Programming Languages



OUTLINE



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

EXECUTIVE SUMMARY



- People interested in languages are presented
- The desire of people who want to use languages is shown
- Which age is more interested in such languages
- People with which degree are interested in languages
- Gender gap

INTRODUCTION



- This is important to focus on such languages and how they are valuable in the future.
- When we know about the age of users, we can predict their desires as well.
- The countries interested in such languages are shown in the following, which can help us know which country is more interested in them.
- This report is good for people who need to understand the changes in trend of the usage of programming languages.
- The gender gap between participants

METHODOLOGY



- Data Collection
- Data Cleaning
- Data Exploration
- Visualization
- Presentation

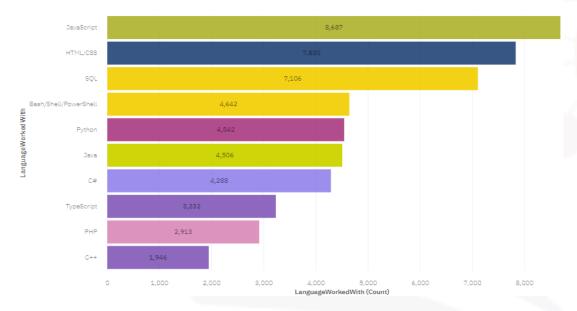
RESULTS

Almost all countries and people will use programming languages in the future.

PROGRAMMING LANGUAGE TRENDS

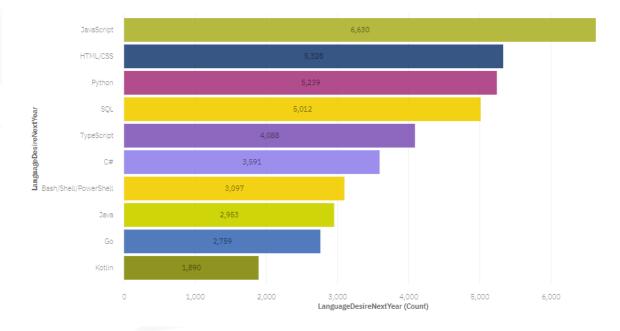
Current Year

Top 10 Languages Worked With



Next Year

Top 10 Languages Desired Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

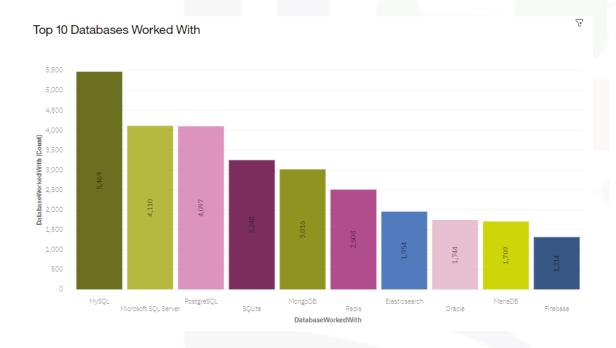
Findings Implications

- JavaScript has a higher number
- Bash has a lower number in the future
- Python is popular next year
- Typescript is important for people in the future

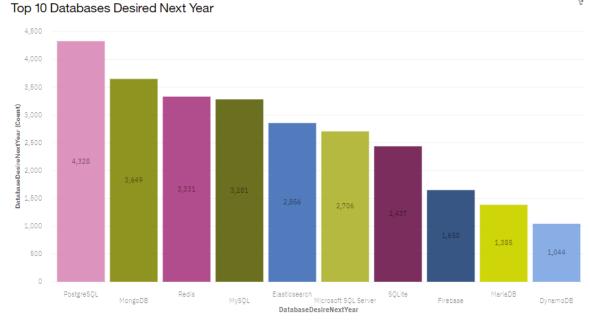
- C++ will be used less
- People will use web-based programming languages
- Big Data is important for people

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Difference in Redis
- SQL-based ones will experience a jump
- Elasticsearch will be used more in the future
- MongoDB will be used more than before

Implications

- More people will use SQL
- MySQL will be replaced by **PostgreSQL**
- Oracle will not be used in the future

