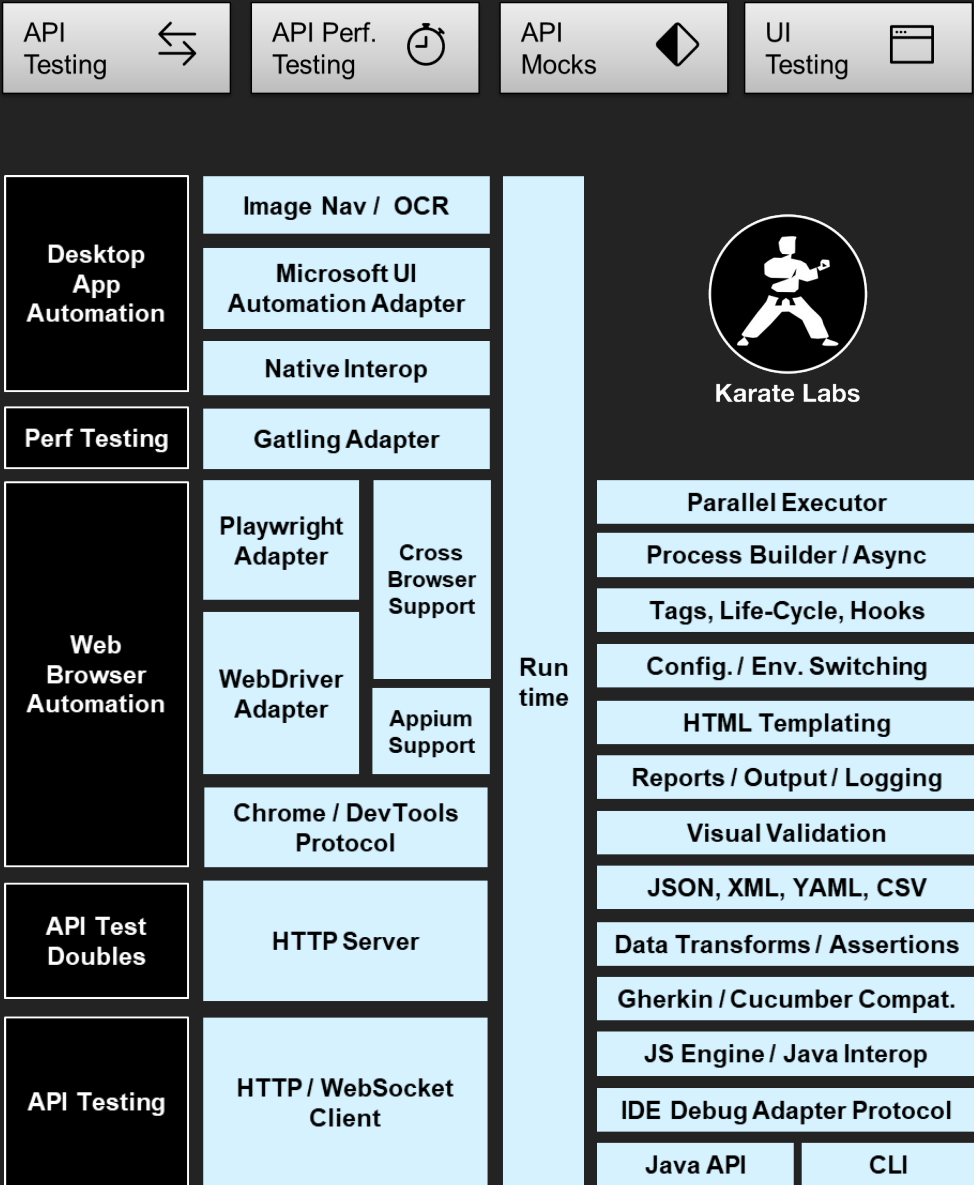






Did You Know?

Open-Source test automation platform










Used by 500+ companies,
including 76 of the Fortune 500








Proprietary features for Enterprise Teams

IDE Experience	<p><u>Premium</u> Code Folding Autocompleted Syntax Validation Debug & Step-through Debug Java & Karate Advanced Reports Core syntax support Code Formatting Embedded Language Support Run Tests / View Reports</p>	 Karate IDE Plugins 		
K-Flow	Model Driven Testing			
	Workflow Authoring			
	API Documentation			
Async API	Kafka gRPC Websockets			
API Data Importer	Postman Collections OpenAPI / Swagger cURL HAR			








API Testing

 API Assertions	 End-user workflows	 Data Driven Testing	 Parallel Execution	 Java Interop	 Re-use as Perf. Tests	 Easy for non-programmers
Low-Code Schema Matching	Designed to chain API calls & user actions	Loop with ease and even use CSV files	~10 times faster than single-threaded	Test DB calls, async, gRPC, Kafka, and more	Save time instead of re-writing tests in a 2nd tool	Product Owners can contribute to tests








API Performance Testing

 Re-use API tests	 Rich reports	 CI / CD Friendly	 Runtime Options	 Java Interop	 Payload Assertions	 Simple Setup
Save time by re-using functional tests as-is	Detailed HTML powered by Gatling	Enable continuous performance testing	Support via Maven or Gradle	Any Java integration can be per-tested	Confidence that server-responses are accurate	Easy to add to existing API testing project

