Future & Present of Tech

Atif Banaweer

8/2/2023

OUTLINE

- Executive Summary
- Introduction
- Methodology
- Results
  - Visualization – Charts
  - Dashboard
- Conclusion
- Appendix

EXECUTIVE SUMMARY

- Languages Trends
- Databases Trends
- Dashboard
  - Current Tech
  - Future Tech trends
  - Demographic of Tech

INTRODUCTION

- These Visuals are from survey and demographic datasets
- The most used Languages now & then
- The future of Databases

METHODOLOGY

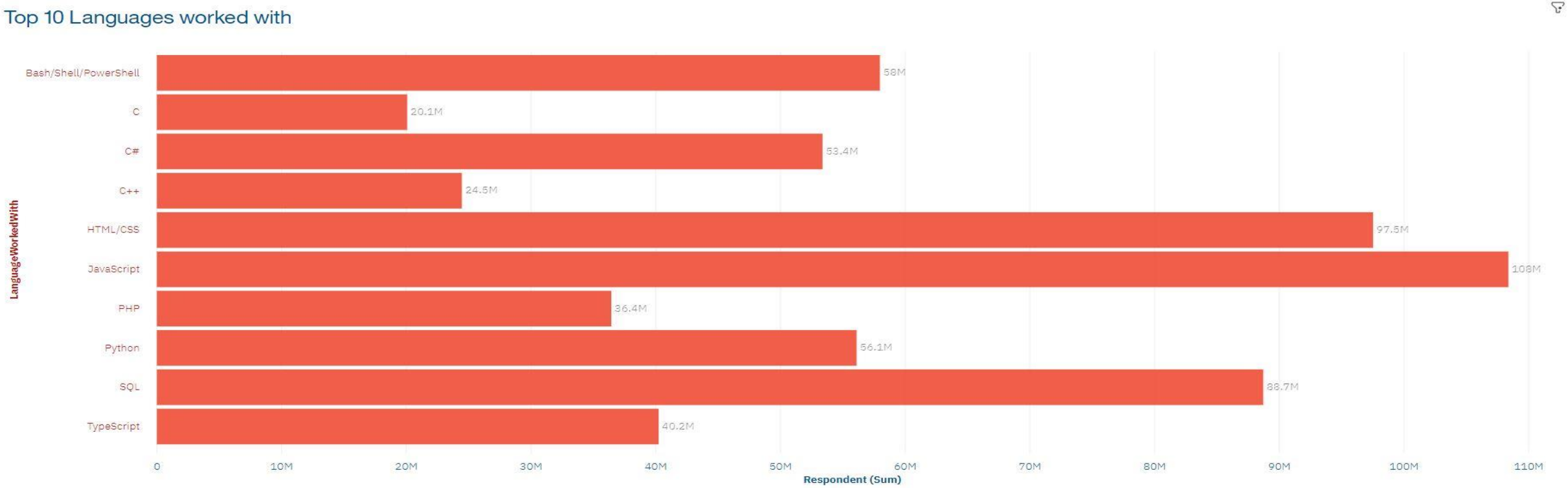
- Python
- Matplotlib, Pandas & NumPy
- SQLite

