

CS50 for MBAs

Technology Stacks



I took CS50

I took CS50

I took CS50.

CS50.

evaluations

hbs.bluera.com/hbs

CS50 for MBAs

Technology Stacks

Thank you!

- Carter, Rongxin
- Angelika, Bobby, Patrick
- Brian, Patrick
- Nick, Paula
- Ian, Andrew, Ramon, Padrick

Themes

- Abstraction
- Correctness
- Efficiency
- Precision
- Representation
- Tradeoffs
- ...

Lectures

- Computational Thinking
- Algorithms
- Python
- Data Structures
- Artificial Intelligence
- Internet Technologies
- Web Development
- SQL
- Databases
- Cloud Computing
- Privacy, Security
- Software Engineering
- Technology Stacks

- development environment
- language
- version control
- code reviews
- platform
- database
- back-end framework
- front-end framework
- collaboration
- deploying
- monitoring
- caching
- scaling
- testing
- security
- ...

Developer Survey Results

insights.stackoverflow.com/survey/2021

development environment

- Linux
- macOS
- Windows
- ...

Developers' Primary Operating Systems



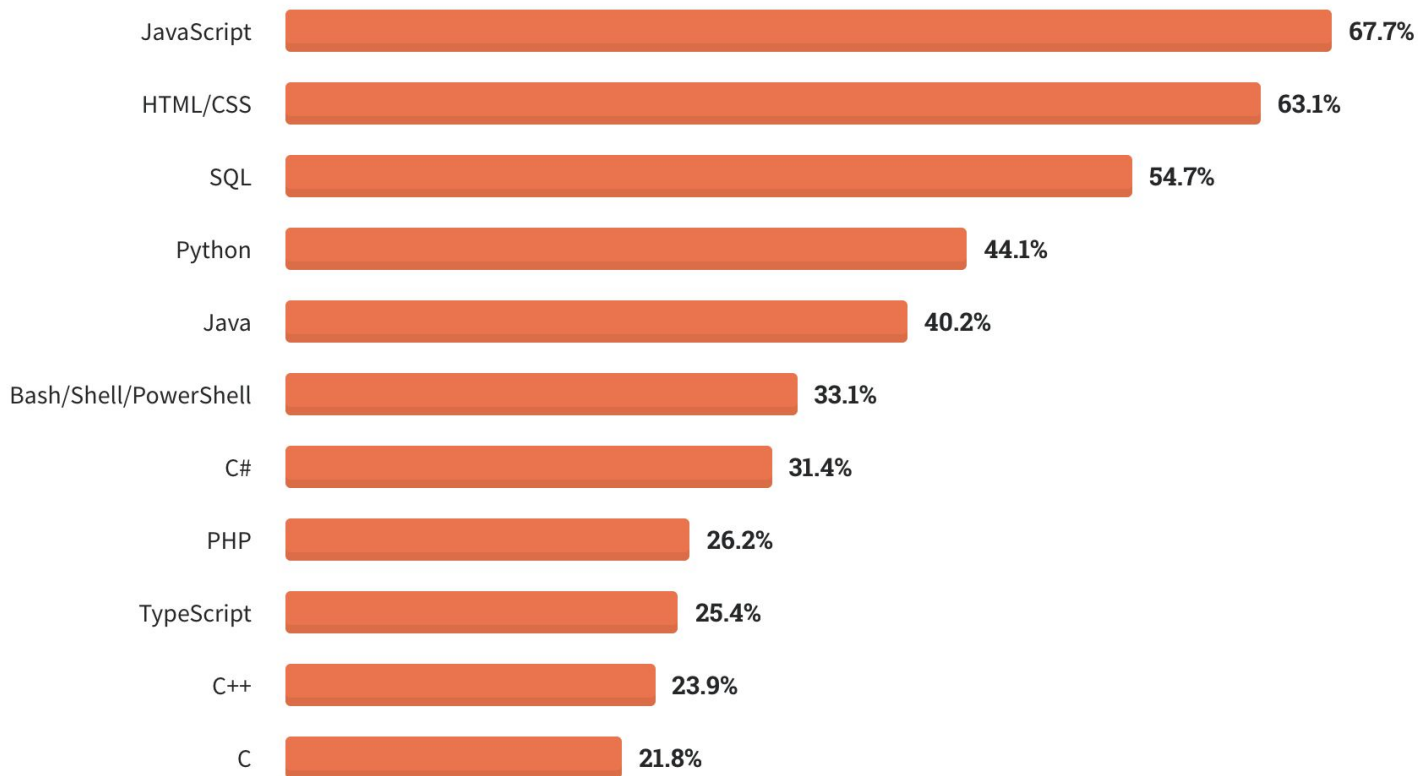
development environment

- VS Code
- Visual Studio
- Xcode
- ...

