

# Technology: Now and Future

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# OUTLINE



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- Discussion
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- Conclusion
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## **EXECUTIVE SUMMARY**



- The most used technology nowadays such as Javascript for Programming Language, MySQL for Database, Windows and Linux for Platform, and jQuery for Web Frame
- Top technology that might be trend in the future such as Javascript for Programming Language, PostgreSQL for Database, Linux and Docker for Platform, and React.js for Web Frame
- Programming Language for Web Development such as Javascript and HTML/CSS are and will still be the trend in industry, followed by SQL and Python
- PostgreSQL potentially take top spot of database ranking from MySQL in the future
- Linux is the leader for platform used and still will be in the future
- React.js catches the attention of web developer, likely take top spot of Web Frame from jQuery in the future

# INTRODUCTION



- This study will cover trend of technology in current time and in the future
- Programming language, database, platform, and web frame usage are some of the technology that could represent technology trend
- Reader are expected to gain new knowledge about technology trend from the presentation provided
- This study might give developer insight on future trend of technology

# **METHODOLOGY**



- Data used in this study generated from survey that has been done before and already normalized.
- Trend change in this study are based on currently used technology compared to next year technology consideration
- Trend calculation in this study are based on 4 representative technology:
  - Top Programming Language
  - Top Database
  - Top Platform
  - Top Web Frame
- This study using different type of chart that considered appropriate with data used
- IBM Cognos Analytics is the software used to visualize data



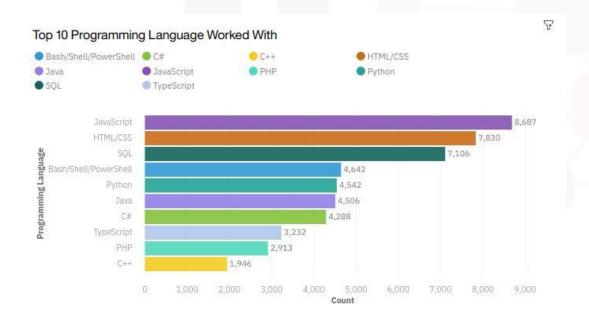
# **RESULTS**

The results consists of 4 main parts:

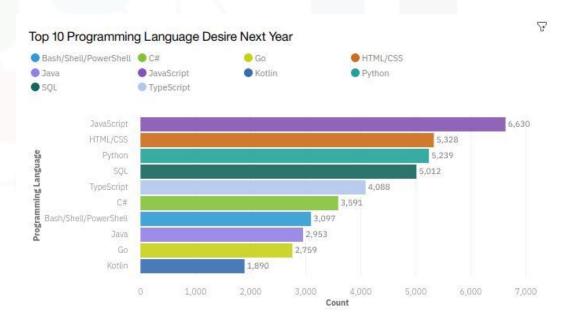
- Programming language trend
- Database trend
- Platform trend
- Web frame trend

# PROGRAMMING LANGUAGE TRENDS

#### **Current Year**



#### **Next Year**



#### PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

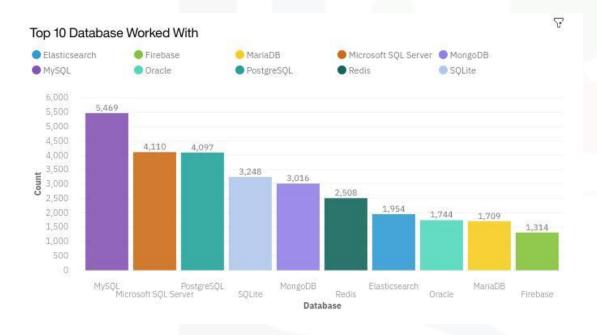
#### **Findings**

- JavaScript & HTML/CSS are top programming languages for both current and future trend.
- Python climb to top 3 programming language for the future
- Newer language such as Kotlin and GO come to top 10,

