



TECHNOLOGY TRENDS AND ANALYSIS PRESENTATION

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OUTLINE



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

EXECUTIVE SUMMARY



- Trends in Programming Languages And Databases
- Technological Gap in Countries
- Gender gap in jobs
- Demographics survey

INTRODUCTION



- Identify skills requirement in future
- What are the top programming languages in demand?
- What are the top database skills in demand?
- What are the popular IDEs

METHODOLOGY



- Data collection sources
 - Programming languages Annual salary
 - GitHub job postings
 - Stack overflow Developer 2019 survey
- Data visualization
- Data exploring
- Data cleaning
- Presentation

RESULTS

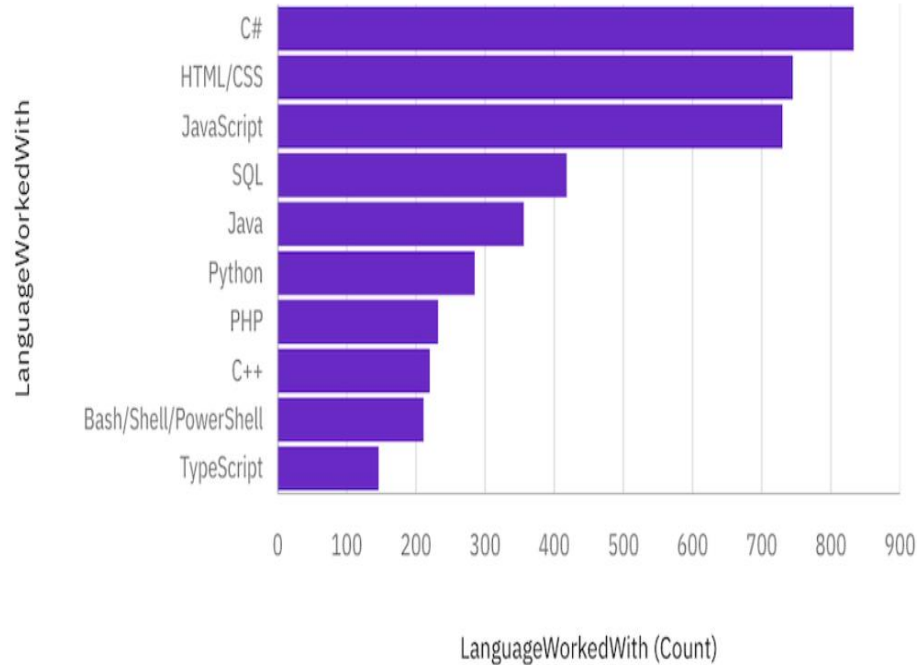


	Technology	Number_of_Jobs
0	C	2
1	C#	2
2	C++	2
3	Java	2
4	JavaScript	2
5	Python	2
6	Scala	2
7	Oracle	2
8	SQL Server	2
9	MySQL Server	2
10	PostgreSQL	2
11	MongoDB	2