language

- Java, Kotlin
- Swift, Objective-C
- Python, Ruby, Java, PHP
- HTML, CSS, JavaScript, TypeScript
- SQL
- C, C++, C#
- Go, R
- ...

Programming, Scripting, and Markup Languages



version control

- GitHub
- GitLab
- Bitbucket
- ...

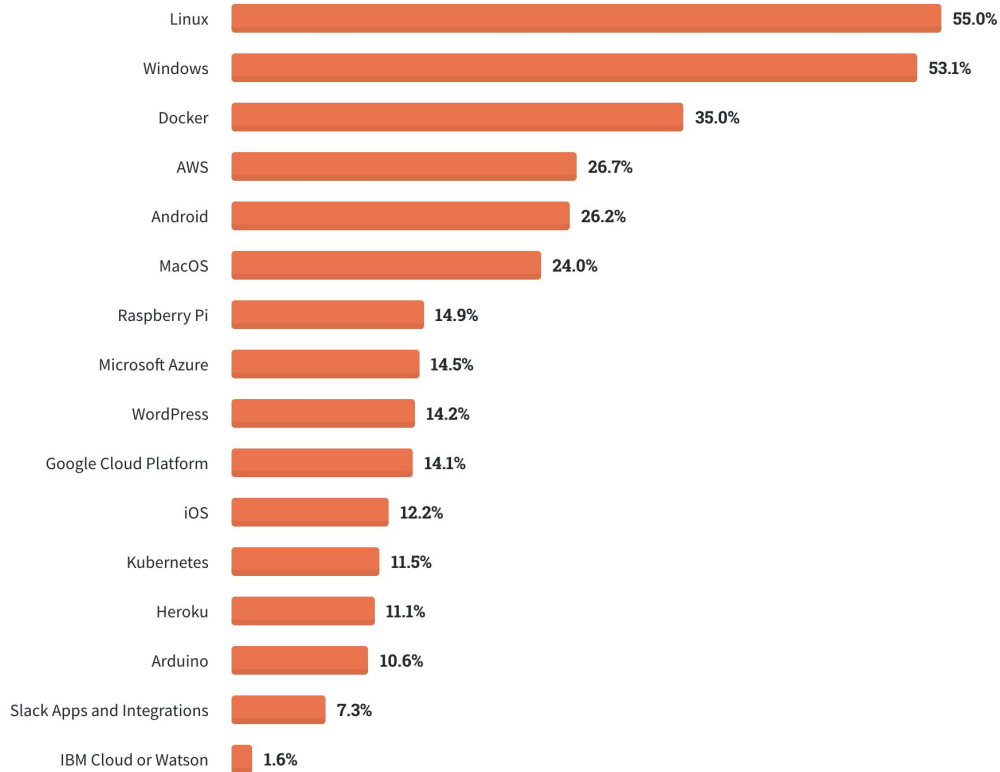
code reviews

- GitHub, GitLab, et al.
- Phabricator
- ...

platform

- Amazon, Google, Microsoft, ...
- Digital Ocean, Heroku, ...

