

# Data Analysis

*Analyzing Future skills requirement*



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# Summary



## Introduction:

As a Data analyst at a leading global IT and business consulting service firm, our commitment is to regularly analyzes data to help identify future skill requirements.

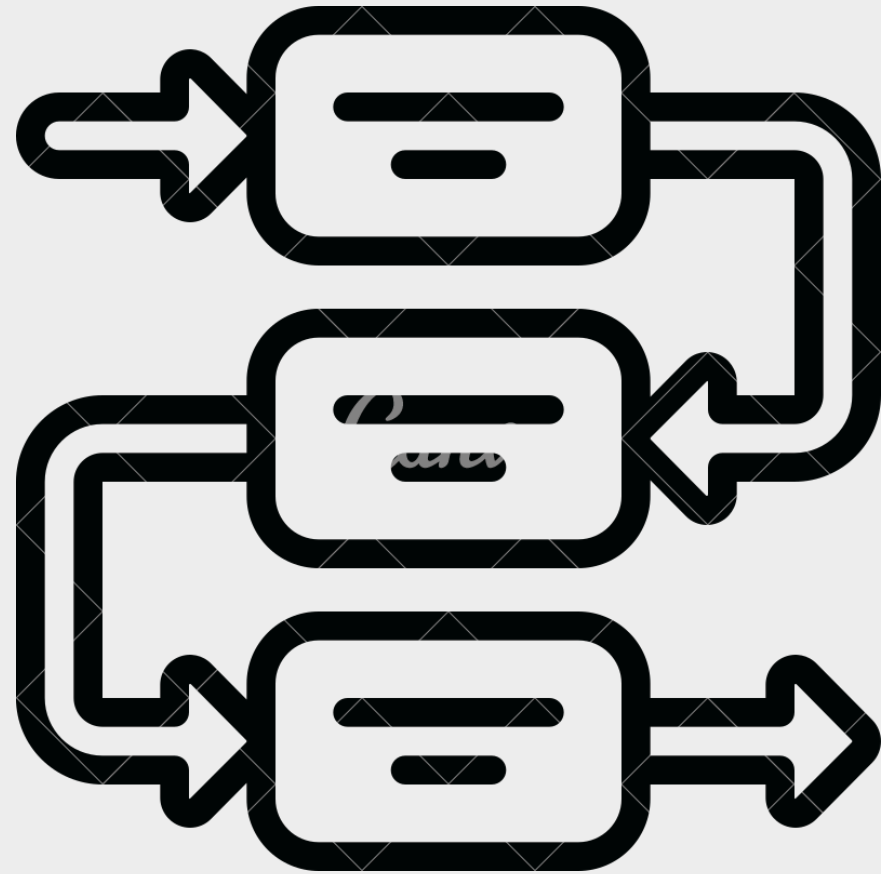
## Purpose:

This presentation provides a comprehensive analysis of both current and emerging skill requirements, derived from extensive data collection.

## Objectives:

Equip our team of IT consultants with insights needed to anticipate future demands in order to maintain competitive edge.

# Methodology



## Description:

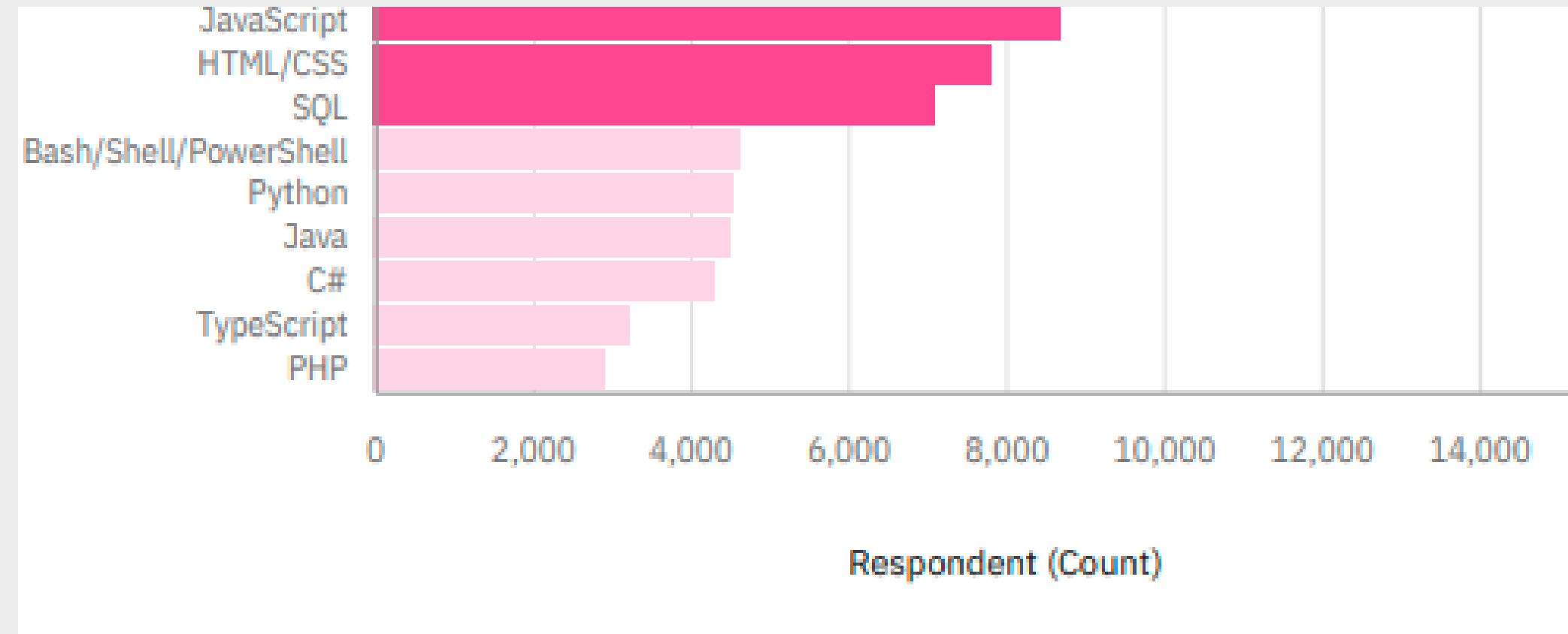
The data used in this study was from <https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-results-are-in/>