PROGRAMMING LANGUAGE TRENDS

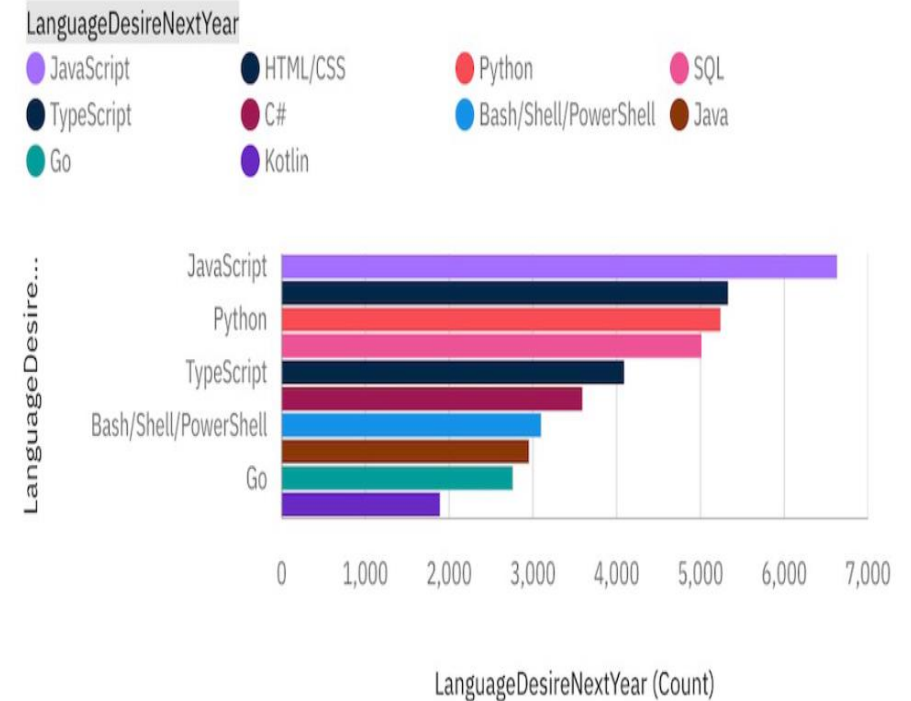
Current Year

LanguageWorkedWith by LanguageWorkedWith



Next Year

LanguageDesireNextYear, LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

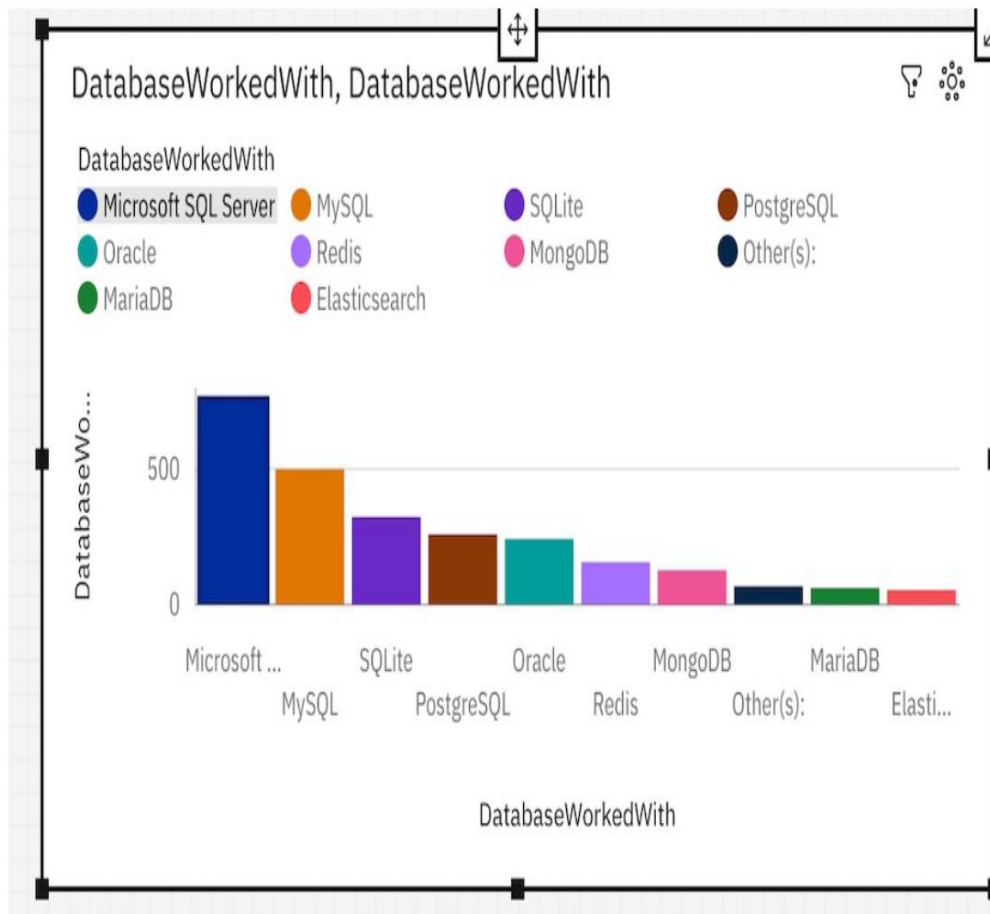
- JavaScript, HTML/CSS, SQL are top 3 this year
- Python and typescript becoming popular next year
- PowerShell edged out in the next year

