



Technology Trends

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SKILLS NETWORK 

OUTLINE



- ❖ Executive Summary ■
- ❖ Introduction
- ❖ Methodology
- ❖ Results
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 - ❖ Dashboard
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- ❖ Conclusion
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EXECUTIVE SUMMARY

Currently Technology Usage (2019)

- Top programming languages
- Top databases environment
- Top web frameworks
- Most usage platforms

Expected Technology Usage (2020)

- Top programming languages
- Top databases environment
- Top web frameworks
- Most usage platforms

Demographics

- Most countries have people who use technology
- Distribution of gender in the field
- Average ages of people who use technology
- The distribution of education level for each gender



INTRODUCTION

Our story about:

- Know the technology trends now
- Expect the technology trends next year
- The effect of education level and age on a person's use of technology
- Know the countries are the most usage of technologies
- Which gender tends to use technology or work in a related field

You can use this story to know:

- Which languages, platforms, and databases you should learn to land a job easily
- Know which countries are more likely to have many jobs in the technology
- Know how can you improve your campaign if it relates to technology maybe you should focus on people who have a specific education level or a range of ages and so on

METHODOLOGY



- ❖ About the data:

- ❖ The data set has around 90,000 responses from an online survey of software professionals across the world from Stack Overflow.
- ❖ You can see more detail about it and check the questions asked in the survey by [clicking here](#)

- ❖ Data Collection:

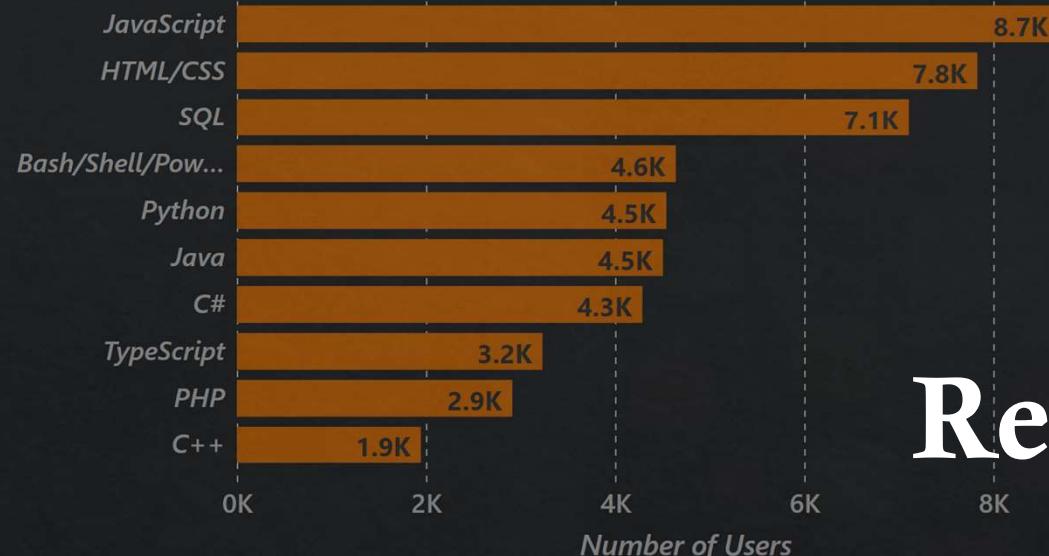
- ❖ We collect the data using Stack Overflow API and Scrap some pages on it using the BeautifulSoup library in Python

Current Technology Usage (2019)

Expected Technology Usage (2020)