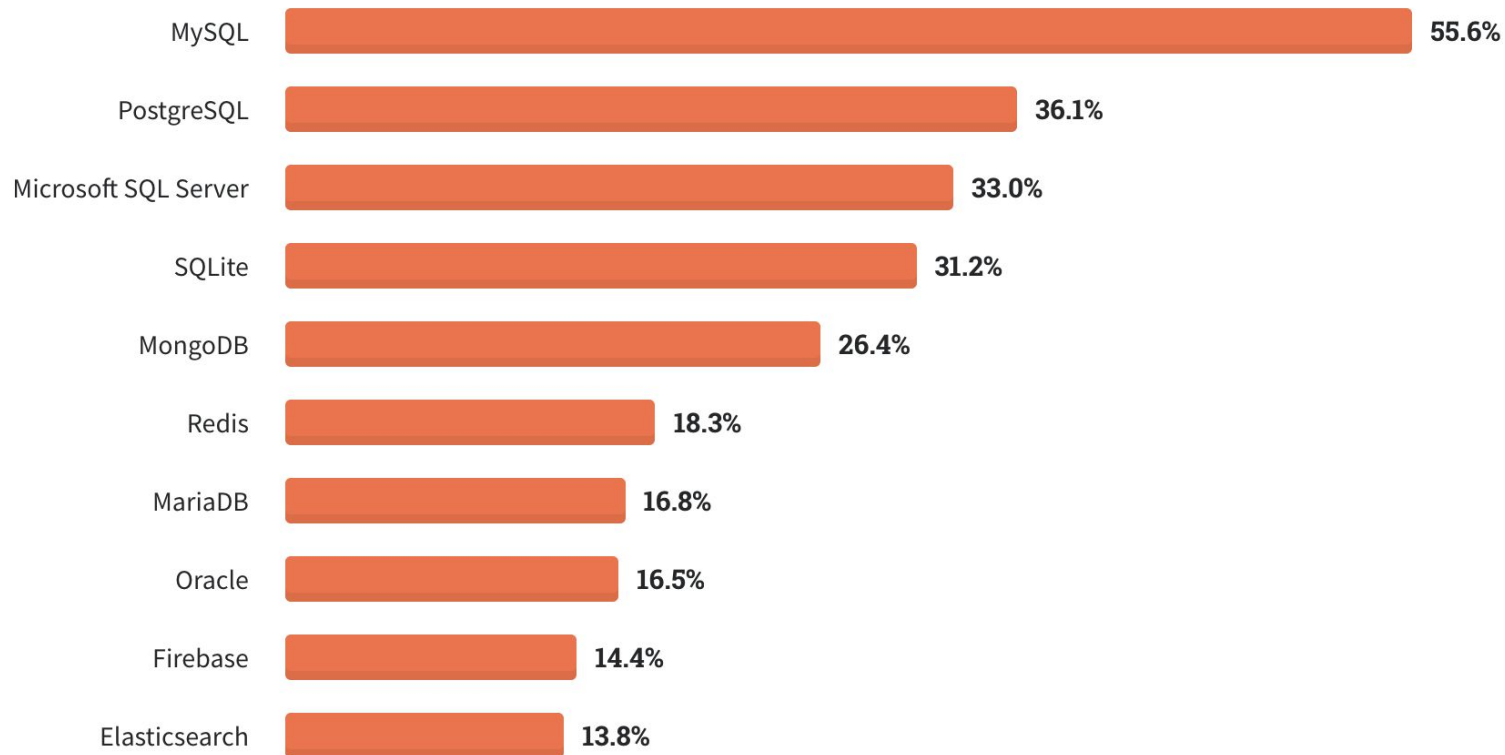
Platforms



database

- SQL
 - MySQL, Microsoft Access, Microsoft SQL Server, Oracle, PostgreSQL, ...
- NoSQL
 - MongoDB, Redis, ...