Throughout the data analysis process, I have accomplished data collection, data cleaning, data exploration (including distribution and outlier analysis) and the visualization of data distributions and relationships.

## Tools used

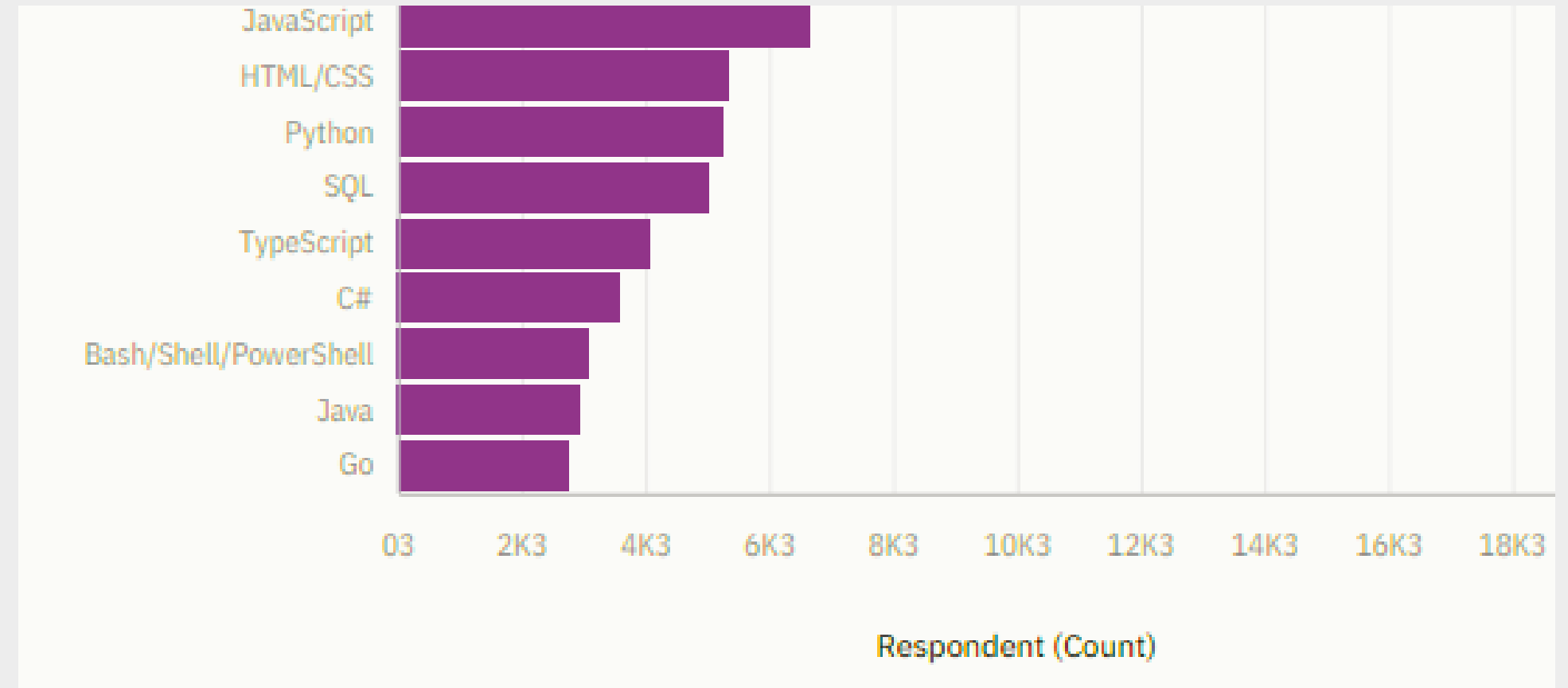
- IBM cognos analytics
- Pandas
- Numpy
- Matplotlib

# Top Programming Language For Current Year



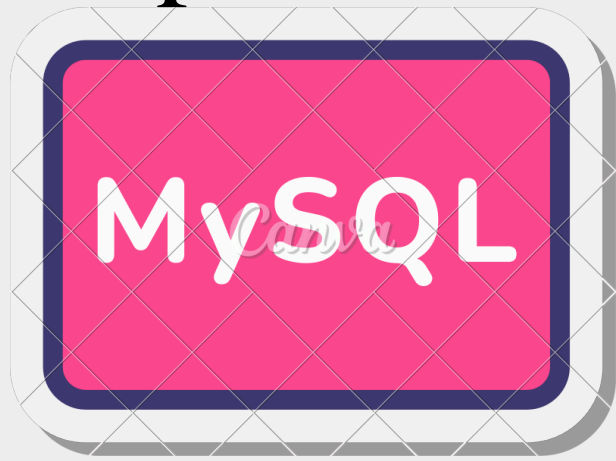
- JavaScript is the most popular programming language used this year.

