

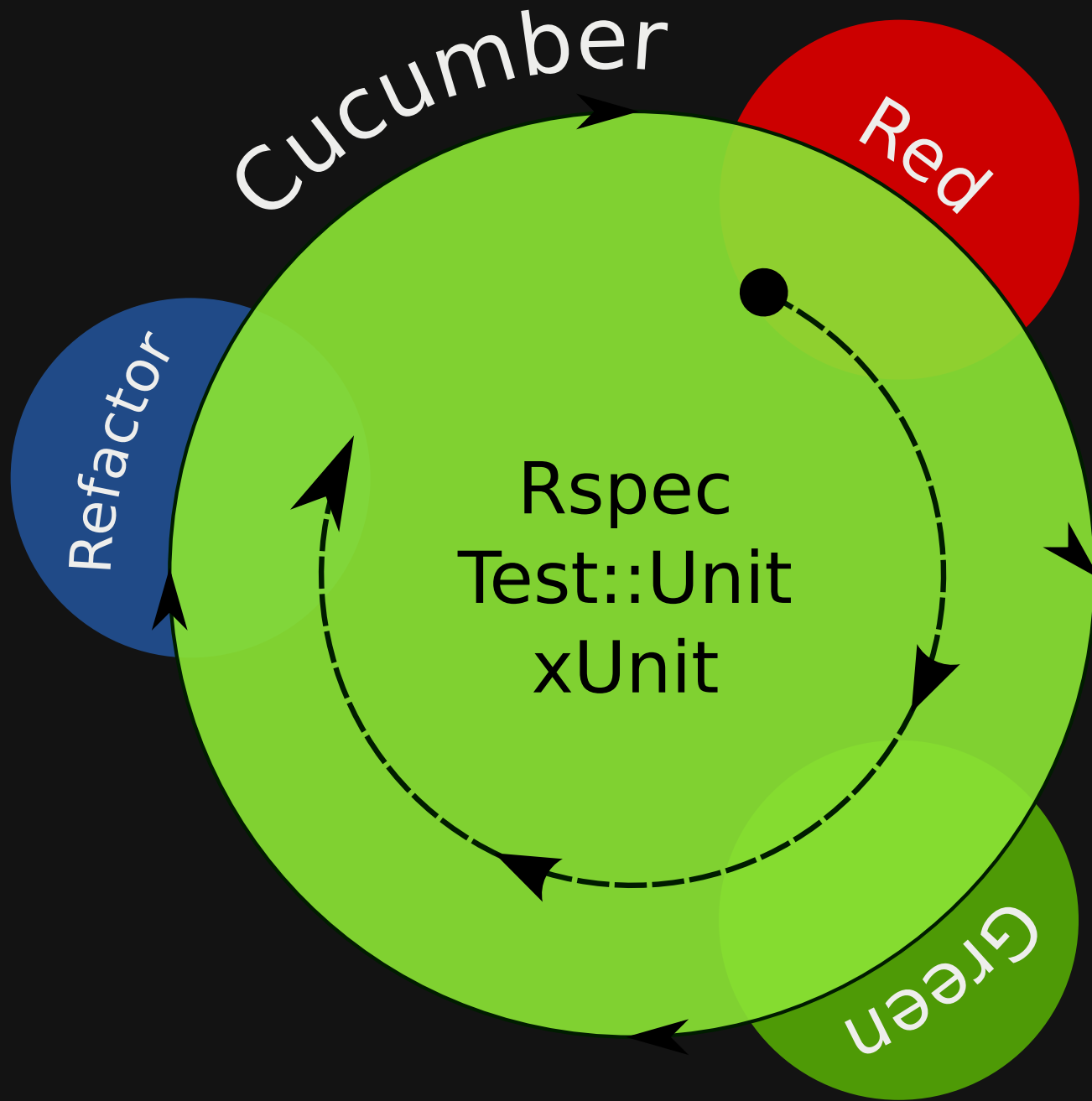
# Cucumber

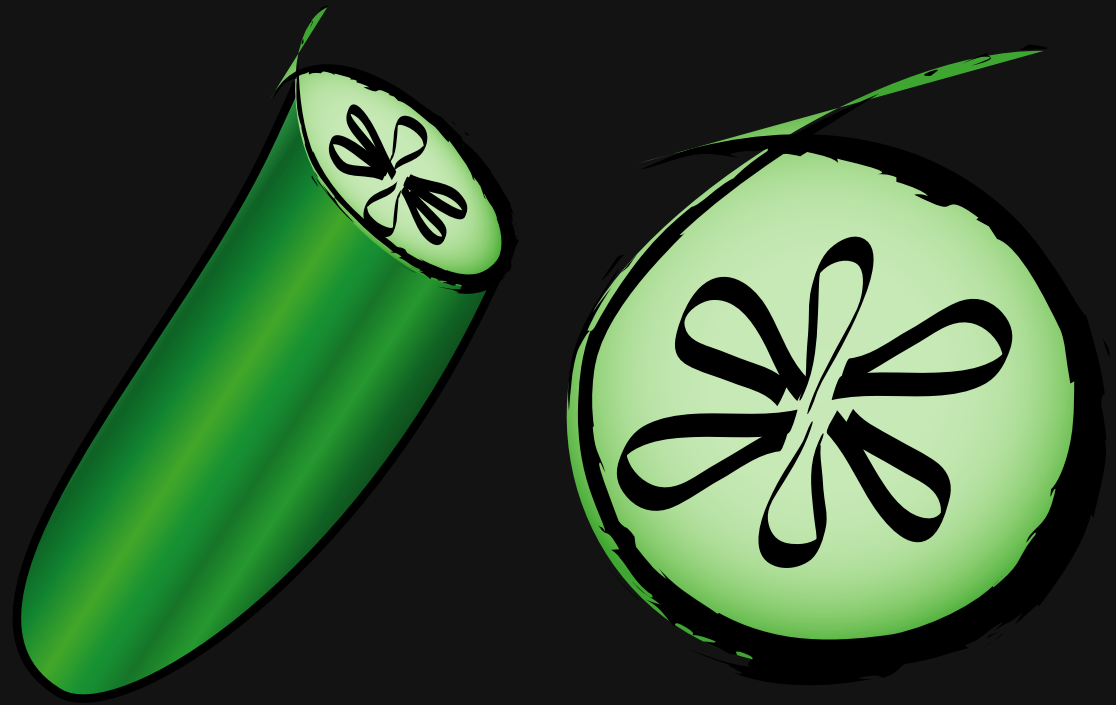
[ʒogure:ц]

Cucumber - это инструмент, для BDD.

Cucumber предоставляет язык на котором могут говорить заказчик и команда разработчиков.

Cucumber - это инструмент, который умеет запускать текстовые файлы с описанием функционала как автоматические тесты.





Анатомия



/usr/bin/cucumber

# Cucumber

```
#!/usr/bin/cucumber
```

Feature:

In order to write better software

Developer

Wants execute requirements as tests

Scenario: Run single scenario

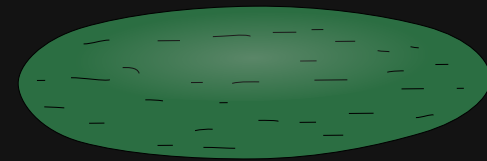
When I run cucumber -q features/sample.feature:5

Then it should pass with

```
When /^I run (.*)$/ do |command|  
  system(command)  
end
```

## Gherkin

[корнишо:н]



## Step Definitions

Ruby, JavaScript, Java,  
Lua, C# and more..

features/\*.feature

features/support/\*.rb

features/step\_definitions/\*\_steps.rb

```
features/  
|-- subscriptions.feature  
|-- renting_device.feature  
|-- step_definitions  
|   |-- browsers_steps.rb  
|   |-- email_steps.rb  
|   |-- renting_device_steps.rb  
|   |-- subscription_steps.rb  
|   |-- validation_steps.rb  
|   `-- web_steps.rb  
`-- support  
    |-- env.rb  
    `-- paths.rb
```

# Gherkin

DSL для бизнес аналитиков  
и программистов

для документации  
и автоматического тестирования

Feature  
Background  
Scenario  
Scenario Outline  
Scenarios (or Examples)  
Given  
When  
Then  
And (or But)

