



The Fundamental Practice of Software Engineering Innovation

Best Practice of Front-end

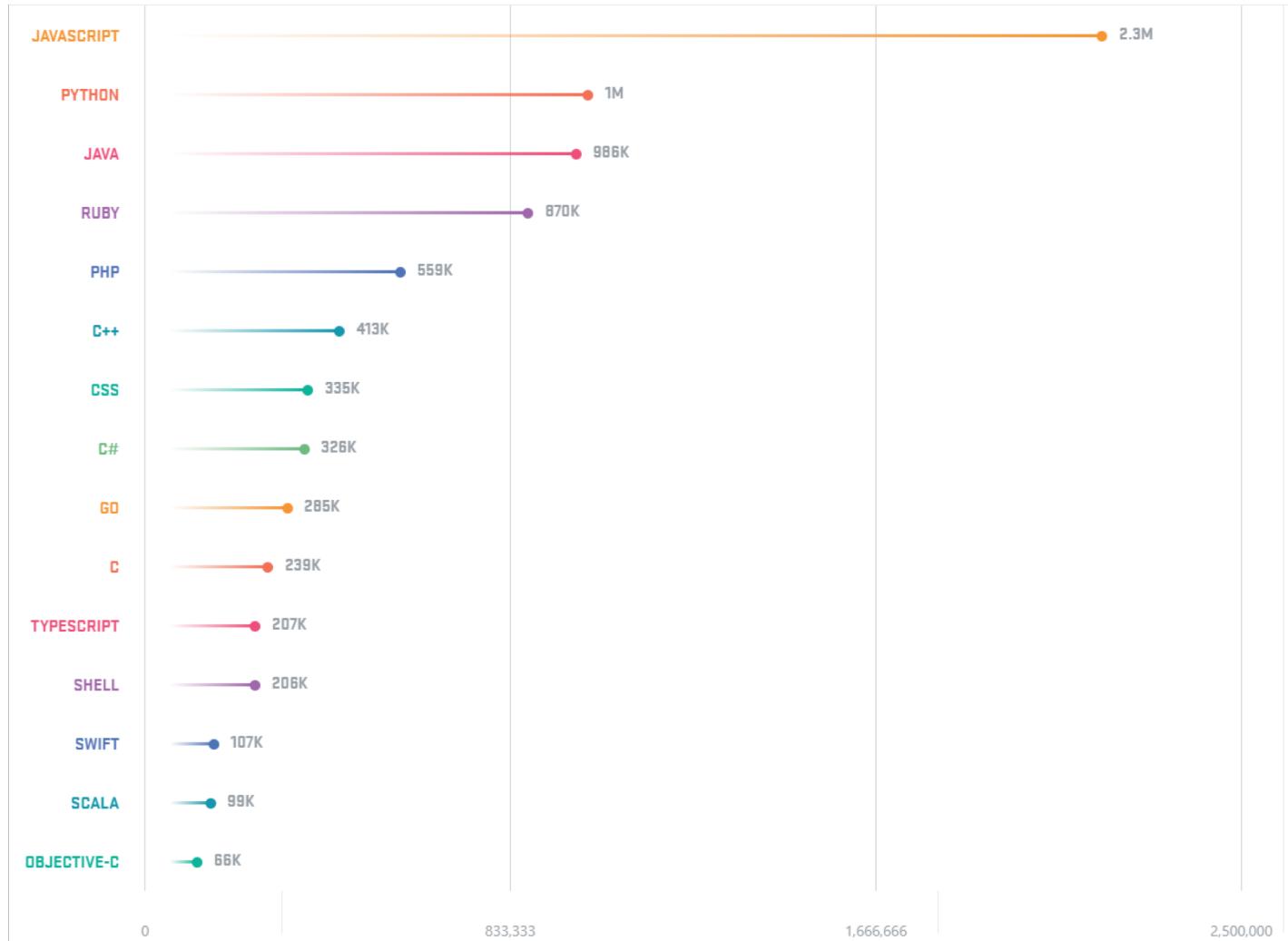
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The 15 most popular languages on GitHub