Visualization

- IBM Cognos
- IBM Watson Studio
- IBM Datapacks

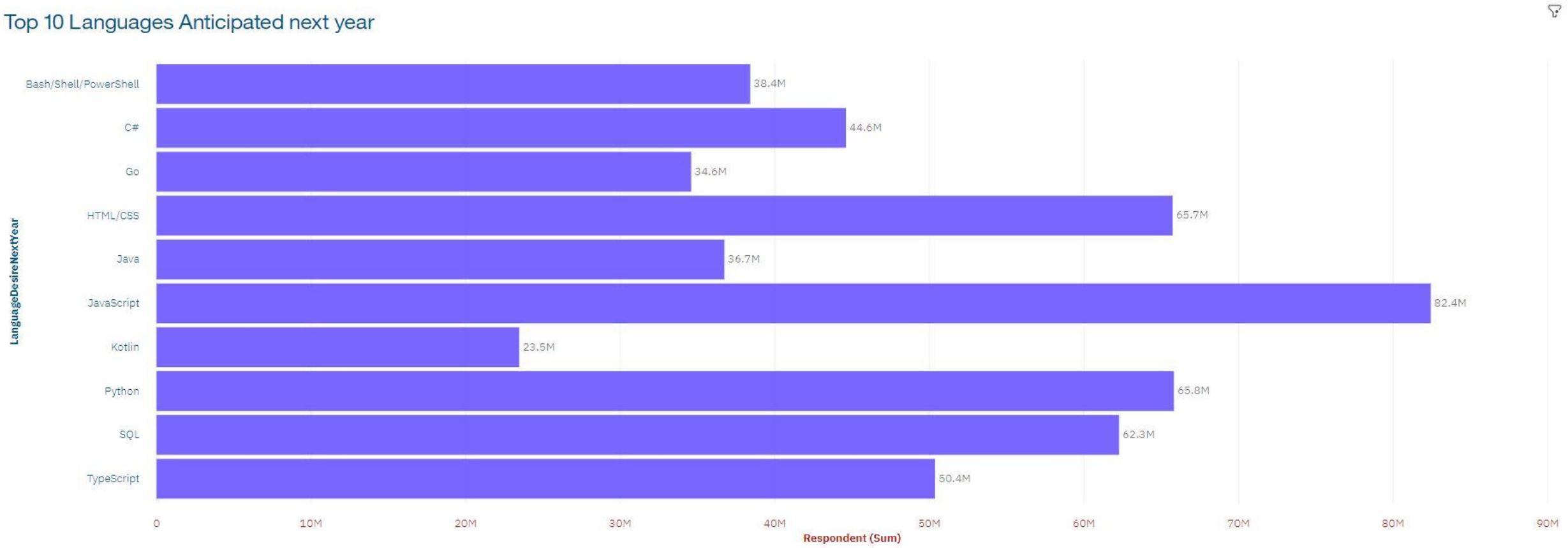
PROGRAMMING LANGUAGE TRENDS

Current Year



PROGRAMMING LANGUAGE TRENDS

Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

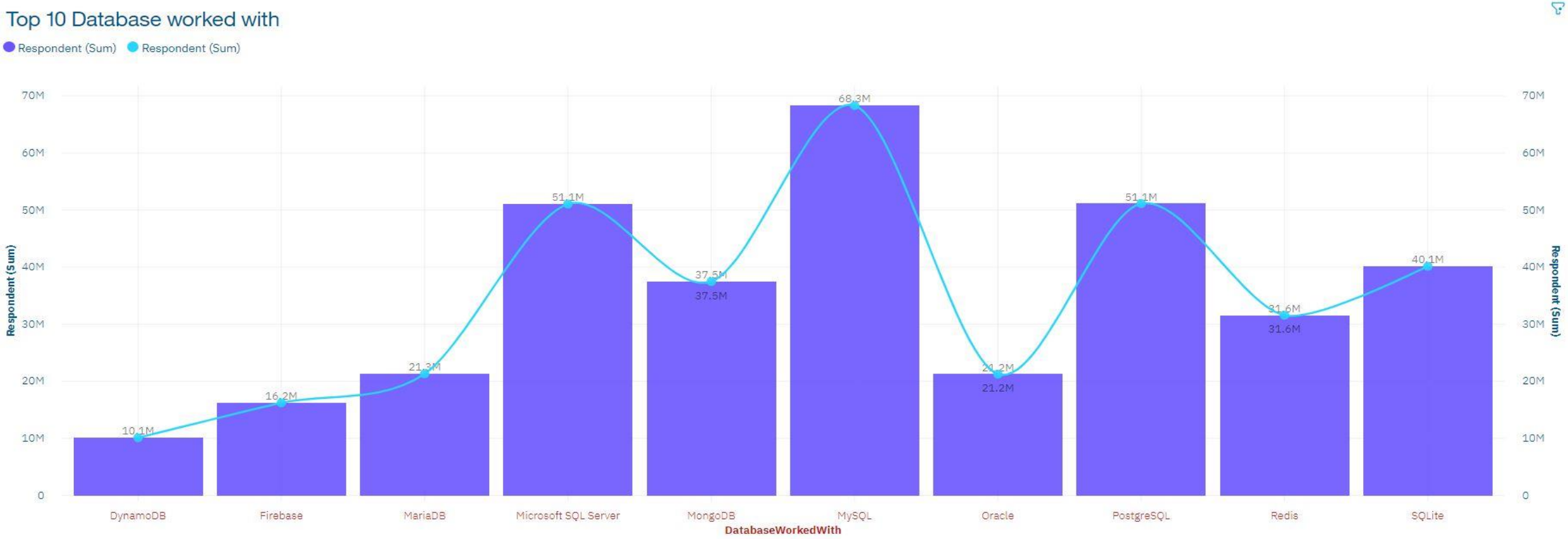
- Go is on the Trend
- Kotlin is on the Trend
- PHP & C are no longer Top 10 in the future

Implications

- Javascript still remains the most used
- HTML is second most used
- Python will become 3rd most used replacing SQL