# Top Programming Language For Future

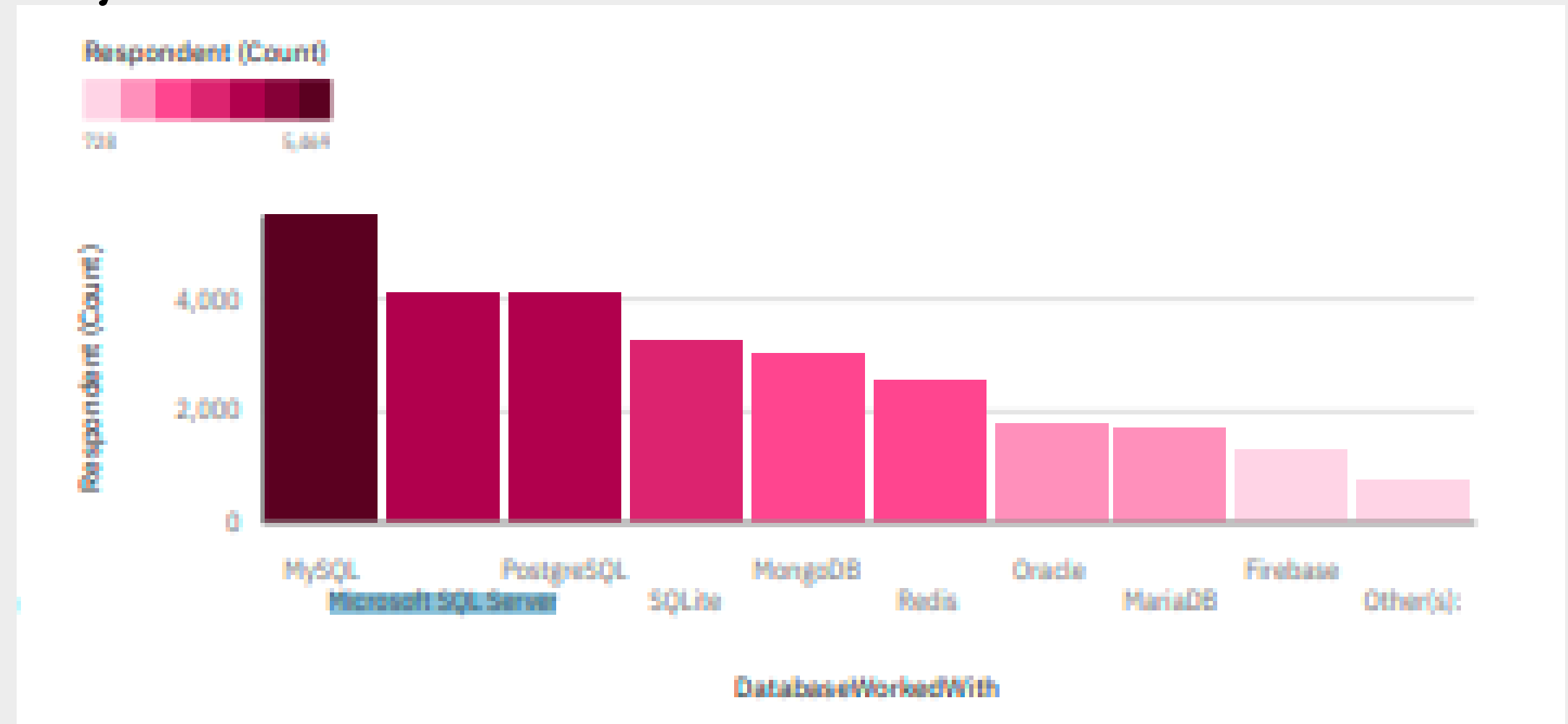


- JavaScript will be the most Popular programming language in future year.
- HTML is the second most popular language
- Python is a language that grows fast, within a year, the number of users increased almost by 10%.

