

<Future Tech Review>

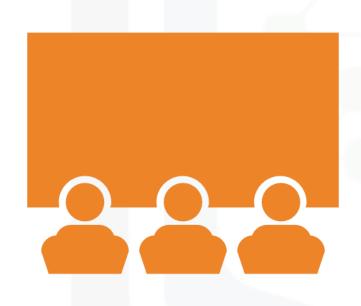
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<5/10/2022>





OUTLINE



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



- The most popular technologies are web-based one such as JavaScript, HTML.
- Among all web-based frame works, the hottest areas area React.js and jQuery.
- Windows and Linux still dominate all developing platforms.
- For mobile platform, Android wins by no contest.
- Although MySQL is still the most used database, MongoDB and PostgreSQL show increasing trend of applying in the future.

INTRODUCTION



- The technology market changes quickly every year.
- It is important to catch-up with the latest technology in each field.
- The comparison between current & next year technology trend will provide great inside into the market.
- The study consist of 4 main parts:
 - Top language using
 - Top database using
 - Top platform using
 - Top web frame using

METHODOLOGY



- The technology trend is studied by comparing current and future technology usage.
- The data was from the 'Stack Overflow Developer Survey 2019'.
- Different type of charts, such as bar, line, pie, tree-map ... will be used to visualize the result.
- The IBM dashboard is used to analyses data and create visualization.

RESULTS

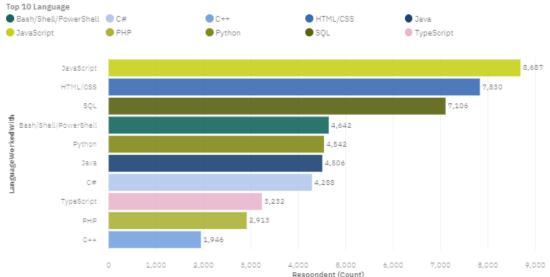


- The results consists of 4 main parts:
 - Programming language trend
 - Database trend
 - Platform trend
 - Web frame trend

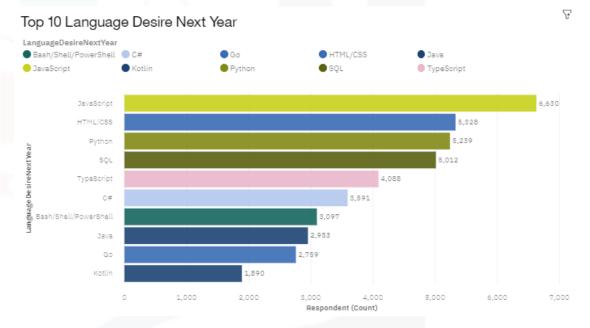
PROGRAMMING LANGUAGE TRENDS

Current Year

Top 10 Language Worked With



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

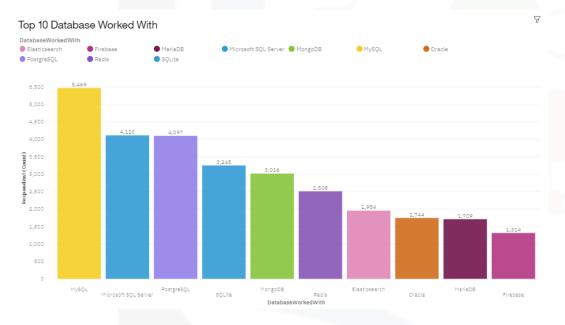
Findings

- JavaScript & HTML/CSS are top programming languages for both current and future trend.
- Python moves from 5th position to 3rd position in top 10.
- C++ and PHP area disappearing from top 10.

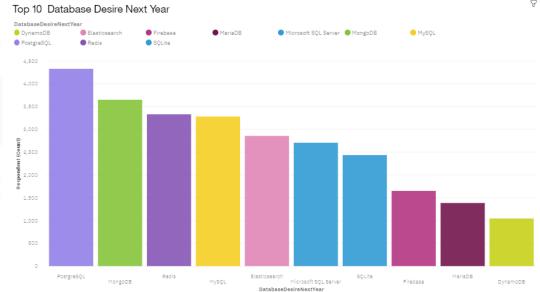
- Web programming languages still stay dominance in near future.
- Python & data science is becoming more and more important.
- Legacy language such as C++, PHP ... are gradually falling out of interest.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MongoDB & Redis quickly moves up to No.2 and No.3
- PostgreSQL moves from No.3 to No.1
- MS SQL server drops from No.2 to No.5
- Oracle disappear from top

- Open source database becomes more and more popular compared with commercial one.
- Non-relational database see increasingly usage in the future.
- Relational database still takes a leading position in the near future.

