

Executable Documentation

Exploring the Spec in RSpec

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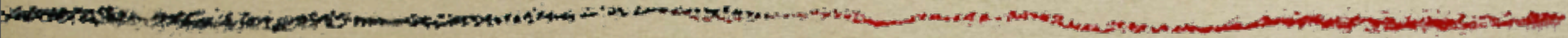
Traditional Documentation

- *Decoupled from the software it documents*
- *Expensive and error prone change management process*
- *Can lose value over time as momentum to maintain it decreases*

Executable Documentation

- *Documentation that generates tests*
- *Programmatically bound to the software it documents*
- *Changes to documentation and software happen in parallel*
 - *or at least in close proximity*

Tools / Audience



Project Stakeholders



FIT

- *Framework for Integrated Test*
 - *Ward Cunningham*

result.htm - Microsoft Word

File Edit View Insert Format Tools **Table** Window Documents To Go Help

77% Recount

1 2 3 4 5

Basic Employee Compensation

For each week, hourly employees are paid a standard wage per hour for the first 40 hours worked, 1.5 times their wage for each hour after the first 40 hours, and 2 times their wage for each hour worked on Sundays and holidays.

Here are some typical examples of this:

<u>Payroll.Fixtures.WeeklyCompensation</u>			
<u>StandardHours</u>	<u>HolidayHours</u>	Wage	Pay()
40	0	20	\$800
45	0	20	\$950
48	8	20	\$1360 <i>expected</i>
			\$1040 <i>actual</i>

Page 1 Sec 1 1/1 At 1" Ln 1 Col 1 REC TRK EXT OVR E

<http://fit.c2.com>

FitNesse

- *FIT in a browser*
 - *+ built-in web server*
 - *+ built-in wiki*
- *by Robert and Micah Martin*

AN EXAMPLE FITNESSE TEST

If you were testing the division function of a calculator application working. You might want to see what you get back if you ask it to (for a 5!)

In [FitNesse](#), tests are expressed as tables of **input** data and **expected** results. Here we specify a few division tests in [FitNesse](#):

eg.Division		
numerator	denominator	quotient?
10	2	5.0
12.6	3	4.2
22	7	~=3.14
9	3	<5
11	2	4<_<6
100	4	33

<http://fitnesse.org>

|eg.Division|

|numerator|denominator|quotient?|

|10|2|5.0|

|12.6|3|4.2|

|22|7| ≈ 3.14 |

|9|3|<5|

|11|2| $4 < _ < 6$ |

|100|4|33|

<http://fitnessse.org>

eg.Division		
numerator	denominator	quotient?
10	2	5.0
12.6	3	4.2
22	7	3.142857142857143~=3.14
9	3	3.0<5
11	2	4<5.5<6
100	4	[25.0] expected [33]

<http://fitnessse.org>

JBehave

- *The original Behaviour Driven Development Framework*
 - *by Dan North*


```
Given I am not logged in  
When I log in as Liz with a password JBehaver  
Then I should see a message, "Welcome, Liz!"
```

<http://jbehave.org/>


```
public class LoginSteps extends Steps {  
  
    // Some code to set up our browser and pages  
    // ...  
  
    @Given("I am not logged in")  
    public void logOut() {  
        currentPage.click("logout");  
    }  
  
    @When("I log in as $username with a password $password")  
    public void logIn(String username, String password) {  
        currentPage.click("login");  
    }  
  
    @Then("I should see a message, \"$message\"")  
    public void checkMessage(String message) {  
        ensureThat(currentPage, containsMessage(message));  
    }  
}
```

<http://jbehave.org/>

RBehave

RSpec Story Runner

Cucumber

RBehave

- *Dan North's Port of JBehave*
 - *used RSpec to develop*

RSpec Story Runner

- *Merged RBehave into RSpec*
- *Added Plain Text Story capability*

AMSA PharmFree Scorecard 2008

- Scorecard
- About
- Methodology
- Executive Summary
- Latest News

Conflict of Interest Policies at Academic Medical Centers

SHOWING: All

SHOW ALL

SEARCH: State

City

GO!



Compare Institutions Select the institutions below and click "Go" to compare. GO!		Grade	Gifts/Industry Relationships				Samples	Purchasing	Access	Education				Comments
			Gifts	Consulting	Speaking	Disclosure				On Campus	Off Campus	Industry Support	Curriculum	
<input type="checkbox"/>	University of Pittsburgh Medical Center Pittsburgh, PA	A	●	●	●	◐	●	●	◐	●	●	●	◐	Exemplary. University of ... Learn More
<input type="checkbox"/>	Mount Sinai School of Medicine New York, NY	A	●	●	◐	◐	●	●	◐	◐	●	●	◐	A complete ban on ... Learn More
<input type="checkbox"/>	University of California Davis School of Medicine Sacramento, CA	A	●	◐	◐	◐	●	●	◐	●	●	●	●	An exemplary conflict-of-interest ... Learn More
<input type="checkbox"/>	University of Texas Medical Branch at Galveston Galveston, TX	A	●	●	◐	◐	●	●	◐	◐	●	●	◐	This institution has ... Learn More

Story: system generates letter grade

As an assessor

I want the system to generate a letter grade for me
So I don't have to get the math right every time

Scores for domains with subdomains are calculated as the average of the best three subdomain scores.

