

 免費電子書

學習

cucumber

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1:

Cucumber. "" CucumberCucumber"" Cucumber [RubyJavaJavascript](#) . .

CucumberBDD. BDD. .

Cucumber. . .

CucumberSeleniumPhantomJSWeb. Cucumber.

<https://cucumber.io/docs> . CucumberCucumber

- JavaScript [https //relishapp.com/cucumber/cucumber-js/docs](https://relishapp.com/cucumber/cucumber-js/docs)
- Ruby [https : //relishapp.com/cucumber/cucumber/docs](https://relishapp.com/cucumber/cucumber/docs)

<https://relishapp.com/exploreCucumberCucumber-JVM>.

Cucumber. IDE.

Examples

Cucumber[Gherkin](#).

Cucumber Use Case Scenario. Cucumber .

CucumberFeaturesFeaturesGherkin.

- /
 - withdrawal.feature
 - atm.feature
 - loan.feature
- /
 - portfolio.feature
 - intraday.feature
- /
 - evaluation.feature
 - accounting.feature

FeatureScenarios Scenarios.

```
Feature: Documentation
As a StackOverflow user or visitor
I want to access the documentation section

Scenario: search documentation on Stack Overflow
  Given I am on StackOverflow
  And I go to the Documentation section
  When I search for "cucumber"
  And I follow the link to "cucumber"
```

```
Then I should see documentation for "cucumber"
```

*Given When And ButThen*Step ° °

Tags FeatureScenarioFeature °

JavaRubyScalaC / C ++StepStep Definitions *StepDef* °

StepStep Definition °

FeatureScenarioStepDefStepS Scenario °

Ruby

CucumberRuby

```
gem install cucumber
```

bundlerGemfile

```
gem 'cucumber'
```

bundler

```
bundle install
```

[° ° °]

RubyCucumber

features / step_definitions / documentation.rb

```
When /^I go to the "(^")+" documentation$/ do |section|
  path_part =
    case section
    when "Documentation"
      "documentation"
    else
      raise "Unknown documentation section: #{section}"
    end
  visit "/documentation/#{path_part}/topics"
end

Then /^I should see the "(^")+" documentation"/ do |section|
  expect(page).to have_css('h2.doctag_title a', text: section)
end
```

Web ° °

GherkinCucumber ° ° °

When "URL" Real Cucumber visit Capybara CapybaraCucumber visit CapybaraURL

Then expect / toRSpec have_css have_css CSS

"

<https://riptutorial.com/zh-TW/cucumber/topic/4875/>

2: maven_ cucumberpom.xml

pom.xml maven

Examples

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

4.0.0

```
<groupId>Project name</groupId>
<artifactId>MulitClients</artifactId>
<version>1.0-SNAPSHOT</version>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.11</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>info.cukes</groupId>
    <artifactId>cucumber-core</artifactId>
    <version>1.2.0</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>info.cukes</groupId>
    <artifactId>cucumber-testng</artifactId>
    <version>1.2.0</version>
  </dependency>
  <dependency>
    <groupId>info.cukes</groupId>
    <artifactId>cucumber-junit</artifactId>
    <version>1.2.0</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>info.cukes</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>1.2.0</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>info.cukes</groupId>
    <artifactId>gherkin</artifactId>
    <version>2.12.2</version>
    <scope>test</scope>
  </dependency>
</dependencies>
```



```
<groupId>org.seleniumhq.selenium</groupId>
<artifactId>selenium-java</artifactId>
<version>2.53.0</version>
<scope>test</scope>
</dependency>
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-firefox-driver</artifactId>
  <version>2.53.0</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-htmlunit-driver</artifactId>
  <version>2.53.0</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.yaml</groupId>
  <artifactId>snakeyaml</artifactId>
  <version>1.13</version>
</dependency>
<dependency>
  <groupId>com.esotericsoftware.yamlbeans</groupId>
  <artifactId>yamlbeans</artifactId>
  <version>1.06</version>
</dependency>
</dependencies>
```

[maven_cucumberpom.xml](https://riptutorial.com/zh-TW/cucumber/topic/8331/maven--cucumberpom-xml-) <https://riptutorial.com/zh-TW/cucumber/topic/8331/maven--cucumberpom-xml->