Implications

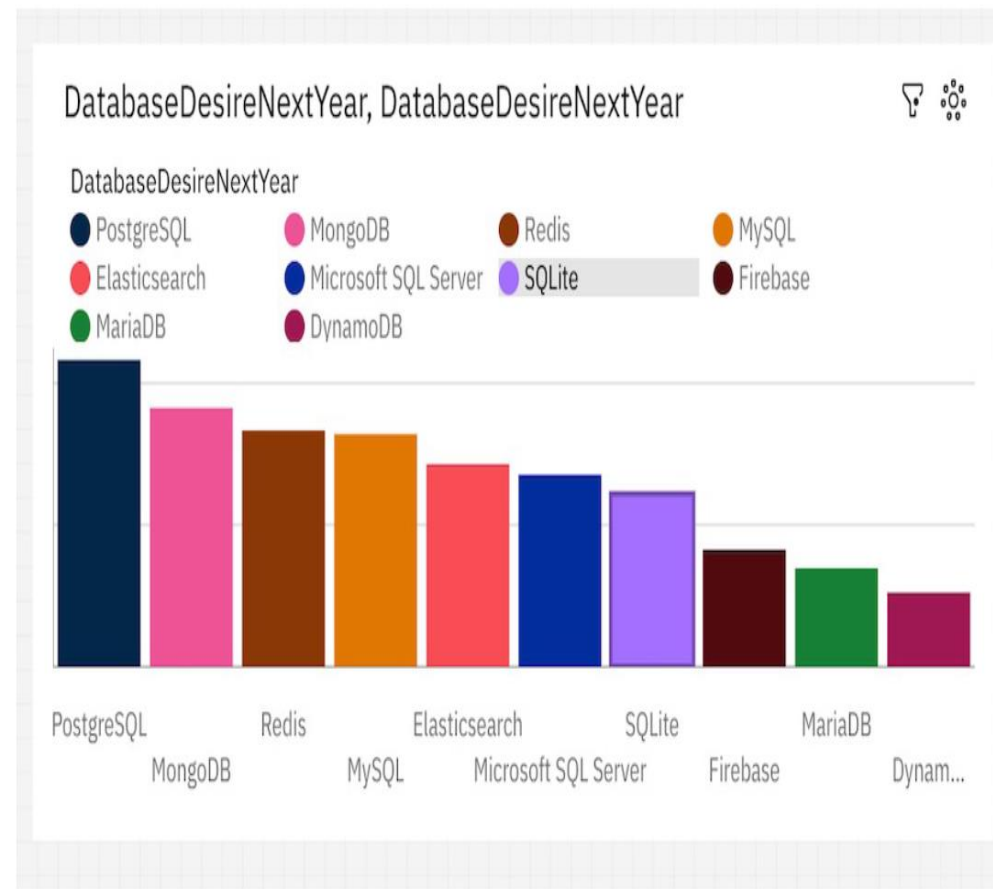
- Web development are still in high demand
- Big data technology in companies still require SQL
- With AI and ML in rising demand, Python is best choice

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- My SQL most popular
- Behind is Microsoft SQL
- MongoDB and Redis are upcoming favorites