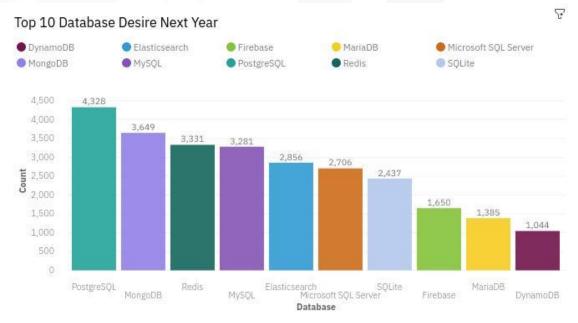
- Web programming languages still stay dominance in near future.
- Python widely usage in data science probably the reason python become more popular
- Newer language attract developer more than old language

# DATABASE TRENDS

#### **Current Year**



#### **Next Year**



# DATABASE TRENDS - FINDINGS & IMPLICATIONS -

#### **Findings**

- PostgreSQL take top database spot from MySQL
- Oracle disappearing from top 10 future database
- Most of top database list are relational database

- PostgreSQL becoming more popular database to learn
- Oracle that is one of the best known database becoming less attracting to study in the future
- Relational database still dominating database market

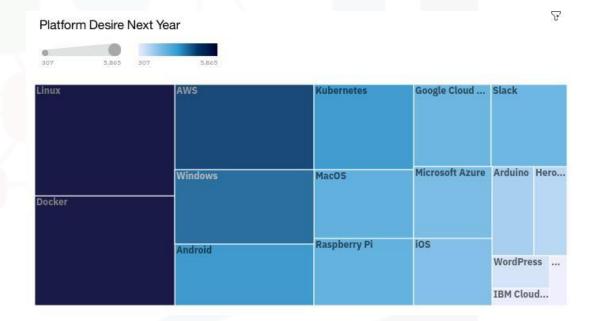


# PLATFORM TRENDS

#### **Current Year**



#### **Next Year**



#### PLATFORM TRENDS - FINDINGS & IMPLICATIONS

#### **Findings**

- Windows, Docker and Linux still dominates the platform market.
- Android still will rank better than iOS in mobile OS
- AWS still the leader of cloud computing platform

- Windows and Linux tightly compete for PC OS left MacOS behind
- Android phone have more user than apple phone
- AWS service still getting better and better

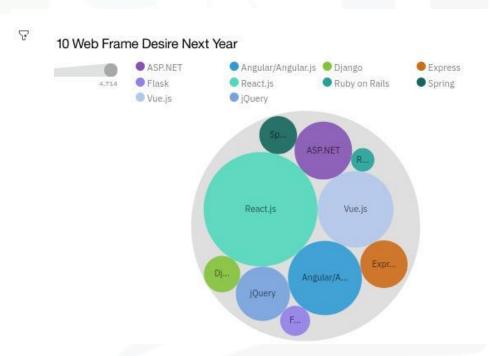


# WEB FRAMEWORK TRENDS

#### **Current Year**

# Top 10 Web Frame Worked With ASP.NET Angular/Angular.js Flask Vue.js Angular/Angular.js Pjango React.js Spring Yue.js Yue.js ASP.NET L... JQuery React.js Spring Spring

#### **Next Year**



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#### WEB FRAME TRENDS - FINDINGS & IMPLICATIONS

#### **Findings**

- React.js take top web frame spot from jQuery
- Vue.js move far up to top 3 web frame
- JQuery that previously top web frame, have to fall out of top 3 list

- React.js become the new favorite web frame
- Vue.js significantly attract web developer to study it
- JQuery might left behind on innovation compared to webframe like React, js or Vue.js

