



Cypress

NextGen Automation Framework

Cypress Introduction

- Next generation frontend automation testing tool for modern web applications
- Many existing tools like, Selenium WebDriver, Protractor, WebDriverIO
- Why Cypress?
- How Cypress is different from other tools

Cypress addresses the key pain points developers and QA engineers face when testing modern applications

Cypress Features

- Automatic Waiting
- Debuggability
- Supports multiple types of testing
- Time Travel
- Network Traffic Control
- Smart Orchestration
- Flake Detection

<https://docs.cypress.io/guides/overview/why-cypress>

WebDriver Architecture



Selenium Client /
Language Bindings



{JSON}
Wire Protocol Over HTTP

Browser Drivers

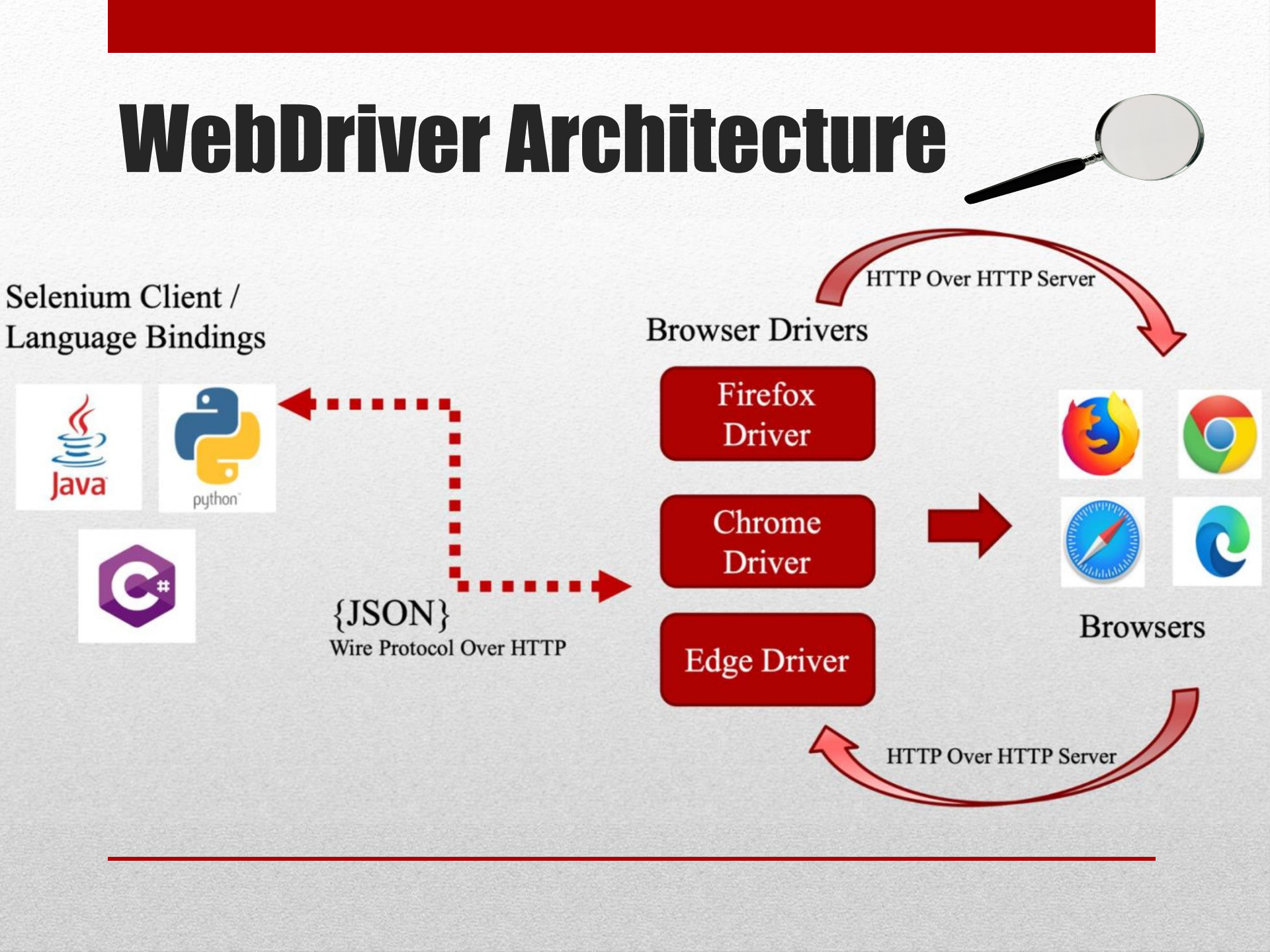


Browsers

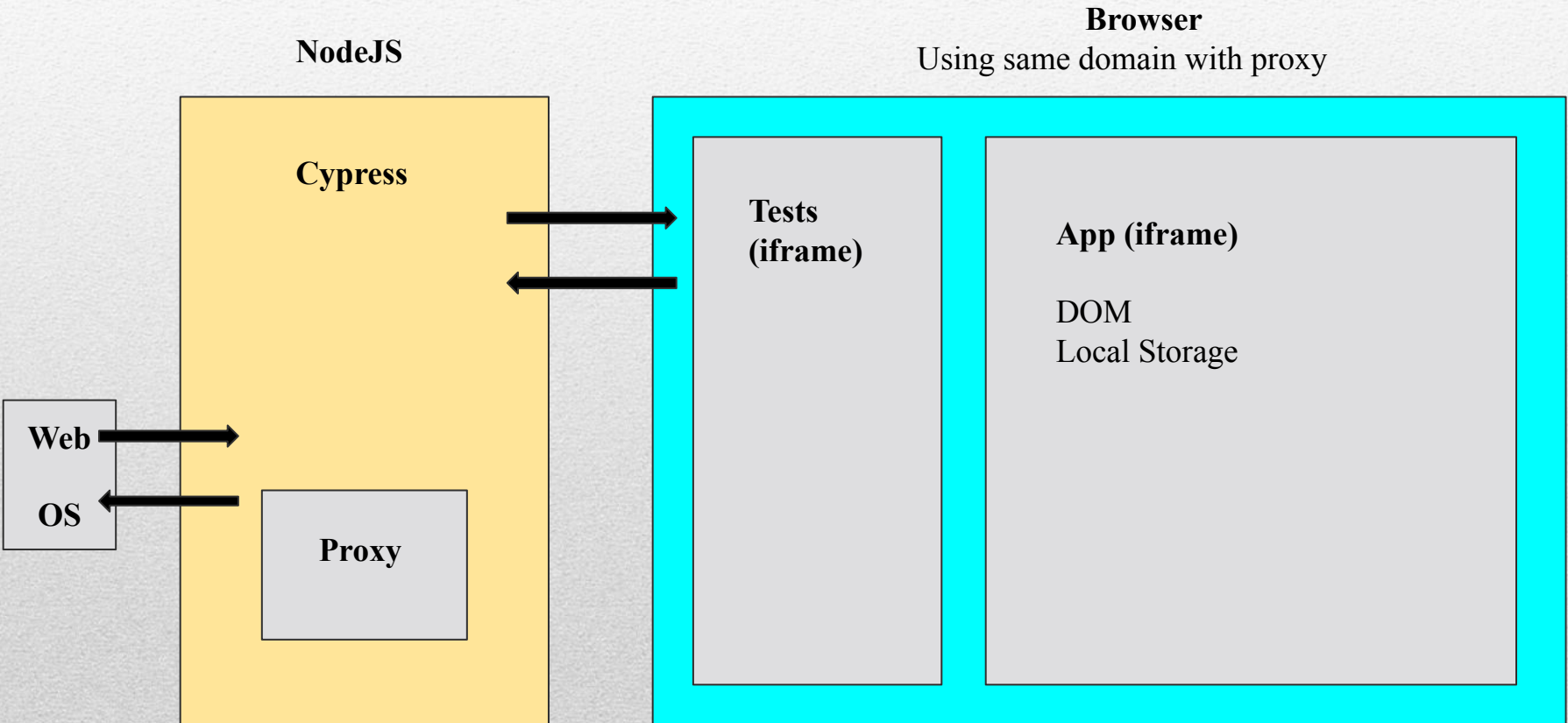


HTTP Over HTTP Server

HTTP Over HTTP Server



Cypress Architecture



Cypress vs Selenium

Pros

- Complete Framework
- Fast (Uses JavaScript)
- More Stable
- Less programming knowledge
- Test APIs
- Mock APIs

Cons

- IE and Safari not supported
 - Asynchronous
 - No Mobile App Automation
 - Single domain and single tab
 - Not friendly with iframes
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