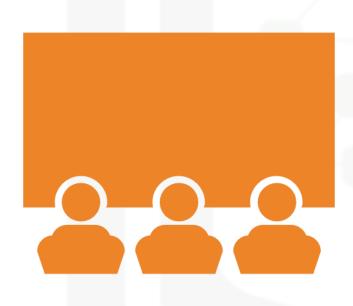


# STACK OVERFLOW DEVELOPER SURVEY 20124

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# OUTLINE



- Executive Summary
- Introduction
- Methodology
- Results
- Visualization Charts
- Dashboard
- Discussion
- Findings & Implications
- Conclusion
- Appendix

### **EXECUTIVE SUMMARY**

Data contextualization and analysis goal.



- Methodology description.
- Data gathering.
- Data analysis.
- Data visualizations.
- Results presentation supported with graphs and trends.
- Discussion of overall findings and implications regarding the results previously exposed.
- Final conclusions of the carried-out research.

# INTRODUCTION





- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- Results don't represent everyone in the developer community evenly.
- Nearly 90,000 developers.
- Trends to predict where the developers are going.
- Characterization of developers around the globe.

### **METHODOLOGY**



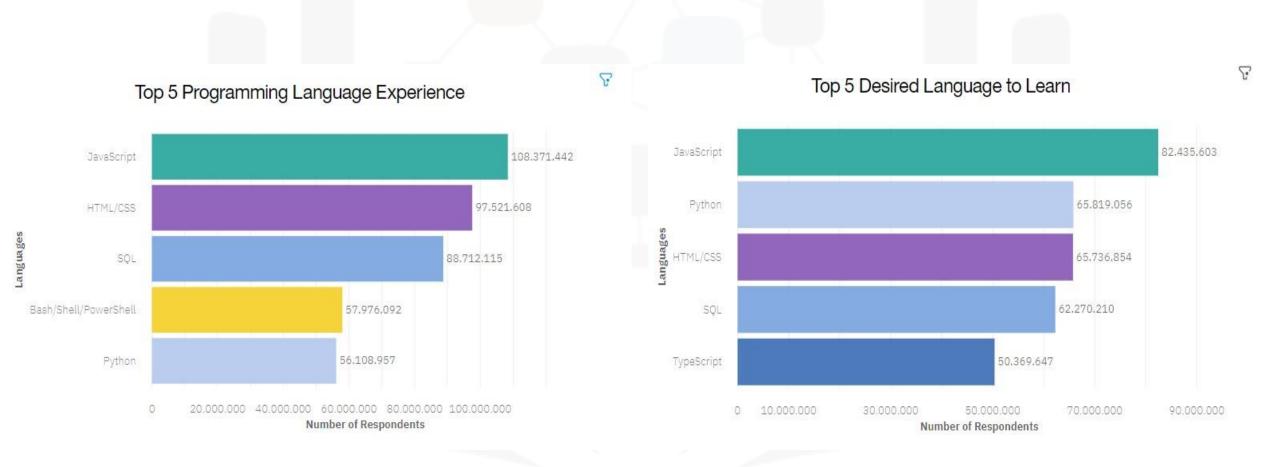
- Collect survey data & explore its content
  - Web Scraping
    - APIs.
  - Request library.
  - Data Wrangling
  - Exploratory data analysis
    - Analyzing data distribution.
      - Handling outliers.
        - Correlations.

- Data Visualization
- Highlight distribution of data, relationships, the composition and comparison of data.
  - Dashboards

# **RESULTS**



#### PROGRAMMING LANGUAGE TRENDS





**Current Year Next Year** 

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

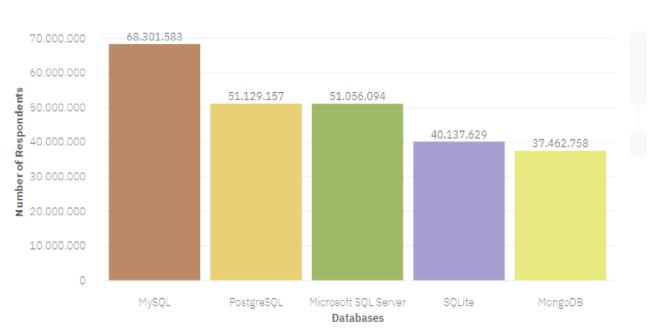
**Findings** 

**Implications** 

- JavaScript seems to keep as
   Possible developers migration leading language. from JavaScript to TypeScript.
- Python fastest-growing.
- Great interest in TypeScript

