



Annual Developer Survey Report

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29.01.2024.

OUTLINE



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



- Data contextualization
- Methodology description
 - Data gathering
 - Data analysis
 - Data visualizations
- Presentation of results supported with graphs
- Discussion of overall findings
- Final conclusions

INTRODUCTION



- The annual Developer survey is the largest and most comprehensive survey of people in the IT sector in the World
- The results do not represent everyone in the developer community evenly
- The survey consists of nearly 90,000 developers worldwide

METHODOLOGY



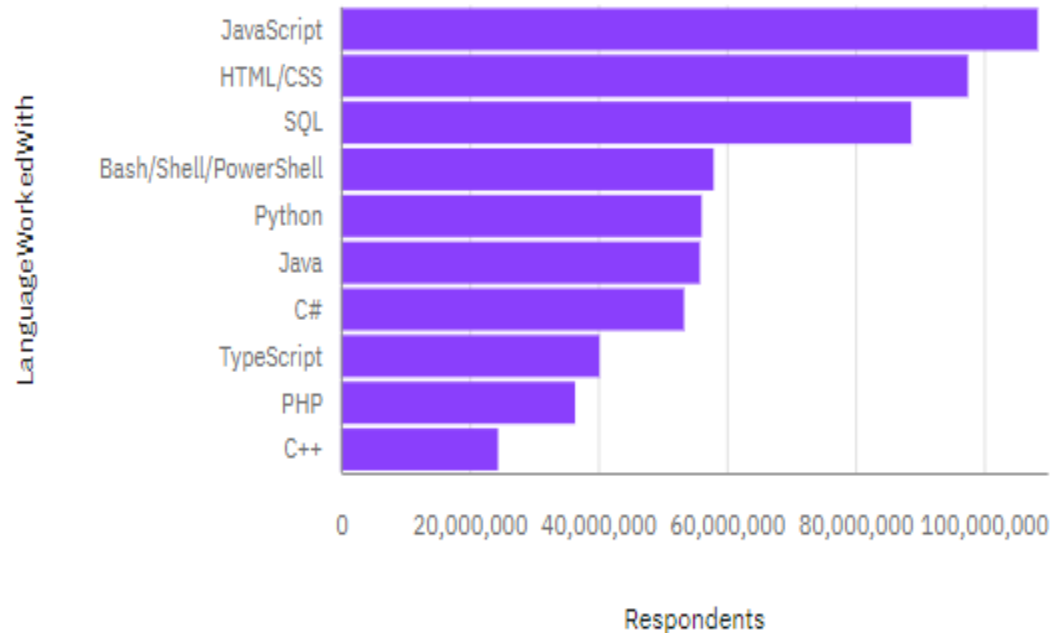
- Collect survey data and explore its content
 - Web Scraping
 - APIs
 - Request library
- Data Wrangling
- Exploratory Data Analysis
 - Analyzing data distribution
 - Handling outliers
 - Correlation
- Data Visualization
 - Highlight distribution of data, relationships, the composition and comparison of data
- Dashboards