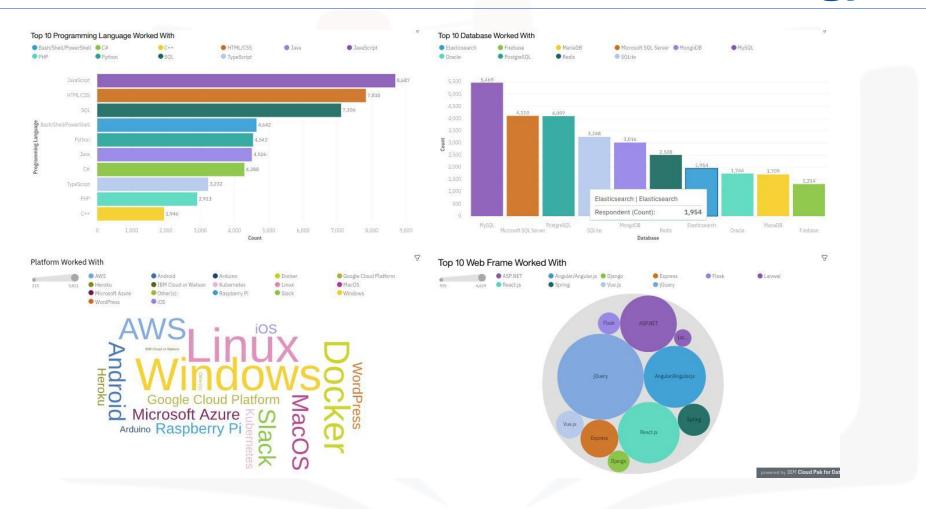
# **DASHBOARD**



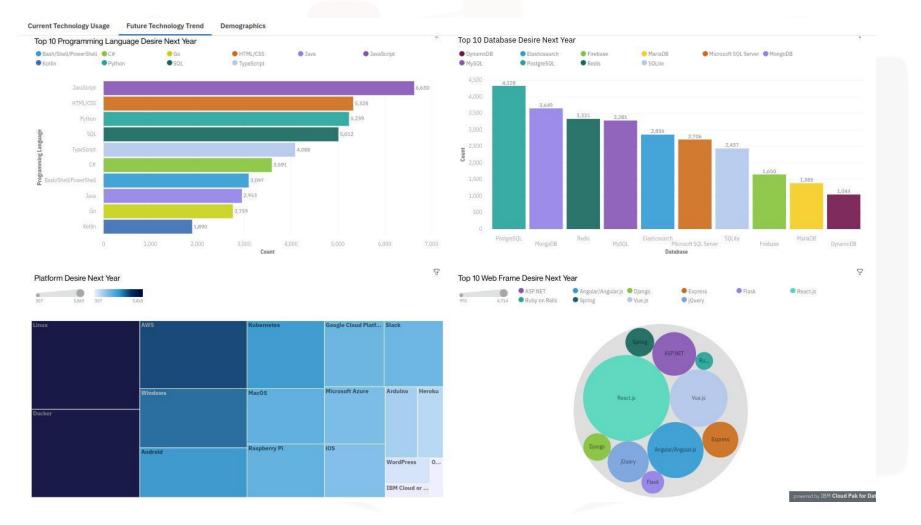
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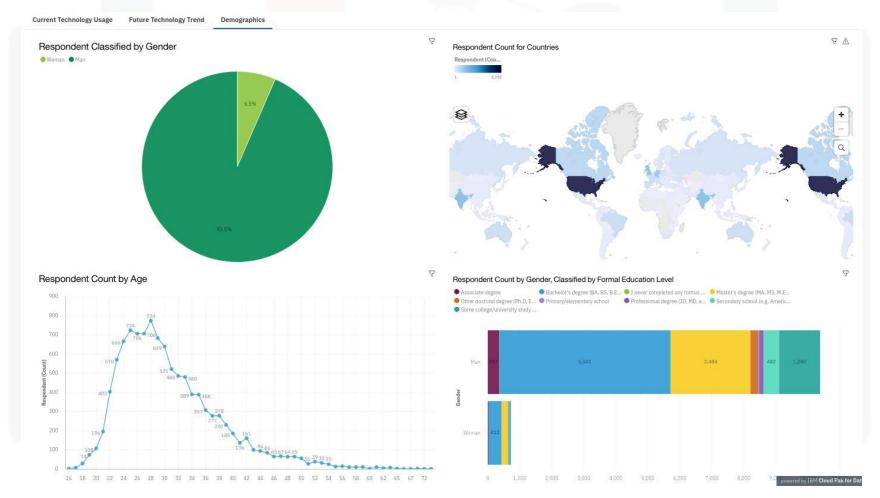
# DASHBOARD TAB 1: Current Technology Usage



