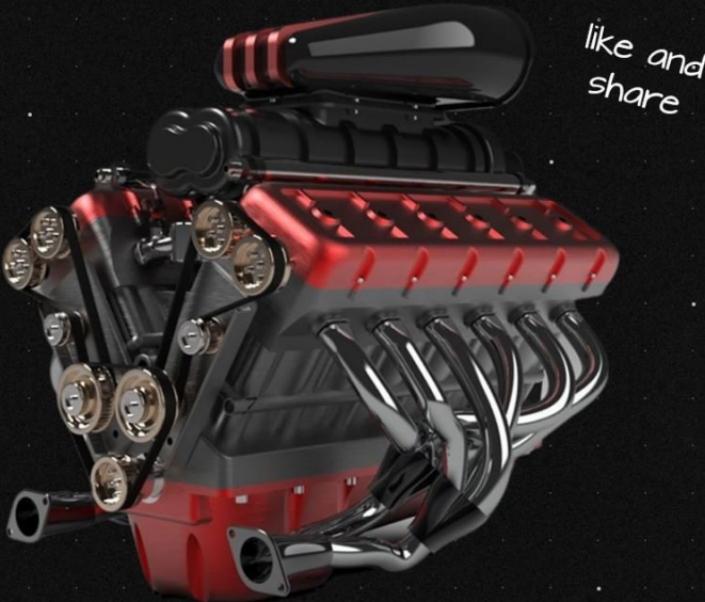


JS

Javascript Engine



What is a Javascript Engine?

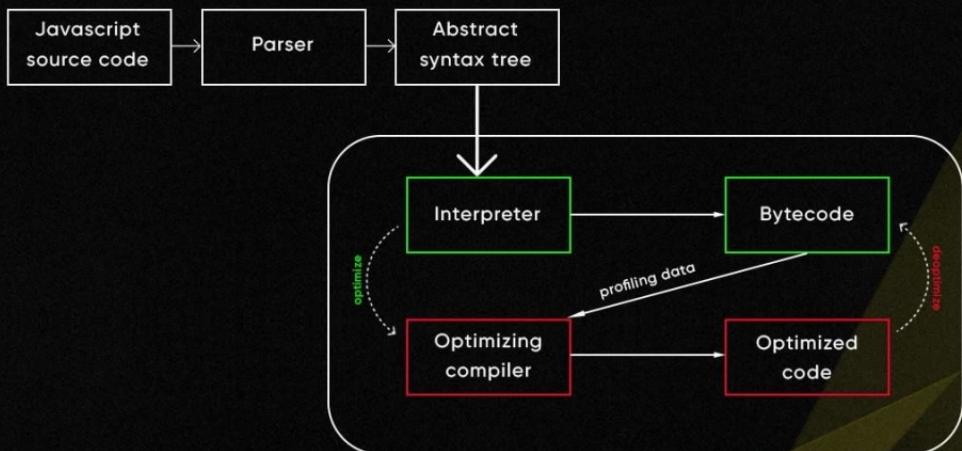
A JavaScript engine is a computer program that **executes JavaScript code** and converts it into computer understandable language. Every major browser has a **different** Javascript engine.



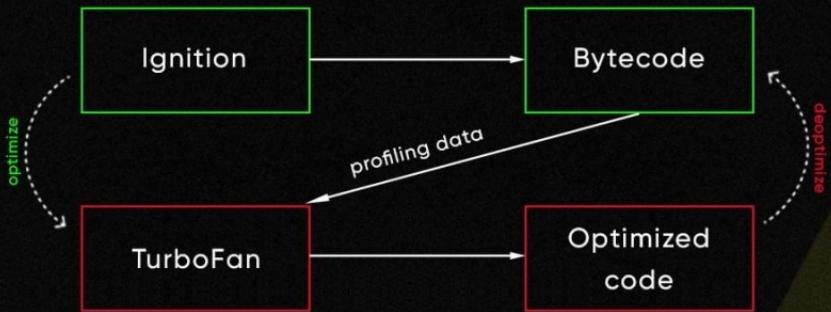
Browser	JS Engine
Google	V8 Engine
Firefox	Spider Monkey
Safari	Javascript Core
Edge	Chakra Engine