Implications

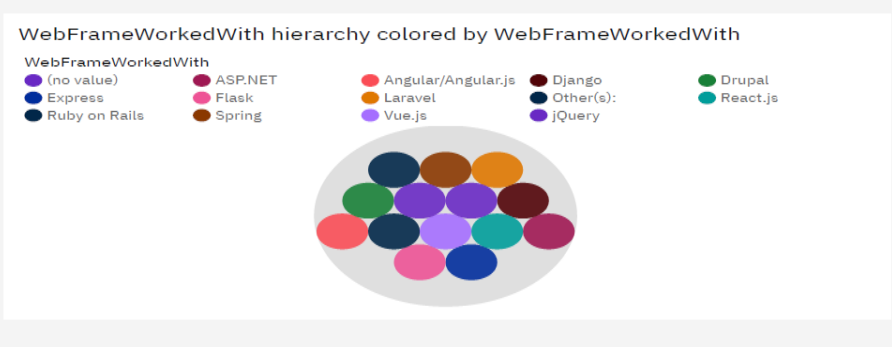
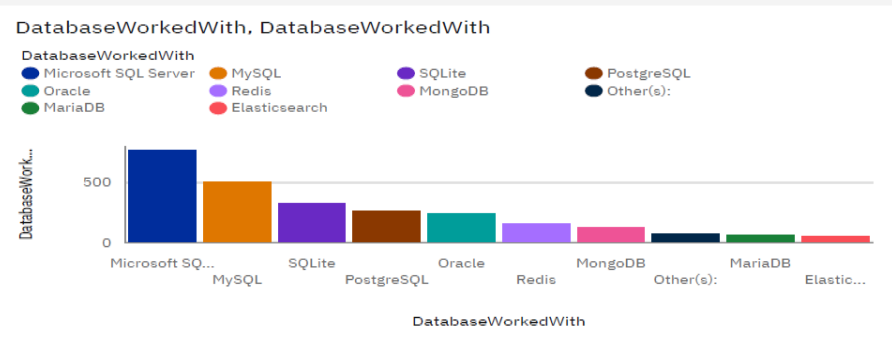
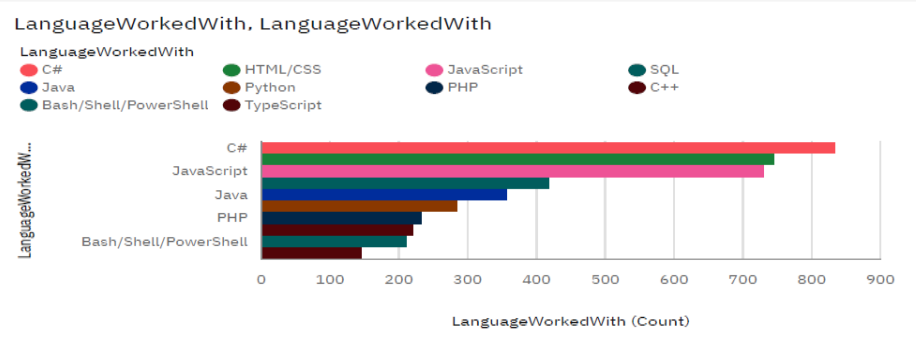
- Opensource databases are still preferable in companies
- NOSQL databases will make an impact for storing non relational data
- Redis supports abstract data types

DASHBOARD TAB 1

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Current technology Usage

Tab 1



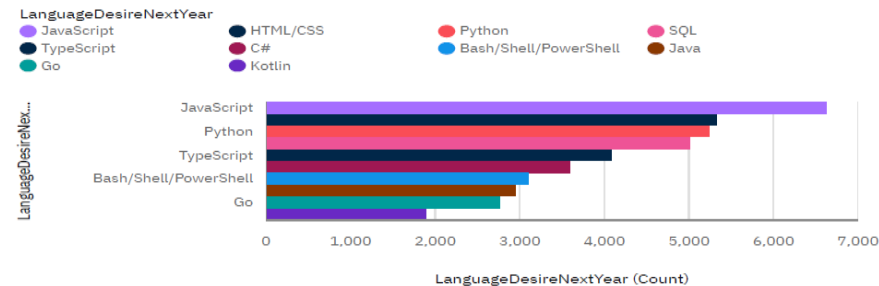
DASHBOARD TAB 2

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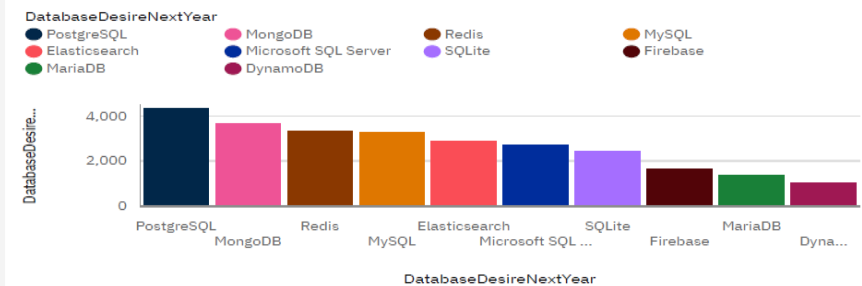
Future Technology Trend

Tab 1

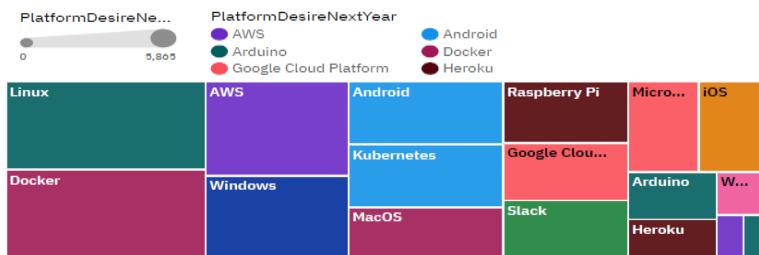
LanguageDesireNextYear, LanguageDesireNextYear



