

Cucumber

Components

- Feature files
- Step definitions
- · Support files

Directory Structure

The folder structure follows the same format:

```
| features
|N- step_definitions
|N- todo_item_steps.rb
|N- support
|N- factory_girl.rb
|- user_creates_todo.feature
|- user_completes_todo.feature
```

Features

Components

- Feature name and description
- Background (optional)
- Scenarios

Format

Features follow a simple format:

```
Feature: [Topic]
  In order to [goal]
  As a [user role]
  I should be able to [action]
```

Scenarios

Components

- Given (places system in a specific state)
- · When (describes the action being taken)
- · Then (performs assertions against the outcome)

```
Scenario: Complete a todo
Given I have signed in as "john@example.com"
And I have a todo "Pick Up the Milk" due today
When I complete the todo "Pick Up the Milk"
Then all my todos should be complete
```

Steps

Components

A step consists of the step type (Given, When, or Then), a string or regular expression, and a block of Ruby code to be run for that step.

```
Given /^I have signed in as "([^"]*)"$/ do |email|
  visit sign_in_path
  fill_in "Email", with: email
  click_button "Sign In"
  end

When "I create a todo without a title" do
  visit new_todo_path
  click_button "Create Todo"
  end

Then %{I should see an error} do
    page.should have_css("form.errors", text: "Title must be present")
  end
```

Cucumber Cheatsheet

Support

Components

Support files provide developers a way to extend Cucumber's functionality by providing an area to require third-party libraries and add methods available to each step definition.

```
# features/support/factory_girl.rb
require "factory_girl/step_definitions"

# features/support/global_user.rb
module GlobalUser
    def current_user=(new_user)
        @current_user = new_user
    end

def current_user
    end
end

World(GlobalUser)

# features/step_definitions/user_steps.rb
Given %{I am operating as "$email"} do |email|
    self.current_user = User.find_by_email!(email)
end
```