

Survey results

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OUTLINE



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EXECUTIVE SUMMARY



- This report is a data analysis done on a surveys on Stack Overflow. The survey contain data related to:
 - Current and desired IT skills
 - Demographic background (gender, location, ...)
 - Psychological characteristics (introvert vs extravert, ...)
- Key takeaways of the data analysis:
 - Invest more in trying to get the gender ratio more balanced.
 - Developers skilled in PHP or C++ will become more difficult to find.

METHODOLOGY



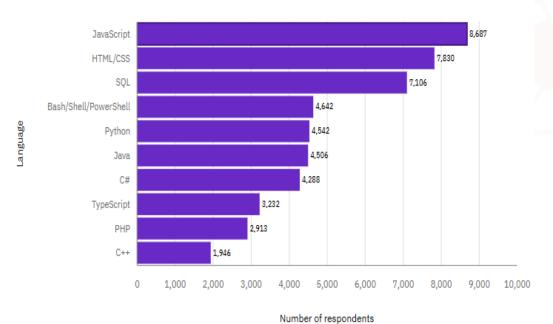
- Data collection was done using
 - Stack Overflow survey result (CSV file)
 - Web Scraping of Wikipedia pages
- Exploratory data analysis was performed including
 - Data Wrangling (removing duplicates, replacing null values, ...)
 - Data Statistical Analysis (median, ...)
 - Data Visualization

PROGRAMMING LANGUAGE TRENDS

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Current Year

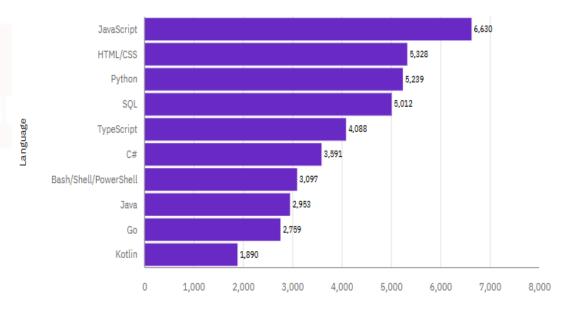
Top 10 Used Languages



Next Year

Top 10 Desired Languages to Use





Number of respondents

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Web-related languages like JavaScript and HTML/CSS will still be relevant as part of the skillset the next year.
- There will be less interest in PHP and C++.
- Newer languages like Go and Kotlin will have an increased interest.

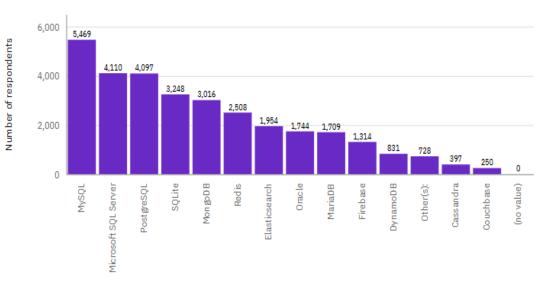
Implications

- Web-related languages are skills that people still want to develop their skills in (except PHP)
- There will probably more difficulty to find people wanting to develop in PHP and C++.

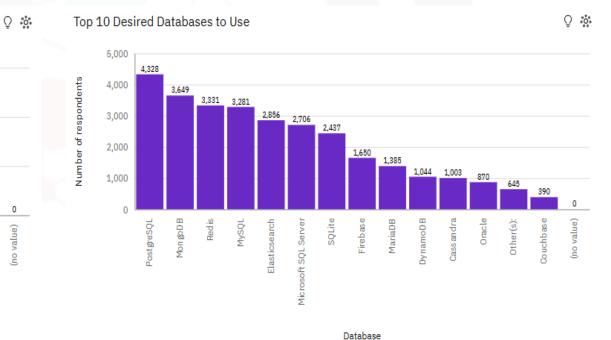
DATABASE TRENDS

Current Year

Top 10 Used Databases



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL and MS SQL Server will lose a bit of interest next year.
- Non-SQL databases like Elastic Search, Cassandra, ... will have an increased interest.
- PostgreSQL will have the same kind of interest next year.

Implications

- It might become a bit more difficult to find people wanting to learn MySQL and MS SQL Server.
- Non-SQL databases might become a preference for most developers.
- Interest in PostgreSQL remains constant.