Databases



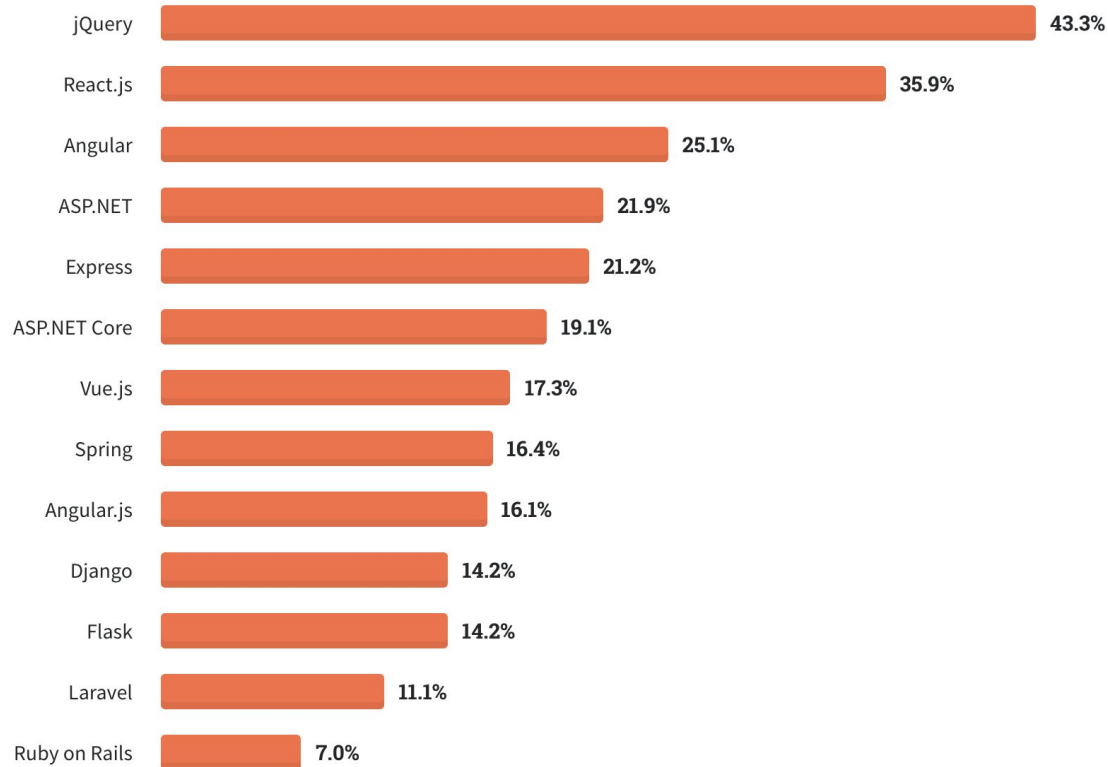
back-end framework

- Django, Flask
- Ruby on Rails
- Node.js, Express.js
- .NET
- ...

