

# UI Testing with Selenium IDE



# Selenium IDE



<https://www.selenium.dev/selenium-ide/>



# Topics

Install

Recording test cases

Run test cases

Working with command line tools

Integrate with web browser

Scaling with selenium

Continuous testing



# Selenium IDE

## Selenium IDE

Open source record and playback test automation for the web

 CHROME DOWNLOAD

 FIREFOX DOWNLOAD

 LATEST ZIP

☆ Star 2,135



### Web Ready

Simple, turn-key solution to quickly author reliable end-to-end tests. Works out of the box for any web app.



### Easy Debugging

Enjoy easier test debugging with rich IDE features like setting breakpoints and pausing on exceptions.



### Cross-browser Execution

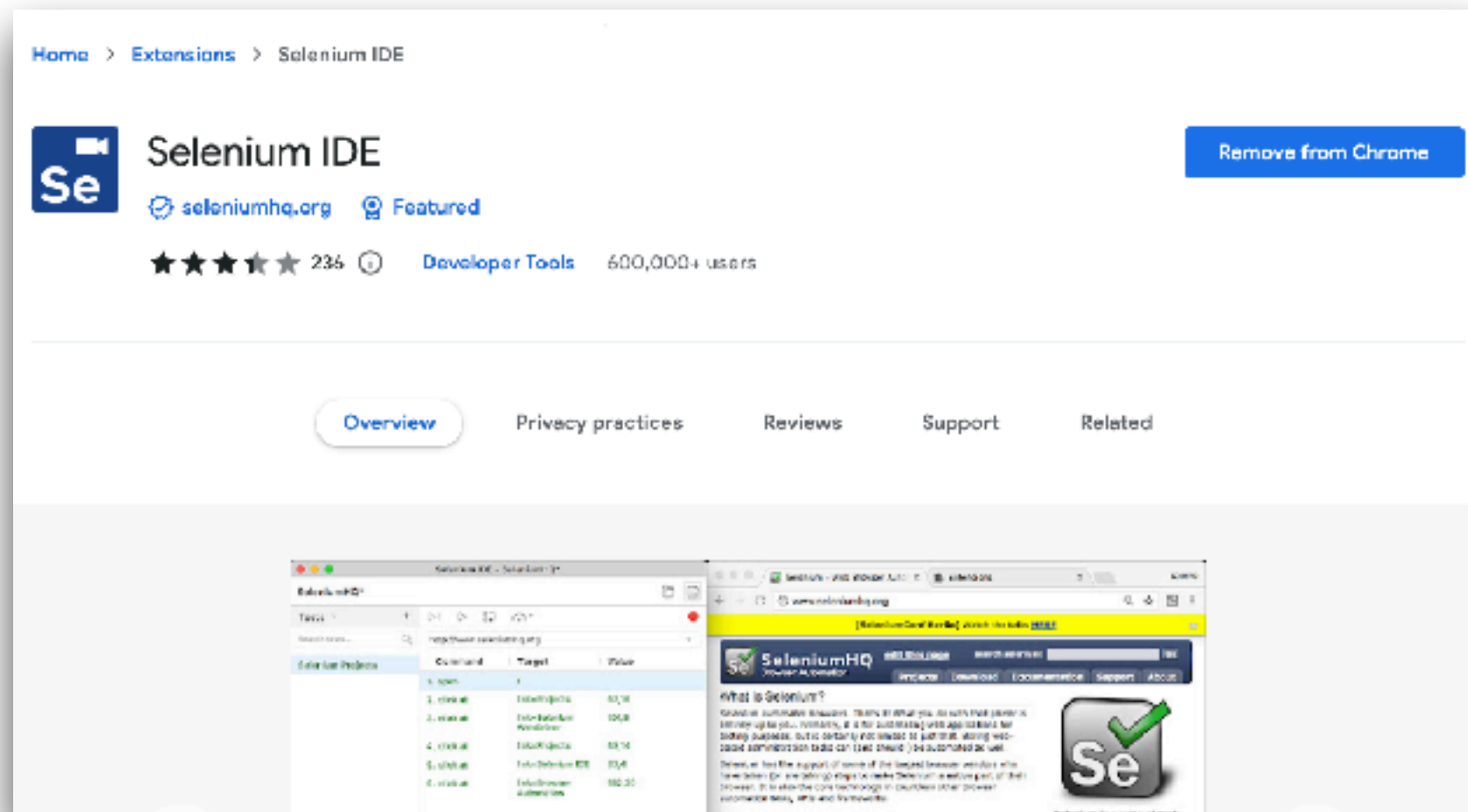
Run your tests on any browser/OS combination in parallel using the [Command-line Runner for Selenium IDE](#).