DATABASE TRENDS

Current Year

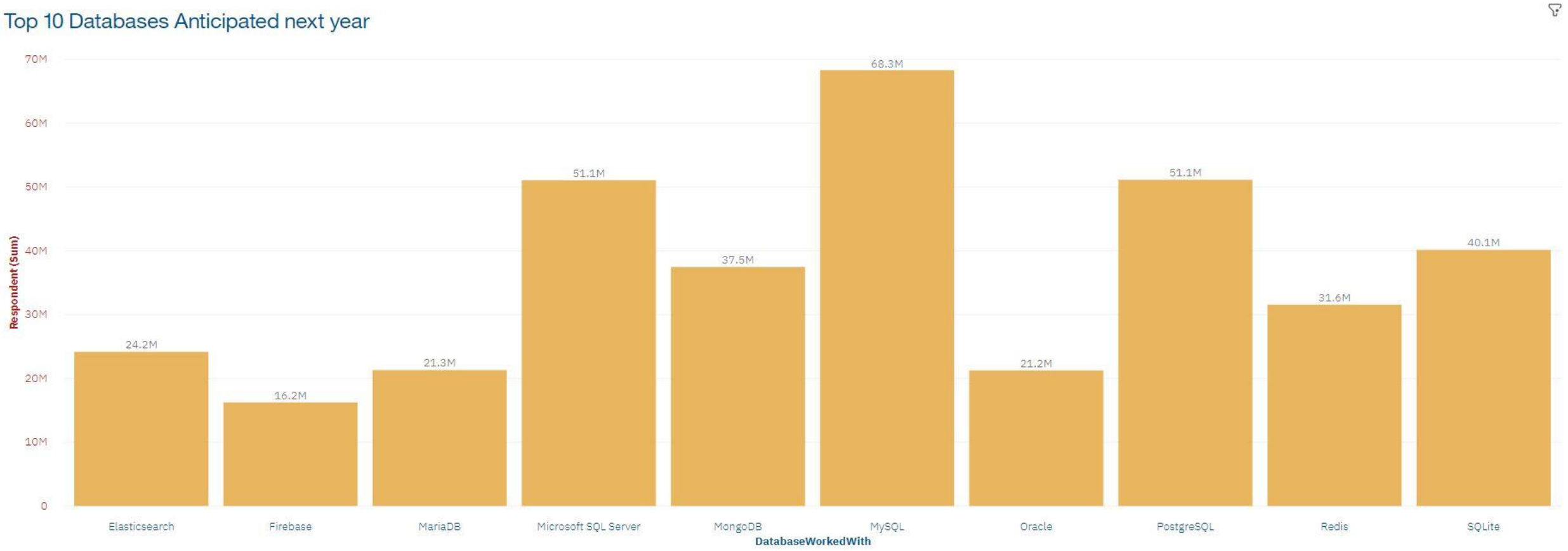


IBM Developer

SKILLS NETWORK

DATABASE TRENDS

Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Elasticsearch is on the Trend
- DynamoDB is no long Top 10

Implications

- There is not much change in most
- Elasticsearch is on the rise expected to be 7th

DASHBOARD

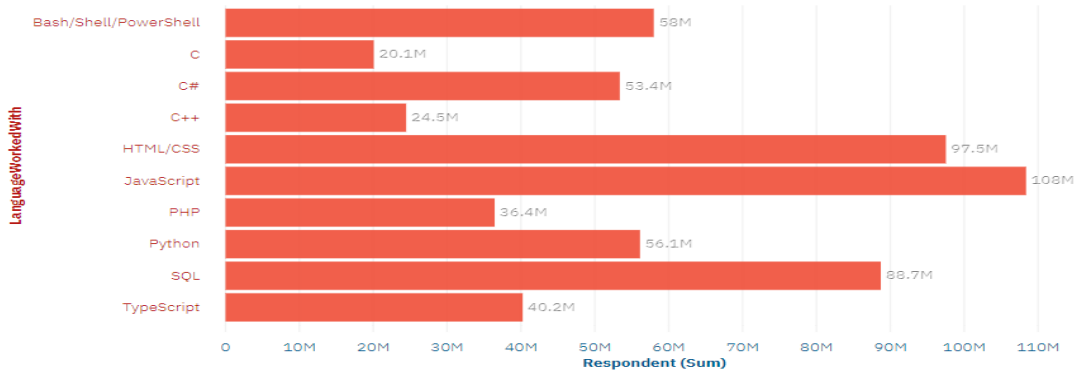
https://dataplatform.cloud.ibm.com/dashboards/96799043-2861-49a8-8828-0bfc7ffb2363/view/4361fb2632ab2af47ec7c8e4079f245229657055e1bb830084867b495d317097a93d1a90c87b1859db135464a1e8475eca

DASHBOARD TAB 1

Filters

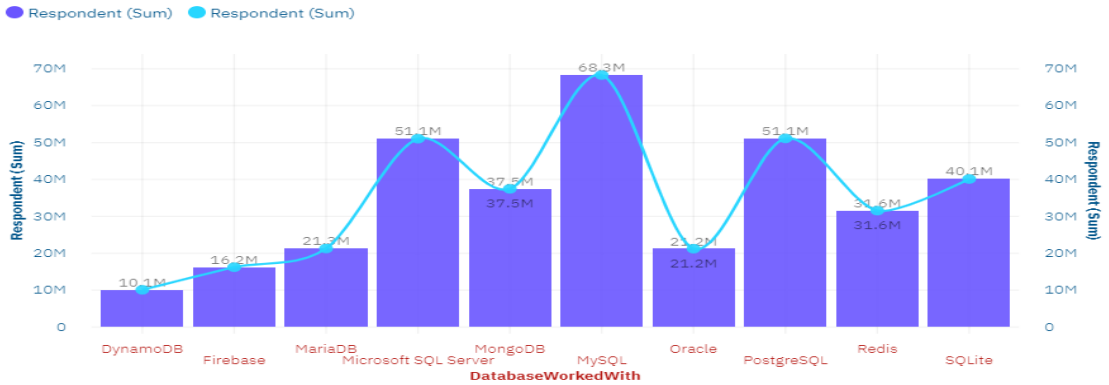
Current Technology Usage | Future Technology Trend | Demographics

