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SKILLS NETWORK



# **EXECUTIVE SUMMARY**

- JavaScript is a Top Language
- MYSQL is a Top Database
- Python is a Top Language to Learn
- Job Posting Key Skills do not correlate
  - C is not a common language used
- Human Resources needs better inter department communication





# INTRODUCTION

• The analysis of the datasets gives a view of the top languages and databases that respondents use in their current jobs. These datasets also give a picture of what the respondents think are going to be languages and datasets that they will need to use or interested to learn in the future. The job posting and language dataset from Github jobs shows us what language/key skills employers are looking for in their job postings.



### **RESULTS**

The results are that learning Javascript, HTML, MYSQL, PostgreSQL, are computer language skills that are in great demand and currently being used in many jobs. The results of what respondents want to learn in the future such as Python, MongoDB and Redis point towards a trend that those languages are going to be sought after by employers in the future. This may be proven by the average annual salary for Python being very high and second only to Swift. MongoDB is also a top key skill in job postings.





### **METHODOLOGY**

- The data was either scraped or imported
- The data was cleaned/transformed
  - Duplicates dropped
- The data was studied and split into relevant graphs
- Correlations were calculated





# PROGRAMMING LANGUAGE TRENDS

#### **Current Year**



#### **Next Year**







# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

#### **Findings**

- Javascript is the top language used
- Javascript is the top language for other respondents to learn
- Python is a top language to future learn

### **Implications**

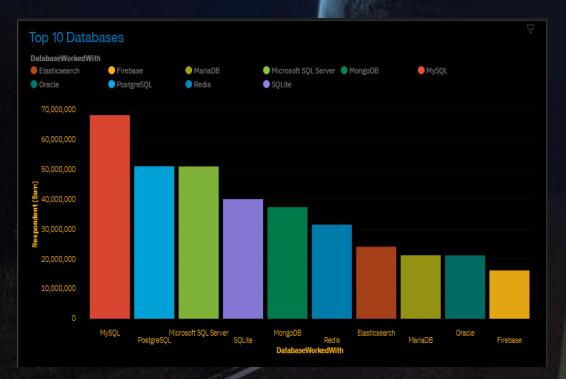
- Javascript is by most respondents
- Javascript should continue to be a future language to learn
- Respondents see a future use in Python



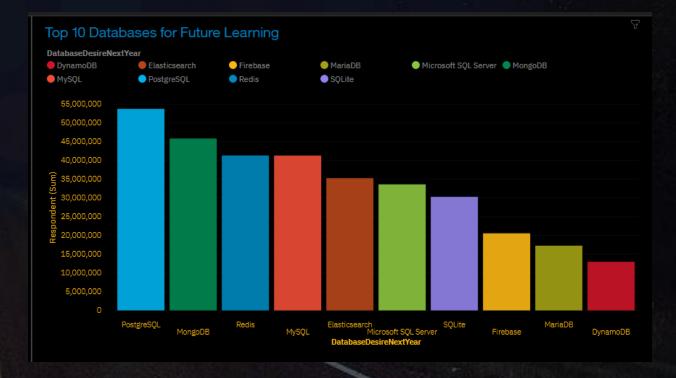


# DATABASE/TRENDS

#### **Current Year**



#### **Next Year**







# DATABASE TRENDS - FINDINGS & IMPLICATIONS

### **Findings**

- MYSQL is the most used database
- PostgreSQL is the top database for future learning
- MongoDB and Redis are the 5 and 6 most used databases

### **Implications**

- Respondents responses toward learning PostgreSQL are as it's the second most popular database language
- MYSQL is 4th on the list to learn even though it's the most used database language
- Respondents may be seeing a future use for MongoDB and Redis in the job market





### Follow the link to view the Interactive Dashboard

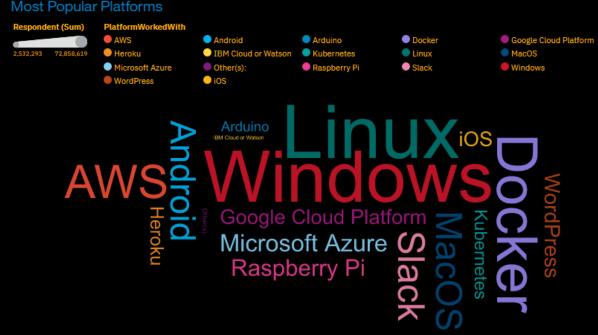
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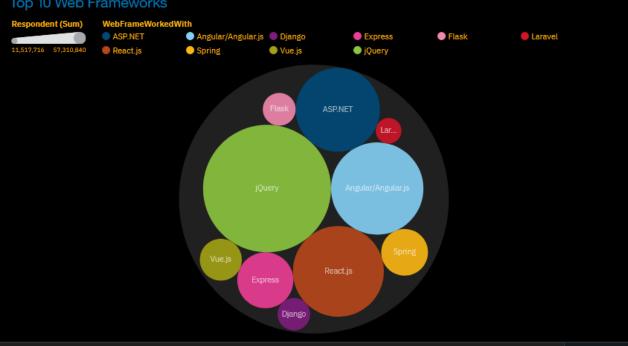