<https://www.selenium.dev/selenium-ide/>

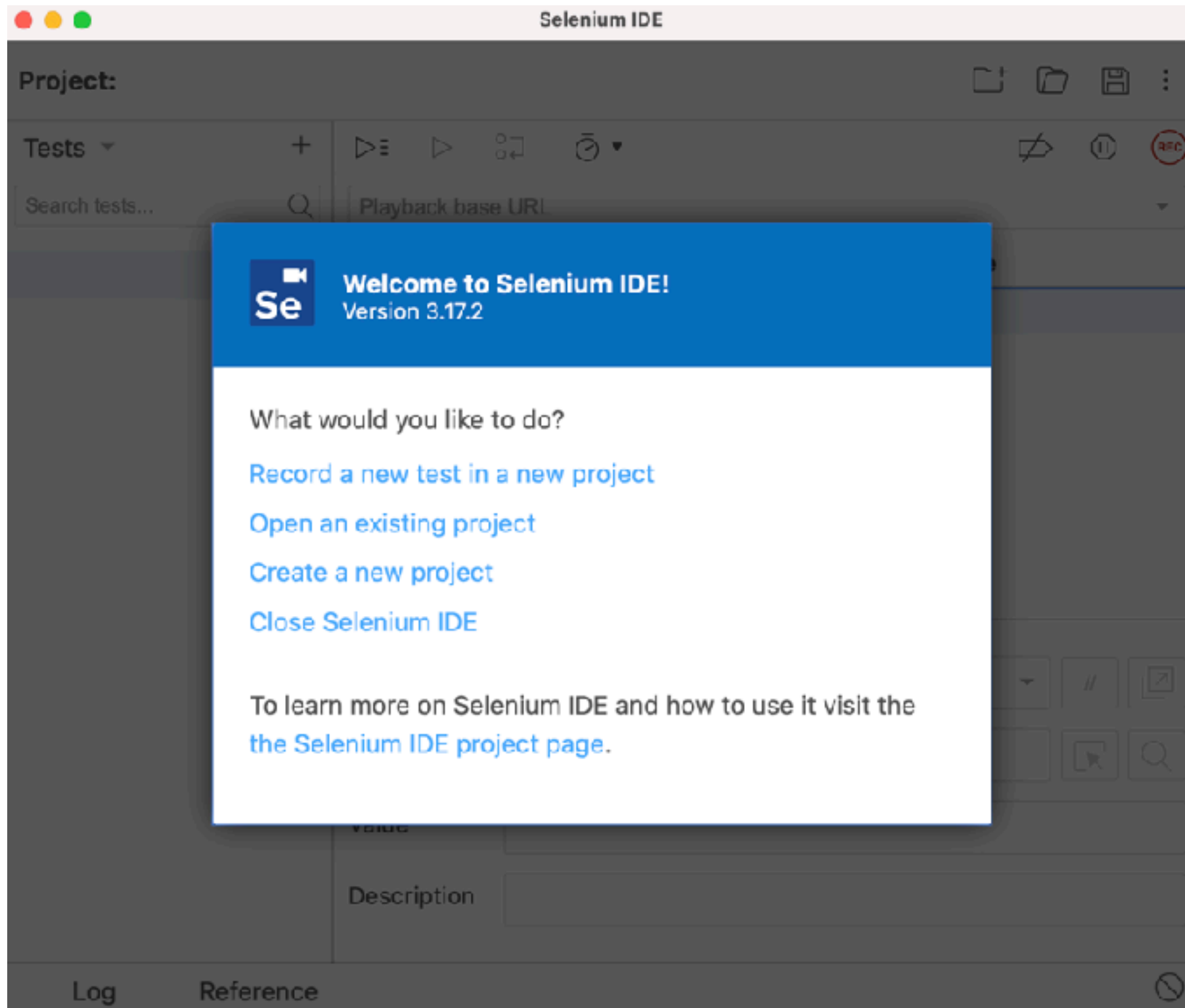


# Installation

## Google chrome extension Firefox extension



# Open Selenium IDE



# Record a new test case

Selenium IDE - demo\_02

Project: demo\_02 Save project ⌘S

Executing ▾

✓ case\_01

https://www.google.com

	Command	Target	Value
1	✓ open	/	
2	✓ set window size	1420x855	
3	✓ type	name=q	test
4	✓ send keys	name=q	⌘[KEY_ENTER]
5	✓ assert text	css=.g > div > div > .kvH3mc .LC20lb	Speedtest.net

Command

Target

Value

Description

Runs: 1 Failures: 0



# Target types

Project: demo\_02\*

Test suites ▾ +

Search tests... 🔍

Default Suite

✓ case\_01\*

https://www.google.com

	Command	Target	Value
1	✓ open	/	
2	✓ set window size	1420x855	
3	✓ type	name=q	test
4	✓ send keys	name=q	\$(KEY_ENTER)
5	✓ assert text	css=g > div > div > .kvH3mc.LC20lb	Speedtest.net

Command: assert text # ↗

Target: css=g > div > div > .kvH3mc.LC20lb ↗ 🔍

Value: Speedtest.net

Description:





# Target types

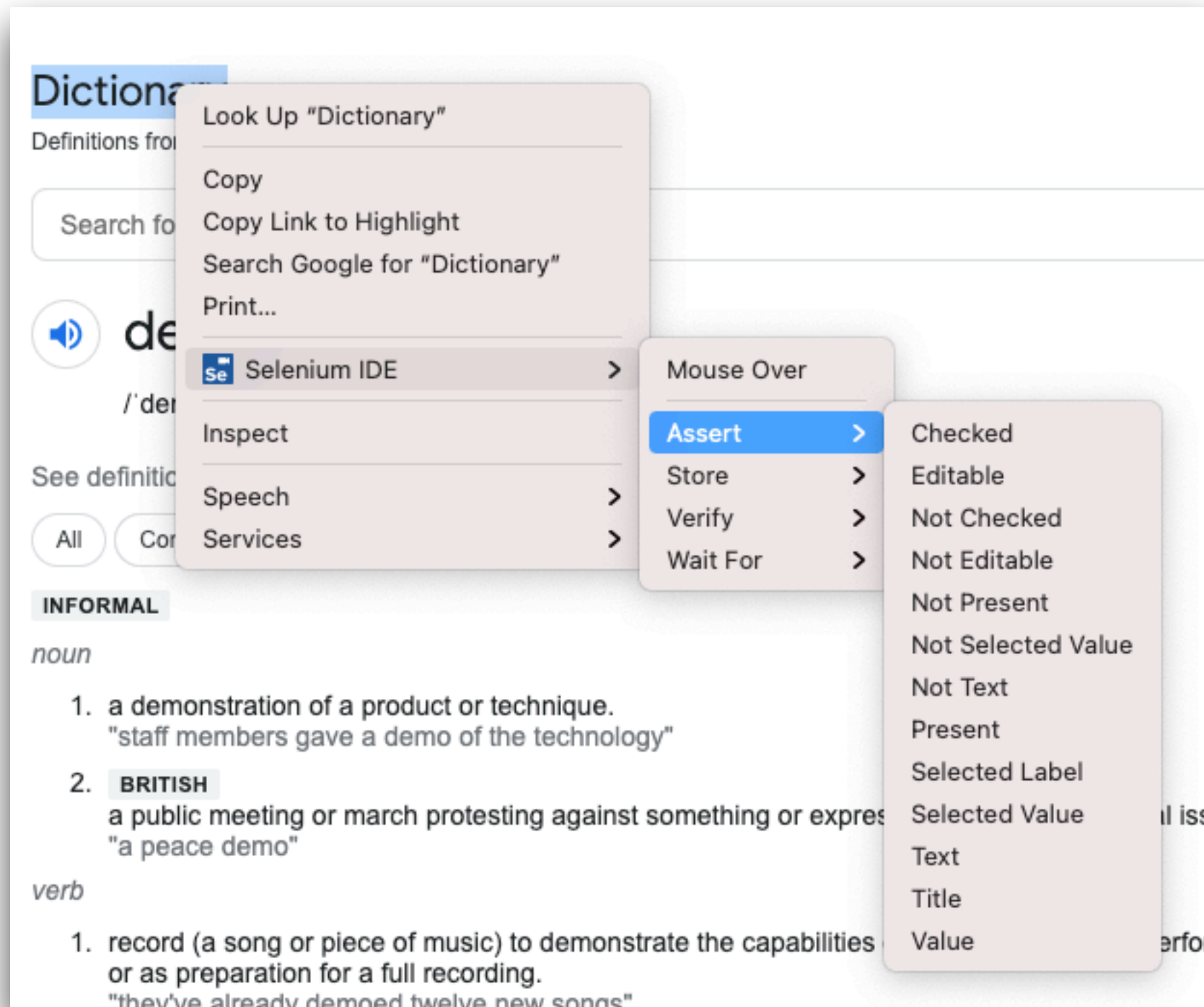
id, name

xpath

css selector



# Add assertion



# Export to code

**Select language**

☐ C# NUnit

☐ C# xUnit

☒ Java JUnit

☐ JavaScript Mocha

☐ Python pytest

☐ Ruby RSpec

☐ Include origin tracing code comments

☐ Include step description as a separate comment

☐ Export for use on Selenium Grid

Cancel

Export



# Test Suite :: run in parallel

×

**Suite properties**

Timeout (seconds)

Run in parallel ☒

Running in parallel works only in the [runner](#)

Persist session ☐  
(not recommended)