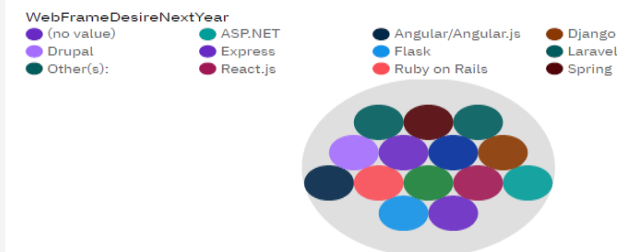
DatabaseDesireNextYear, DatabaseDesireNextYear



PlatformDesireNextYear for PlatformDesireNextYear hierarchy



WebFrameDesireNextYear hierarchy colored by WebFrameDesireNextYear

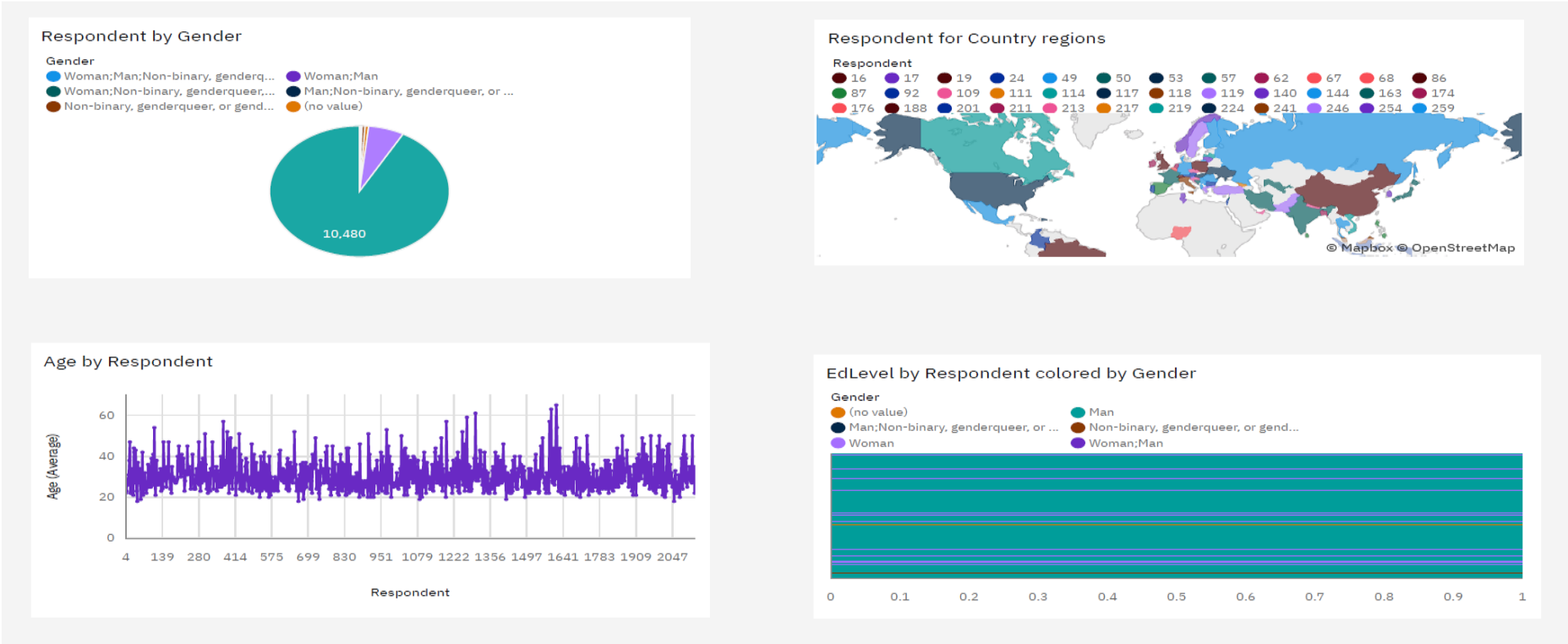


DASHBOARD TAB 3

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Demographics

Tab 1



DISCUSSION



- Technology trends now and future
- Training and reskilling workers
- Female participations in technology field
- Bridge divided of technology gaps in developing countries
- Eliminates age and education discrimination in employment

OVERALL FINDINGS & IMPLICATIONS

Findings

- Fast changing technology every year
- Concentration on several countries like USA and India
- Gender gap in technology jobs