Demographics

Top 10 Languages



Top 10 Databases



Results

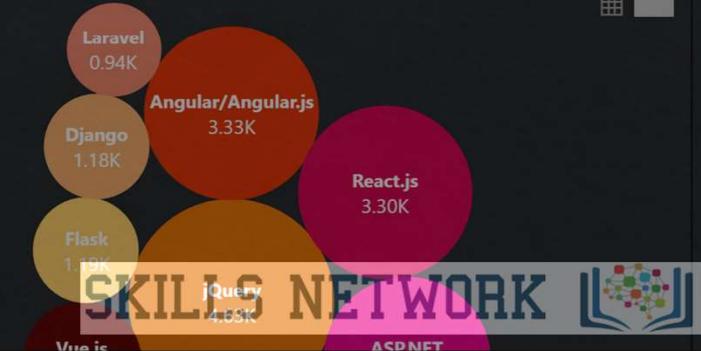
Popular platforms

Arduino
Android
WordPress
IBM Cloud or Watson
Slack
Kubernetes
Docker

AWS
Windows
Linux
Raspberry Pi
iOS Heroku

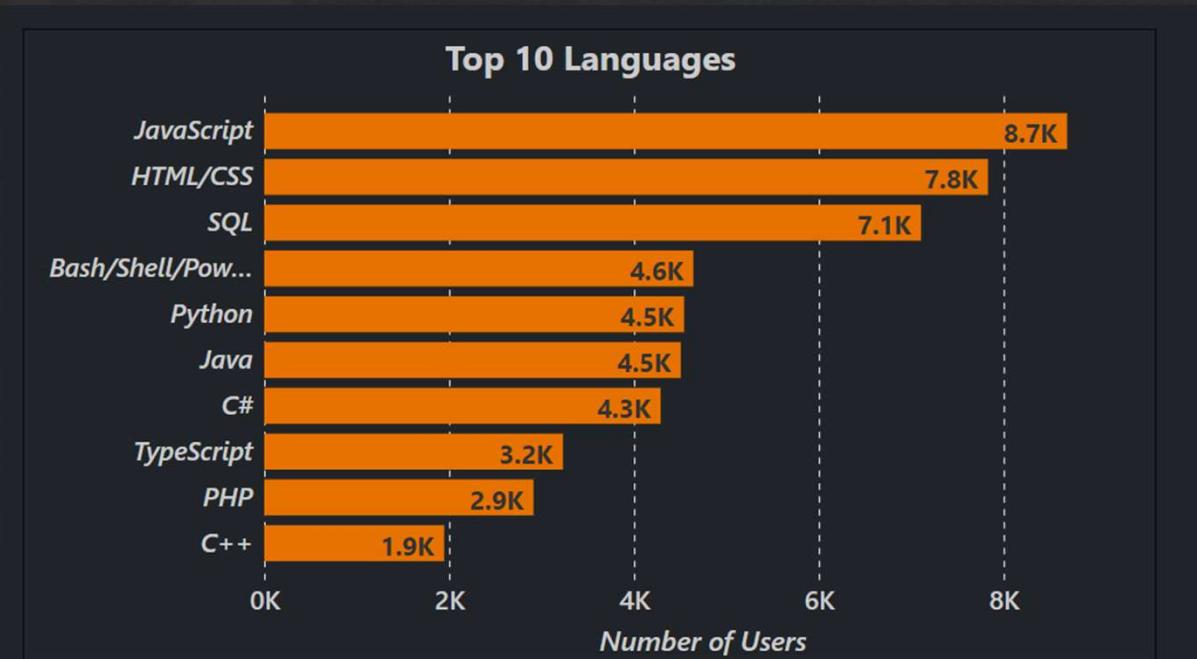
MacOS

Top 10 Web Platforms



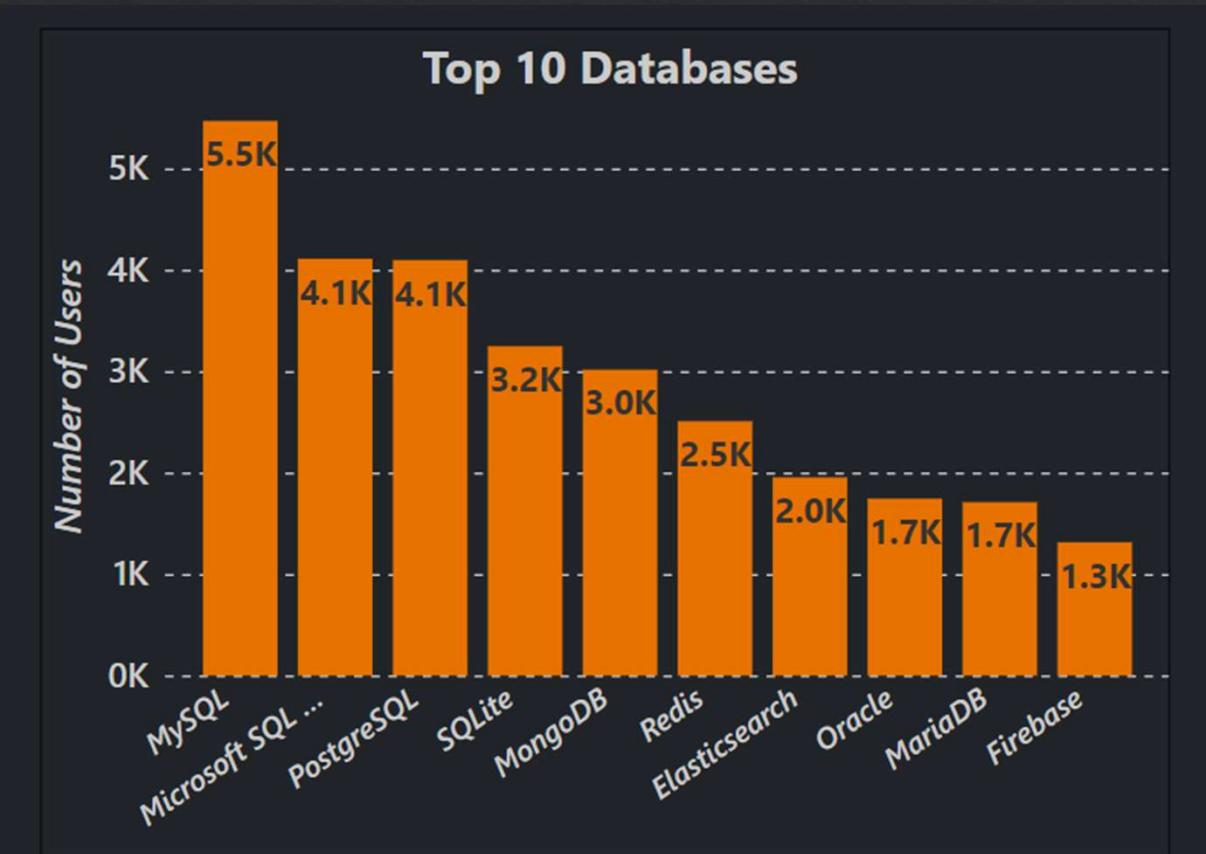
Current Technology Usage

- ❖ Those are the top 10 programming languages in terms of the number of users
- ❖ As you can see the most popular languages are used in web development (JS, HTML, CSS) specifically in front-end development so we can conclude that the most widespread field in technology is the front-end development