3: IntelliJ

IntelliJ IDEACucumberIDECucumberIntelliJGherkin。 JavaScalaGroovy。

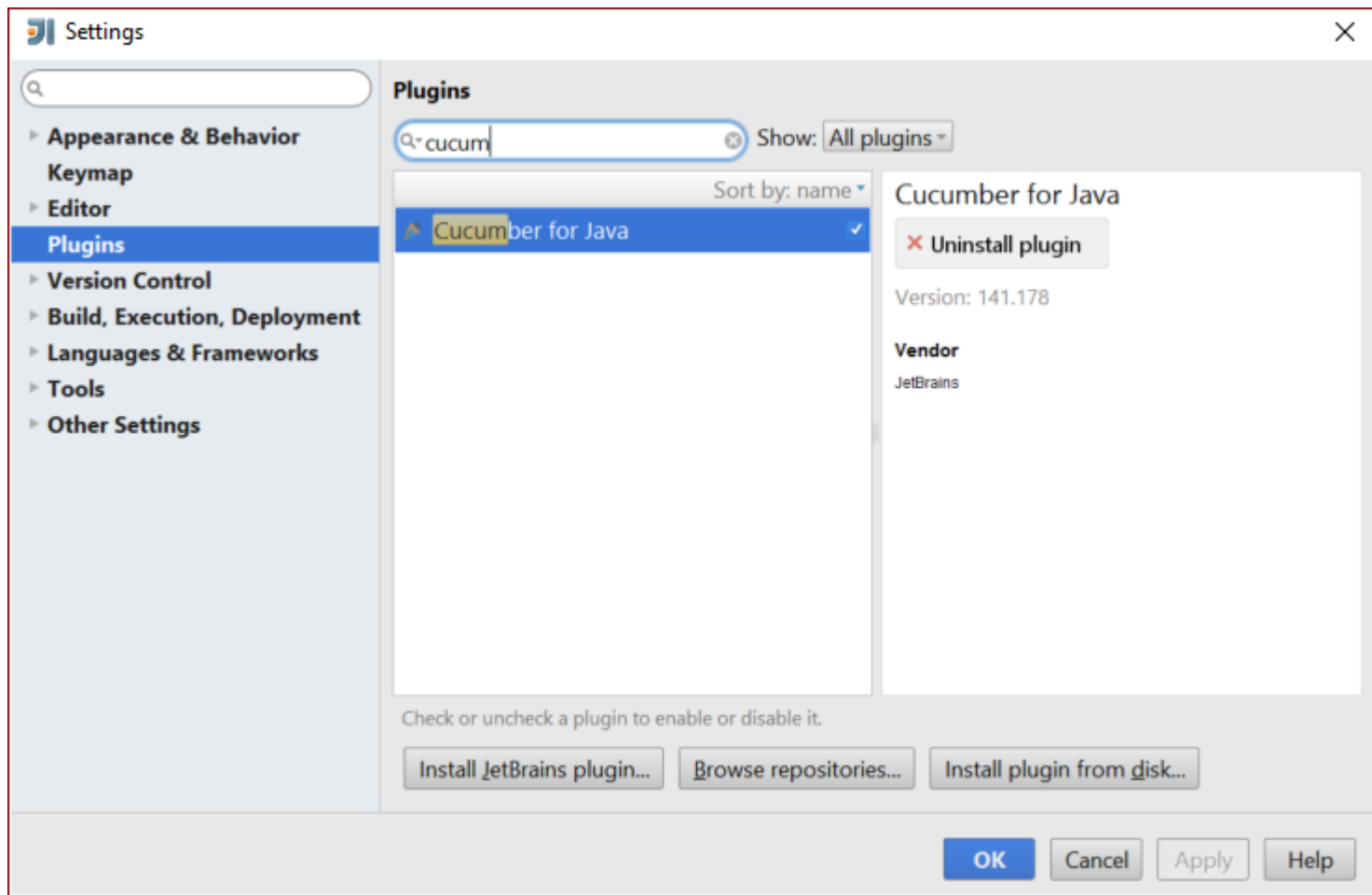
Cucumber for Java IntelliJIDECucumber

- Gherkin
- Gherkin
-
- Gherkin“.feature”