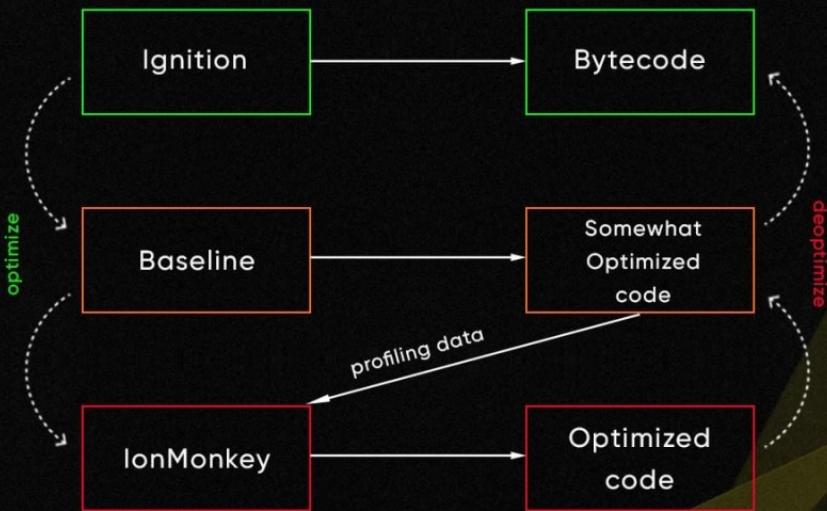
This is the block diagram of Javascript **engine pipeline**. However, the processes are different for most browsers. The singular purpose of Javascript engine is to **convert Js code into machine code**.



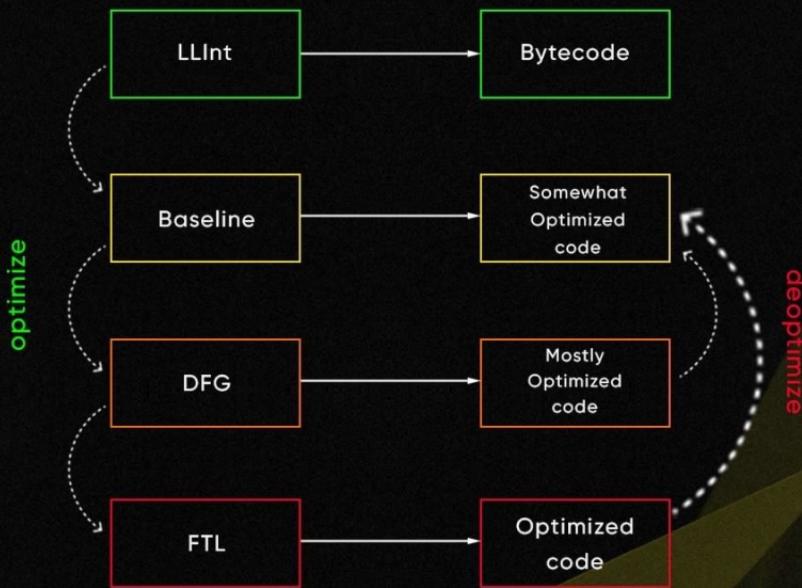
V8 was first designed to increase the performance of JavaScript execution in web browsers. In order to achieve speed, V8 converts JavaScript code into **more efficient machine code instead of using an interpreter.**



SpiderMonkey is a JavaScript and WebAssembly implementation library for the Mozilla Firefox web browser. Implementation behavior is defined by the **ECMAScript** and WebAssembly specifications.



The JavaScriptCore framework provides the ability to evaluate JavaScript programs from within **Swift**, **Objective-C**, and **C-based programs**. You can also use JavaScriptCore to inject custom objects into the JavaScript environment.



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Content Creator



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