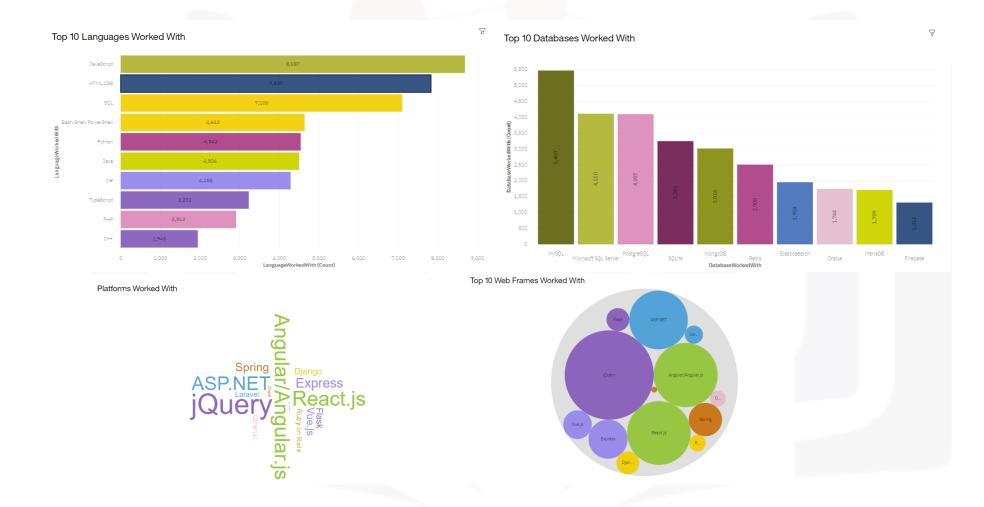
DASHBOARD



https://dataplatform.cloud.ibm.com/dashboards/1d864b5b -2f2a-41ed-bc39-

934f908850a4/view/5439f124659f6ec312d0f6e407cc79577 b347755e3bbd55785847b495e657997a8614792c828435cd e165760fbb9120acf

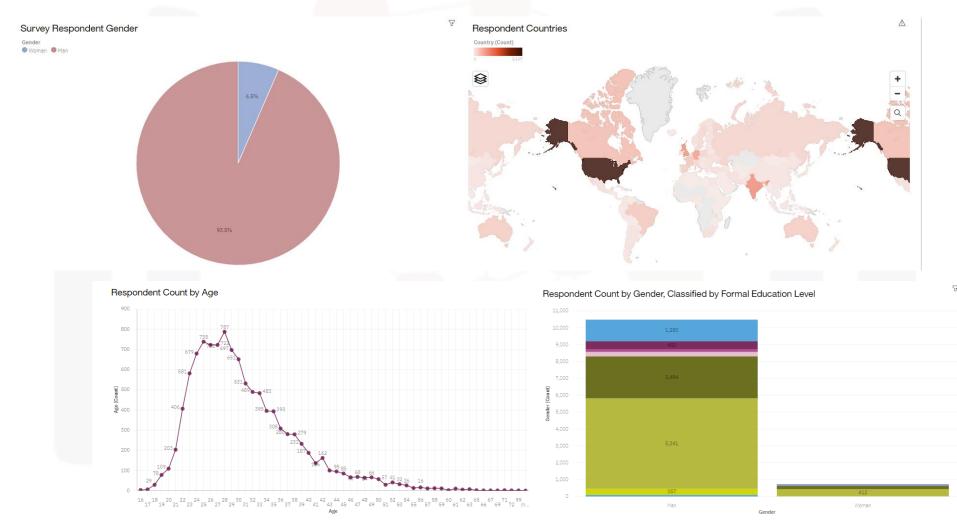
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



- Thanks to the data and graphs, we can further research the usage of programming languages useful in data science in the future.
- Gender should be balanced in the future
- Regarding possible discrimination in education and employment, they should be avoided
- Workers should be trained in favor of these languages

OVERALL FINDINGS & IMPLICATIONS

Findings

- SQL will be used higher
- Redis will be used more
- Those with a bachelor's degree are more interested in languages.
- Gender gap exists in such jobs
- SQL-based ones are popular in the future
- 28 is the most common age of the respondents

Implications

- SQL platforms will be widely used in the next year
- People should improve their knowledge of programming to have more chances for finding a job
- Cloud-based ones are more popular in the future
- Companies should adjustable be regarding these changes environments

CONCLUSION

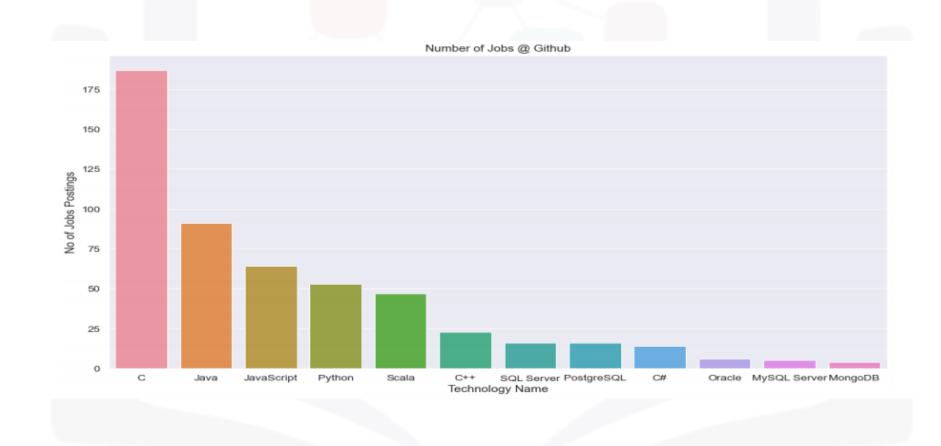


- Programming languages in data science will be used more in the future
- SQL will help people in the future
- Gender gap exists
- People should take steps to change some discriminations
- There are different trends for databases and programming languages in this year and the next year

APPENDIX



GITHUB JOB POSTINGS



POPULAR LANGUAGES