CancelSubmit

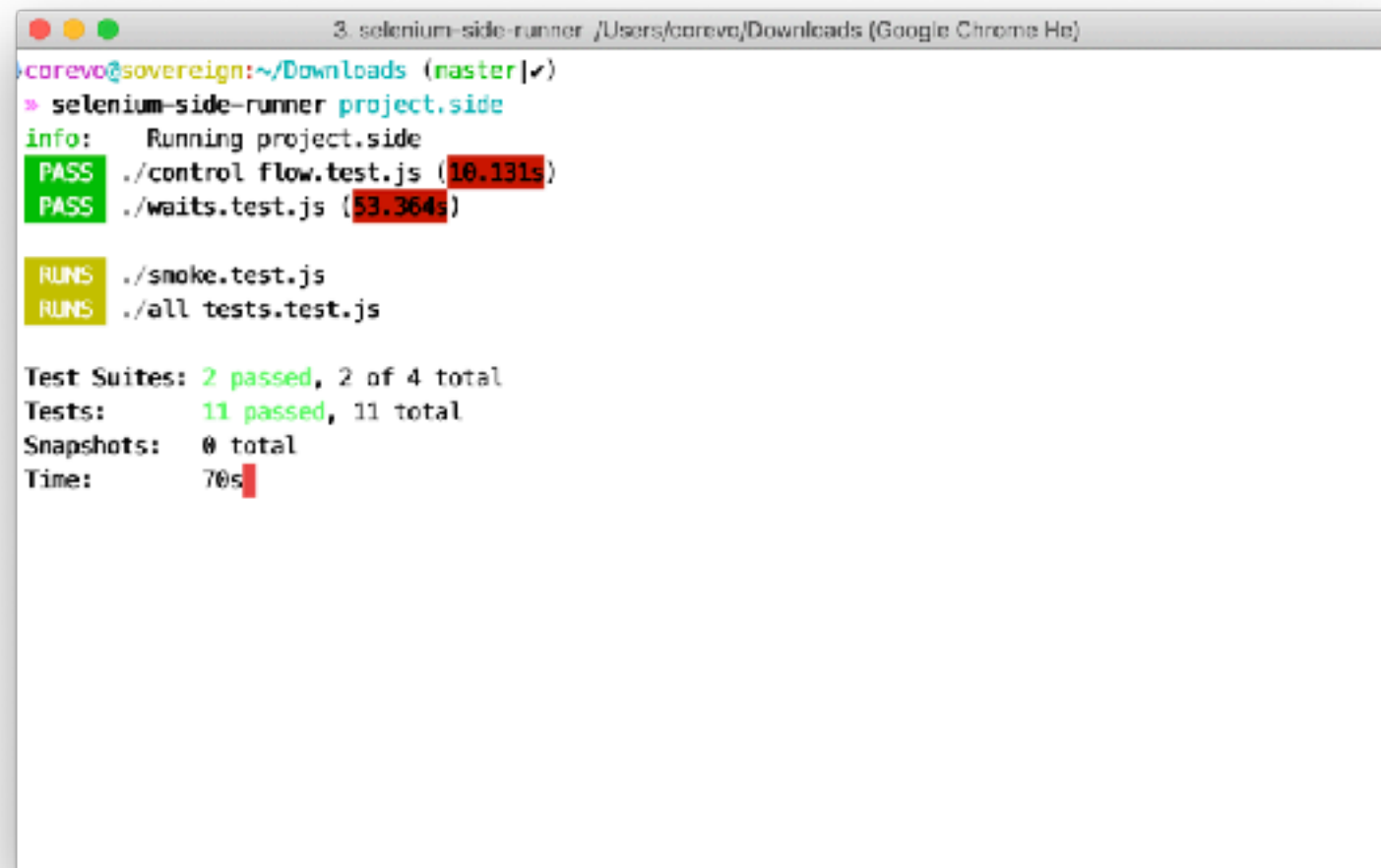


# Selenium Side Runner



# Selenium Side Runner

```
$npm install -g selenium-side-runner  
$selenium-side-runner
```

A terminal window titled '3. selenium-side-runner /Users/corevo/Downloads (Google Chrome He)' shows the execution of 'selenium-side-runner project.side'. The output includes: 'info: Running project.side', 'PASS ./control flow.test.js (10.131s)', 'PASS ./waits.test.js (53.364s)', 'RUNS ./snoke.test.js', 'RUNS ./all tests.test.js', and a summary: 'Test Suites: 2 passed, 2 of 4 total', 'Tests: 11 passed, 11 total', 'Snapshots: 0 total', and 'Time: 70s'.

```
3. selenium-side-runner /Users/corevo/Downloads (Google Chrome He)  
corevo@sovereign:~/Downloads (master)✓  
» selenium-side-runner project.side  
info: Running project.side  
PASS ./control flow.test.js (10.131s)  
PASS ./waits.test.js (53.364s)  
  
RUNS ./snoke.test.js  
RUNS ./all tests.test.js  
  
Test Suites: 2 passed, 2 of 4 total  
Tests: 11 passed, 11 total  
Snapshots: 0 total  
Time: 70s
```