Implications

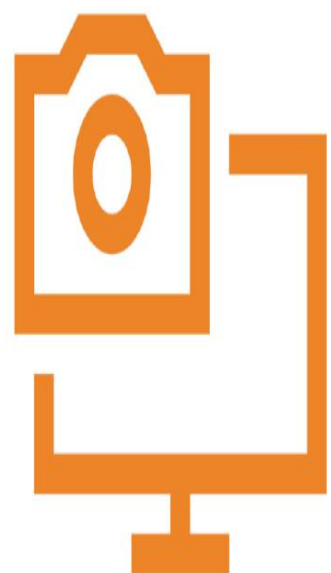
- Companies need to be flexible and adjust to rapid changes
- Need to spread technology out to lagging countries
- Impact of job hiring's

CONCLUSION

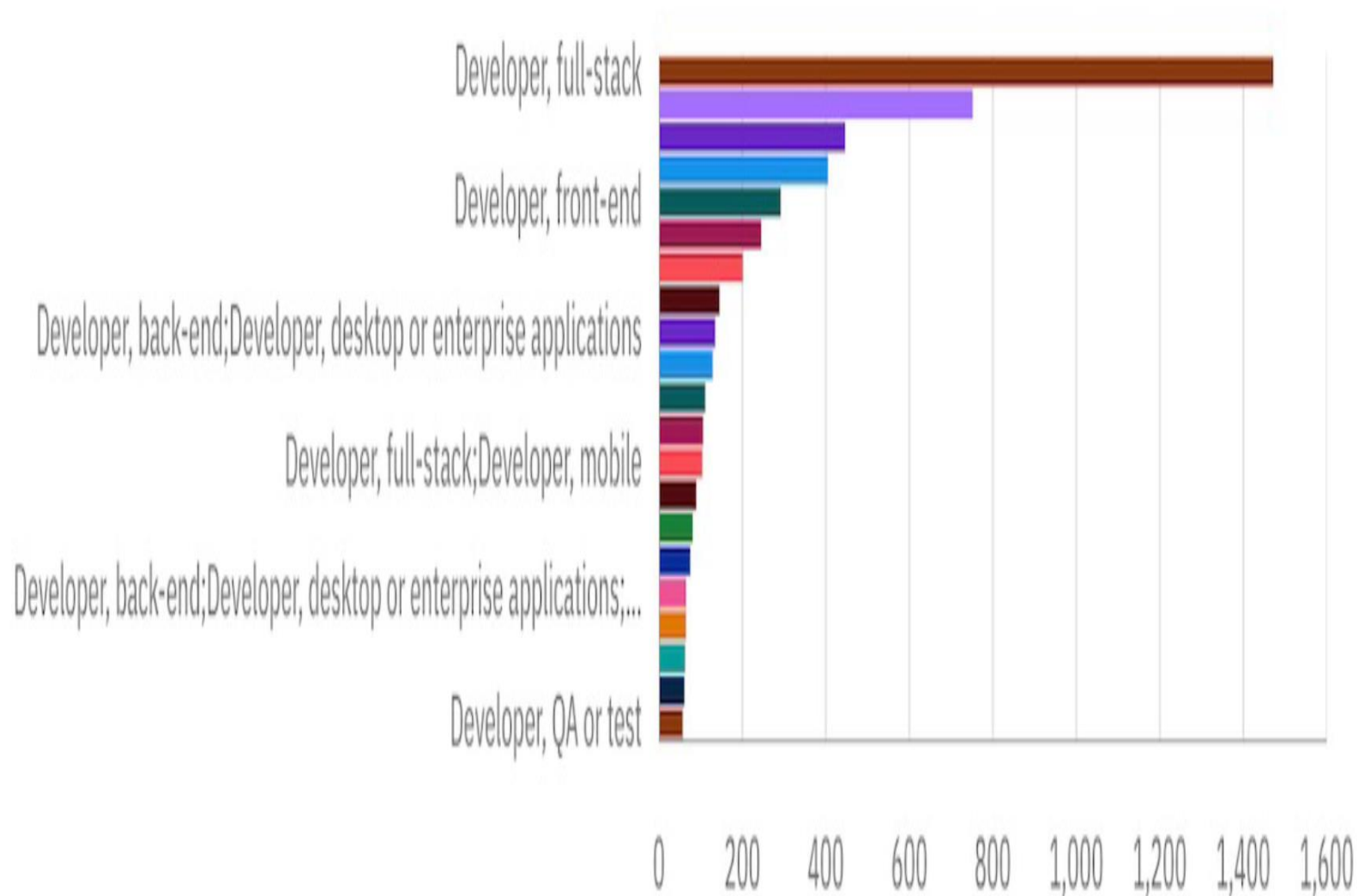


- Technology trends for current and next year
- Programming Languages, Databases and platform overview
- Demographics overview
- Action to be taken