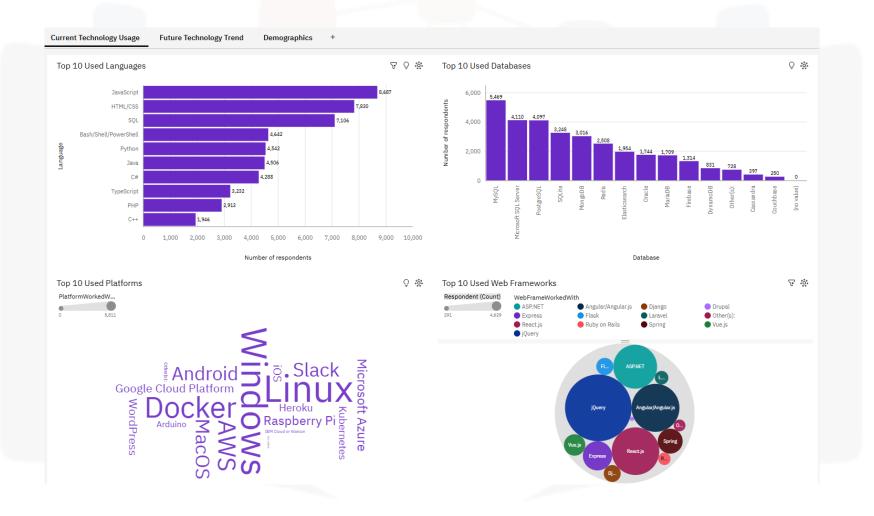
DASHBOARD



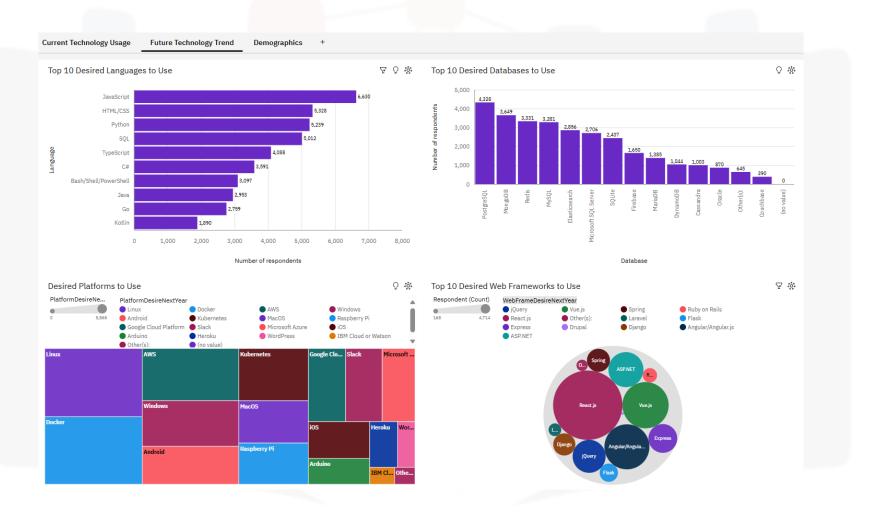
The PDF document containing the dashboard screenshots can be found in GitHub:

https://github.com/sirasen/sandbox/blob/main/data analyst lab/Capstone Dashboard Cognos Analytics.pdf

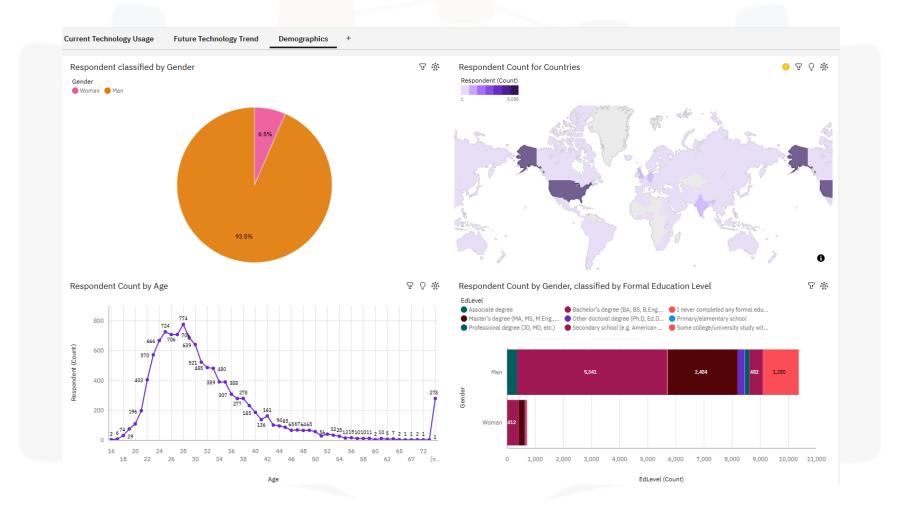
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



OVERALL FINDINGS & IMPLICATIONS

Findings

- Still a lot more men than women in the developer field.
- Web languages like JavaScript and HTML/CSS are still high on the list of skills developers want to have.

Implications

- Invest more in trying to get the men-woman ratio more balanced.
- Developers skilled in PHP or C++ will become more difficult to find.

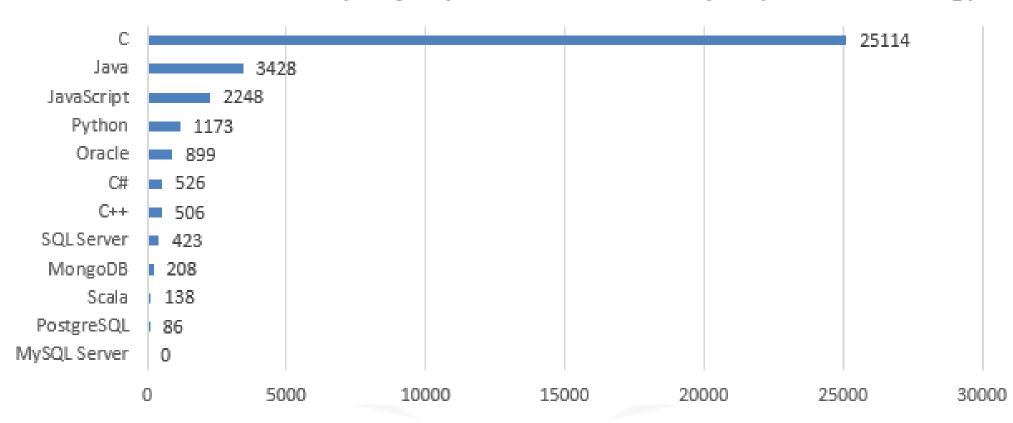
CONCLUSION



- Invest more in trying to get the gender ratio more balanced.
- Developers skilled in PHP or C++ will become more difficult to find.

JOB POSTINGS

Number of open job positions classified by required technology



POPULAR LANGUAGES