<https://www.selenium.dev/selenium-ide/docs/en/introduction/command-line-runner>



# Working with command

Web browser

Headless browser

Generate report with junit format

Parallel testing

Test result

Run with selenium grid

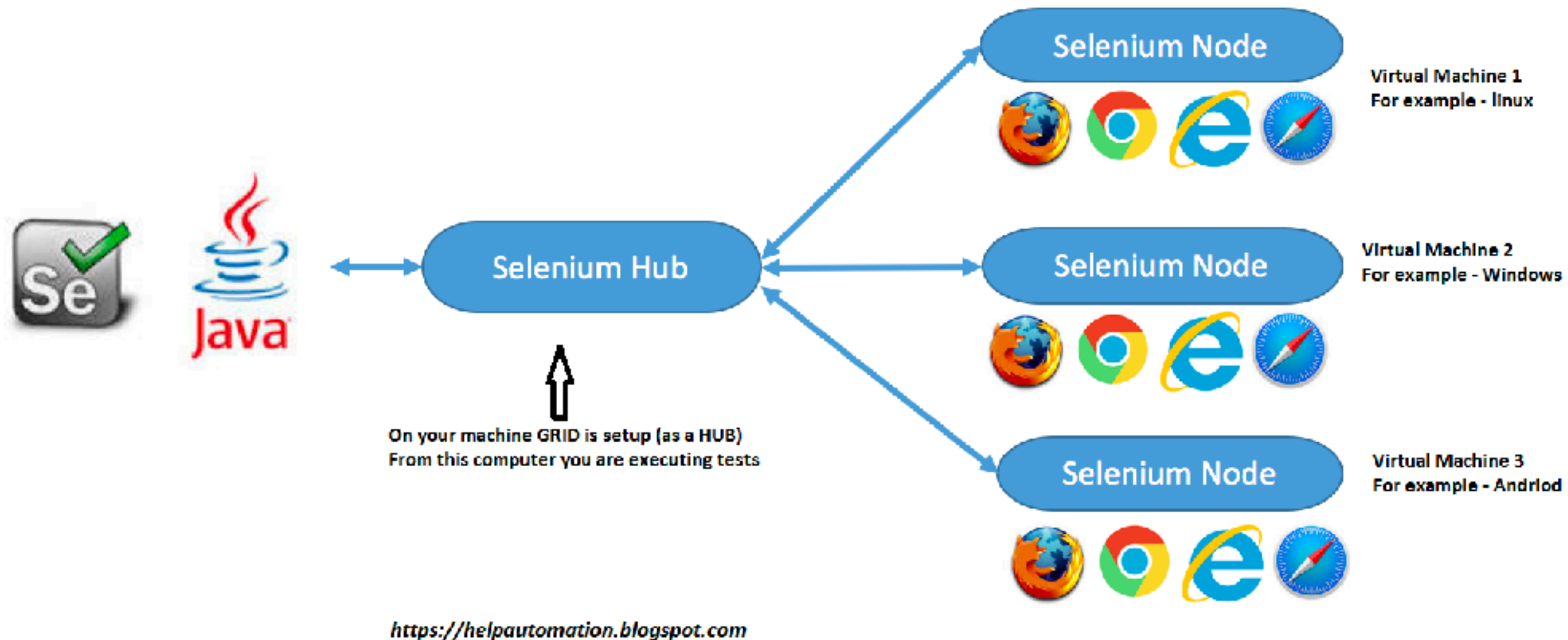


# Scaling UI testing with **Selenium Grid**





# Selenium Grid



<https://github.com/SeleniumHQ/selenium/wiki/Grid2>



# Run on selenium grid

```
$selenium-side-runner --server <url>
```