API Mocks

 Self Hosted	 Dynamic Responses	 Git Friendly	 Parallel Requests	 Life-cycle API	 Easy Install	 Simple Syntax
100% local, no data in the cloud	Handle state, simulate complex behavior	Share and collaborate using plain-text	Thread-safe, even support performance tests	Embed in unit-tests or command-line	Get started in minutes, minimal setup	No programming experience needed

Web Browser Automation

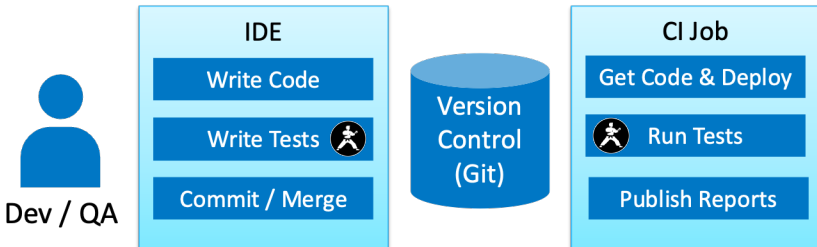
 Standards Support	 Cross Browser	 Stable Tests	 Parallel Execution	 Visual Testing	 Assertions and Reports	 Hybrid Testing
W3C WebDriver, Chrome DevTools	Switch between browsers with just config	Wait for elements, powerful API	Use Docker or cloud-based grids	Self-hosted, local and low-latency	Built-in along with tags, config and env. switching	API and UI testing within same test

Karate tests are first-class citizens of your development pipeline.



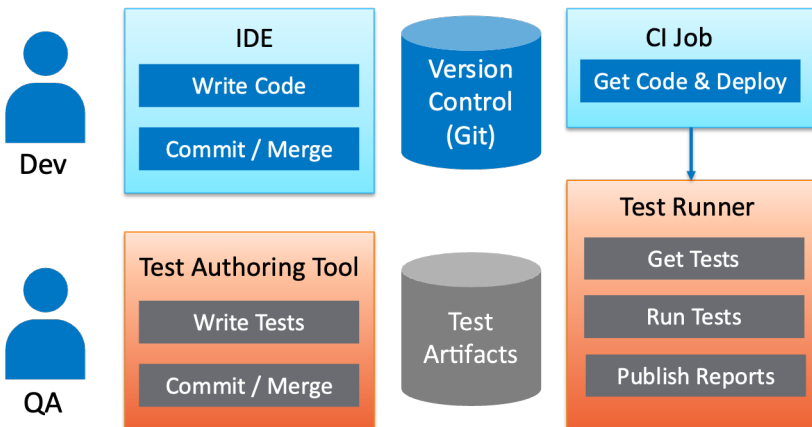
With
Karate

- Tests and code co-exist within IDE
- Shift-left: easily run tests pre-merge
- Code and tests share Git history



With
Other
Vendors

- Tests need extra tools & user-interface
- Developers and testers work in silos
- Two different version-control systems



Testing Async APIs

Kafka, gRPC, Websockets

```
* def session = karate.consume('kafka')
* session.topic = 'test-topic'
* session.count = 1
* session.start()
```

Async
Consumer

```
* topic 'test-topic'
* key 'first'
* value { message: 'hello', info: { first: 1, second: true } }
* produce kafka
```

Producer
DSL

```
* def response = session.collect()
* match response[0].key == 'first'
* match response[0].value == { message: 'hello', info: { first:
```

Collect &
Assert



Karate Labs

5

0

Scenarios

2023-05-24 03:39:33 PM

[1:7] simple assertions

[2.1:18] data-driven
assertions: 1

[2.2:19] data-driven
assertions: 3

[2.3:20] data-driven
assertions: 5

[2.4:21] data-driven
assertions: 15

Summary | Tags | Feature: *karate-demo/src/test/java/demo/unit/fizz-buzz.feature* | demo of data-driven unit-testing

Scenario: [1:7] simple assertions ms: 36

>> Background:

8 * match fb(1) == '1'	22
9 * match fb(3) == 'Fizz'	1
10 * match fb(5) == 'Buzz'	1
11 * match fb(15) == 'FizzBuzz'	0

Scenario: [2.1:18] data-driven assertions: 1 ms: 1

>> Background:

14 * match fb(val) == expected	1
--------------------------------	---

Scenario: [2.2:19] data-driven assertions: 3 ms: 1

>> Background:

14 * match fb(val) == expected	0
--------------------------------	---

Scenario: [2.3:20] data-driven assertions: 5 ms: 1




>> Background:




14 * match fb(val) == expected	0
--------------------------------	---




Data-Driven Testing.




You can even call Java code.

Built-in, easy integrations

 GraphQL <SOAP/> {REST:}	 RabbitMQ kafka gRPC	 MS UI-Automation Playwright Gatling
HTTP APIs	Other Protocols	Core Adapters

 BrowserStack SauceLabs	 Gitpod GitLab	 Google Azure
Cloud Executors	Cloud Dev	Cloud Runtime

 Visual Studio Code	 Cucumber JUnit 5	 Maven docker npm BASH
IDE Plugins	Standards	Core Runtime

 Testcontainers spring GraalVM Java	 REPORT PORTAL SMARTBEAR Zephyr XRAY	 axe DevTools
Java / Interop	Reports / Collab.	Other Adapters

Get started.



karatelabs.io