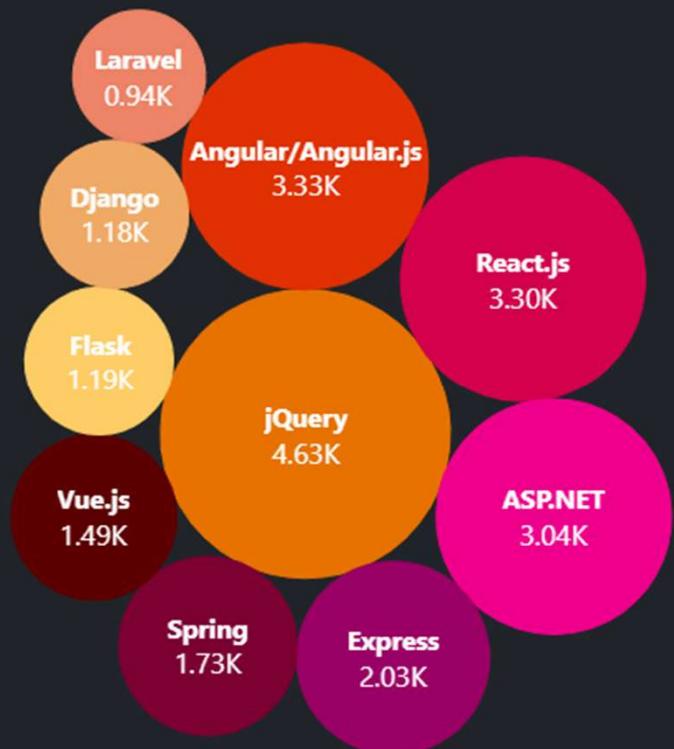


Current Technology Usage

- ❖ Those are the top 10 databases environments in terms of the number of users
- ❖ It's Clear that relational databases environments like (MySQL, Microsoft SQL, and PostgreSQL) are most used in technology until now



Top 10 Web Platforms



Current Technology Usage

- ◇ Those are most libraries or frameworks used to create a web application
- ◇ The most popular platforms are related to JavaScript like (Angular.js, React.js,)

Current Technology Usage

Those are the popular platforms used in the technology

Most of them are OSs but there is another insight here you can note that software professionals turning to cloud services like (Google Cloud, IBM Cloud,)

Popular platforms

A word cloud visualization showing the popularity of various technology platforms. The size of each word indicates its relative importance or usage. The platforms listed include:

- Arduino
- Kubernetes
- Android
- WordPress
- Slack
- iOS
- Docker
- Microsoft Azure
- Google Cloud Platform
- Mac OS
- AWS
- Windows
- Linux
- Raspberry Pi
- Heroku
- IBM Cloud or Watson

Demographics

- Most of the software professionals are males so if you target people who work in technology for a campaign, focus on males