Top 10 Languages worked with



Top 10 Web Frames worked with

Top 10 Database worked with



Platforms used

powered by IBM Cloud Pak for Data

IBM Developer

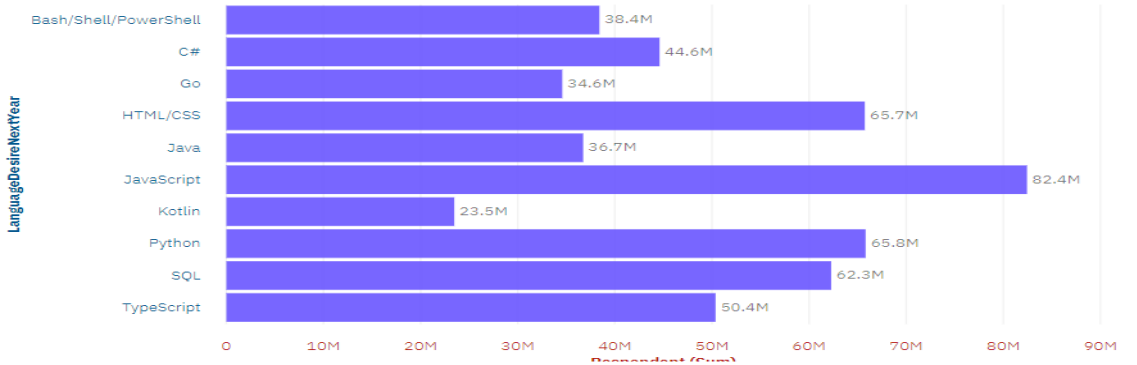
SKILLS NETWORK

DASHBOARD TAB 2

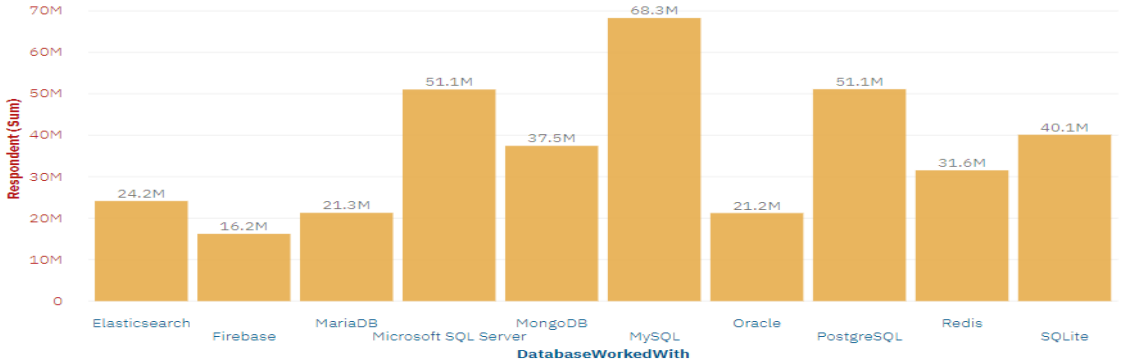
Filters

Current Technology Usage | Future Technology Trend | Demographics

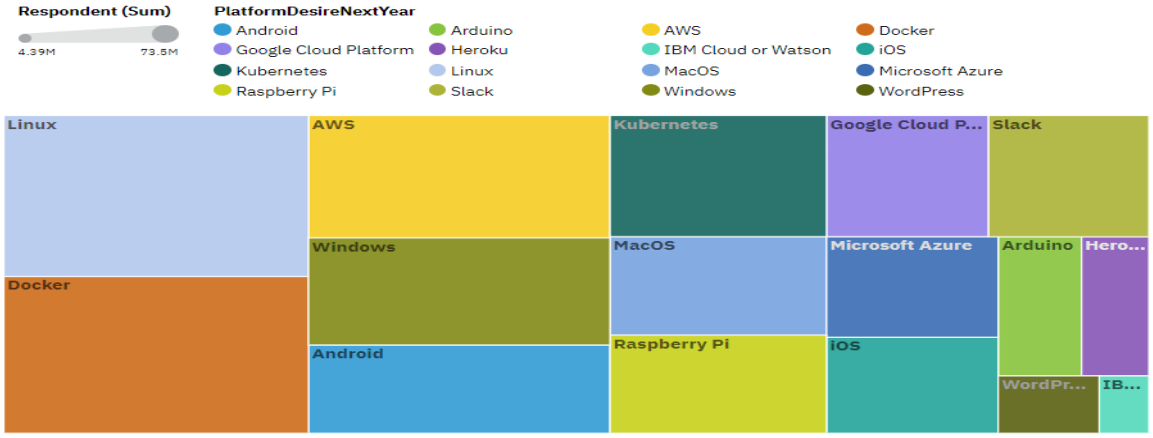
Top 10 Languages Anticipated next year