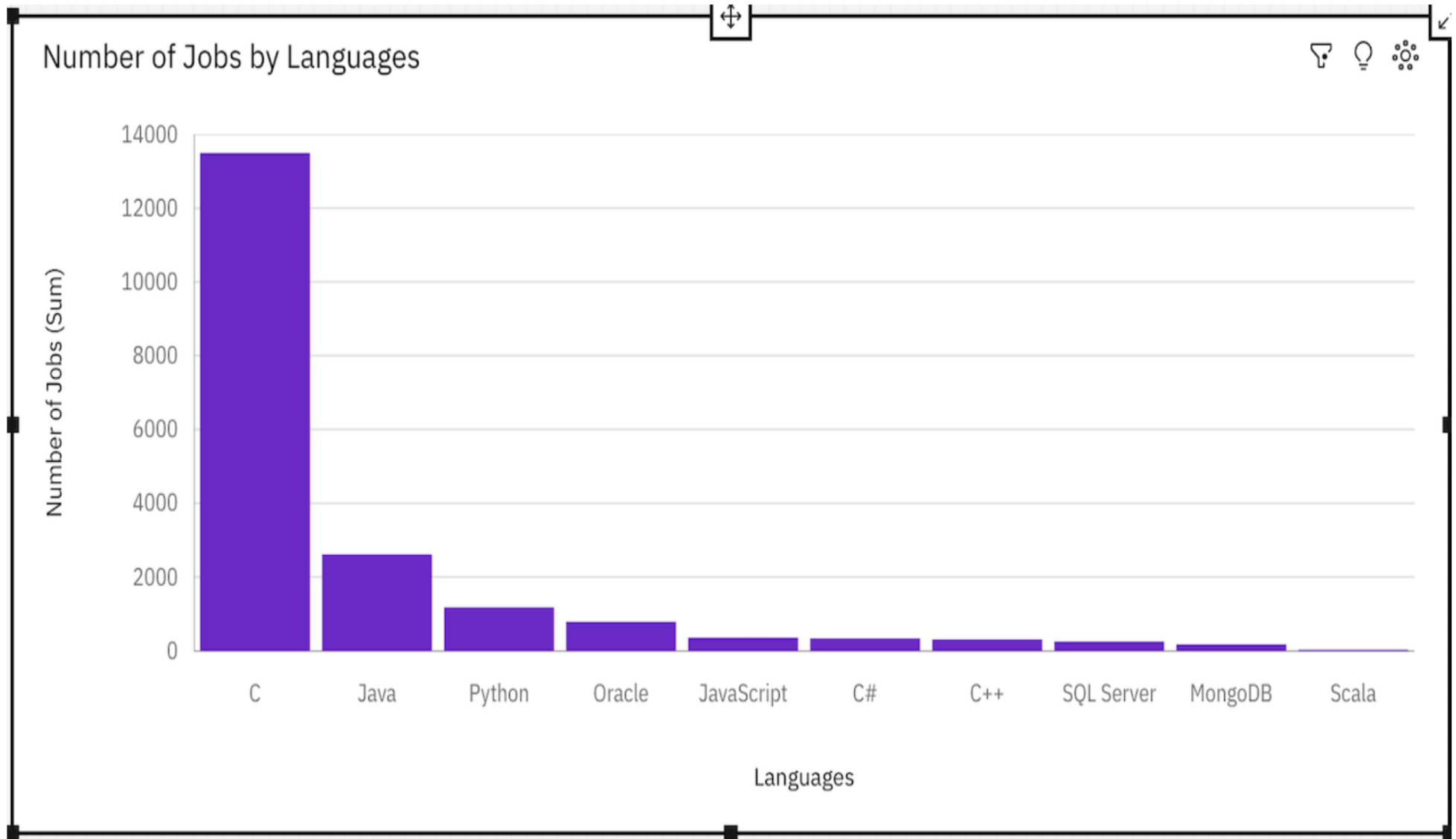
APPENDIX



DevType



JOB POSTINGS



POPULAR LANGUAGES