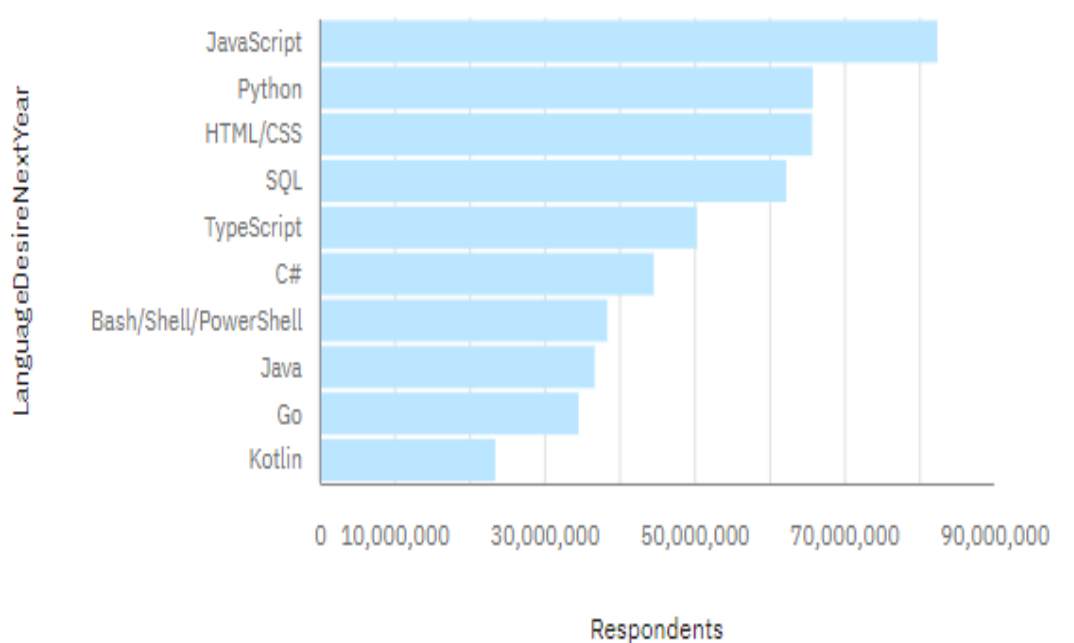
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

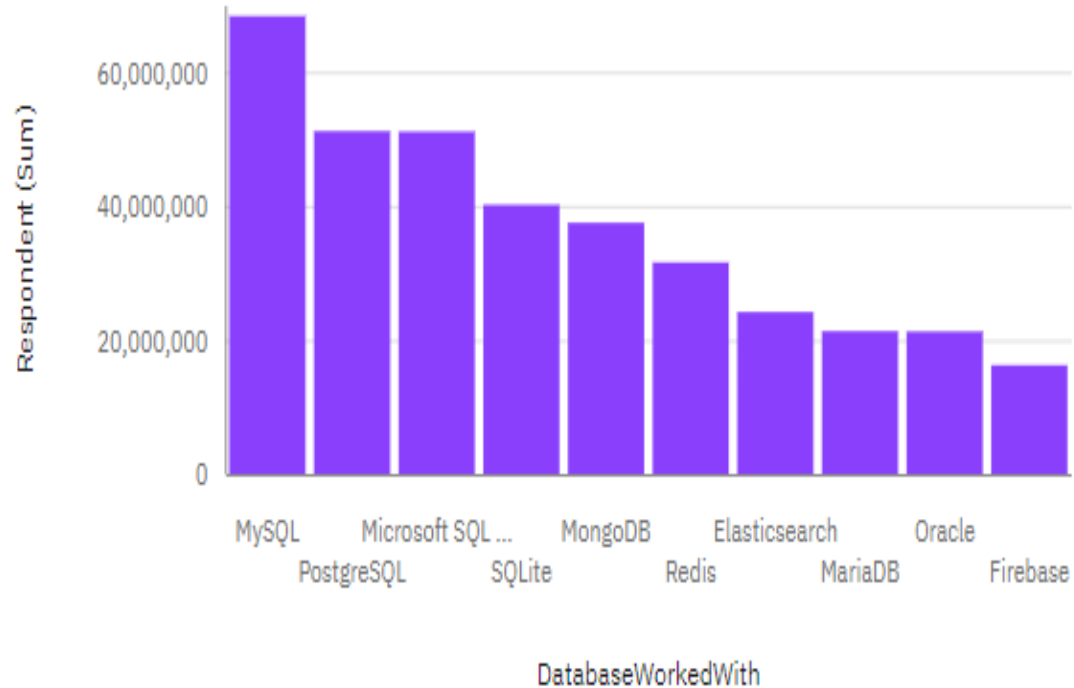
- JavaScript seems to be the leading language in terms of popularity
- Python is growing at a fast margin
- There is also great interest in TypeScript