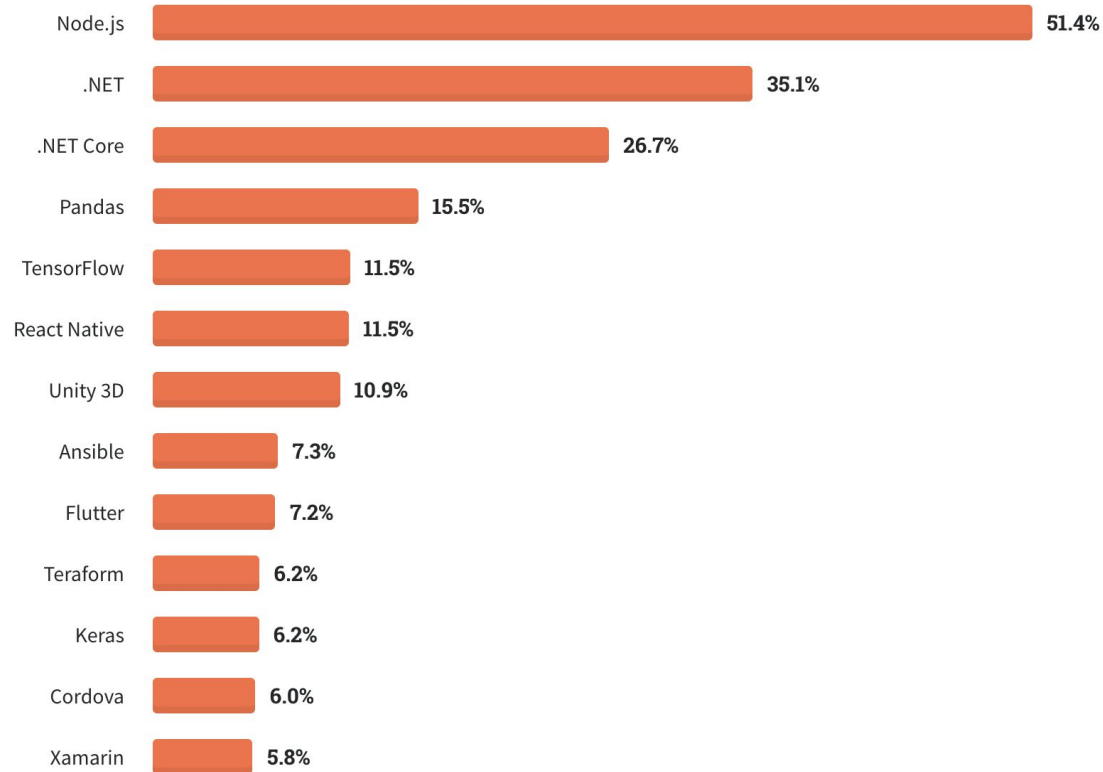
front-end framework

- Bootstrap, Foundation, Material
- React, Vue, Angular
- ...

Web Frameworks



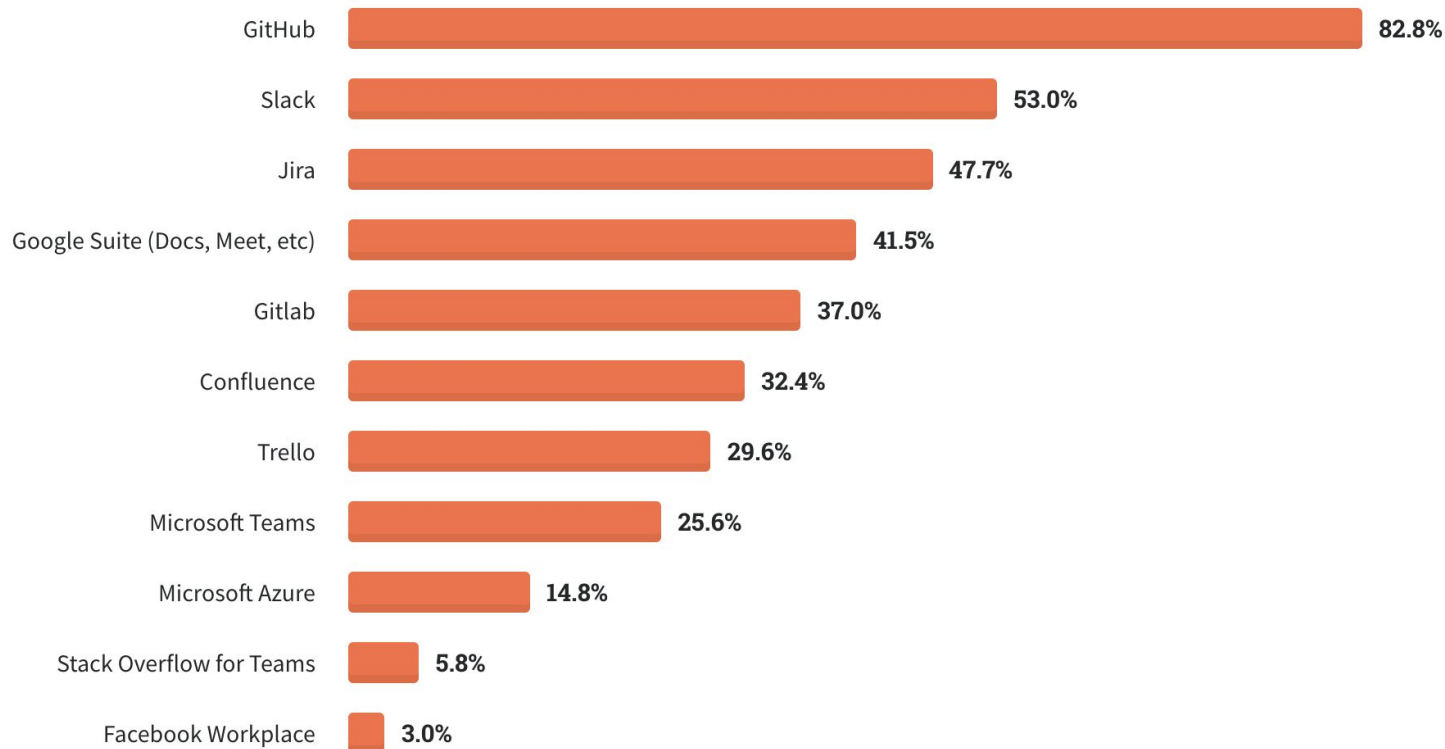
Other Frameworks, Libraries, and Tools



collaboration

- GitHub, GitLab, Bitbucket
- ...