PLATFORM TRENDS

Current Year

Platform Worked With Respondent (Cou... AWS Google Cloud Platform Heroku Linux Raspberry Pi Google Cloud Platform Google Cloud Platform Microsoft Azure IOS Arduino Raspberry Pi Google Cloud Platform Microsoft Azure IOS Arduino Raspberry Pi Google Cloud Platform Microsoft Azure IOS Arduino Raspberry Pi Google Cloud Platform Microsoft Azure IOS Arduino Raspberry Pi Google Cloud Platform Microsoft Azure IOS Raspberry Pi Google Cloud Platform Microsoft Azure IOS Raspberry Pi Microsoft Azure IOS

Next Year

Platform Desire Next Year



PLATFORM TRENDS - FINDINGS & IMPLICATIONS

Findings

- Windows and Linux still dominates the platform trend.
- Android is No.1 in mobile platform.
- Cloud platform such as Kubernetes,
 Docker, AWS is getting more and more market share.

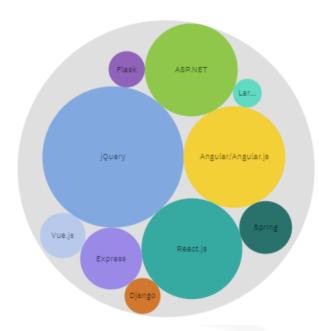
- Windows and Linux are still main developing platform in a foreseeable future.
- The transformation to cloud computing is a non-reversible process.

WEB FRAME TRENDS

Current Year

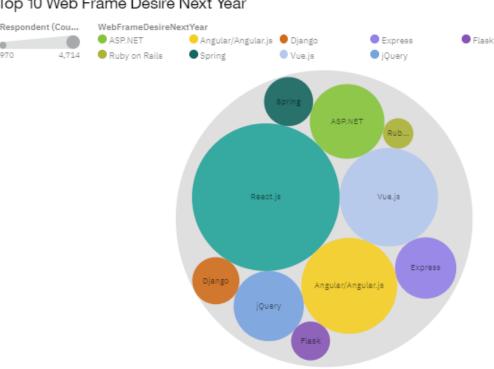
Top 10 Web Frame Worked With





Next Year

Top 10 Web Frame Desire Next Year



WEB FRAME TRENDS - FINDINGS & IMPLICATIONS

Findings

- jQuery decreases from No.1 to No.4.
- React.js moves up from No.3 to No.1
- Vue.js moves from No.9 to No.3.
- Angular.js stays at same position.

- jQuery quickly loses market share show lack of interest in its future development.
- React.js and Vue.js becomes the new standard for web frame development.