Gender Distribution

Woman 6.52%

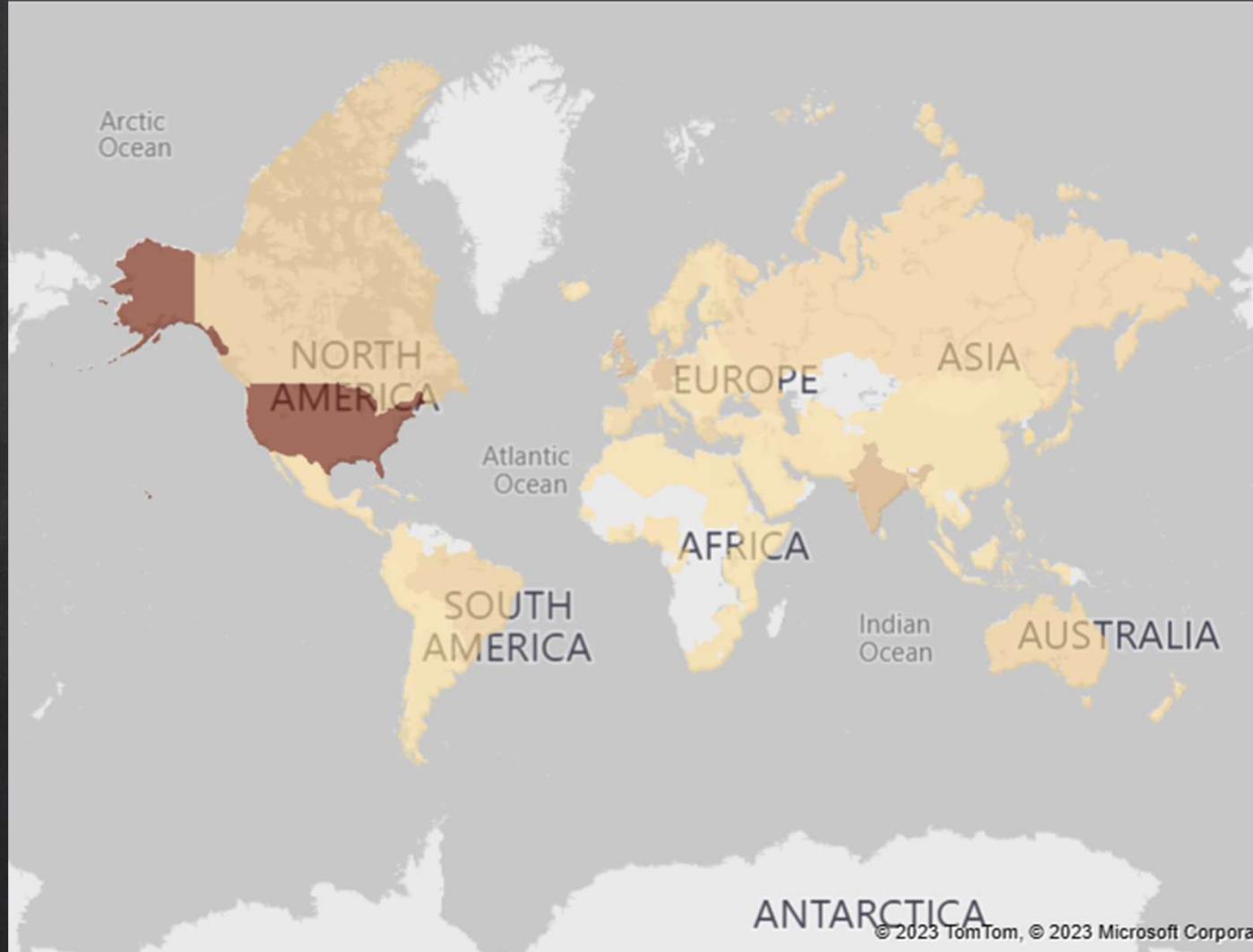


Man 93.48%

Demographics

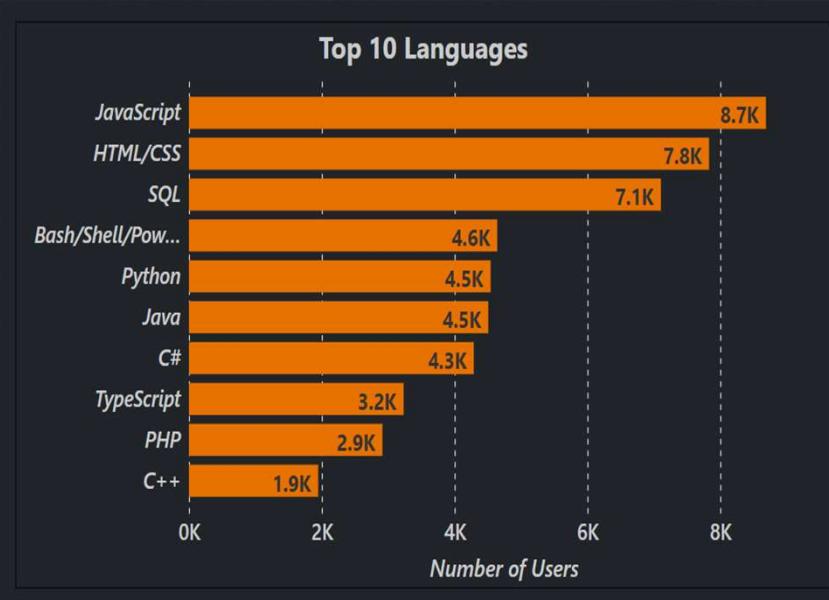
- ◆ The dark brown indicates most countries use technologies

