Tech Trends

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OUTLINE

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- Methodology
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  - Dashboard
- Discussion
  - Findings & Implications
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EXECUTIVE SUMMARY

- Present share of:
  - Programming Languages
  - Databases
  - WebFrames
  - Operating System
- Future Estimations:
  - Programming Languages
  - Databases
  - WebFrames
  - Operating System
- Demographic distribution of Developers
  - By Location and Gender

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INTRODUCTION

- To find various aspect and trends regarding developers to work with and to predict future developers.

- To check demographic and gender distribution of Developers around the world.

- Analyzing Trends
  - Last Year
  - Predicting next year trend

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METHODOLOGY

- Data collection with web scrapping APIs and request library
- Wrangling and Optimization/Normalization
- EDA to find outliers and , fluency and relation between data
- Visualization to see clear Prediction
- Dashboard to show live changes
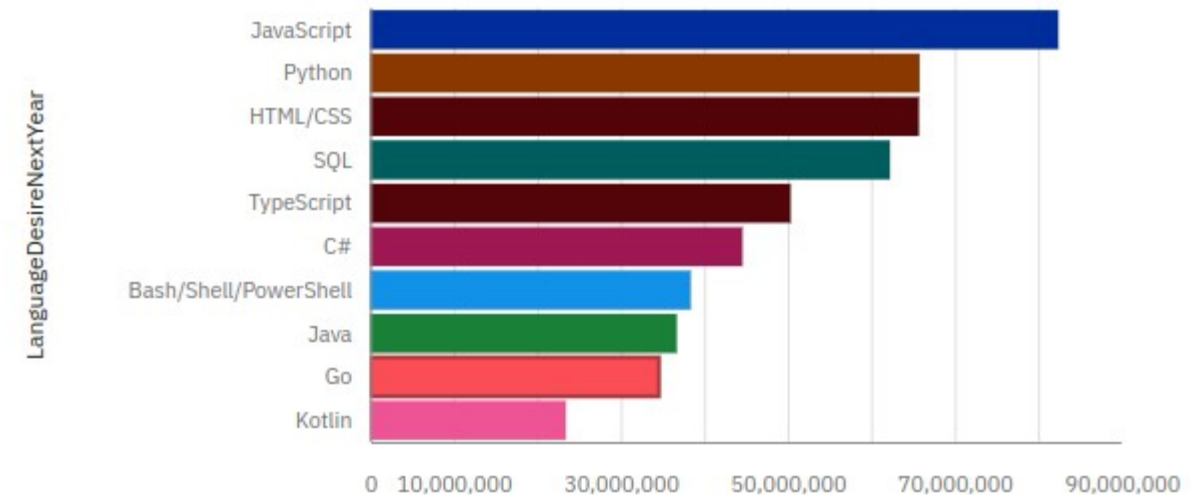- Other
  - GitHub Job Postings
  - Popular Languages