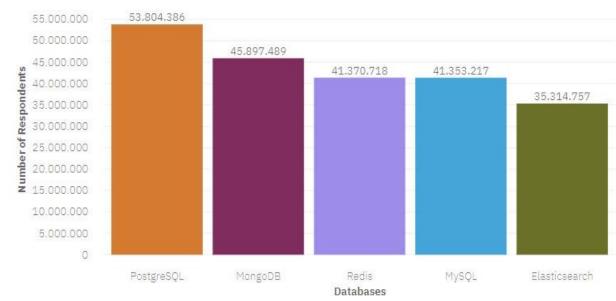
#### DATABASE TRENDS Current Year

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Top 5 Databases Worked with

#### Top 5 Desired Database to Learn







#### **Next Year**



# DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

**Findings** 

**Implications** 

- MySQL as most used database.
- Lack of interest in Microsoft SQL
- Server and SQLite.

- Microsoft SQL Server and SQLite
- losing ground in the market.
  - PostgreSQL and MongoDB

establishment in the market. Increasing interest in PostgreSQL and MongoDB.

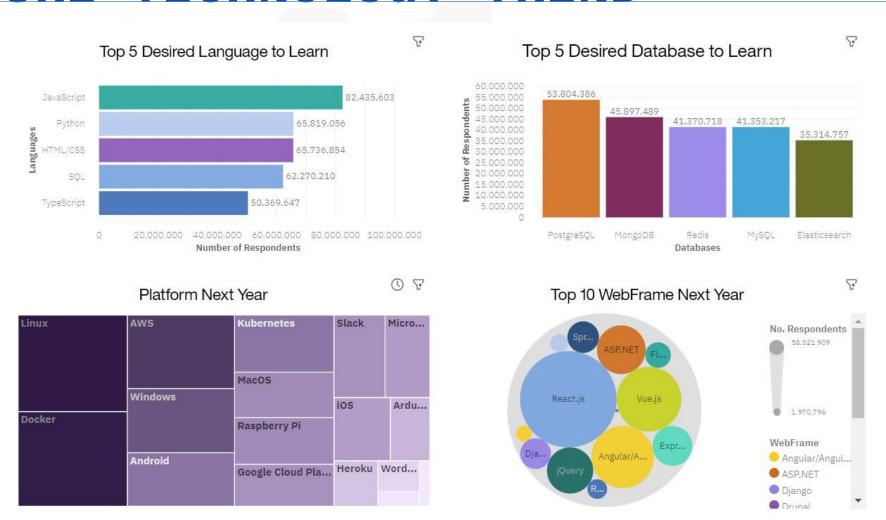
### **DASHBOARD**



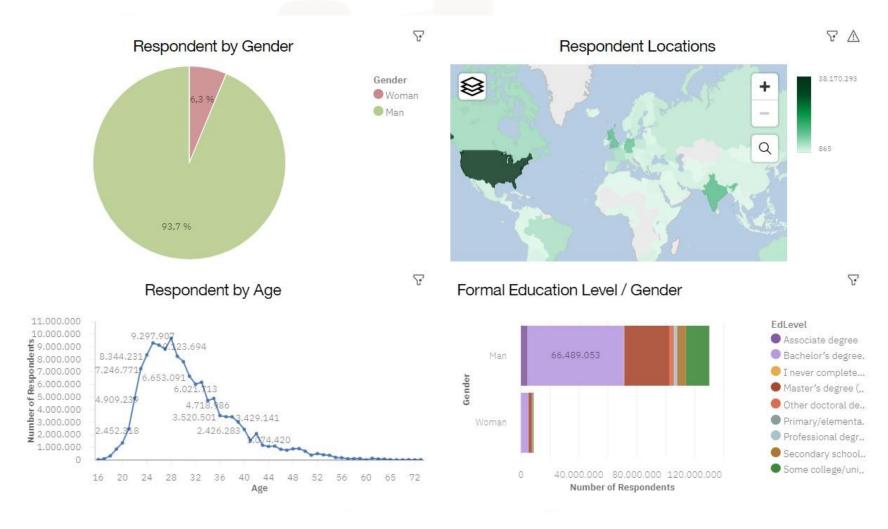
#### CURRENT TECHNOLOGY USAGE



#### FUTURE TECHNOLOGY TREND



#### **DEMOGRAPHICS**



# **DISCUSSION**





#### **Findings**

- JavaScript widely used and TypeScript getting popular.
- Over 90% young male developers.
- Developers mostly located in developed countries.