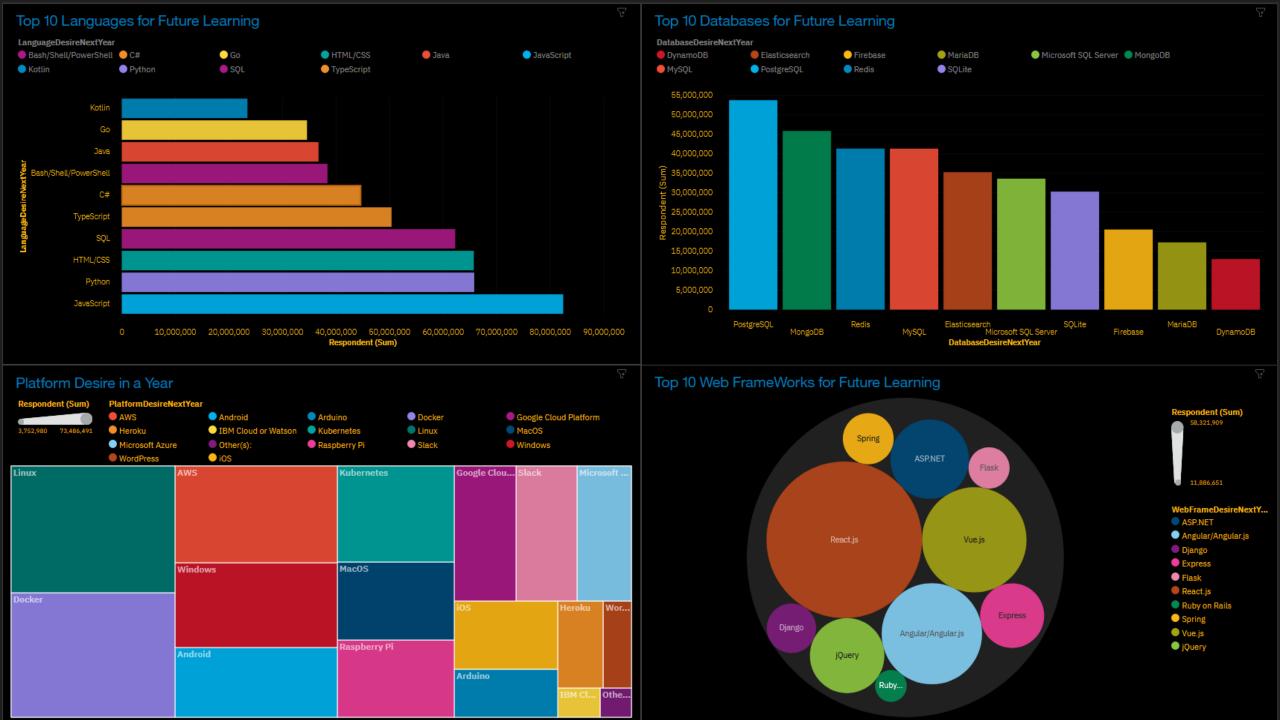


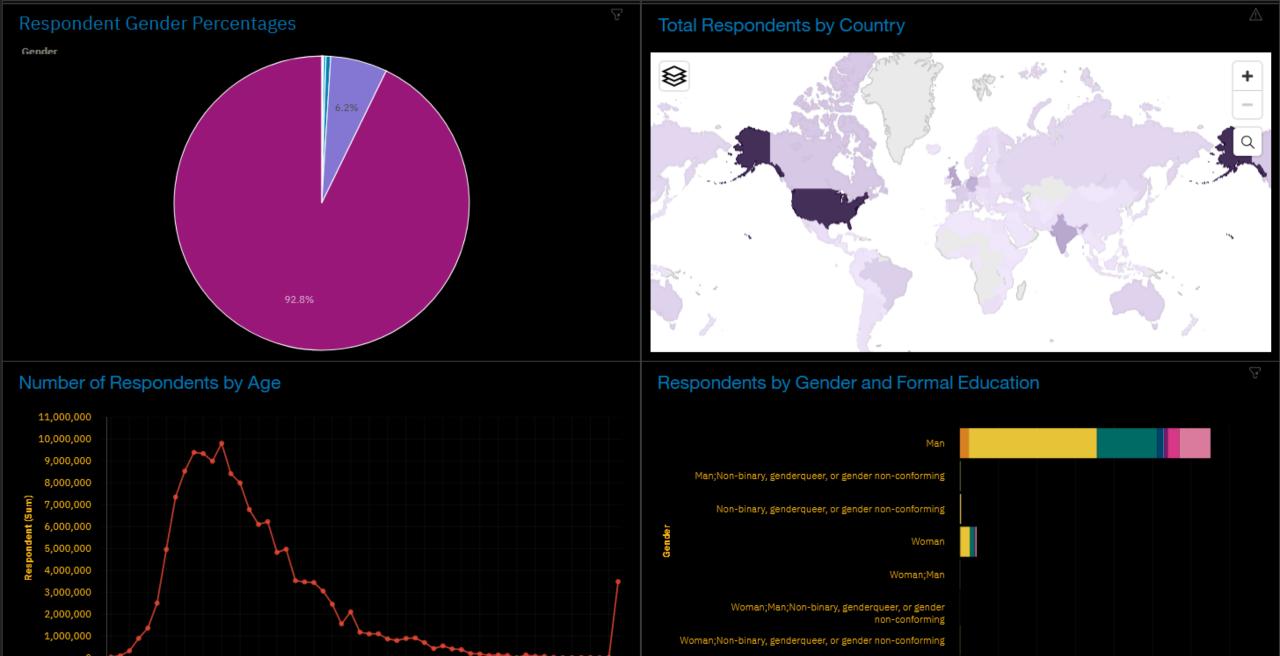












16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 65 67 71 99

# DISCUSSION

- Why are there so many job posting with a key skill being C language when it not used frequently?
- What is making Python and MongoDB of value to respondents and employeers?
- Are HR departments effectively commuting with the other departments on the skills needed for a particular job?



# OVERALL FINDINGS & IMPLICATIONS

#### **Findings**

- Javascript is great to know and learn
- Python pays a lot
- MongoDB may be important to learn

### **Implications**

- Javascript and Python are what employeers are going to be looking for
- MongoDB may have an unforseen future use case for mass adoption