# Top 10 Databases used Currently



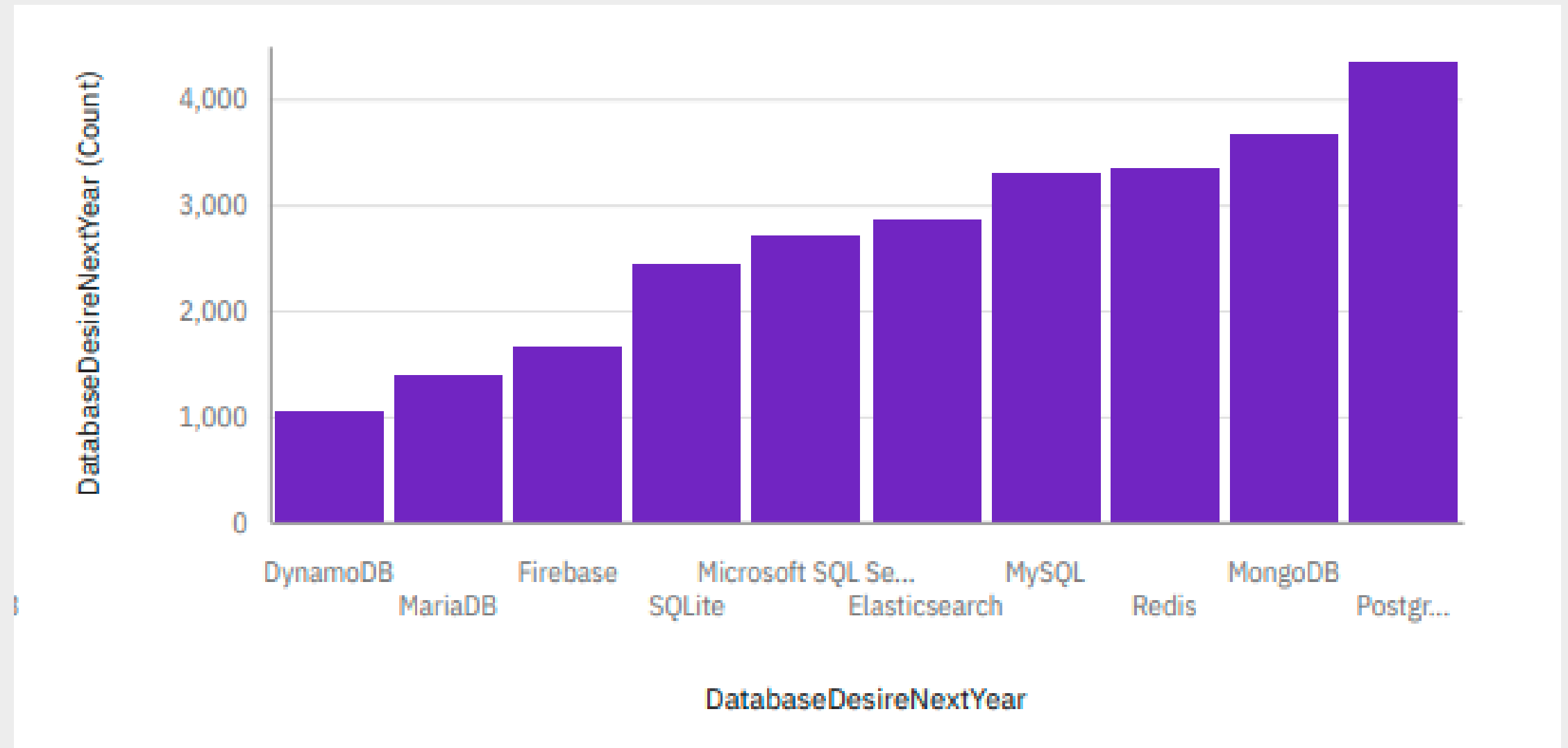
- MySQL is the most popular Database used in the current year.
- Microsoft SQL Server ranked second database
- Followed by PostgreSQL



# Top 10 Databases use for Future



- PostgreSQL is the most popular database used.
- MongoDB ranked second, followed by Redis