#### CONCLUSION

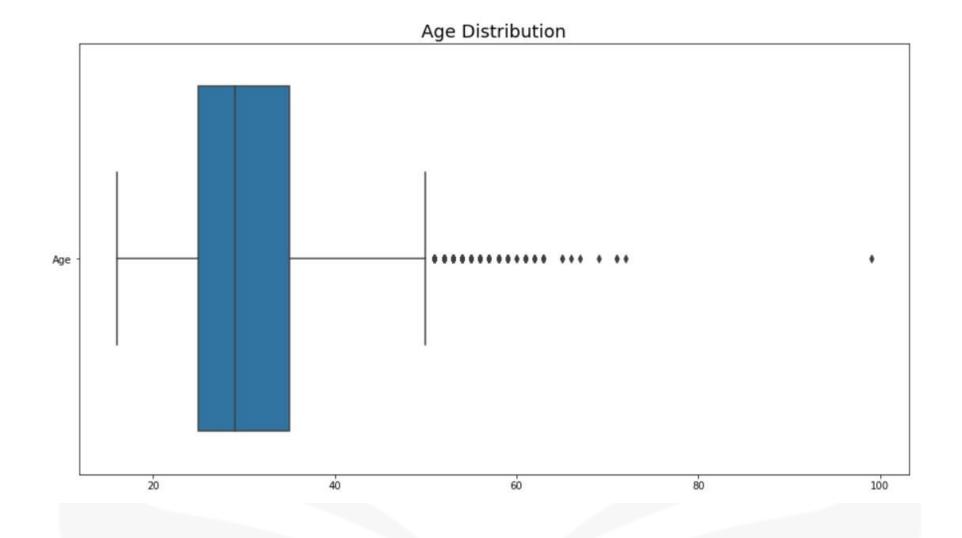
#### **Implications**

- JavaScript and TypeScript web frames gaining followers.
- Global polarization of developers location and gender.
- Young developers without postgrad studies on its majority.



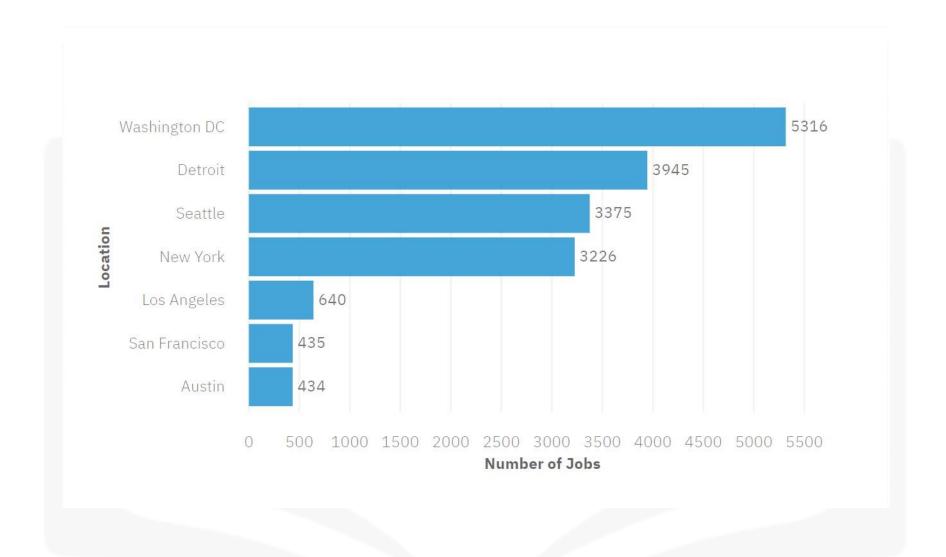
- Developers are people with very marked characteristics.
- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries in development.





# JOB POSTINGS





# POPULAR LANGUAGES