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PROGRAMMING LANGUAGE TRENDS

Current Year

Top 10 Languages
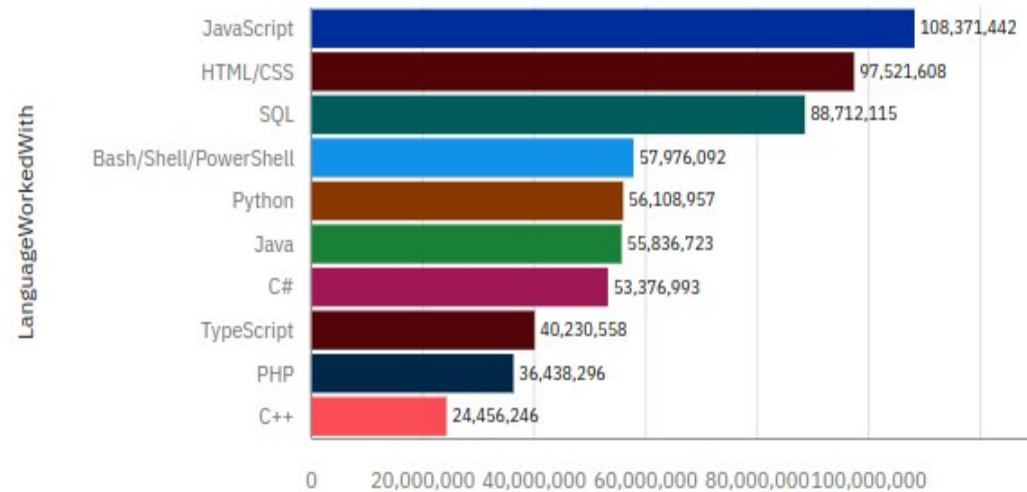
Next Year

Language Desire Next Year

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java Script HTML/CSS
- SQL has fair share