Distribution of People Who Use Tech

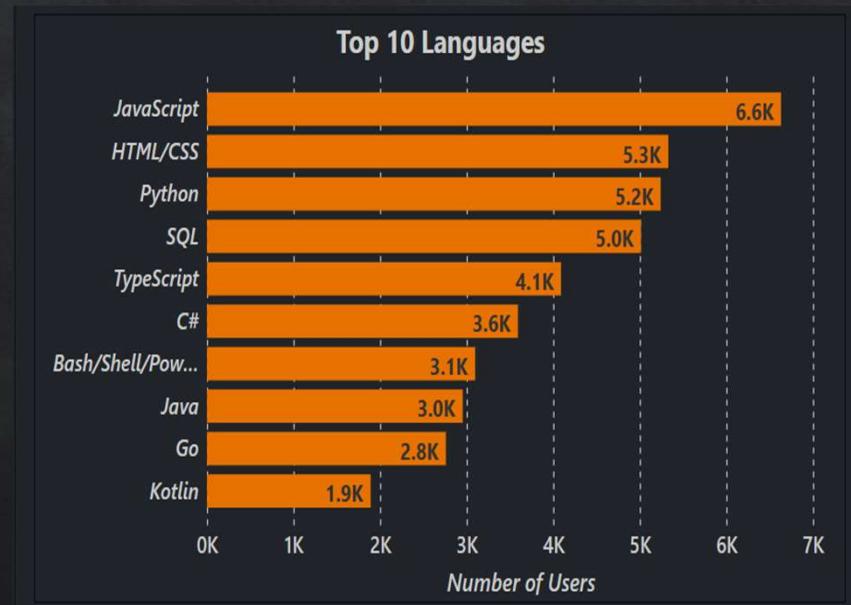


PROGRAMMING LANGUAGE TRENDS

Current Year

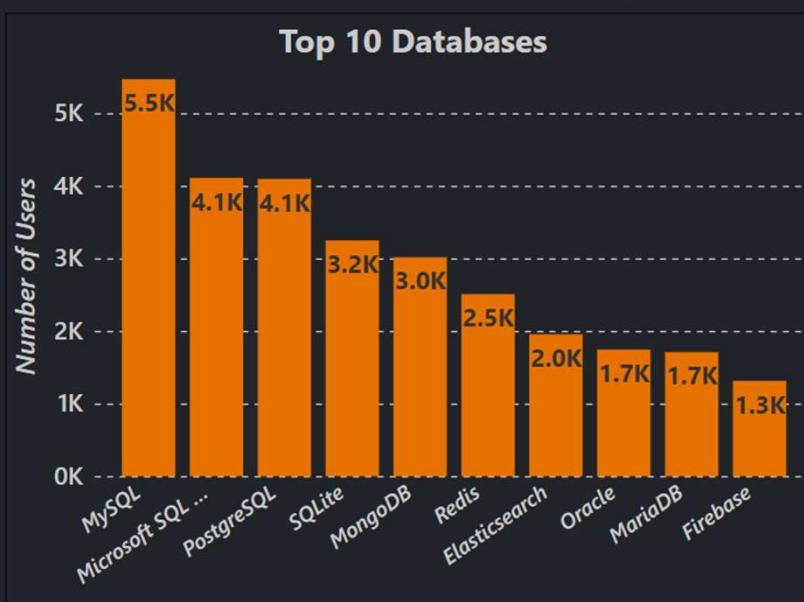


Next Year

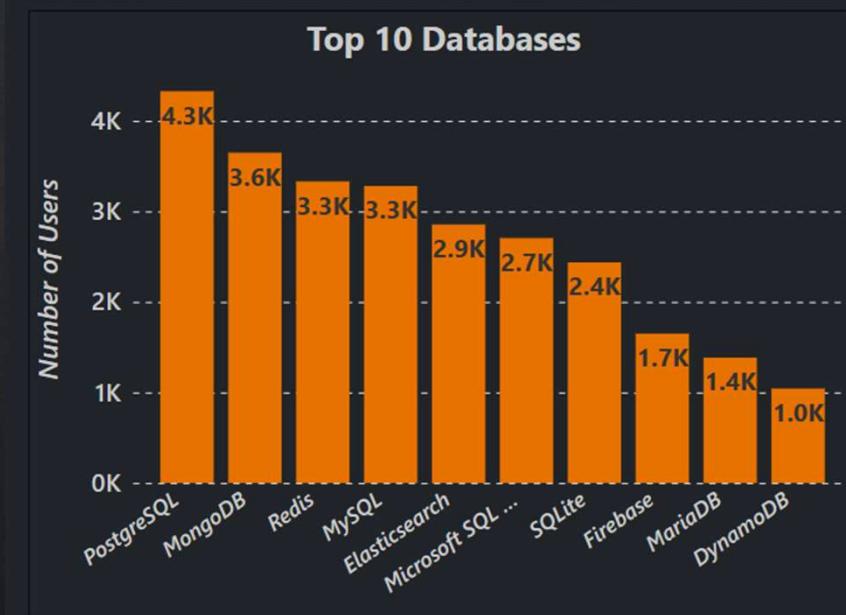


DATABASE TRENDS

Current Year



Next Year



Platforms TRENDS

Current Year

Popular platforms

Arduino
Kubernetes
Android
WordPress
Slack
iOS
Microsoft Azure
Google Cloud Platform

IBM Cloud or Watson
MacOS
AWS
Windows
Linux
Raspberry Pi
Heroku

Next Year

Popular platforms

Slack
Kubernetes
WordPress
Heroku
Android
IBM Cloud or Watson
Microsoft Azure
Google Cloud Platform

Windows
Docker
Linux
Arduino
iOS
AWS
Raspberry Pi
Microsoft Azure

Web Platforms TRENDS

Current Year