# DASHBOARD TAB 2: Future Technology Trend



# DASHBOARD TAB 3: Demographics



# **DISCUSSION**



- What technology will be relevant in the future
- What should developer do to keep up with the market of technology?
- What kind of technology will be trend in the future?

# OVERALL FINDINGS & IMPLICATIONS

#### **Findings**

- Newer technology getting more recognition by developer to study
- Web development technology keep growing and still being the leader of the software industry
- Data science technology get more attention than ever before

- Older technology should have innovation to keep up with market
- Web Developer job still have wide market in the future
- More company doing data science to increase their business



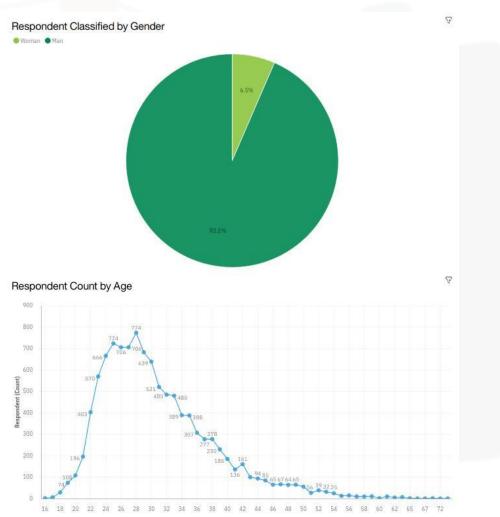
# CONCLUSION



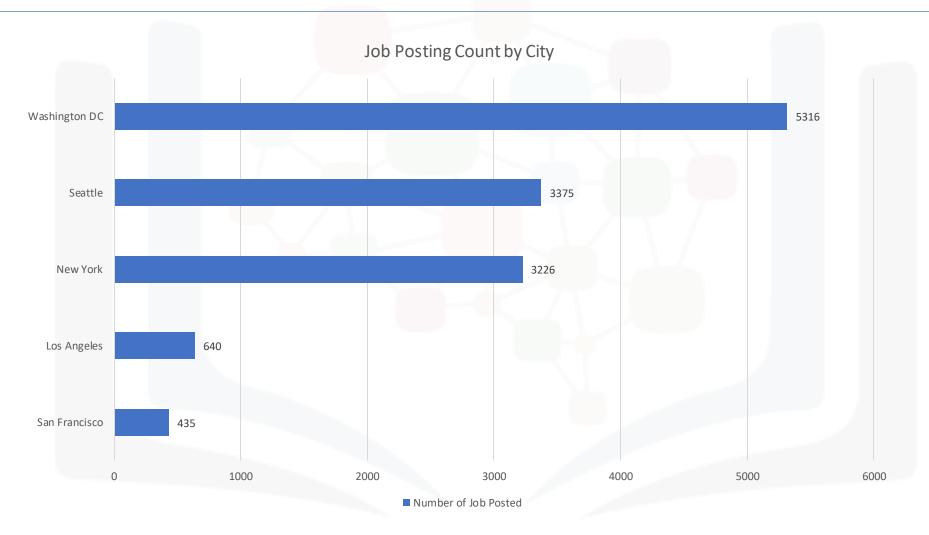
- Trend of technology shifting quickly every year
- Every year, people will consider learning newer technology to catch up with market demand
- To keep up with today industry, older technology should have innovation in their product

# **APPENDIX**





# JOB POSTINGS



# POPULAR LANGUAGES