Implications

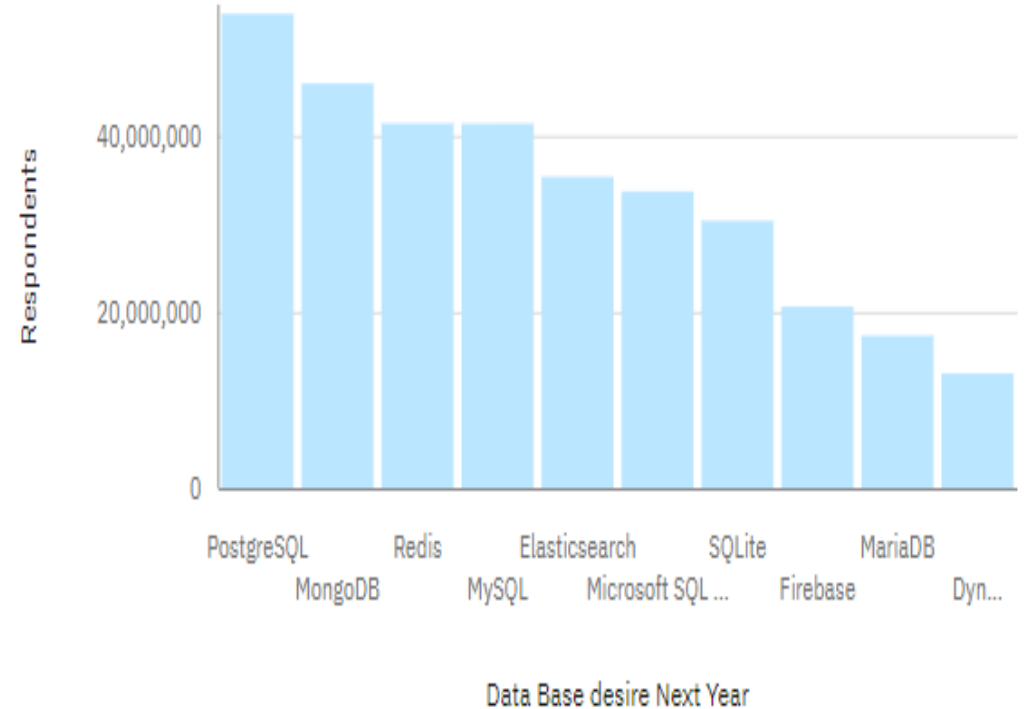
- Possible developer migration from JavaScript to TypeScript

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the most used database
- Lack of interest in Microsoft SQL Server and SQLite
- Increasing interest in PostgreSQL and MongoDB

Implications

- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

DASHBOARD

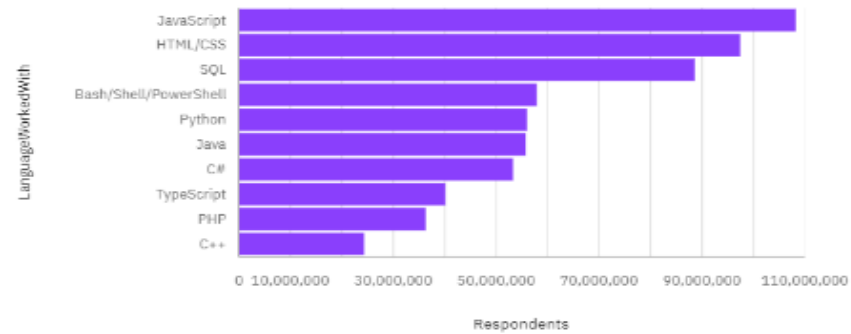


<https://github.com/marandjel/IBM-Data-Analyst-Capstone-Project/blob/main/7.Cognos%20Dashboard.pdf>

