
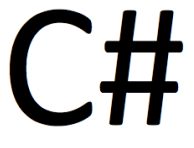






# TTT: Automation

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

					
<ul style="list-style-type: none"> <li>• <a href="#">Load testing using Gatling and JUnit in Scala</a></li> <li>• <a href="#">Testing Android Applications using Appium and JUnit in Java</a></li> <li>• <a href="#">Testing Android apps using Espresso in Java or Kotlin</a></li> <li>• <a href="#">Testing iOS applications using Appium and JUnit in Java</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Testing using NUnit in C#</a></li> <li>• <a href="#">Testing using Selenium (WebDriver) and NUnit in C#</a></li> <li>• <a href="#">Testing using SpecFlow and Cucumber Scenarios in C#</a></li> <li>• <a href="#">Testing using Specflow and NUnit in C#</a></li> <li>• <a href="#">Testing using UFT Pro (LeanFT) and NUnit in C#</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Testing using Google Test in C++</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">E2E testing web apps locally or in the cloud (Sauce Labs) using Nightwatch.js and WebDriver in Javascript</a></li> <li>• <a href="#">E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript</a></li> <li>• <a href="#">Headless testing web applications using Jest and Puppeteer in JavaScript</a></li> <li>• <a href="#">Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript</a></li> <li>• <a href="#">Testing using CasperJS and PhantomJS in JavaScript</a></li> <li>• <a href="#">Testing using Cypress in JavaScript</a></li> <li>• <a href="#">Testing using Jasmine (Node.js) in JavaScript</a></li> <li>• <a href="#">Testing using Mocha in JavaScript</a></li> <li>• <a href="#">Testing web and mobile applications using CodeceptJS in JavaScript</a></li> <li>• <a href="#">Visual Testing using PhantomCSS in JavaScript</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby</a></li> <li>• <a href="#">Testing using Cucumber in Ruby /JRuby</a></li> <li>• <a href="#">Testing using MiniTest in Ruby</a></li> <li>• <a href="#">Testing using Selenium and RSpec in Ruby</a></li> </ul>	

- Testing using cucumber in Java

- Testing using cucumber in Ruby / JRuby

- Testing using Robot framework and xUnit reports

- Testing using Robot Framework integration in Python or Java



- Testing using Selenium and JUnit in Java

- Testing using Selenium WebDriver and Gauge in Java

- Testing using Serenity and JUnit in Java

<ul style="list-style-type: none"> <li>• Testing using Serenity BDD and Cucumber in Java</li> <li>• Testing using TestNG in Java</li> <li>• Testing using the Robot Framework and xUnit reports</li> <li>• Testing using UFT Pro (LeanFT) and JUnit in Java</li> </ul>				
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Examples by testing framework report

	<p>TestNG</p>		
	<ul style="list-style-type: none"> <li>• Integrating with frameworks</li> </ul>	<ul style="list-style-type: none"> <li>• Import Execution Results</li> <li>• Integrating with Testing Frameworks</li> <li>• Integration with NUnit-based test runners</li> <li>• Taking advantage of NUnit XML reports</li> <li>• Testing using NUnit in C#</li> <li>• Testing using Selenium (WebDriver) and NUnit in C#</li> <li>• Testing using Specflow and NUnit in C#</li> <li>• Testing using UFT Pro (LeanFT) and NUnit in C#</li> <li>• Using Generic Tests for Automation</li> </ul>	

- 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
- Integrating with Testing Frameworks
- Integration with Azure DevOps
- Integration with Bamboo
- Integration with CircleCI
- Integration with Concourse
- Integration with GitLab
- Integration with Jenkins
- Integration with JUnit-based test runners
- Integration with TeamCity
- Load testing using Gatling and JUnit in Scala
- 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 Katalon Studio
- Testing infrastructure using Chef InSpec
- Testing iOS applications using Appium and JUnit in Java
- Testing iOS apps using XCTest in Swift
- Testing Salesforce apps using Apex
- Testing the UI of iOS apps using XCTest and XCUITest in Swift
- Testing using CasperJS and PhantomJS in JavaScript
- Testing using Cypress in JavaScript
- Testing using FitNesse and JUnit
- Testing using Google Test in C++
- Testing using Jasmine (Node.js) in JavaScript
- Testing using MiniTest in Ruby
- Testing using Mocha in JavaScript

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- Automated Steps Library
- Export Cucumber Features
- Gherkin (BDD Tests)
- Import Execution Results
- 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. Cucurr
- Testing mobile apps in the cloud (BrowserStack) using Appi Cucumber in Ruby
- Testing using Calabash and Xamarin Test Cloud in Ruby
- Testing using Cucumber in Java
- Testing using Cucumber in Perl
- Testing using Cucumber in Ruby/JRuby
- Testing using Serenity BDD and Cucumber in Java
- Testing using SpecFlow and Cucumber Scenarios in C#
- 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](#)

## Examples by target environment

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