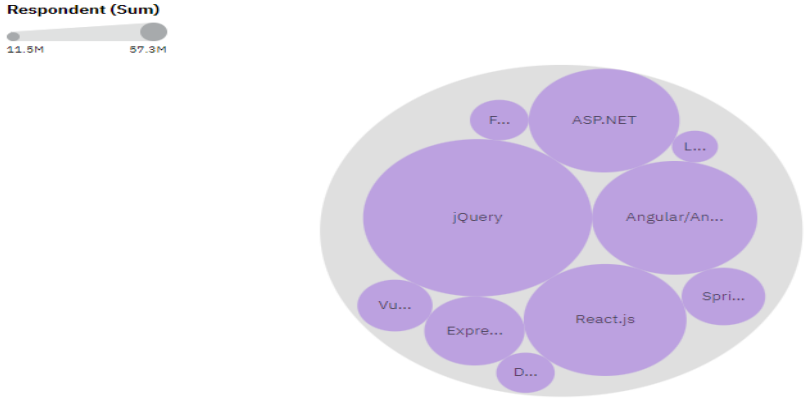
Top 10 Databases Anticipated next year



Platforms Anticipated next year



Top 10 WebFrames Anticipated next year



IBM Developer

powered by IBM Cloud Pak for Data

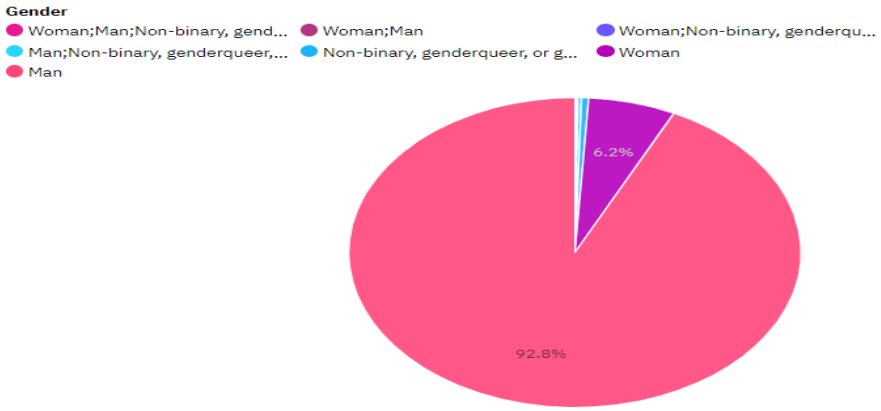
SKILLS NETWORK

DASHBOARD TAB 3

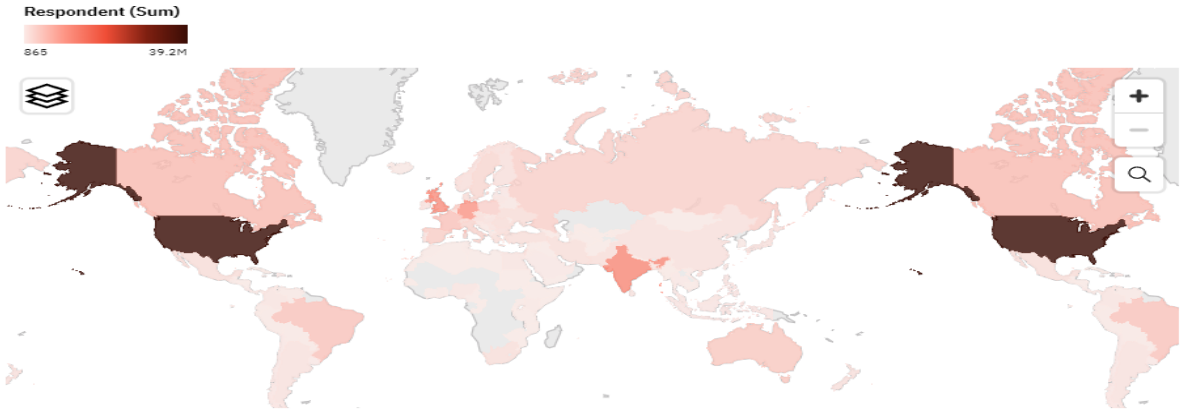
Filters

Current Technology Usage | Future Technology Trend | Demographics

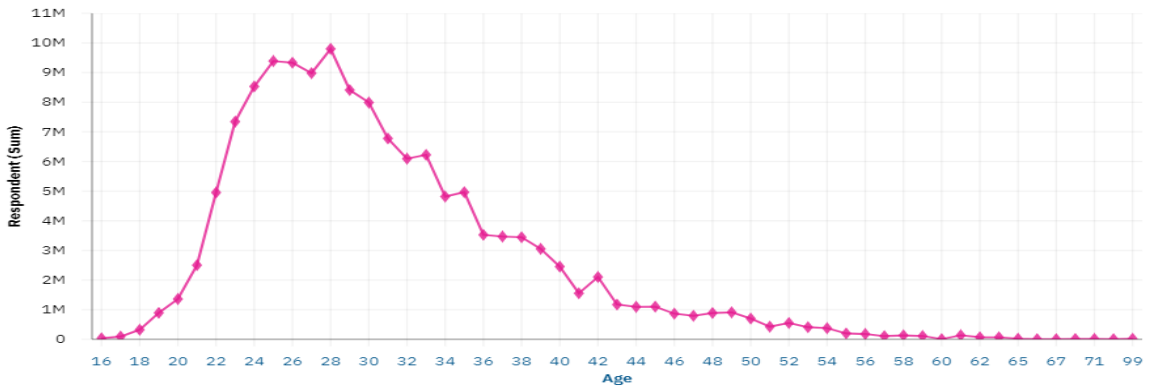
