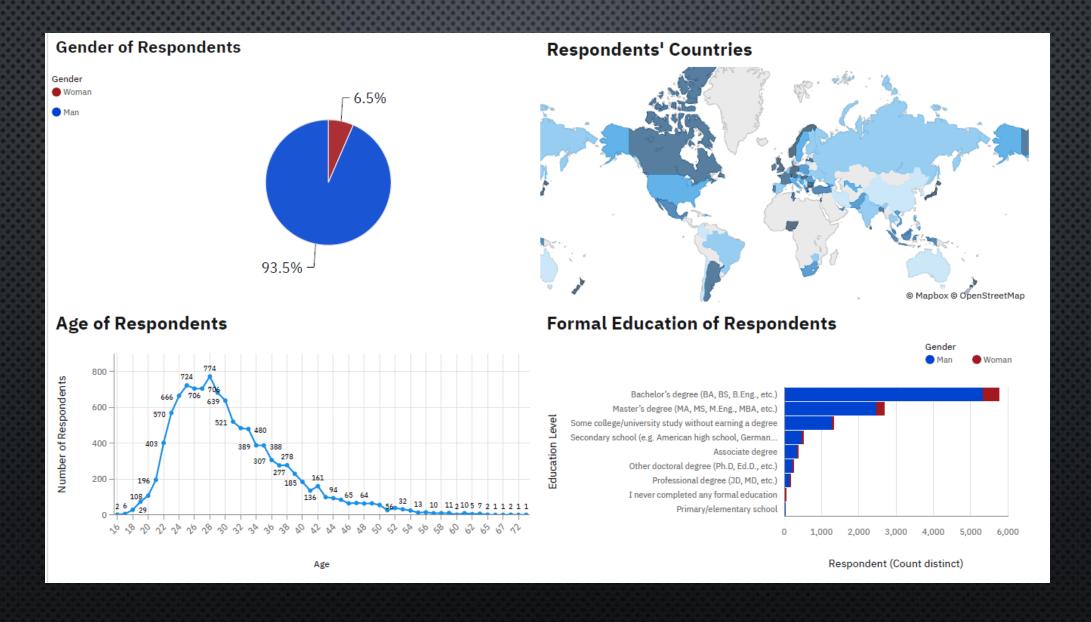
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3





DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

FINDINGS

- THE MAJORITY OF RESPONDENTS ARE MALE, IN THEIR 20s AND 30s, AND HAVE A BACHELORS OR MASTER'S DEGREE
- LINUX, WINDOWS, AWS, AND DOCKER ARE TOP 4 MOST POPULAR AND DESIRED PLATFORMS
- IQUERY WAS #1 USED WEBFRAME, BUT REACT.JS IS #1 FORECASTED WEBFRAME

IMPLICATIONS

- THIS FIELD IS DOMINATED BY
 YOUNG, EDUCATED, MALE WORKERS
- LINUX, WINDOWS, AWS, AND DOCKER
 ARE ABLE TO ADEQUATELY PROVIDE USERS
 WITH TOOLS AND FUNCTIONS THEY NEED
- REACT.JS HAS FEATURES WHICH MAKES IT MORE DESIRABLE THAN IQUERY

CONCLUSION



- JAVASCRIPT IS THE #1 CURRENTLY USED AND DESIRED LANGUAGE
- POSTGRESQL WILL BE THE MOST POPULAR DATABASE, HOWEVER
 MONGODB WILL ALSO BECOME VERY IMPORTANT
- THIS FIELD IS DOMINATED BY YOUNG, EDUCATED, MALE WORKERS
- LINUX, WINDOWS, AWS, AND DOCKER ARE ABLE TO ADEQUATELY
 PROVIDE USERS WITH TOOLS AND FUNCTIONS THEY NEED
- REACT.JS OVERTOOK IQUERY AND OTHER WEBFRAMES
 - POTENTIALLY HAS FEATURES THE OTHERS DO NOT

APPENDIX

JOB POSTINGS

IN MODULE 1 YOU HAVE COLLECTED THE JOB POSTING DATA USING JOB API IN A FILE NAMED "JOB-POSTINGS.XLSX". PRESENT THAT DATA USING A BAR CHART HERE. ORDER THE BAR CHART IN THE DESCENDING ORDER OF THE NUMBER OF JOB POSTINGS.

POPULAR LANGUAGES

IN MODULE 1 YOU HAVE COLLECTED THE JOB POSTINGS DATA USING WEB SCRAPING IN A FILE NAMED "POPULAR-LANGUAGES.CSV". PRESENT THAT DATA USING A BAR CHART HERE.

ORDER THE BAR CHART IN THE DESCENDING ORDER OF SALARY.