Examples

Cucumber

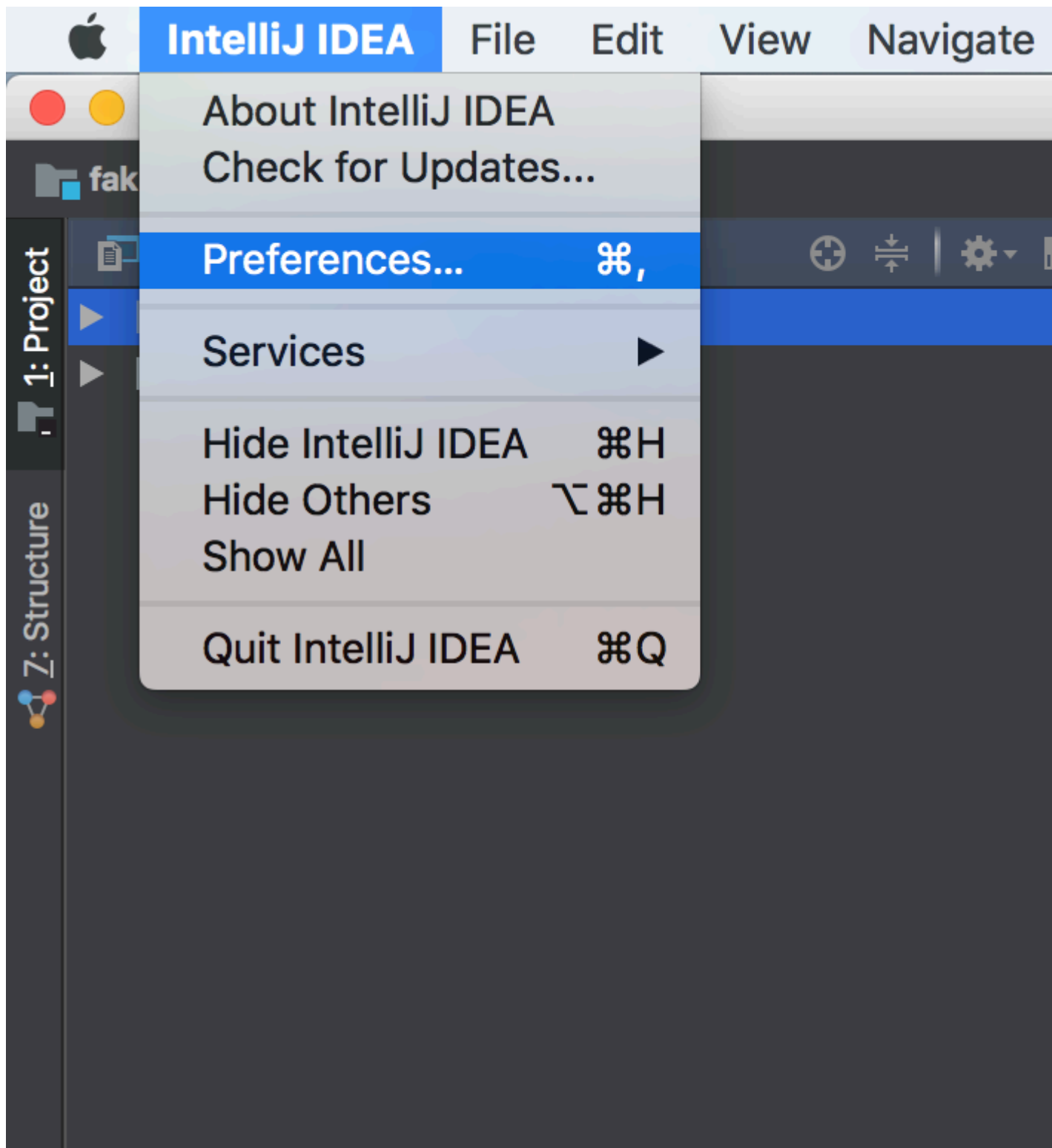
- > - > - > - >



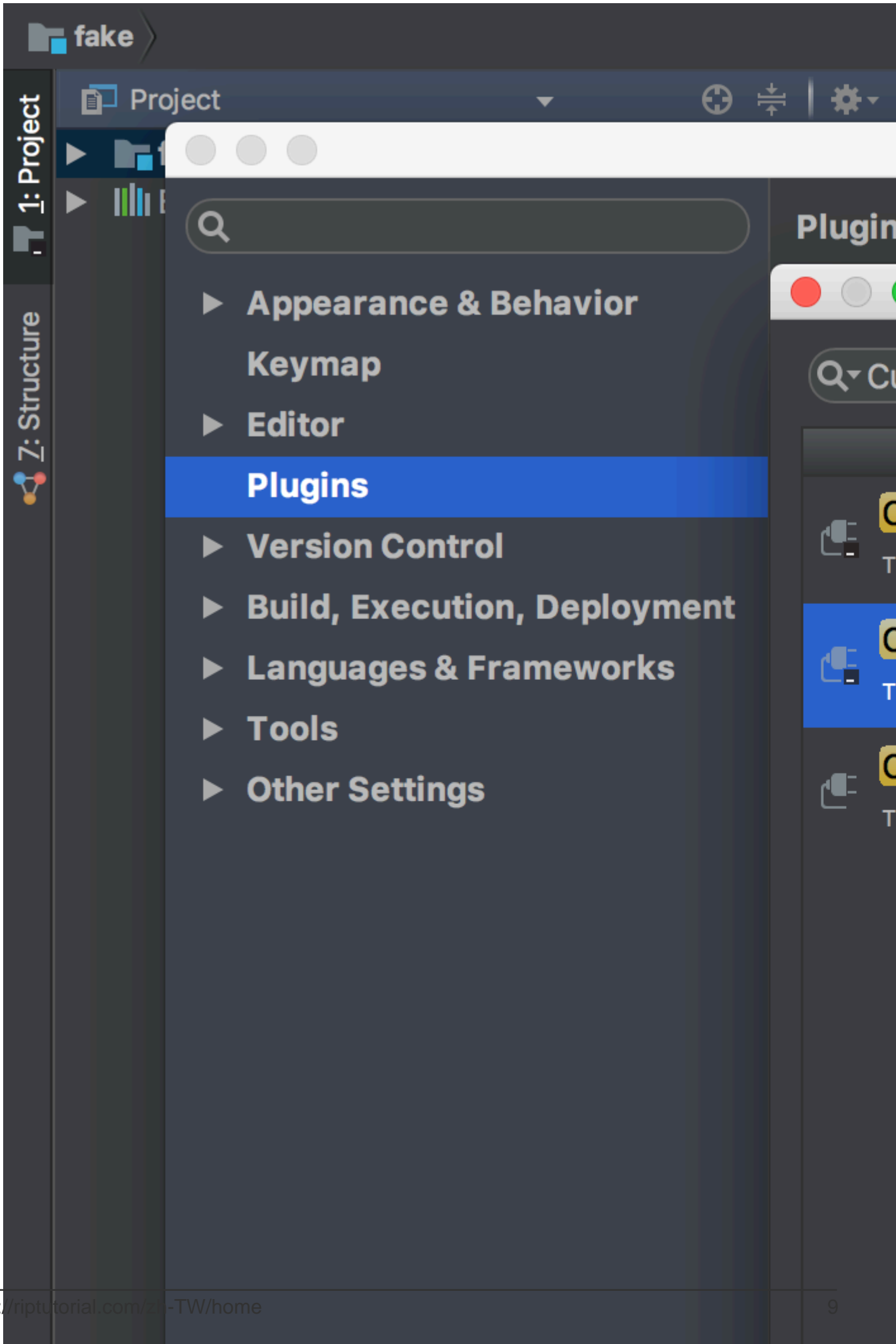
IntelliJ Cucumber for JavaMac

MacIntelliJCucumber for Java

1. IntelliJ IDEA。
2. “IntelliJ IDEA”。



3. “”。
4. “/””。
5. “”。
6. “Cucumber”。



7. “Cucumber for Java”。
8. IDE。 Cucumber for Java。



IntelliJ IDEA

File

Edit

View

Navigate

fake

1: Project

7: Structure



▶ Appearance & Behavior

Keymap

▶ Editor

Plugins

▶ Version Control

▼ Build, Execution, Deployment

▶ Build Tools

▼ Compiler

Excludes

Java Compiler

Annotation Processors

Validation

RMI Compiler

Groovy Compiler

Android Compilers

Kotlin Compiler

▶ Debugger

Coverage

Plugin



.i

A

A

B

B

C

C

C

C

C

E

E

4:

Gherkin. Cucumber.