Функционал (или Фича)  
Предыстория  
Сценарий  
Структура сценария  
Значения  
Допустим  
Если  
То  
И (или Но)



Длинные строки



Таблицы



Комментарии



Features  
Scenarios



\*.feature

Steps



\*\_steps.rb

Написание фичи начинается  
с User Story  
(зачастую неформализированной)

## The Connextra Format

As a <role>  
I want <feature>  
So that <business value>

Mike Cohn's User Stories Applied

## **Feature:** Managing users

As an administrator

I want to manage the set of users

In order to allow others to edit content and design assets

Сценарии помогают  
формализировать User Story

**Scenario:** Create new user

**Given** I am on the dashbord page

**And** I follow "New User"

**When** I fill in "Name" with "New Guy"

**And** I fill in "E-mail" with "newguy@example.com"

**And** I fill in "Username" with "new\_guy"

**And** I fill in "New Password" with "password"

**And** I fill in "Confirm New Password" with "password"

**And** I press "Create User"

**Then** I should be on the users list

**And** I should see "New Guy"

# Given

Допустим

# When

Если

# Then

То

## **Scenario:** Listing Users

**Given** following users exists:

login	full name	email
alex	Alexander Naumenko	alex@google.com
antono	Antono Vasiljev	mi@antono.info

**When** I visit users page

**Then** I should see following table:

full name	email
Alexander Naumenko	alex@google.com
Antono Vasiljev	mi@antono.info



# Step Definitions

[определения шагов]

```
Given /regexp/ do |*groups|  
  # block...  
end
```

```
When /regexp/ do |*groups|  
  # block...  
end
```

```
Then /regexp/ do |*groups|  
  # block...  
end
```

```
Given /^I run (.*)$/ do |command|  
    system(command)  
end
```

## **Scenario:** Create new user

- \* I am on the dashbord page
- \* I follow "New User"
- \* I fill in "Name" with "New Guy"
- \* I fill in "E-mail" with "newguy@example.com"
- \* I fill in "Username" with "new\_guy"
- \* I fill in "New Password" with "password"
- \* I fill in "Confirm New Password" with "password"
- \* I press "Create User"
- \* I should be on the users list
- \* I should see "New Guy"

# Imperative vs Declarative

**Scenario:** Create new user

**Given** I am on the dashbord page

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**And** I fill in "Username" with "new\_guy"

**And** I fill in "New Password" with "password"

**And** I fill in "Confirm New Password" with "password"

**And** I press "Create User"

**Then** I should be on the users list

**And** I should see "New Guy"

**Scenario:** Create new user

**Given** I fill in valid credentials for user

| login | antono |

| password | secret |

**When** I press "Create User"

**Then** I should see new user profile

```
Given /^I signed in$/ do
  Given "I am on the home page"
  And "I follow register"
  And "I fill in \"Login\" with \"antono\""
  And "I fill in \"Password\" with \"secret\""
  And "I press \"Log In\" button"
end
```



```
Given /^I signed in as "([^"]*)"$/ do |user|
  steps %Q{
    Given I am on the home page
    And I follow register
    And I fill in "Login" with "#{user}"
    And I fill in "Password" with "secret"
    And I press "Log In" button
  }
end
```

# Cucumber World

World  
is  
Object

```
features/support/world.rb,
```

```
module AnnoyingOrange  
  def hey_marrow  
    ...  
  end  
end  
World(AnnoyingOrange)
```

# Capybara

[морская сви:нка]

World(Capybara)

Саpубага это DSL,  
унифицирующий тестирование  
веб страниц через различные прослойки

Rack Test  
Selenium  
Culeriby  
Celerity

```
click_link('id-of-link')
click_link('Link Text')
click_button('Save')
click('Link Text') # Click either a link or a button
click('Button Value')
fill_in('First Name', :with => 'John')
fill_in('Password', :with => 'Seekrit')
fill_in('Description', :with => 'Really Long Text...')
choose('A Radio Button')
check('A Checkbox')
uncheck('A Checkbox')
attach_file('Image', '/path/to/image.jpg')
select('Option', :from => 'Select Box')
```

# Вопросы