DASHBOARD

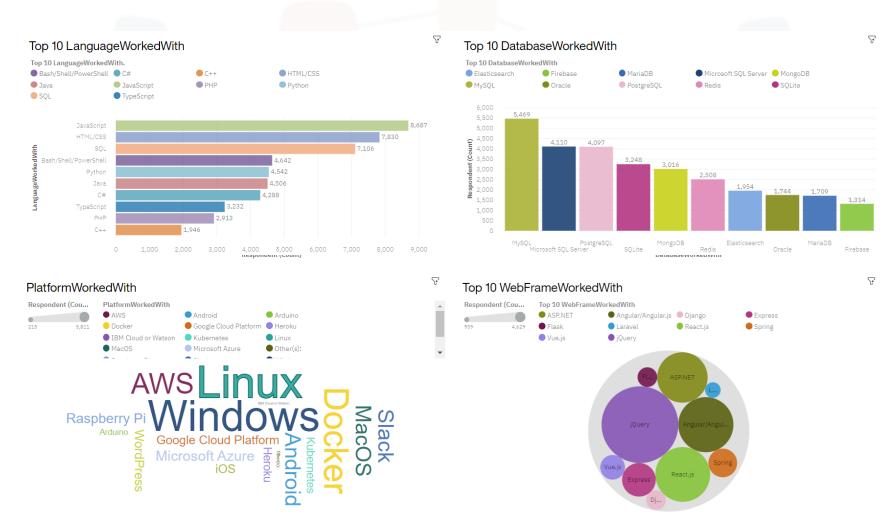


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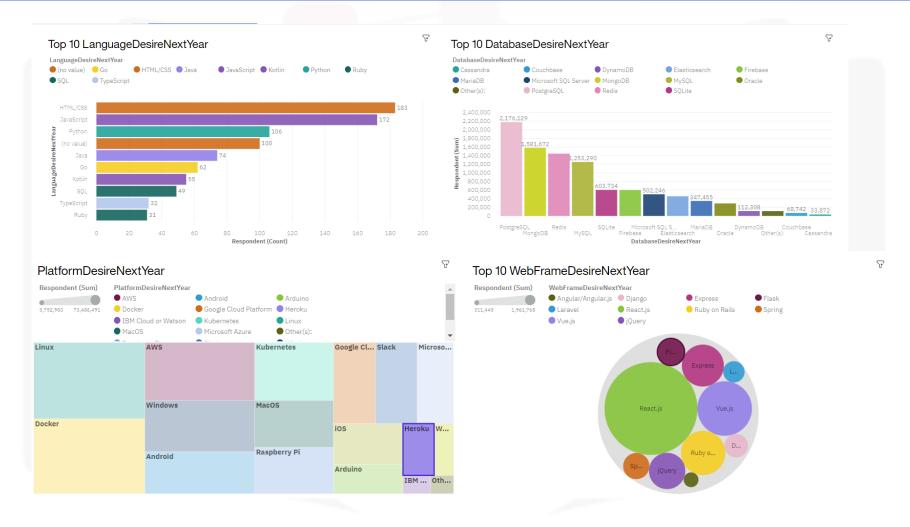
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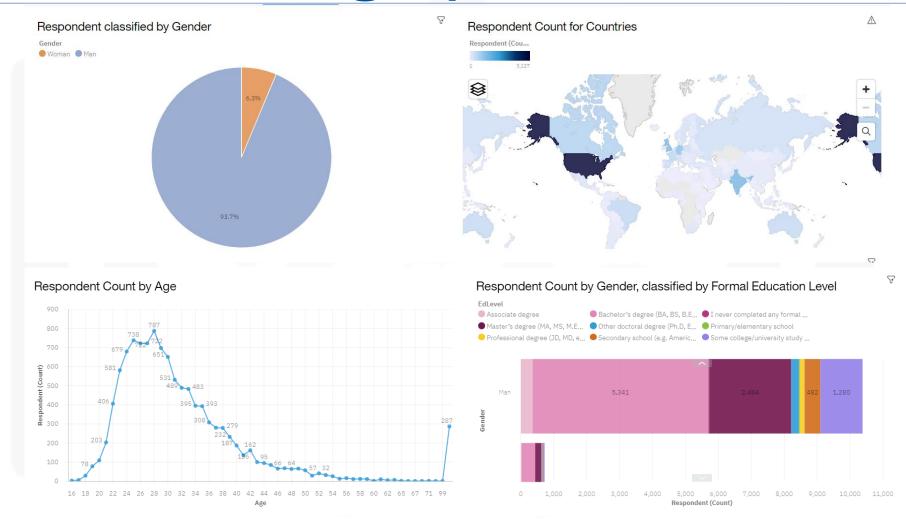
DASHBOARD Current Technology Usage



DASHBOARD Future Technology Trend



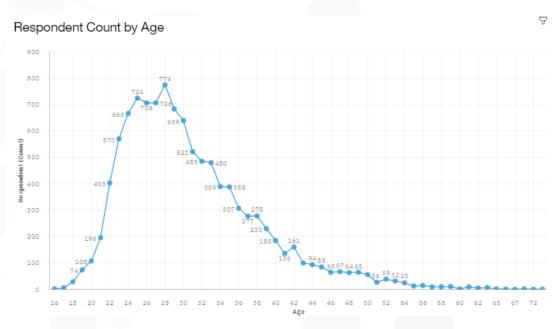
DASHBOARD Demographics





DISCUSSION





 Majority of respondents are at young age (20, 30s) → this could skew the result in favor of new technology.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Web based language stays at No.1
- Non-relational database moves to No.2 & No.3
- Cloud-based platform moves to No.1
- React.js stays at No.1 on web framework.