Ten most-forked projects

 TENSORFLOW/TENSORFLOW	24K
 TWBS/BOOTSTRAP	15K
 GITHUB/GITIGNORE	10.8K
 BARRYCLARK/JEKYLL-NOW	10.7K
 TENSORFLOW/MODELS	8.3K
 VUEJS/VUE	8.1K
 FACEBOOK/REACT	8K
 JLORD/PATCHWORK	7.4K
 SPRING-PROJECTS/SPRING-BOOT	7.4K
 TORVALDS/LINUX	6.1K

Projects with the most contributors

 MICROSOFT/VSCODE	15K
 FACEBOOK/REACT-NATIVE	8.8K
 NPM/NPM	7.6K
 ANGULAR/ANGULAR-CLI	7.4K
 TENSORFLOW/TENSORFLOW	7.3K
 FORTAWESOME/FONT-AWESOME	6.8K
 ANGULAR/ANGULAR	6K
 DOCKER/DOCKER	6K
 JLORD/PATCHWORK	5.9K
 ANSIBLE/ANSIBLE	5.9K



Projects with the most reviews

	DEFINITELYTYPED/DEFINITELYTYPED	800
	KUBERNETES/KUBERNETES	680
	HOMEBREW/HOMEBREW-CORE	580
	ANSIBLE/ANSIBLE	550
	NODEJS/NODE	480
	NIXOS/NIXPKGS	480
	APACHE/SPARK	450
	RUST-LANG/RUST	390
	SYMFONY/SYMFONY	340
	TENSORFLOW/TENSORFLOW	340

Ten most-discussed repositories

	KUBERNETES/KUBERNETES	388.1K
	OPENSHIFT/ORIGIN	91.1K
	CMS-SW/CMSSW	80.1K
	MICROSOFT/VSCODE	78.7K
	RUST-LANG/RUST	75.6K
	.NET/COREFX	75.2K
	TGSTATION/TGSTATION	74.8K
	NODEJS/NODE	66.3K
	SERVO/SERVO	54.9K
	ANSIBLE/ANSIBLE	53.9K



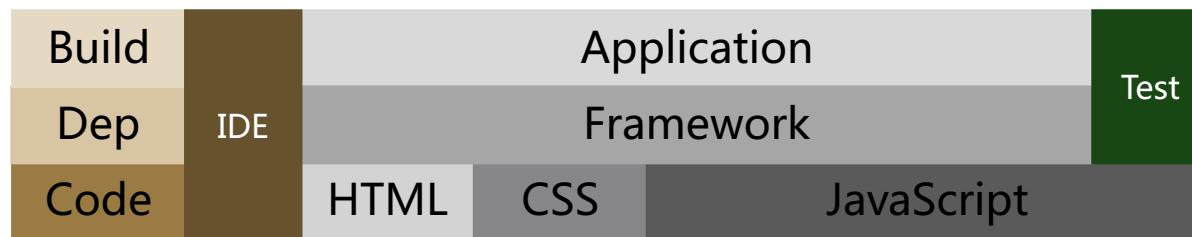
Best Practice



- “A **best practice** is a method or technique that has been generally accepted as **superior** to **any alternatives** because it produces results that are superior to those achieved by other means or because it has become a **standard way of doing things.**”



Front-end Dev Tool Chain





Code Management



- SVN VS. Git
 - Architecture
- Github
 - BitBucket
- Git
 - workflow



Build Management



- Gulp VS. Grant



Package Management



- NPM
- Bower



Project Management



- Communication
- Documentation
- Schedule
- Monitor



Homework III



- A Github repository of an application's front-end
 - Cover all the domains except for IDE
 - You can follow a mooc to build the application
 - Courses on Coursera.org
 - Use Github to record the whole process of application development
- Submission
 - Deadline
 - 2018-11-25
 - Github