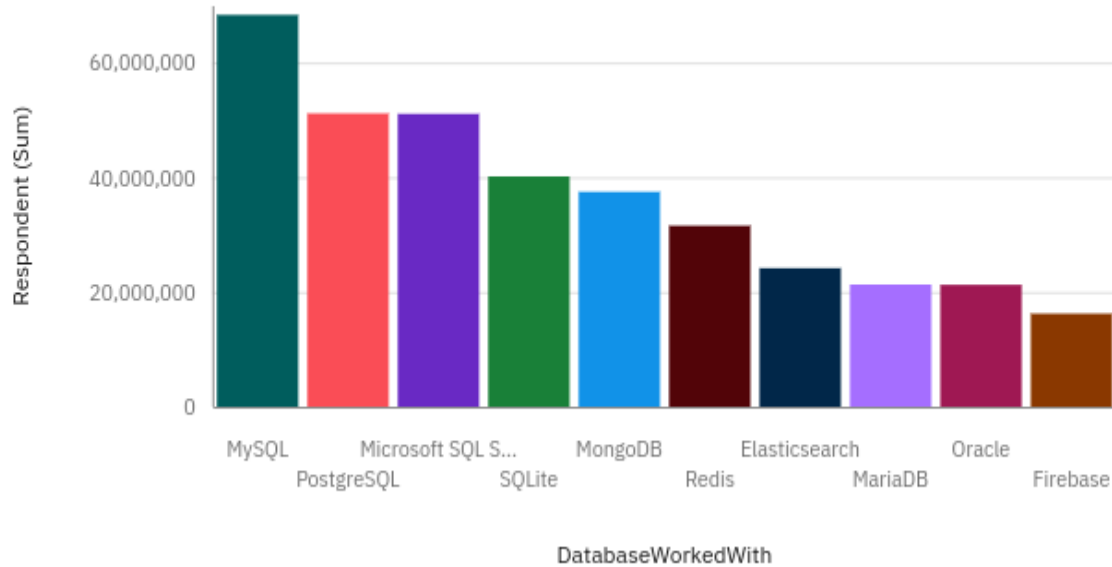- PowerShell & Python gaining fair share in future

Implications

New gen apps and web needs automation & it's scripts and Python, gona dominate future market.

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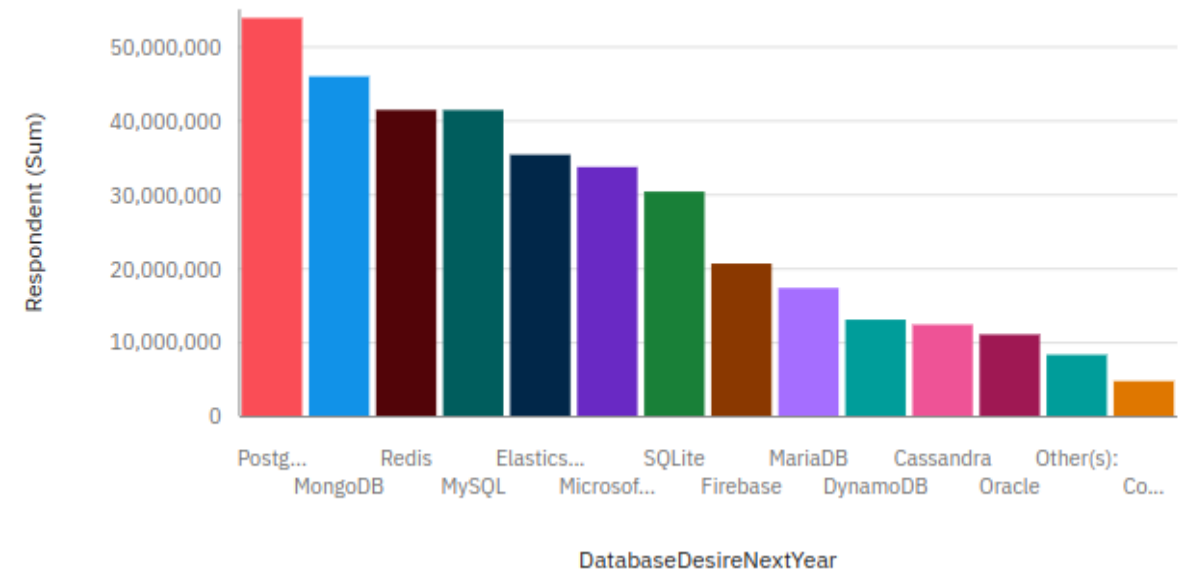
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DATABASE TRENDS