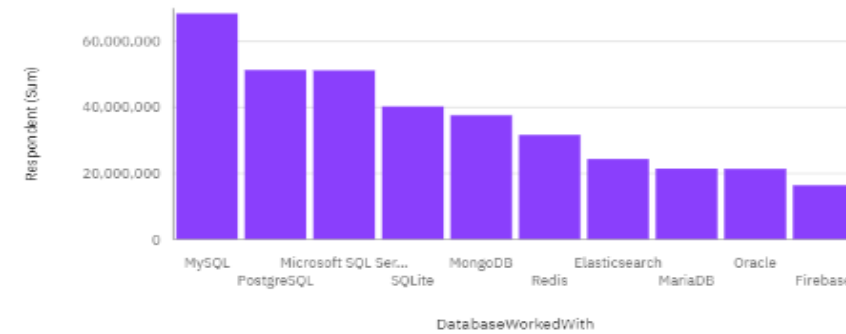
DASHBOARD TAB 1

Current Technology Usage

Top 10 Languages Worked With



Top 10 Databases Worked With



Platforms Worked With



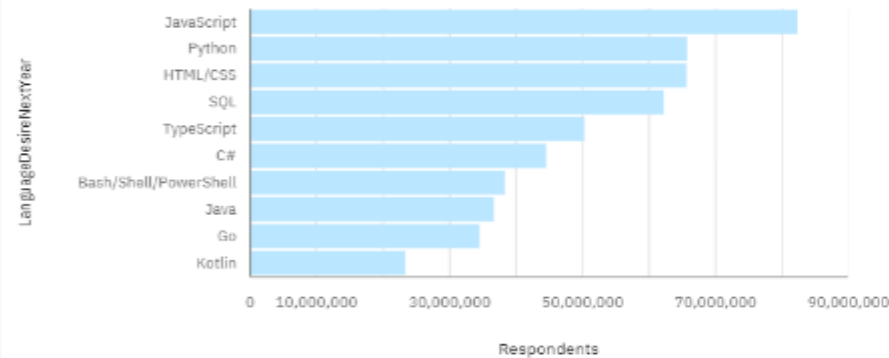
Top 10 Web Frame Worked With



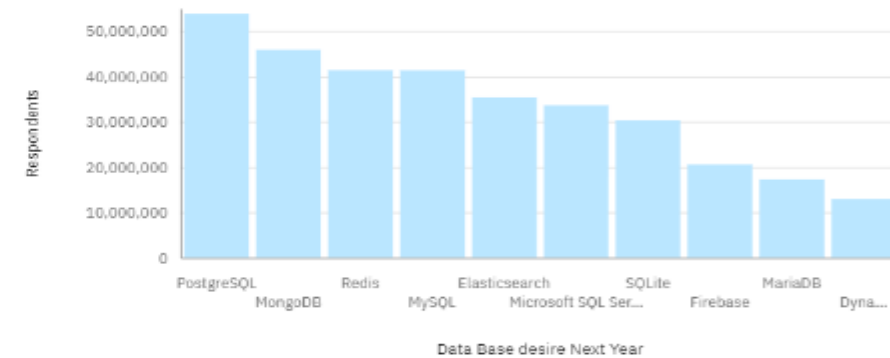
DASHBOARD TAB 2

Future Technology Trend

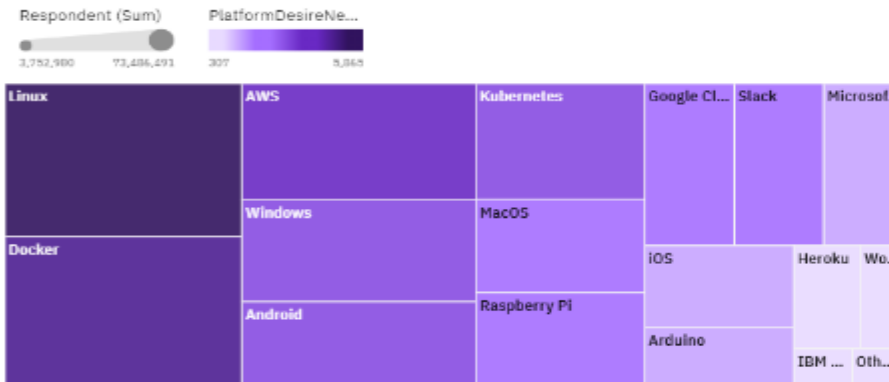
Top 10 Language Desire for Next Year



Top 10 Databases Desire For Next Year



