# An introduction into Rest Assured & WireMock

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- ► What is WireMock?
- ► What is Rest Assured?
- ► Why use them?
- Demos
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- ► Simulator for HTTP-based APIs
- Used within Java application, JUnit test, Servlet container or as standalone process.
- Open source
- http://wiremock.org

► In Java(Using JUnit):

```
@Rule
public WireMockRule wireMockRule = new WireMockRule();
```

► In Java(Without JUnit):

```
WireMockServer wireMockServer = new WireMockServer(options().port(8089));
wireMockServer.start();
```

Standalone:

```
$ java -jar wiremock-standalone-2.8.0.jar
```

Mocking responses in code...

- Fluent Interface
- Simple

- or JSON files(at runtime)
- POST to http://<host>:<port>/\_admin/mappings or placed with a .json extension in src/test/resourc

```
"request": {
    "method": "GET",
    "url": "/some/thing"
},
"response": {
    "status": 200,
    "body": "Hello world!",
    "headers": {
        "Content-Type": "text/plain"
```

```
stubFor(any(urlPathEqualTo("/everything"))
.withHeader("Accept", containing("xml"))
.withCookie("session", matching(".*12345.*"))
.withQueryParam("search_term", equalTo("WireMock"))
.withBasicAuth("jeff@example.com", "jeffteenjefftyjeff")
.withRequestBody(equalToXml("<search-results />"))
.withRequestBody(matchingXPath("//search-results"))
.witlReturn(aResponse()));
```

- Stateful behaviour to mocks
- More complex test cases

```
@Test
public void carScenario() {
    stubFor(get(urlEqualTo( testUrl: "/cars")).inScenario( s: "Car inventory")
             .whenScenarioStateIs(STARTED)
             .willReturn(aResponse()
                     .withBody("{ \"cars\": [ { \"id\": 0, \"name\": \"porsche\" } ] }")
                     .withHeader( key: "content-type", ...values: "application/json")
                     .withStatus(200)));
    stubFor(post(urlEqualTo( testUrl: "/cars")).inScenario( s: "Car inventory")
             .whenScenarioStateIs(STARTED)
             .withRequestBody(containing([value: "Post car"))
             .willReturn(aResponse()
                     .withStatus(201)
                     .withHeader( key: "content-type", ...values: "application/json"))
             .willSetStateTo("Car added"));
    stubFor(get(urlEqualTo(testUrl: "/cars")).inScenario(s: "Car inventory")
             .whenScenarioStateIs("Car added")
             .willReturn(aResponse()
                     .withBody("{ \"cars\": [ { \"id\": 0, \"name\": \"porsche\" }," +
                              "{ \"id\": 1, \"name\": \"ferrari\" } ] }")
                     .withStatus(200)
                     .withHeader( key: "content-type", ...values: "application/json")));
```