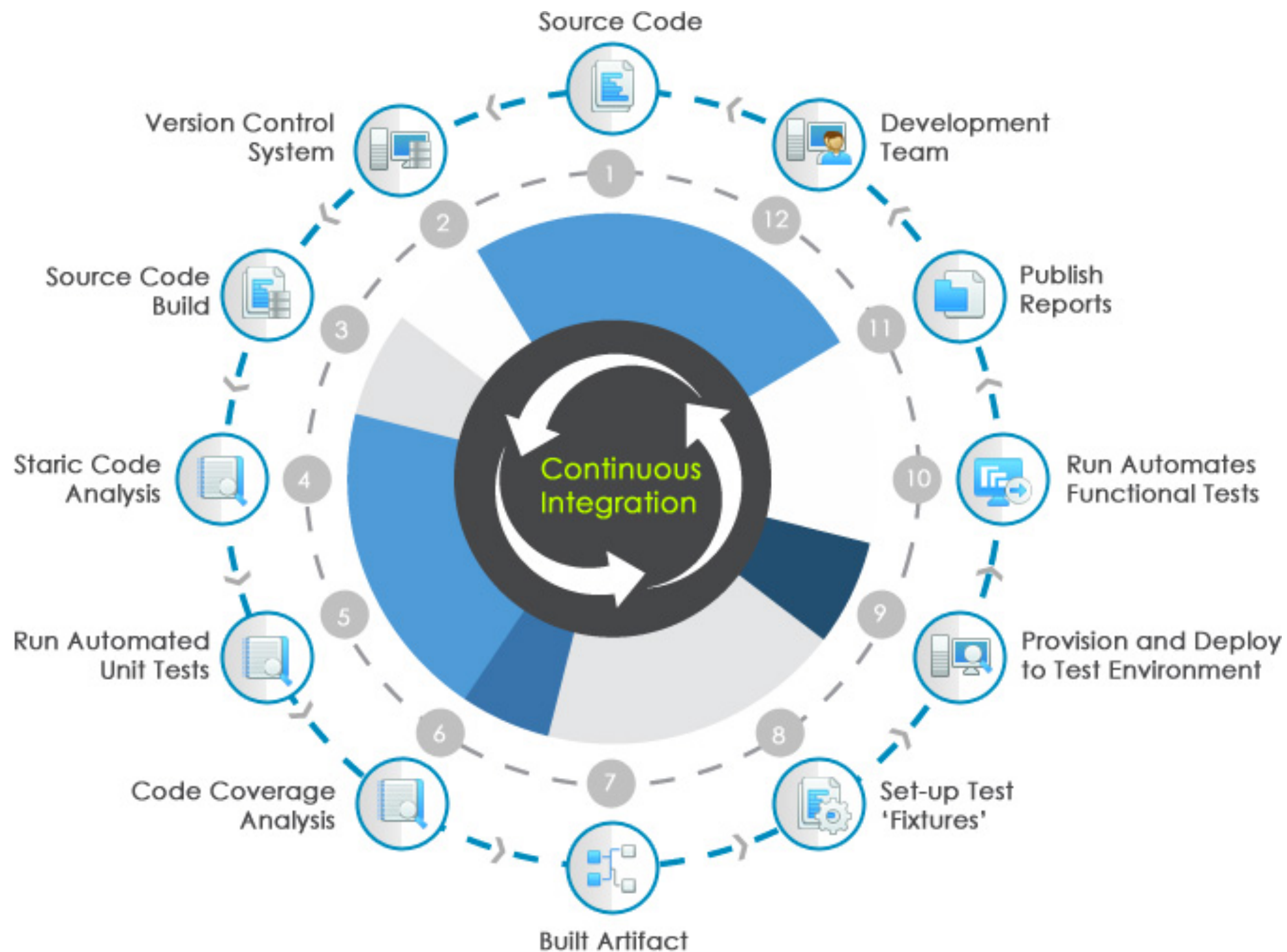
# Continuous Testing



<https://jenkins.io/>



# Continuous Integration



# Continuous Integration

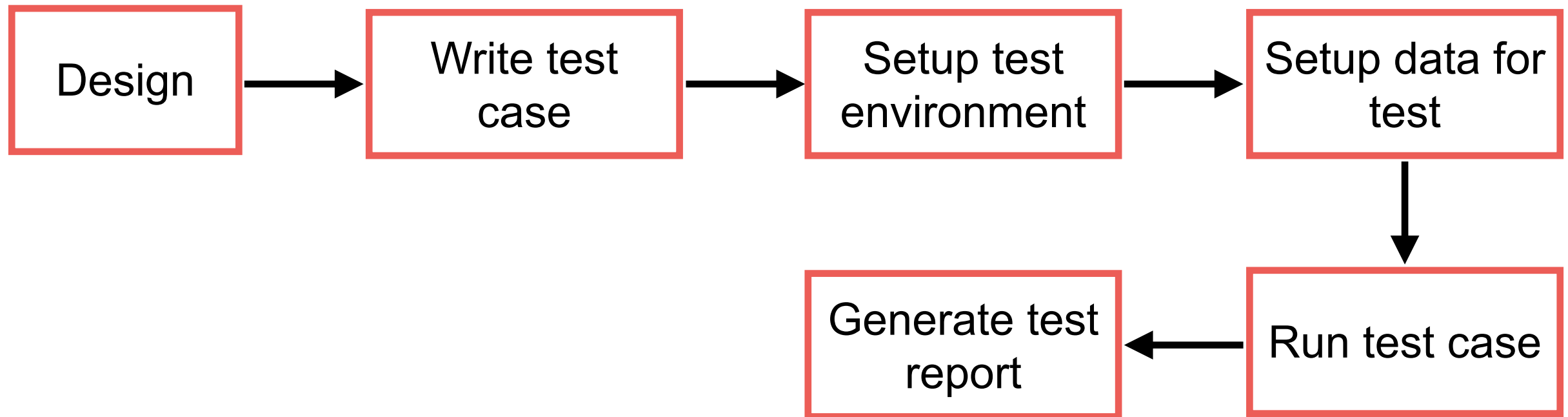




# Test Environment and Data



# Process



# Q/A