Respondent classified by Gender



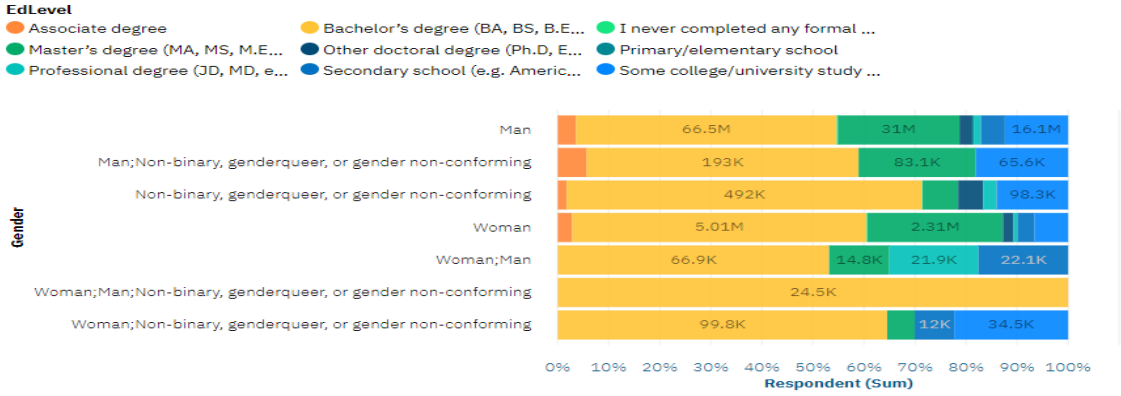
Respondent Count for Countries



Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level



powered by IBM Cloud Pak for Data

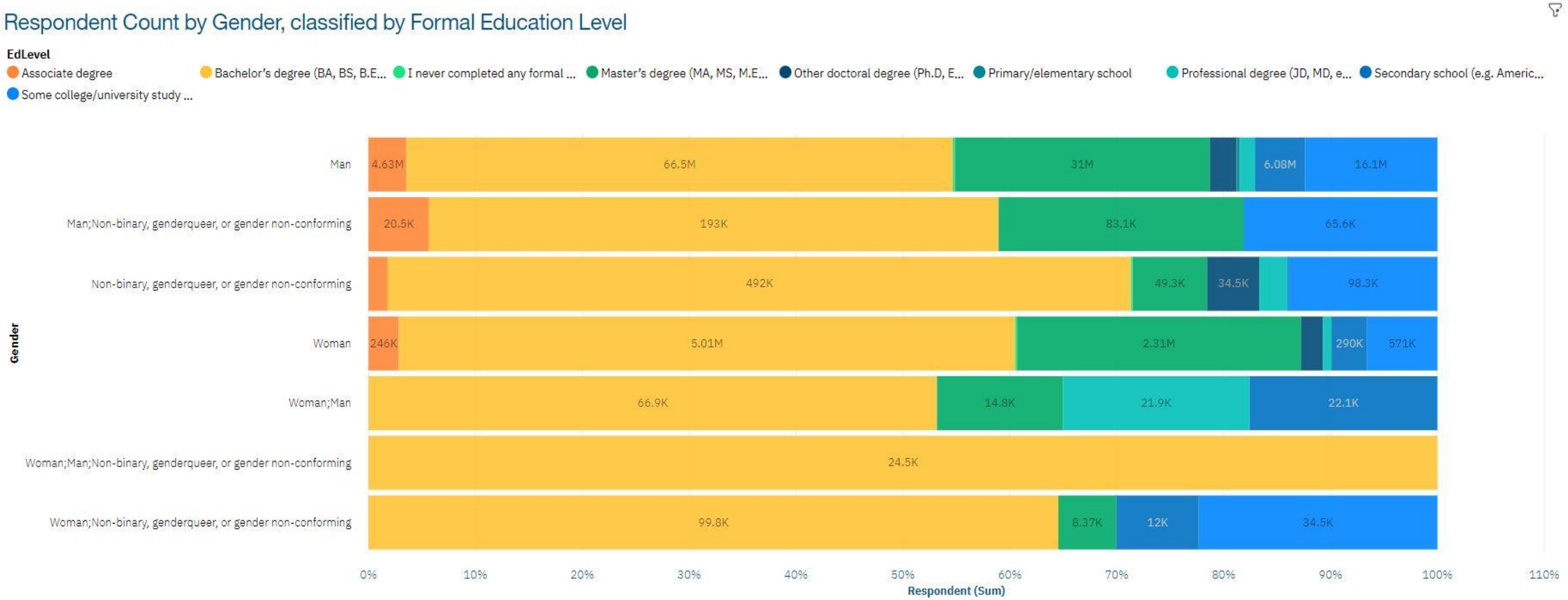
CONCLUSION

- Languages are actively and rapidly changing unlike DB & WF
- Most Respondents were from the US
- Survey respondents were of different Countries, Ages and Genders