Current Year

Top 10 DatabaseWorkedWith

Next Year

Database Desire Next Year

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DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- My SQL domination
- PostgreSQL growing

Implications

- It looks like postgreSQL will have more share in industry.

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DASHBOARD

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders
%2Fm1demograpic_dash&id=i541DCFDD7C5D4ED3AD57C736BCC72FA0&objRef=i541DCFDD7C5D4ED3AD57C736BCC72FA0&options
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features&options%5Bcollections%5D%5Bbuttons%5D%5Bid%5D=com.ibm.bi.dashboard.buttons&options%5Bcollections%5D%5Bwidget%5D
%5Bid%5D=com.ibm.bi.dashboard.widgets&options%5Bcollections%5D%5BcontentFeatureExtension%5D%5Bid
%5D=com.ibm.bi.dashboard.content-features&options%5Bcollections%5D%5BsaveServices%5D%5Bid
%5D=com.ibm.bi.dashboard.saveServices&options%5Bcollections%5D%5Btemplates%5D%5Bid%5D=com.ibm.bi.dashboard.templates&options
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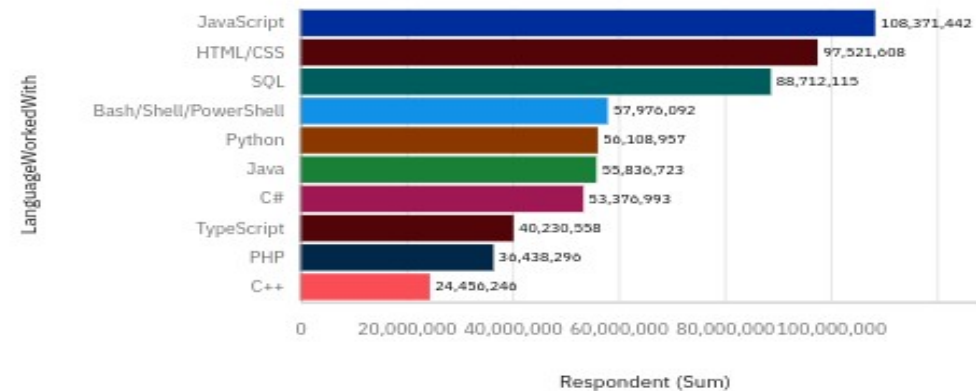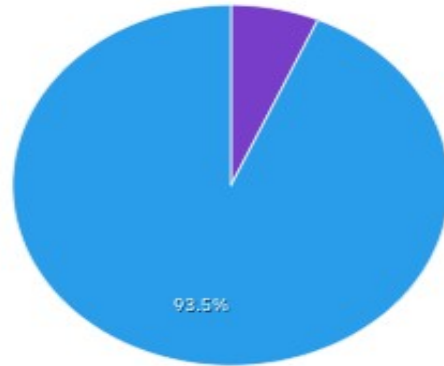
Current Tech Trend
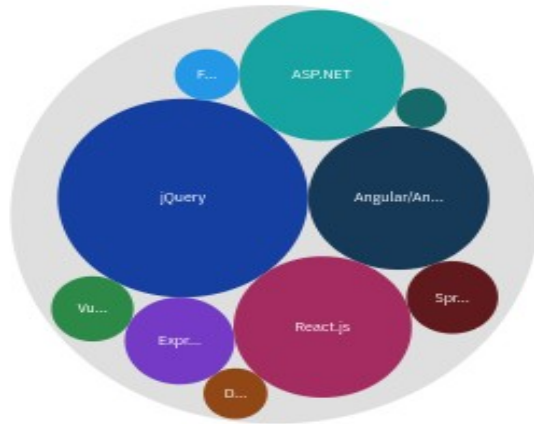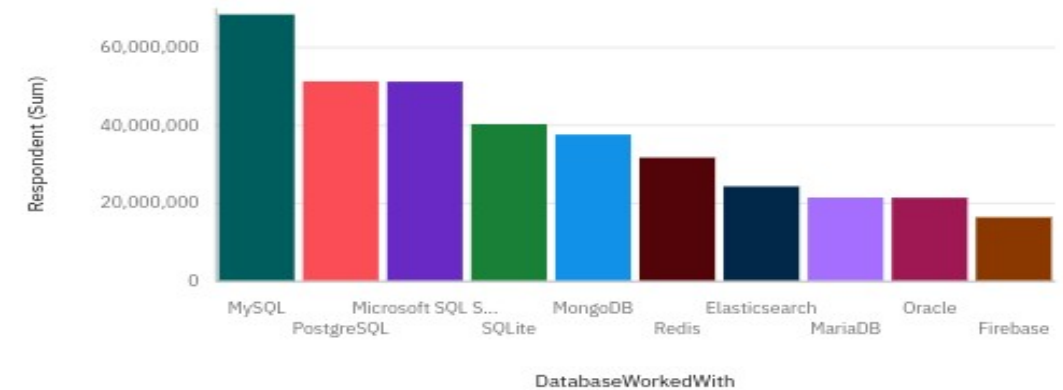
Tech Trend Expecting Next Year
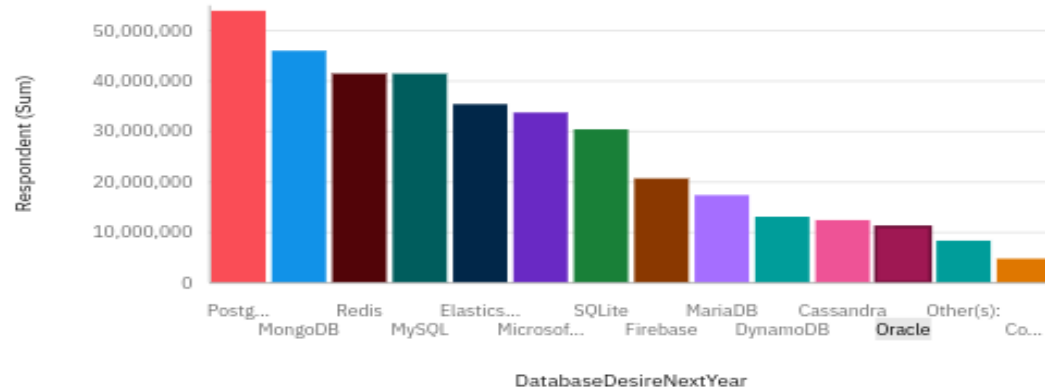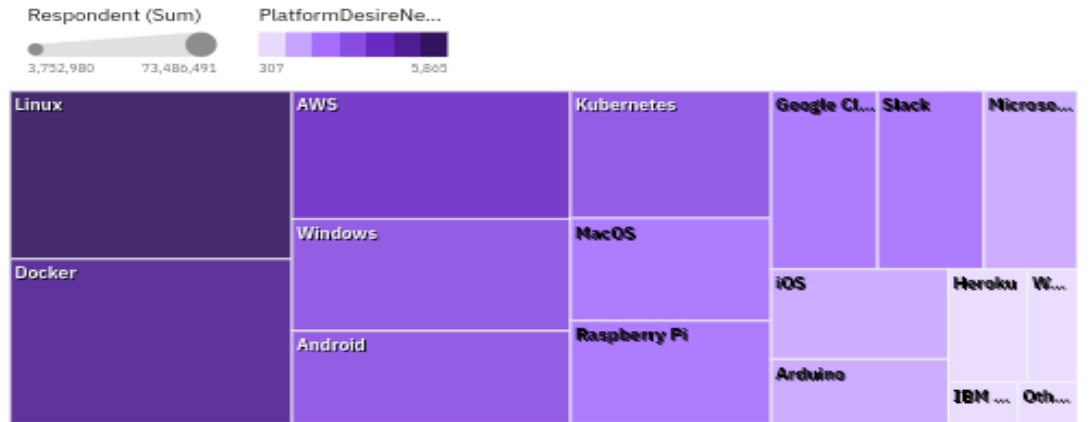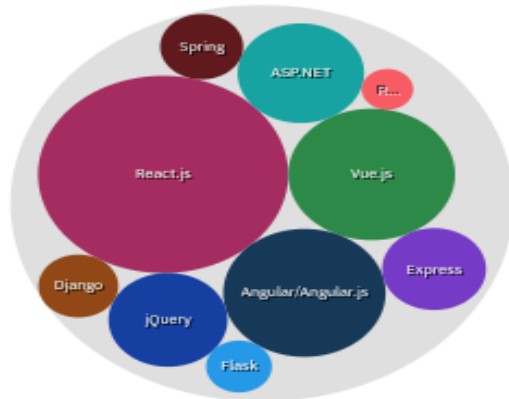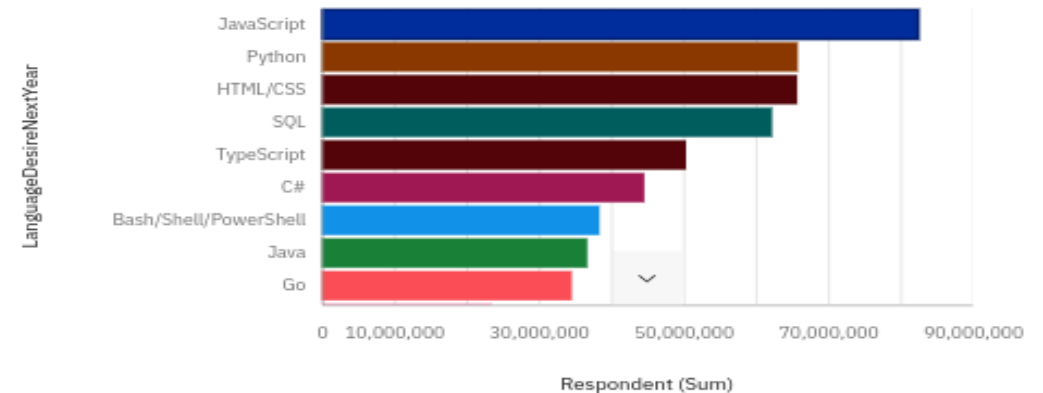
Tech Trend Demographically