- The C language is not important to know indepth but you should know it to some extent to put it on your resume



# **APPENDIX**

- Bar Chart of Top Job Listing
- Bar Chart of Average Annual Salaries for Languages
- Bar Chart and Pie Chart of times Key Skills appeared in Job Postings



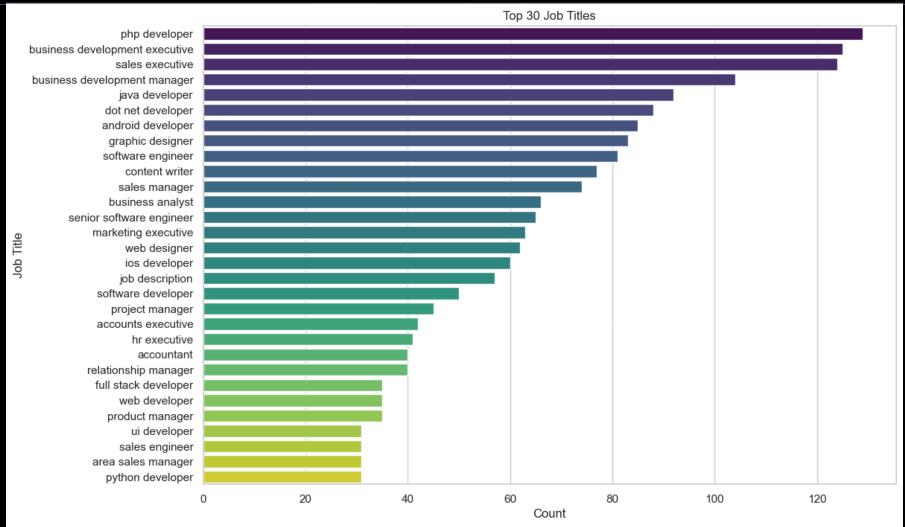
### CONCLUSION

- Javascript, Python and SQL are sought after languages
- Python pays well and may have more jobs available than other languages
- MongoDB may have a large future use case and respondents may want to put learning MongoDB higher on their list of databases to learn.
- C is a good language to have a basic understanding to put on ones resume

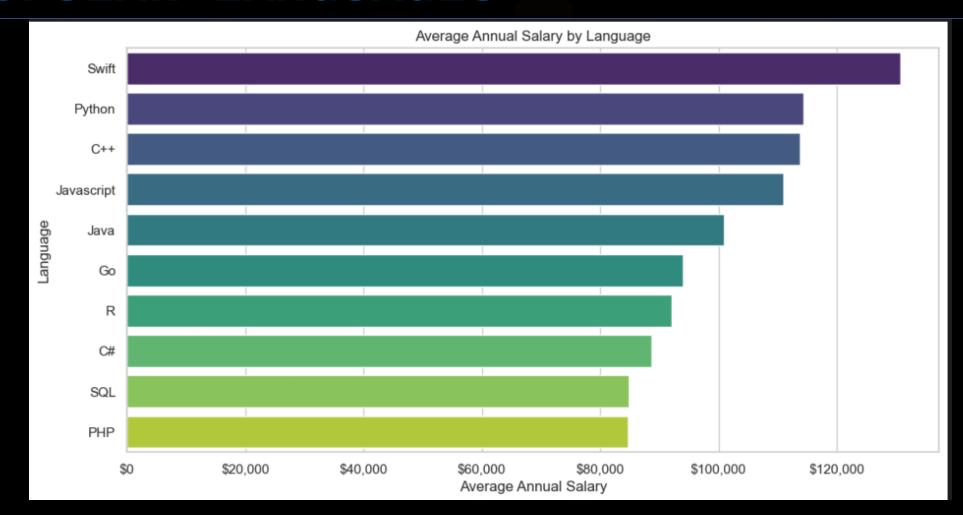




### JOB POSTINGS



# POPULAR LANGUAGES



# Top Key Skills in Job Postings