APPENDIX

- Relevant charts

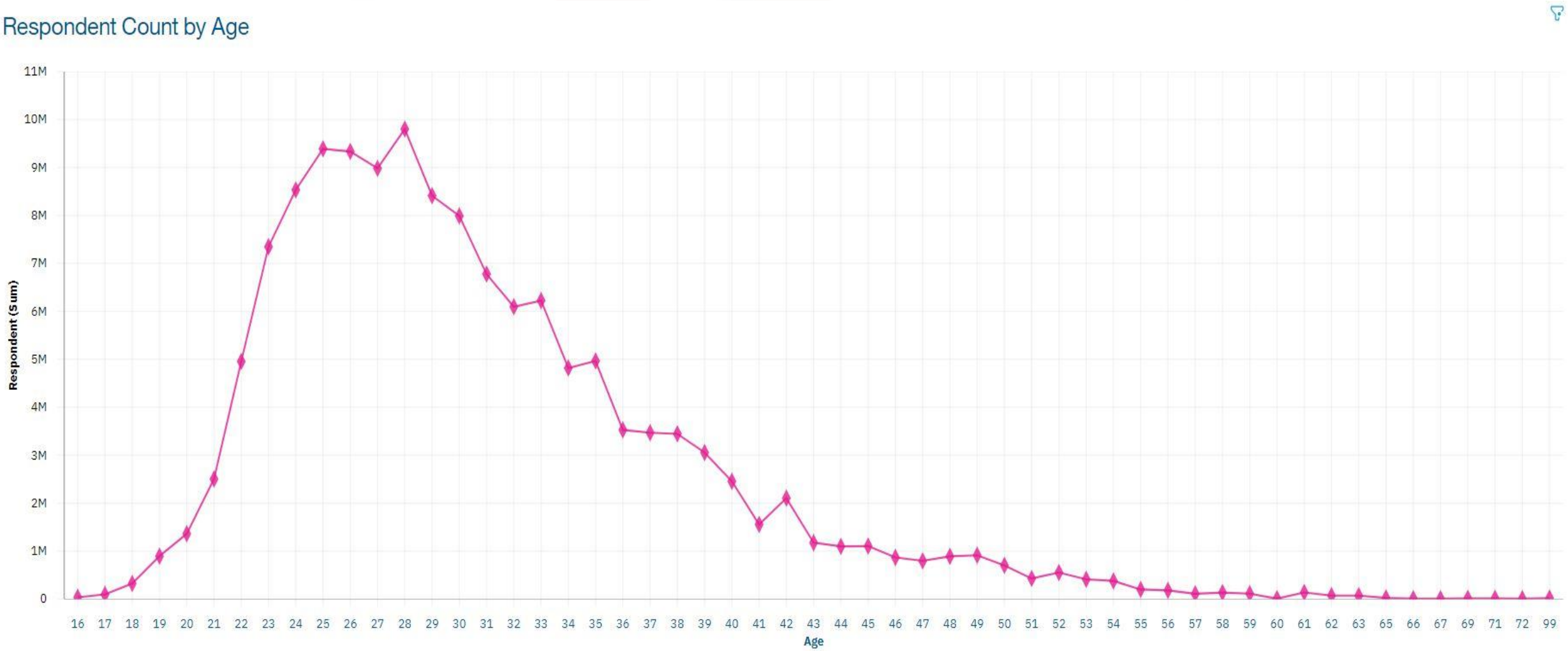
APPENDIX



IBM Developer

SKILLS NETWORK

APPENDIX

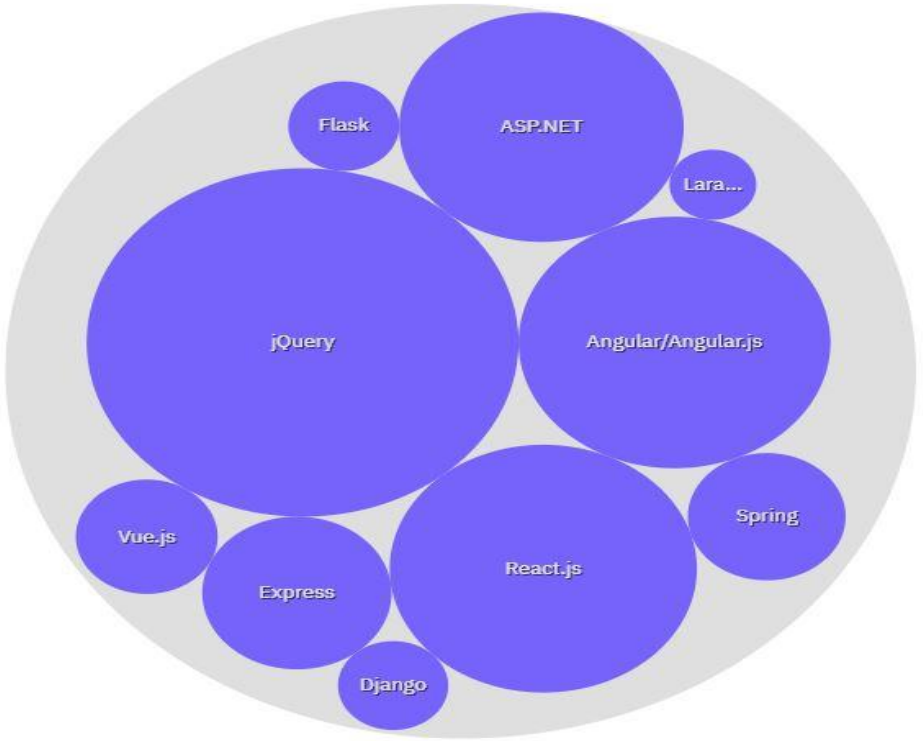

Respondent Count by Age
Respondent (Sum)
11M
10M
9M
8M
7M
6M
5M
4M
3M
2M