Platform Desire For Next Year



Web Frame Desire For Next Year

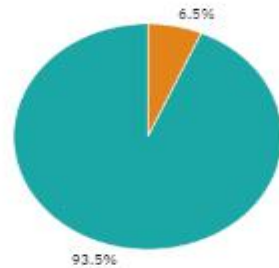


DASHBOARD TAB 3

Demographics

Respondent by Gender

Gender
Woman Man

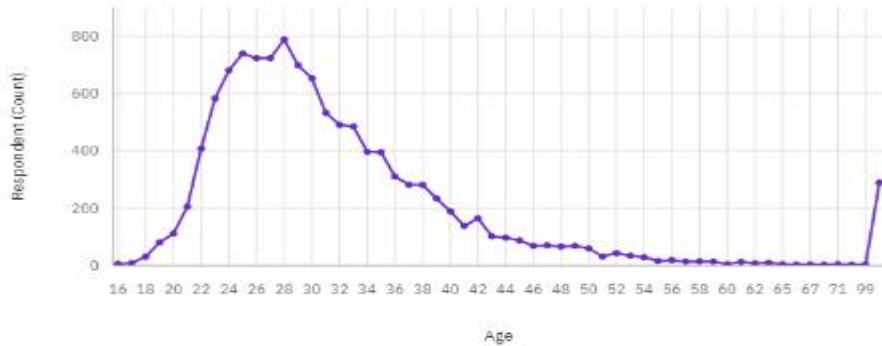


Respondent Numbers by Country

Respondent (Count)
1 1,127

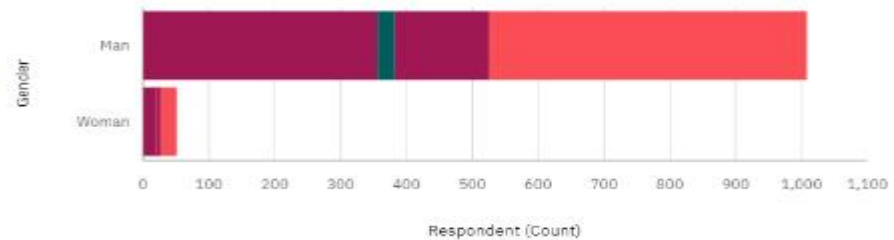


Number of Respondents by Age

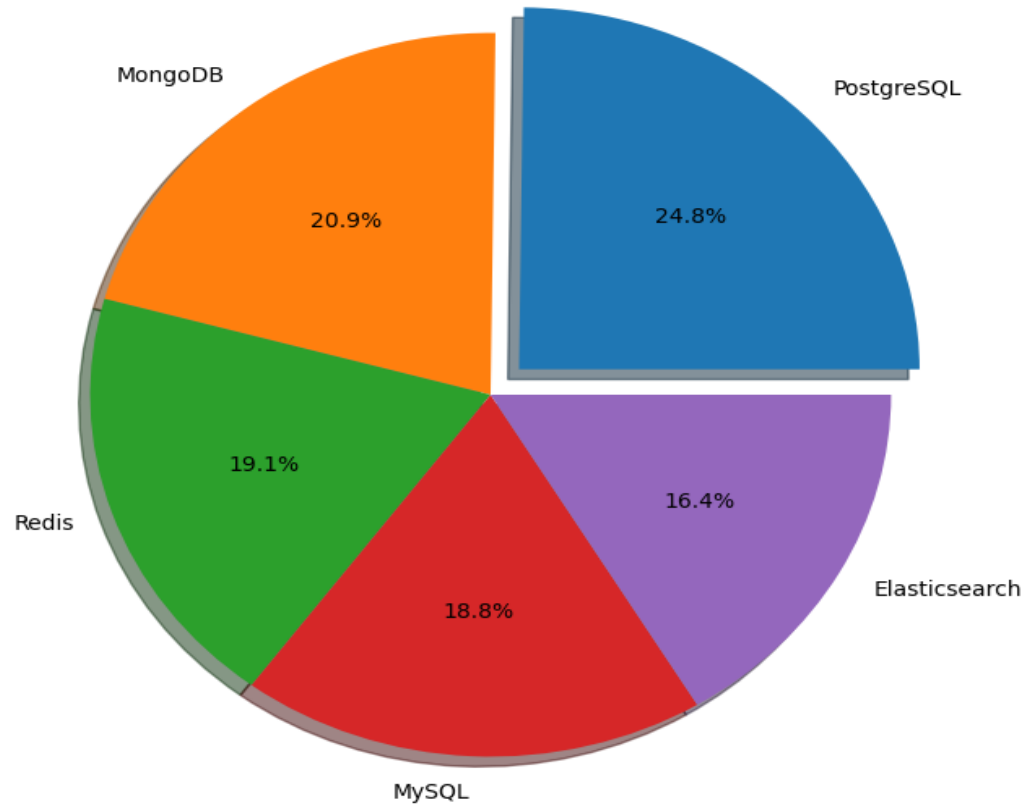


