

TTT: Automation

Within this page of **TTT** (Tutorials, Tips and Tricks) you may find some useful articles related with automation, including a vast collection of tutorials for all sorts of frameworks (e.g. Cucumber, JUnit, TestNG, etc), in all sort of languages (e.g. Java, C, C#, Ruby, Perl, Python, etc) and all types of testing (e.g. web, cloud, mobile).

- [Examples by programming language](#)
- [Examples by testing framework report](#)
- [Examples by target environment](#)

Examples by programming language

blocked URL	C#	C/C++	Js	blocked URL	blocked URL	blocked URL	blocked URL
<ul style="list-style-type: none">• Integration with Gradle• Load testing using Gatling and JUnit in Scala• Model-Based Testing using Graph Walker and Java• Testing Android Applications using Appium and JUnit in Java• Testing Android apps using Espresso in Java or Kotlin• Testing iOS applications using Appium and JUnit in Java• Testing REST services and APIs in Java using REST Assured and JUnit	<ul style="list-style-type: none">• Testing using NUnit in C#• Testing using Selenium WebDriver and NUnit in C#• Testing using SpecFlow and Gherkin scenarios in C#• Testing using Specflow and NUnit in C#• Testing using UFT Pro (LeanFT) and NUnit in C#• Testing using xUnit in C#	<ul style="list-style-type: none">• Testing using Google Test in C++	<ul style="list-style-type: none">• Code Quality Analysis with SonarQube• E2E testing web apps locally or in the cloud (Sauce Labs) using Nightwatch.js and WebDriver in JavaScript• E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript• Headless testing web applications using Jest and Puppeteer in JavaScript• Performance and load testing with k6• Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in JavaScript• Testing Node.js apps using Cucumber.js in JavaScript• Testing using CasperJS and PhantomJS in JavaScript• Testing using Cypress and Cucumber in JavaScript• Testing using Jasmine (Node.js) in JavaScript• Testing using Mocha in JavaScript• Testing using WebDriverIO and Cucumber in JavaScript• Testing web and mobile applications using CodeceptJS in JavaScript• Visual Testing using PhantomCSS in JavaScript	<ul style="list-style-type: none">• Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby• Testing using MiniTest in Ruby• Testing using Selenium and RSpec in Ruby	<ul style="list-style-type: none">• Testing using PHPUnit in PHP	<ul style="list-style-type: none">• Model-Based Testing using AltWalker and Python• Testing using Behave in Python• Testing using pytest in Python• Testing using Robot framework and xUnit reports• Testing using Robot Framework integration in Python or Java• Testing using the Robot Framework and xUnit reports	<ul style="list-style-type: none">• Testing using Cucumber in Perl

<ul style="list-style-type: none"> • Testin g using Cucu mber in Java • Testin g using Cucu mber in Ruby /JRuby • Testin g using Robot frame work and xUnit reports • Testin g using Robot Frame work integra tion in Pytho n or Java • Testin g using Seleni um and JUnit4 in Java • Testin g using Seleni um WebD river and Gauge in Java • Testin g using Sereni ty and JUnit in Java • Testin g using Sereni ty BDD and Cucu mber in Java 						
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Examples by testing framework report

blocked URL	TestNG		blocked URL	 Robot framework
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<ul style="list-style-type: none"> • Accessibility testing using Axe-Playwright • Code Quality Analysis with SonarQube • Developing and testing APIs using Postman • E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript • Headless testing web applications using Jest and Puppeteer in JavaScript • Import Execution Results • Import Execution Results - REST • Integrating with Testing Frameworks • Integration with Azure DevOps • Integration with Bamboo • Integration with CircleCI • Integration with Concourse • Integration with GitHub • Integration with GitLab • Integration with Jenkins • Integration with JUnit-based test runners • Integration with TeamCity • Jenkins pipeline integration • Load testing using Gatling and JUnit in Scala • Model-Based Testing using AltWalker and Python • Performance and load testing with Gatling • Performance and load testing with k6 • Performance and load testing with Locust • Taking advantage of JUnit XML reports • Testing Android Applications using Appium and JUnit in Java • Testing Android apps using Espresso in Java or Kotlin • Testing Angular apps using Protractor in JavaScript • Testing APIs using Karate DSL • Testing APIs using Katalon Studio • Testing APIs using Pact-js 	<ul style="list-style-type: none"> • Integrating with Testing Frameworks • Integration with TestNG-based test runners • Taking advantage of TestNG XML reports • Testing using TestNG in Java • Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java • Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java • Using Generic Tests for Automation 	<ul style="list-style-type: none"> • Import Execution Results • Integrating with Testing Frameworks • Integration with NUnit-based test runners • Taking advantage of NUnit XML reports • Testing using NUnit in C# • Testing using Selenium WebDriver and NUnit in C# • Testing using Specflow and NUnit in C# • Testing using UFT Pro (LeanFT) and NUnit in C# • Using Generic Tests for Automation 	<ul style="list-style-type: none"> • Automated Steps Library • Export Cucumber Features • Gherkin (BDD Tests) • Import Execution Results • Import Execution Results - REST • Integrating with Testing Frameworks • Integration with Bamboo • Integration with Cucumber and variants • Integration with GitLab • Integration with Jenkins • Integration with TeamCity • Testing in BDD with Gherkin based frameworks (e.g. Cucumber) • Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby • Testing Node.js apps using Cucumber.js in JavaScript • Testing using Calabash and Xamarin Test Cloud in Ruby • Testing using Cucumber in Java • Testing using Cucumber in Perl • Testing using Cucumber in Ruby/URuby • Testing using Cypress and Cucumber in JavaScript • Testing using Serenity BDD and Cucumber in Java • Testing using SpecFlow and Gherkin scenarios in C# • Testing using WebDriverIO and Cucumber in JavaScript • Testing web applications using Gwen and Selenium 	<ul style="list-style-type: none"> • Import Execution Results - REST • Integrating with Testing Frameworks • Integration with Robot framework • Taking advantage of Robot XML reports • Testing using Robot framework and xUnit reports • Testing using Robot Framework integration in Python or Java • Testing using the Robot Framework and xUnit reports • Using Generic Tests for Automation
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Examples by target environment

Browser/Web testing	Mobile Testing	Testing in the Cloud
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<ul style="list-style-type: none">• E2E testing web apps locally or in the cloud (Sauce Labs) using Nighthwatch.js and WebDriver in Javascript• E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript• Headless testing web applications using Jest and Puppeteer in JavaScript• Testing APIs using Katalon Studio• Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript• Testing using CasperJS and PhantomJS in JavaScript• Testing using Selenium and JUnit4 in Java• Testing using Selenium and RSpec in Ruby• Testing using Selenium WebDriver and Gauge in Java• Testing using Selenium WebDriver and NUnit in C#• Testing using Serenity and JUnit in Java• Testing using Serenity BDD and Cucumber in Java• Testing web applications using Gwen and Selenium• Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java• Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java	<ul style="list-style-type: none">• Testing Android apps using Espresso in Java or Kotlin• Testing iOS apps using XCTest in Swift• Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby• Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript• Testing the UI of iOS apps using XCTest and XCUITest in Swift• Testing using Calabash and Xamarin Test Cloud in Ruby• Testing web and mobile applications using CodeceptJS in JavaScript	<ul style="list-style-type: none">• E2E testing web apps locally or in the cloud (Sauce Labs) using Nighthwatch.js and WebDriver in Javascript• Integration with GitLab• Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby• Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript• Testing using Calabash and Xamarin Test Cloud in Ruby• Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java• Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java
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