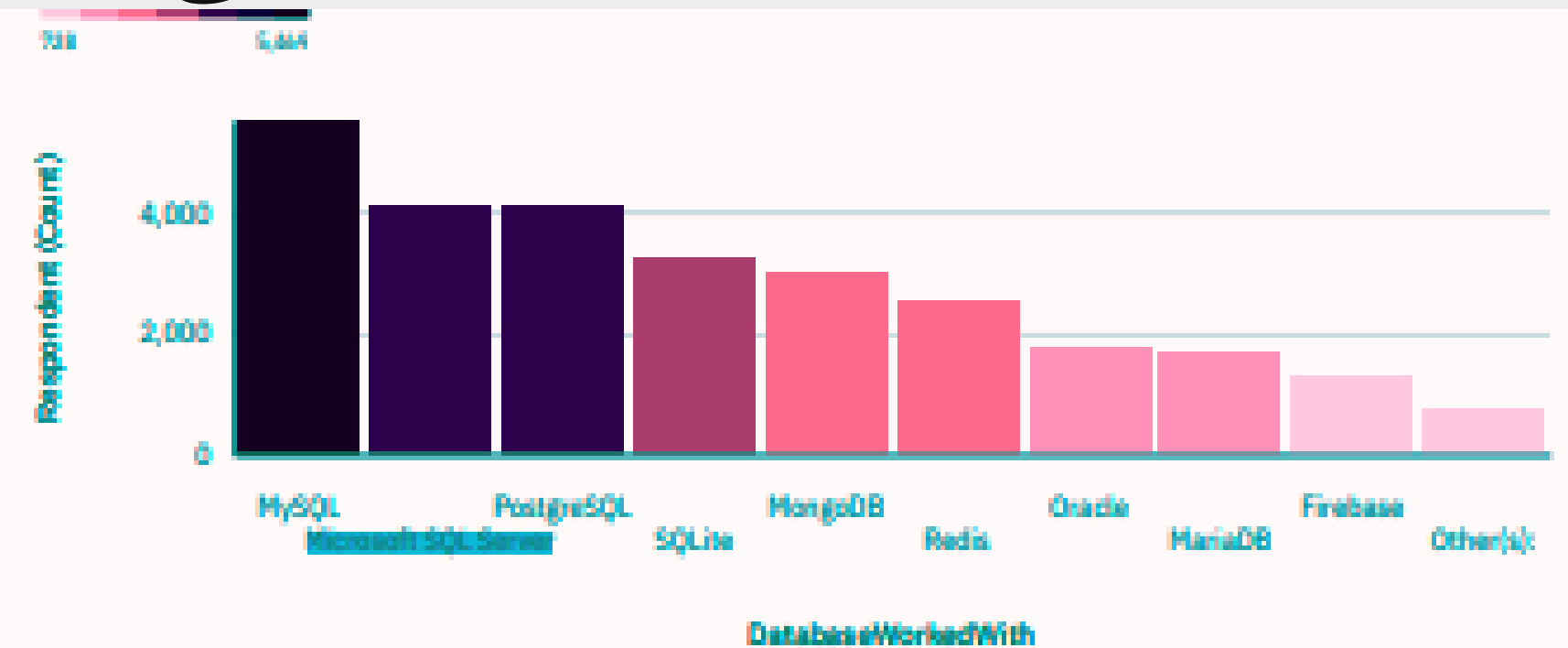
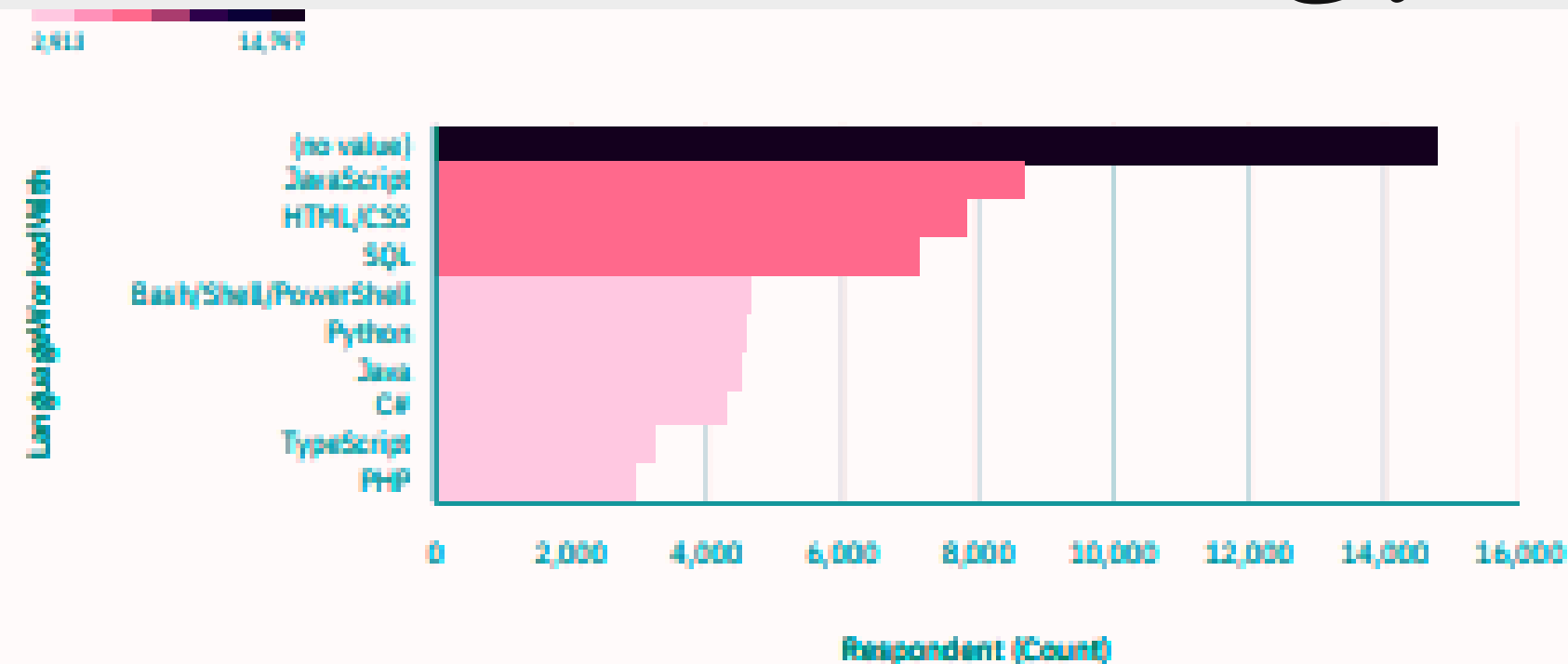
# Dash boards