1M
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 67 69 71 72 99
Age

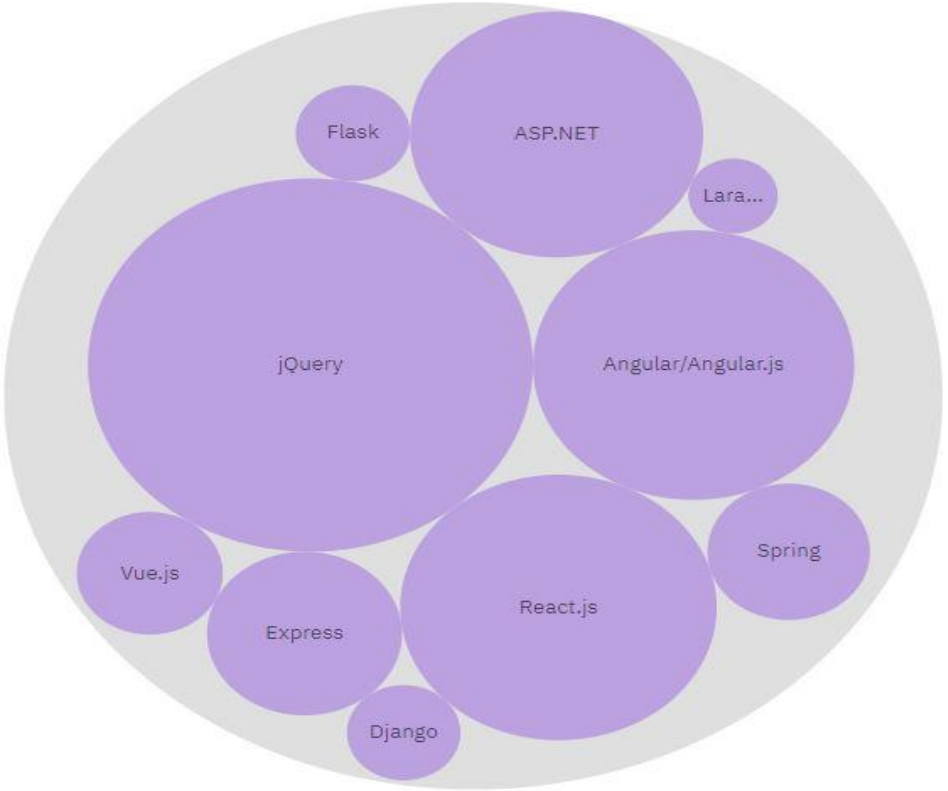
APPENDIX

Top 10 Web Frames worked with

Respondent (Sum)

11.5M 57.3M



APPENDIX

Top 10 WebFrames Anticipated next year