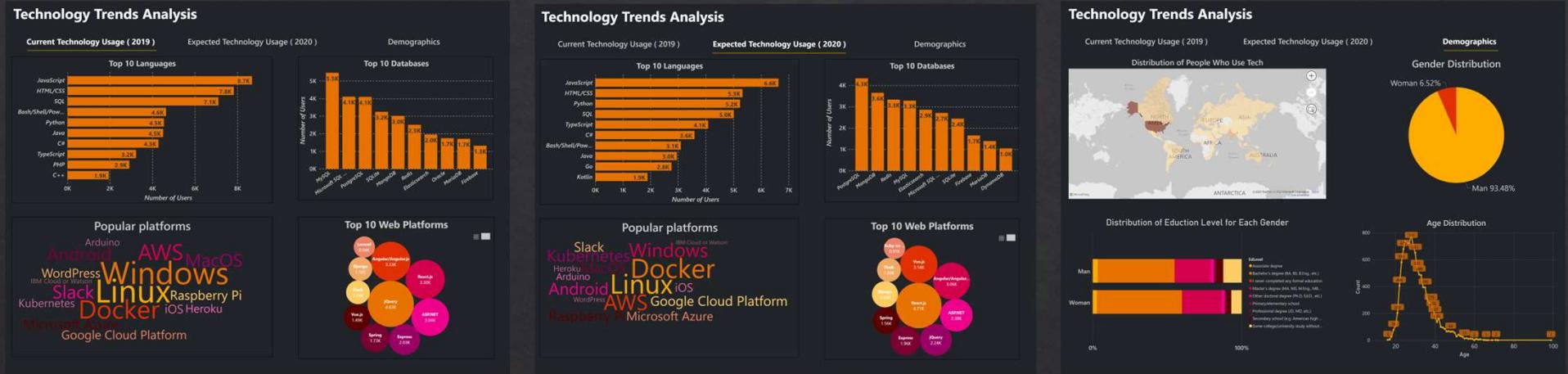
Top 10 Web Platforms



Next Year

Top 10 Web Platforms





[Click Here](#) To Use The Interactive
DASHBOARD

CONCLUSION



- ❖ Web development is the most popular field in technology
- ❖ Relational databases are most usage than non-relational databases
- ❖ The use of cloud services is increasing
- ❖ The framework and libraries of Javascript are the most used in web development
- ❖ React is the best library for learning if you want to improve your skill in front-end development this year
- ❖ Most people who work in technology are males, from (the USA, Canada, Germany, the UK, and India), and their ages are between 25 to 35



Q&A



Thank You For Your Time