- ◦
- ◦
- ◦
- N.
- ◦
- ◦ “”.
- whenthiswhen. “”.
- ◦ ArrangeActAssert“”.
- ◦ “AB”.

Examples

GherkinCucumber. ◦

- ◦
- ◦
- ◦ “”.
- when. “”.
- ◦ ArrangeActAssert“”.
- ◦ “AB”.
- **Given WhenThen. AB.**

Gherkin. FeatureScenario. ◦

◦ ◦ ◦

```
Feature: Product Login
  As a user, I would like to be able to use my credentials to successfully
  login.

  Rules:
  - The user must have a valid username
  - The user must have a valid password
  - The user must have an active subscription
  - User is locked out after 3 invalid attempts
  - User will get a generic error message following
    login attempt with invalid credentials

  Scenario: The user successfully logs in with valid credentials
    This scenario tests that a user is able to successfully login
    provided they enter a valid username, valid password, and
    currently have an active subscription on their account.

    Given the user is on the login page
```

```
When the user signs in with valid credentials
Then the user should be logged in
```

Gherkin ◦ ◦ “CucumberExceptionArity mismatch”as◦

Feature: Product Login

As a user, I would like to be able to use my credentials to successfully login.

Rules:

- The user must have a valid username
- The user must have a valid password
- The user must have an active subscription
- User is locked out after 3 invalid attempts
- User will get a generic error message following login attempt with invalid credentials

Scenario: The user successfully logs in with valid credentials

This scenario tests that a user is able to successfully login provided they enter a valid username, valid password, and currently have an active subscription on their account.

Given the user is on the login page

When the user signs in with "valid" credentials

Then the user should be logged in

Scenario: The user attempts to log in with invalid credentials

This scenario tests that a user is not able to log in when they enter invalid credentials

Given the user is on the login page

When the user signs in with "invalid" credentials

Then the user should be logged in

Scenario: The user is locked out after too many failed attempts

This scenario validates that the user is locked out of their account after failing three consecutive attempts to log in

Given the user is on the login page

When the user fails to log in 3 times

Then the user should be locked out of their account

Given the user is on the login page

◦ Gherkin ◦

background◦ ◦ ◦ ◦

Feature: Product Login

As a user, I would like to be able to use my credentials to successfully login.

Rules:

- The user must have a valid username
- The user must have a valid password
- The user must have an active subscription

- User is locked out after 3 invalid attempts
- User will get a generic error message following login attempt with invalid credentials

Background: The user starts out on the login page
Given the user is on the login page

Scenario: The user successfully logs in with valid credentials
This scenario tests that a user is able to successfully login provided they enter a valid username, valid password, and currently have an active subscription on their account.

When the user signs in with "valid" credentials
Then the user should be logged in

Scenario: The user attempts to log in with invalid credentials
This scenario tests that a user is not able to log in when they enter invalid credentials

When the user signs in with "invalid" credentials
Then the user should be logged in

Scenario: The user is locked out after too many failed attempts
This scenario validates that the user is locked out of their account after failing three consecutive attempts to log in

When the user fails to log in 3 times
Then the user should be locked out of their account

◦ **Gherkin Scenario Outline Example** : . Scenario OutlineCucumber. Examples. ◦ ◦ ◦

Feature: Product Login

As a user, I would like to be able to use my credentials to successfully login.

Rules:

- The user must have a valid username
- The user must have a valid password
- The user must have an active subscription
- User is locked out after 3 invalid attempts
- User will get a generic error message following login attempt with invalid credentials

Background: The user starts out on the login page
Given the user is on the login page

Scenario Outline: The user successfully logs in with their account
This scenario outlines tests in which various users attempt to sign in successfully

When the user enters their <username>
And the user enters their <password>
Then the user should be successfully logged on

Examples:

username	password
frank	1234
jack	4321

◦ ◦ GherkinTags ◦ Feature"@Automation" ◦ Gherkin"@". QA.