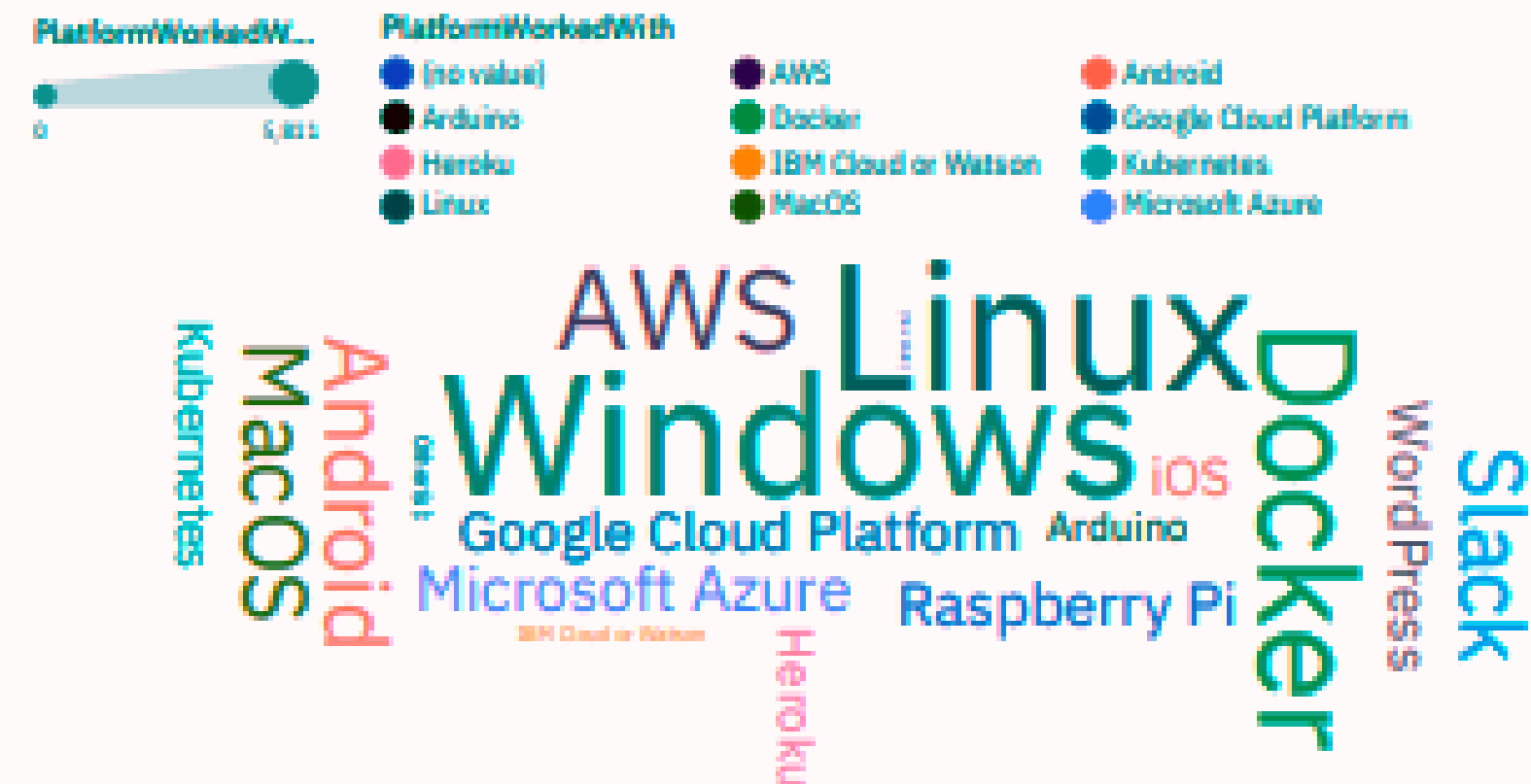
To visualize the important dash boards, I have created three dashbaords namely:

