



# Cypress Basic

CSS Selectors, Assertions, Actions, Basic Web Elements, Tables, Alerts and Tabs



# Cypress Introduction

## What is Cypress?

Cypress is an open-source testing framework for **web applications**. It provides a comprehensive set of tools and utilities for writing, running, and automating browser-based tests.

## Cypress vs Selenium

### Pros:

- Automatic waiting and retrying: we don't need to wait explicitly for certain conditions
- Built-in and interactive test runner: time travel, reflect code changes in real time, improve development speed.

### Cons:

- Limited Browser support: Chrome, Firefox and Electron
- Single tab restriction, also driving two browsers at the same time is impossible,



# CSS Locators

Basic Selectors	Attribute Selectors	Combination Selectors
Class selector “.classname”	Has Attribute: “[attribute]”	Children: “parent>child”
Id selector “#id”	Exact Attribute: “[attribute = value]”	Descendents: “parent ”
Tag selector “tagname”	Regex: “[attribute ^/\$/* = value]”	Siblings: “node~/+”
<b>Pseudo Classes</b>		
First/Last selector “:first/last”		
Index selector “:eq(index)”		
State selector “:hover, :active”		



# Hooks

- **before**
  - Runs once before all tests in the block
- **beforeEach**
  - Runs before each test in the block
- **after**
  - Runs once after all tests in the block
- **afterEach**
  - Runs after every test in the block



# Assertion

## Implicit/Built-in Assertion:

- `should(<chai expression>)`
  - Examples:
    - `should("be.true")`
    - `should("have.length", 5)`
- `and()`
  - Chained after `should()`

## Explicit Assertion:

- `expect(expression).to.be/have(value)`



# Basic Elements

- Radio Button
- Checkbox
- Drop Down List
- Text Input
- Alert
  - Confirm
  - Prompt
  - Basic Auth



# Advance Elements

- File Uploader
- Frames/IFrame
- Web Tables
- Tabs