@Production ◦ ◦ ◦ ◦

Scenario Outline@Staging ◦ ◦ @ProductionStaging

◦ ◦

```
@Automation
```

```
Feature: Product Login
```

```
As a user, I would like to be able to use my credentials to successfully login.
```

```
Rules:
```

- The user must have a valid username
- The user must have a valid password
- The user must have an active subscription
- User is locked out after 3 invalid attempts
- User will get a generic error message following login attempt with invalid credentials

```
Background: The user starts out on the login page
```

```
Given the user is on the login page
```

```
Scenario: The user successfully logs in with valid credentials
```

```
This scenario tests that a user is able to successfully login provided they enter a valid username, valid password, and currently have an active subscription on their account.
```

```
When the user signs in with "valid" credentials
```

```
Then the user should be logged in
```

```
Scenario: The user attempts to log in with invalid credentials
```

```
This scenario tests that a user is not able to log in when they enter invalid credentials
```

```
When the user signs in with "invalid" credentials
```

```
Then the user should be logged in
```

```
@Production
```

```
Scenario: The user is locked out after too many failed attempts
```

```
This scenario validates that the user is locked out of their account after failing three consecutive attempts to log in
```

```
When the fails to log in 3 times
```

```
Then the user should be locked out of their account
```

```
@Staging
```

```
Scenario Outline: The user successfully logs in with their account
```

```
This scenario outlines tests in which various users attempt to sign in successfully
```

```
When the user enters their <username>
```

```
And the user enters their <password>
```

```
Then the user should be successfully logged on
```

```
Examples:
```

```
| username | password |
```

```
| frank | 1234 |  
| jack | 4321 |
```

-
-
-
-
-
-
-
-
-
-
- Then“should”

<https://riptutorial.com/zh-TW/cucumber/topic/9296/>

5:

Cucumber。 Cucumber API。

Examples

Ruby

features / step_definitions / documentation.rb

```
When /^I go to the "([^"]+)" documentation$/ do |section|
  path_part =
    case section
    when "Documentation"
      "documentation"
    else
      raise "Unknown documentation section: #{section}"
    end
  visit "/documentation/#{path_part}/topics"
end

Then /^I should see the "([^"]+)" documentation"/ do |section|
  expect(page).to have_css('h2.doctag_title a', text: section)
end
```

Web。 。

GherkinCucumber。 。

When ""URL。 Real Cucumber。 visitCapybara。 CapybaraCucumber。 visitCapybaraURL。

Then。 expect / toRSpec。 have_csshave_css。 CSS。 。

<https://riptutorial.com/zh-TW/cucumber/topic/5681/>

6:

QTP Selenium

Gherkin .feature Gherkin .

Examples

features / documentation.feature

```
Feature: Documentation

  Scenario: User views documentation
    When I go to the "Cucumber" documentation
    Then I should see the "Cucumber" documentation
```

FeatureScenario When ThenGherkin .

```
Scenario Outline: As a homemaker i want to buy and pay for the below product
  Given I purchase <a product>
  And I require a carry bag to take things to home
  When I pay bill using <payment method> to successfully checkout
  Then I should have a receipt
```

Examples:

a product	payment method	
Cake	Visa	
Coke	Paypal	

```
Feature: Some terse yet descriptive text of what is desired
  Textual description of the business value of this feature
  Business rules that govern the scope of the feature
  Any additional information that will make the feature easier to understand
```

Background:

```
  Given some precondition needed for all scenarios in this file
  And another precondition
```

Scenario: Some determinable business situation

```
  Textual description of the business value of this scenario
  Business rules that govern the scope of the scenario
  Any additional information that will make the scenario easier to understand
  Given some precondition
  And some other precondition
  When some action by the actor
  And some other action
  And yet another action
  Then some testable outcome is achieved
  And something else we can check happens too
  But something else we can check does not happen
```

Scenario Outline: Some determinable business situation

Given I am <precondition>

And some other precondition

When some action by the actor

Then I have <outcome> rights

Examples:

precondition	outcome	
username1	customer	
username2	admin	

- Feature: | Ability: | Business Need:
- Scenario Outline: | Scenario Template:
- Examples: | Scenarios:
- Given | When | Then | And | But | * |

<https://riptutorial.com/zh-TW/cucumber/topic/6023/>

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