Respondent classified by Gender
- Woman
- Man

93.5%

Respondent by Countries
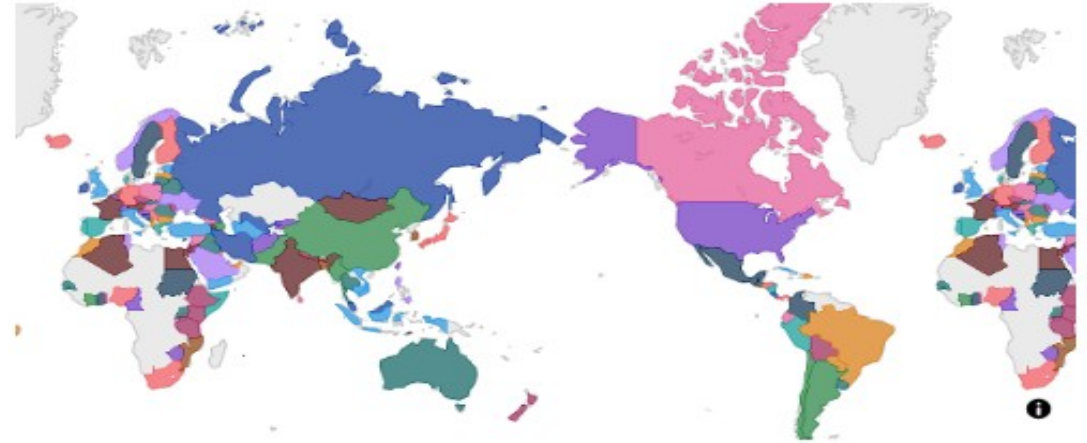
Respondent by Age
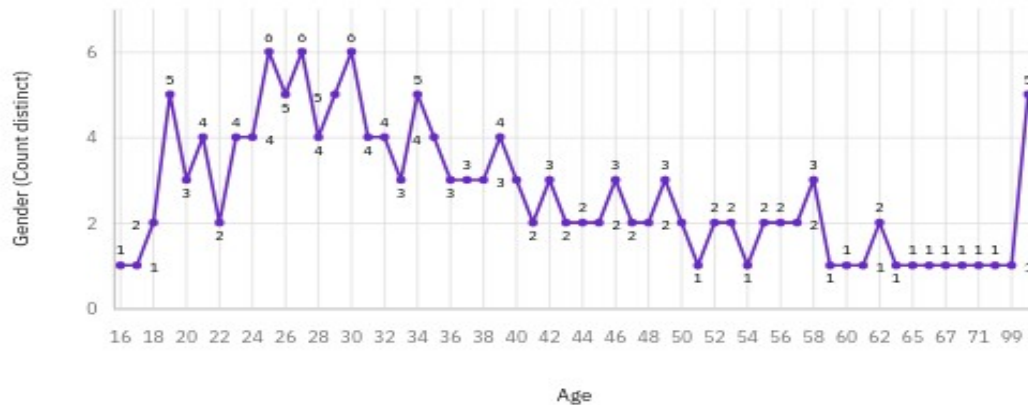
Respondent classified by Formal Education Level

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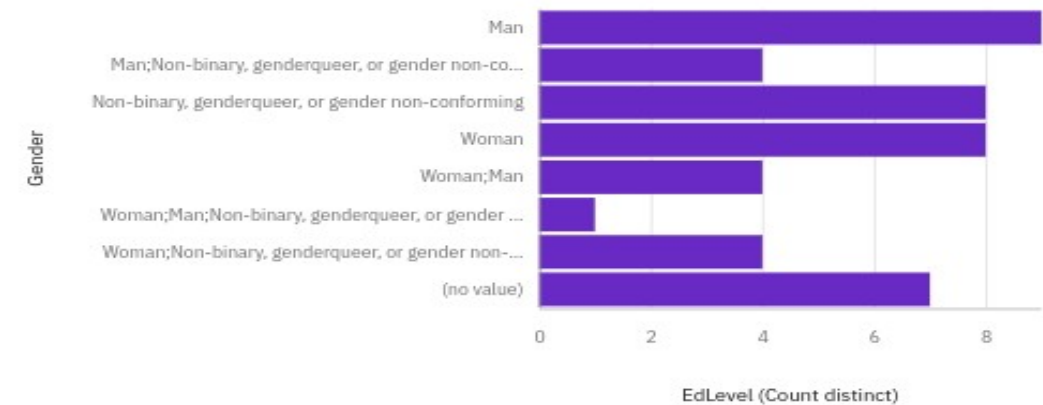
DISCUSSION

- Demographic data shows Male dominates at developer jobs
- Developer jobs occupied by young adults between 24-32 year old
- Most developers has done bachelor level education.

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OVERALL FINDINGS & IMPLICATIONS

- JavaScrapt widely used and TypeScript getting its popularity
Over 90% developers are Male and located in Developed countries

- Due to need of automation TypeScript will ganin users
Many developer are not undergrad.

- Windows, Linux & Docker dominating Platform.

- iQUERY, Angular, React having big share of WebFrame.

CONCLUSION

- Developer's have unique skillset
- Different trends are there but SQL dominates dev field.
- With collaboration bigger goals can be achieved easily
- Windows, Linux & Docker are most used platforms.
- iQUERY, React and Angular have great share in tech world.

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APPENDIX

- IBM cognos used for dashboarding

Data collected from https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m2_survey_data.csv

Data Used of:

StakOverflow survey

GitHub job posting

Popular languages

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POPULAR LANGUAGES