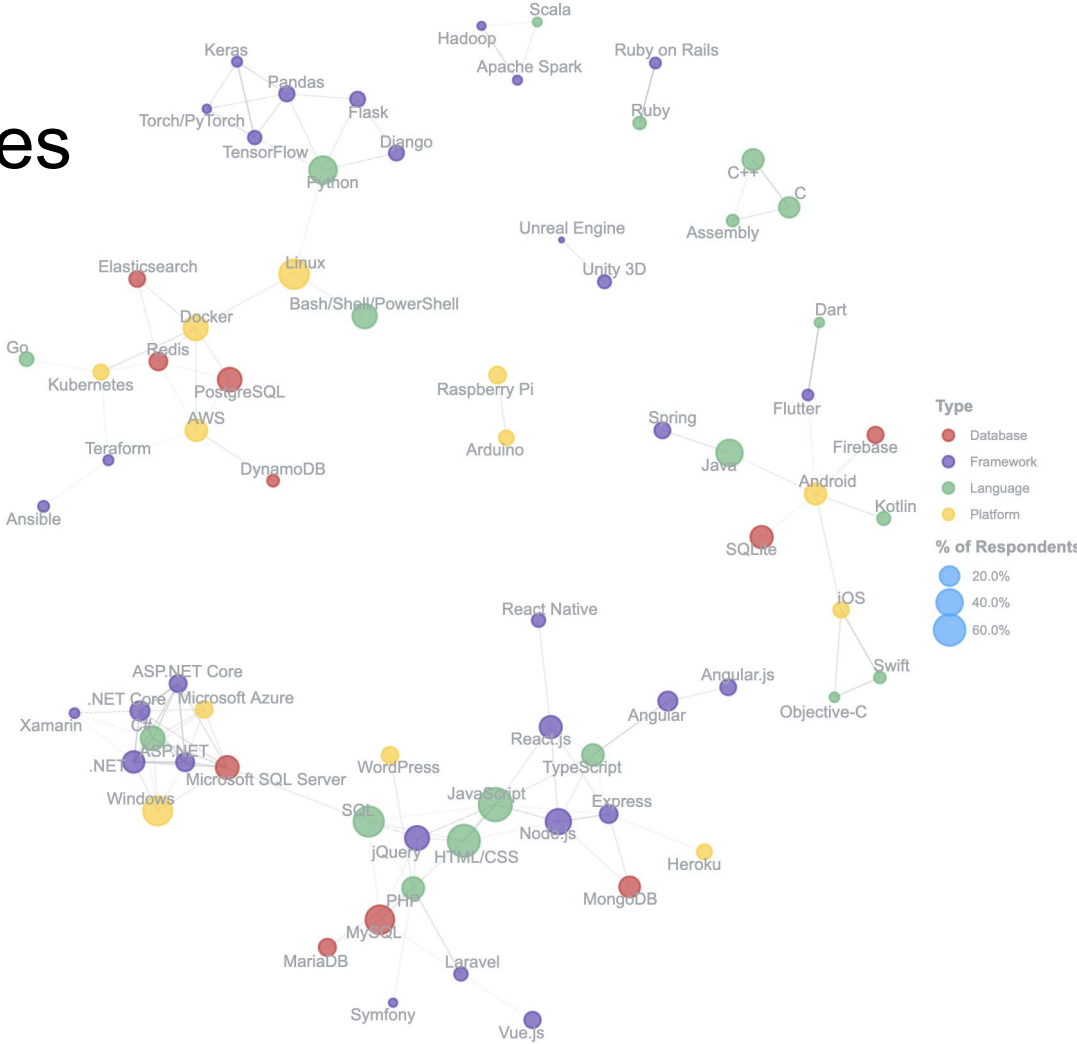
Collaboration tools



caching

- Redis
- Memcache
- ...

Correlated Technologies



Next Steps

- cs50.harvard.edu/x
- cs50.harvard.edu/ai
- cs50.harvard.edu/business
- cs50.harvard.edu/law
- cs50.harvard.edu/technology
- cs50.harvard.edu/web
- ...

The End