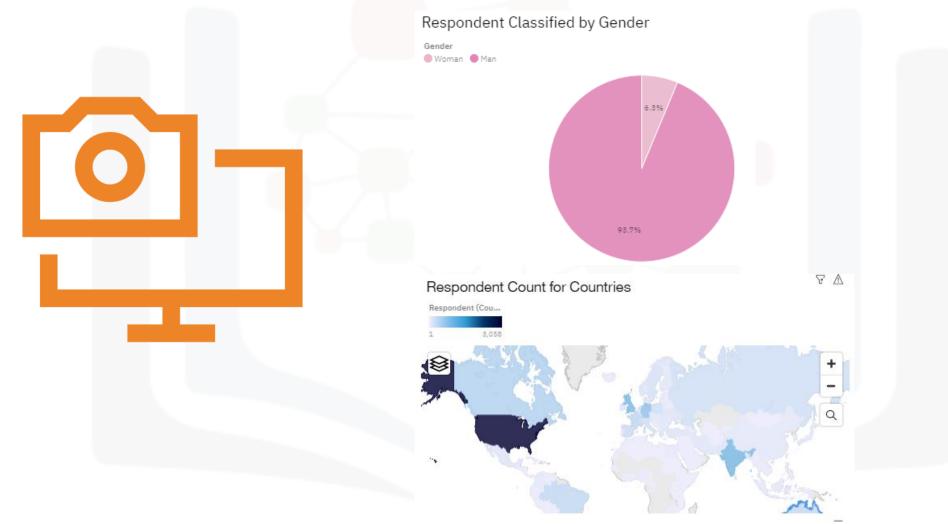
- Web based application is taking over the traditional application.
- Non-relational database sees increasing adoption.
- Cloud-based services become topchoice for platform development.

CONCLUSION

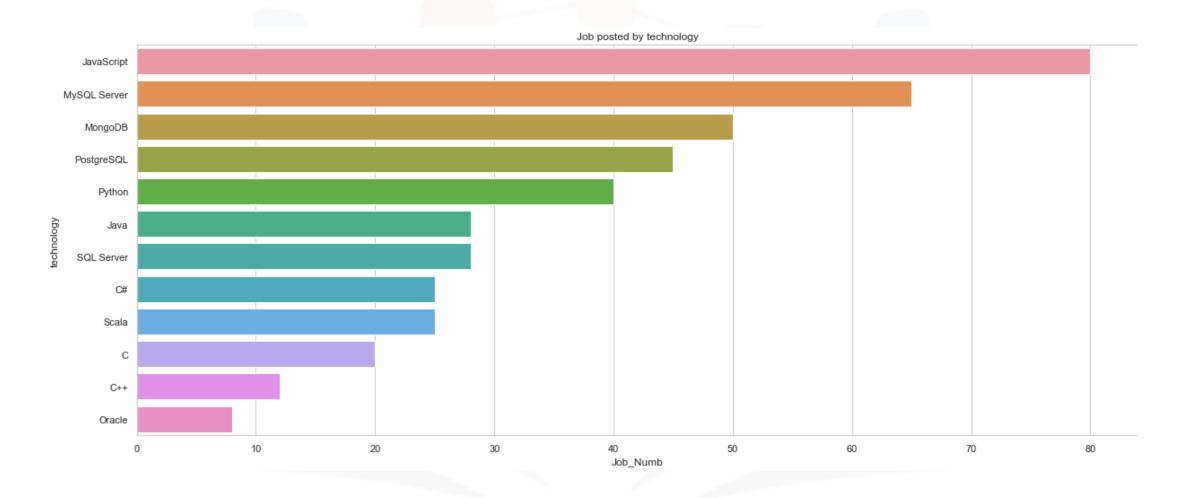


- To stay relevant in the technology field, it's important to learn web-based language & non-relational database.
- Among web framework, React.js is the best to learn for your future.
- Cloud-based service is the right direction for IT investment.

APPENDIX



GITHUB JOB POSTINGS







POPULAR LANGUAGES