Respondent by Gender colored by EdLevel

Associate degree Primary/elementary school Professional degree (MD, PhD, etc.)
Secondary school (e.g. American ...

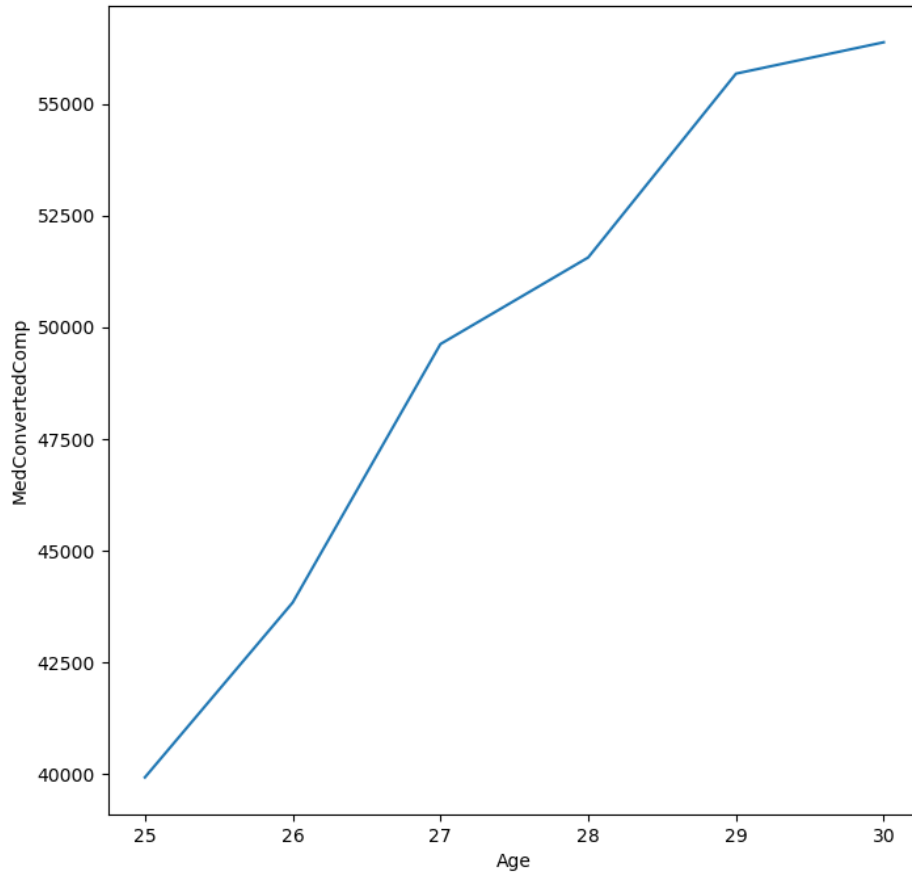


APPENDIX



- The top 5 Databases that Respondents want to learn next Year

APPENDIX



Based on the Line Chart of Age and median Compensation for the age group 25-30, we see a positive correlation between Age and median Compensation



THANK YOU!