- Current technology Usage
- Future Technology Trend
- Demoghaphic.

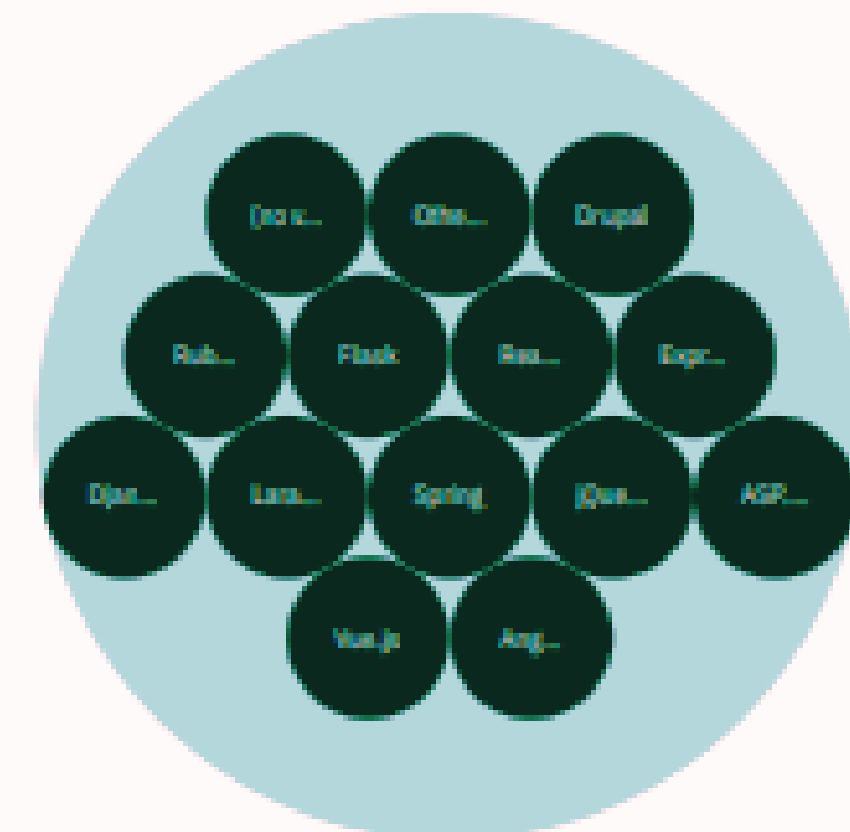
# Current Technology Usage



## Platform Worked With

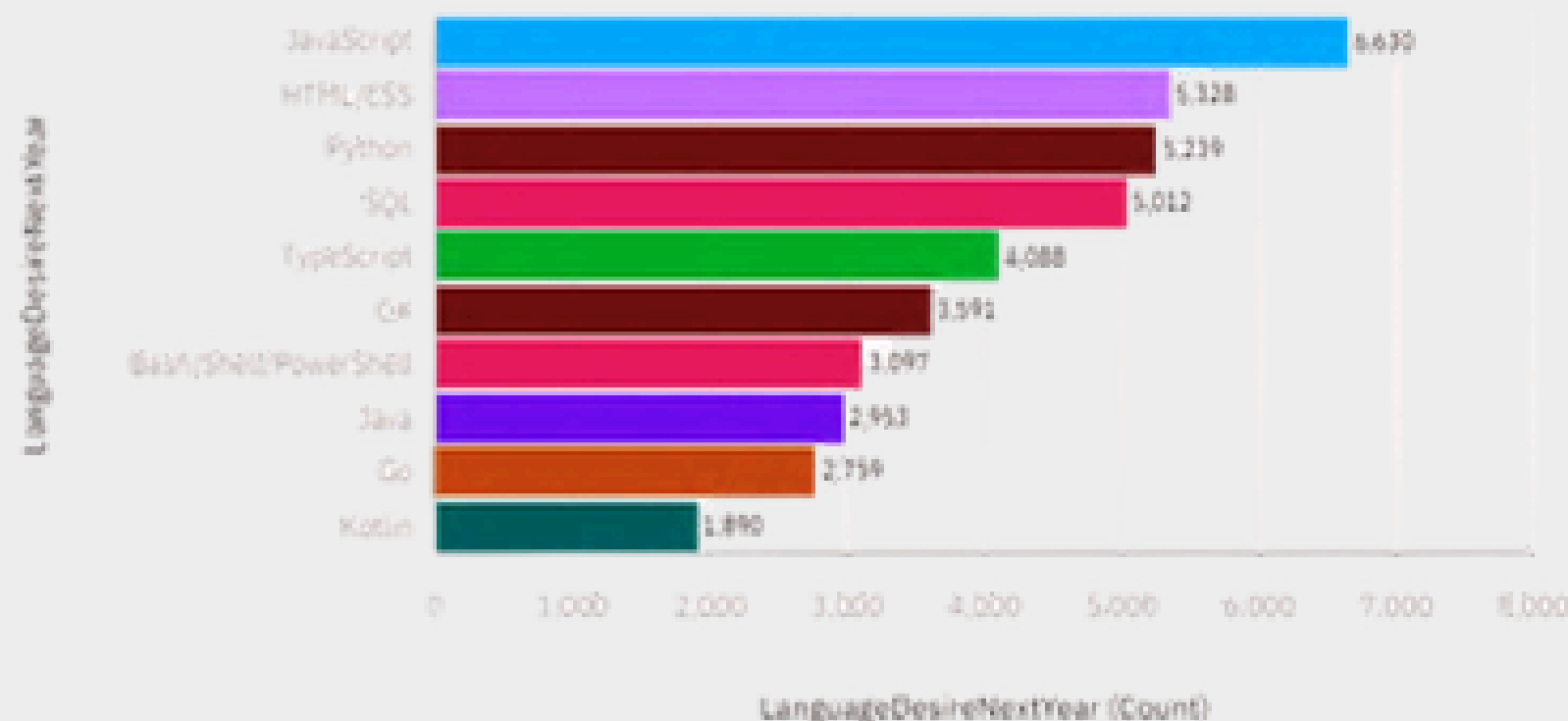


## Top Web Frame Worked With

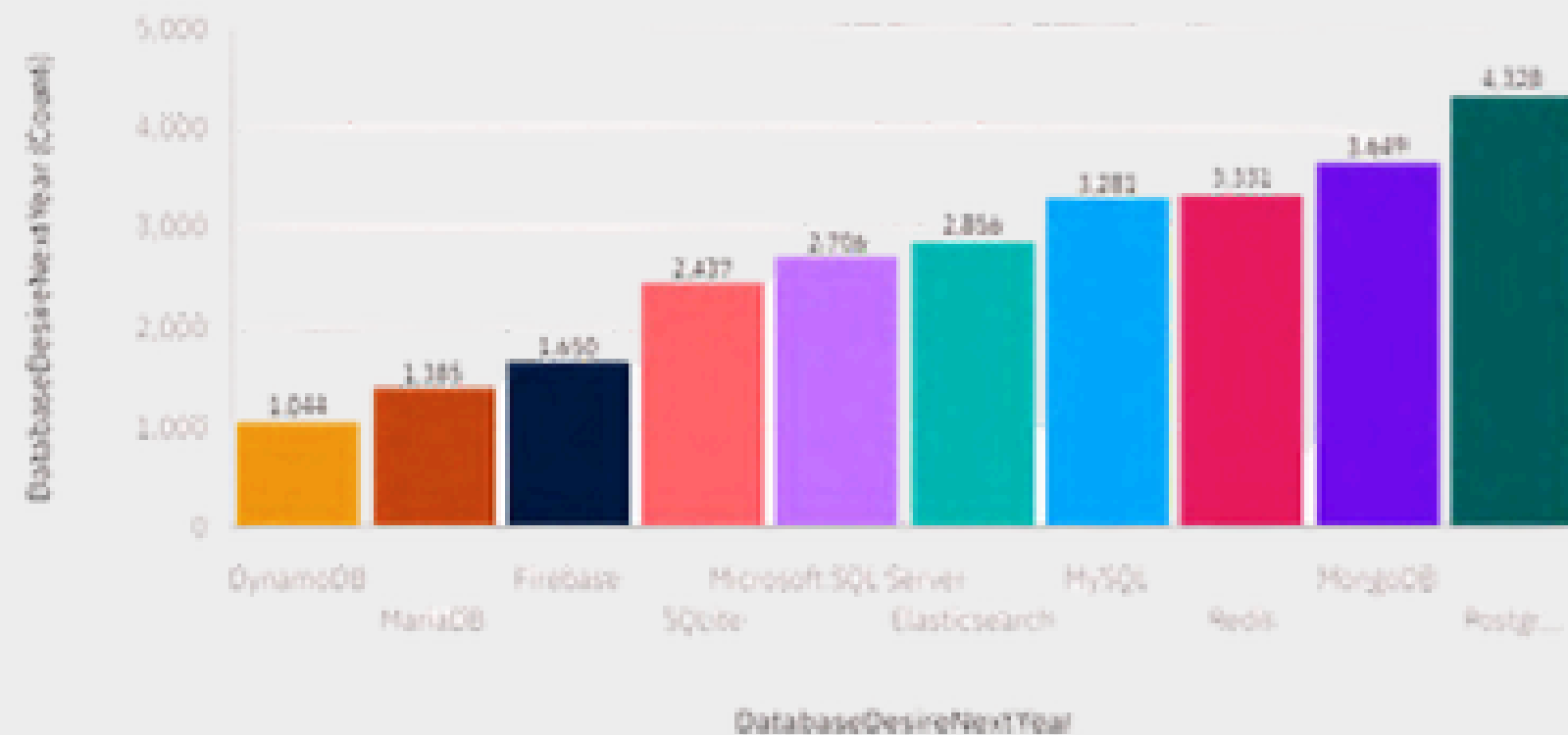


# Future Technology Trend

language-desire-next-year



database-desire-next-year



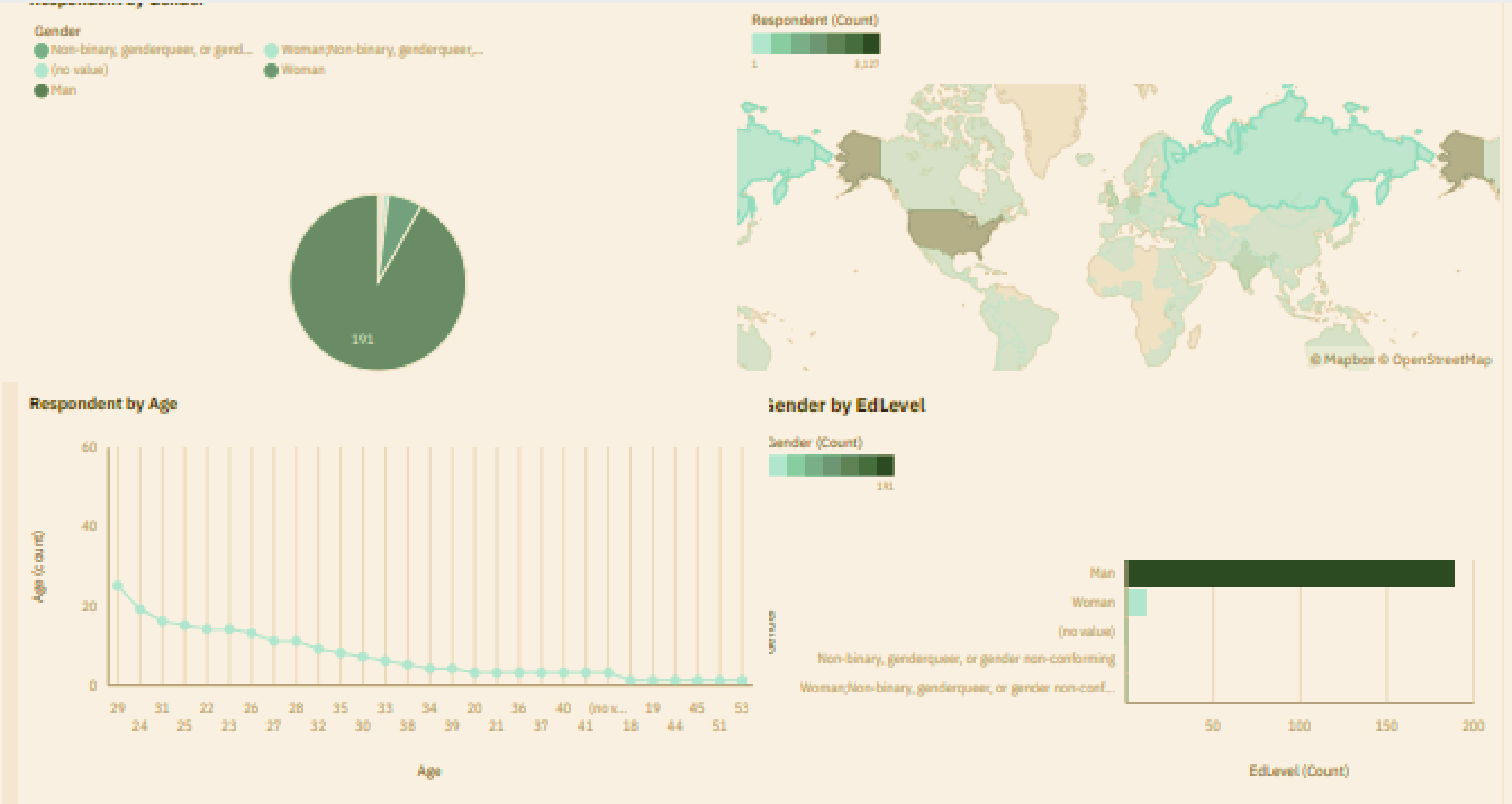
PlatformDesireNextYear hierarchy colored by PlatformDesireNextYear and sized by PlatformDesireNextYear



Top 10 Web Frame Desire Next Year



# Demographic



# Dashboard Summary



## For Current year

- The most popular current platform worked with is Window

## For Future year

- The Platform Desire Next Year is Linux.
- The Web Frame Desire Next Year is React.js.

## Demographic

- Men are the majority within the IT industry based on the survey
- Majority of the respondent are in the aged between 24-29



# Conclusion



## Findings

- Python programming language will become the most popular language in the future
- Currently Men dominate the IT industry
- Majority of the respondent are in the aged 24-29.
- MongoDB has the potential to rise as the leading database.

## Suggestions

- Users should focus on learning python.
- There is need for women to join the IT industry.

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Thank you