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“Cucumber is **behavior driven development**
with elegance and joy.”

★★★★★ - *The Cucumber Web Site*

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software

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Facilitates BDD

- Acceptance Test Driven Development (**ATDD**)
- TDD at the **feature** Level
- Includes the **entire** development team!

Cucumber is a tool that
executes plain-text functional
descriptions as automated tests.

Gherkin



Gherkin in Action

Feature: Providing contrived examples

In order for my audience to understand Cucumber
As a presenter
I want to show examples

Scenario: A basic Gherkin example

Given I am running the slideshow
And I am on the Gherkin slide
When I advance to the next slide
Then I should see the audience cheer

Feature

Feature: Providing contrived examples

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Scenario

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Given:

defines precondition to a scenario

“given I am logged in”



“given I have completed the registration process”

When:

the user action being performed

“when I click the submit button”



“when I leave the page”

Then:

the observable expected outcome

“then I should see a success message”



“then the section collapses”

Conjunctions

Scenario: A basic Gherkin example

```
Given I am running the slideshow
And I am on the Gherkin slide
When I advance to the next slide
Then I should see the audience cheer
But I should not see them leave the room
```

And

But

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But how does it execute?

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Step Definitions



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```
Given I am running the slideshow
And I am on the Gherkin slide
When I advance to the next slide
Then I should see the audience cheer
But I should not see them leave the room
```



(regular expression)

```
/I am on the (\w+) slide/
```



(step definition)

```
@browser.goto 'http://blah'
```



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User Interaction

- Watir
- Selenium
- Web-Driver

Step Definition Example

```
When /^I select "([^"]*)" from "([^"]*)"$/ do |value, id|
  @browser.select_list(:id, id).select(value)
end

When /^I choose "([^"]*)"$/ do |id|
  @browser.radio(:id, id).click
end

When /^I check "([^"]*)"$/ do |id|
  @browser.checkbox(:id, id).click
end

When /^I uncheck "([^"]*)"$/ do |id|
  @browser.checkbox(id).clear
end
```

Scenario Outlines

Tables

Scenario:

```
Given I am on the login page
And I fill in "username" with "<username>"
And I fill in "password" with "<password>"
When I press "submit"
Then I should see "you are logged in!"
```

Examples:

username	password
boythatisgraduating	holdingachainsaw
boyholdingpikachu	pokeman

Lists

Scenario Outline:

Given I am a logged in user

Then I should see the following links:

links	
Logout	
Change my password	

Tags

Tagging

- Scenarios can be tagged so that we can run groups of scenarios
- Prefaced with an “@” and are placed before the “Scenario:” line
- Scenarios can have multiple tags

```
cucumber --tags @I_2 @wip
```

Best Practices

Structure Leniency

```
Feature: Logging in  
  In order to <value>-  
  As a <role>  
  I want <feature>|
```

Remove Wordiness

```
Given I am able to log in
```

```
Then I should be able to see "you are logged in!"
```

Compound Steps

```
Given I am on the login page
And I fill in "username" with "boythatisgraduating"
And I fill in "password" with "holdingachainsaw"
When I press "submit"
Then I should be able to see "you are logged in!"
```



```
Given I am logged in
When I press "submit"
Then I should be able to see "you are logged in!"
```

No Conjunctives

```
And I fill in "this" and I fill in "that"
```



```
And I fill in "this"
And I fill in "that"
```

Credits

- Shoe:

http://ecx.images-amazon.com/images/I/91QIKjZEplL._SL1500_.jpg

- Gerkin Jar

http://www.thebigworld.co.uk/blogimage/pickled_gherkins_in_glass_jars.jpg