The Enforcement domain is not incorporated into the final score.

Final score is calculated as the total cumulative score for all domains (excluding Enforcement) divided by total possible score x 100.

(Total possible score = 15, unless a domain is classified as N/A.)

Grades are assigned as follows:

A \geq 85%

B \geq 70%

C \geq 60%

D \geq 40%

F $<$ 40%

Scenario: all zeros

When I enter **0** for **Gifts**

When I enter **0** for **Consulting relationships**

When I enter **0** for **Industry-funded speaking relationships**

When I enter **0** for **Disclosure**

When I enter **0** for **Pharmaceutical samples**

When I enter **0** for **Purchasing & Formularies**

When I enter **0** for **Site Access**

When I enter **0** for **On-campus Continuing Medical Education**

When I enter **0** for **Attendance at Industry-Sponsored Lectures & Meetings Off-Campus**

When I enter **0** for **Industry Support for Scholarships & Funds for Trainees**

When I enter **0** for **Medical school curriculum**

When I enter **0** for **Enforcement**

When I submit the **scores**

Then the **letter** grade for **Central Hospital** should be **F**

Then the **numeric** grade for **Central Hospital** should be **0**


```
Then(/the (letter|numeric) grade for (.*) should be (.*)/) do
  |grade_type, institution_name, grade|
  institution = get_ivar("institution", institution_name)
  case grade_type
  when "letter"
    institution.letter_grade.should == grade
  when "numeric"
    institution.numeric_grade.should be_close(grade.to_f, 0.01)
  end
end
```


Scenario: 2/0/0/0 for Gifts and individual ... (avg to 0.67)

When I enter **2** for **Gifts**

When I enter **0** for **Consulting relationships**

When I enter **0** for **Industry-funded speaking relationships**

When I enter **0** for **Disclosure**

When I enter **3** for **Pharmaceutical samples**

When I enter **3** for **Purchasing & Formularies**

When I enter **3** for **Site Access**

When I enter **3** for **On-campus Continuing Medical Education**

When I enter **3** for **Attendance at Industry-Sponsored Lectures & Meetings Off-Campus**

When I enter **3** for **Industry Support for Scholarships & Funds for Trainees**

When I enter **0** for **Medical school curriculum**

When I enter **3** for **Enforcement**

When I submit the **scores**

Then the **letter** grade for **Central Hospital** should be **B**

Then the **numeric** grade for **Central Hospital** should be **84.44**

Cucumber

- *Aslak Hellesøy's rewrite of RBehave/Story Runner*
 - *Built on Treetop, a Ruby Parser Library*
 - *very developer-friendly*
 - *supports multiple spoken languages*
 - *languages are easily added*

Feature: code-breaker submits guess

The code-breaker submits a guess of four colored pegs. The mastermind game marks the guess with black and white "marker" pegs.

For each peg in the guess that matches color and position of a peg in the secret code, the mark includes one black peg. For each additional peg in the guess that matches the color but not the position of a color in the secret code, a white peg is added to the mark.

Scenario Outline: submit guess

Given the secret code is <code>

When I guess <guess>

Then the mark should be <mark>

Scenarios: all colors correct

code	guess	mark
r g y c	r g y c	bbbb
r g y c	r g c y	bbww
r g y c	y r g c	bwww
r g y c	c r g y	wwww


```
Given /^the secret code is (. . . .)$/ do |code|  
  game.start(code.split)  
end
```

```
When /^I guess (. . . .)$/ do |code|  
  game.guess(code.split)  
end
```

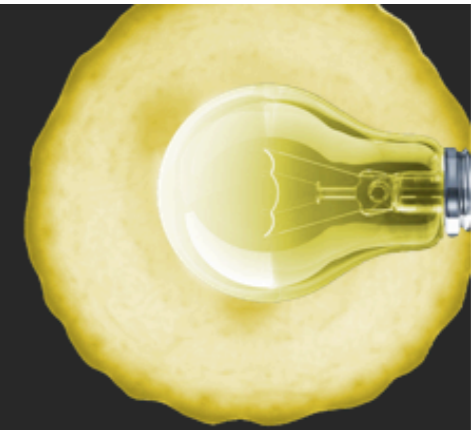
```
Then /^the mark should be (.*)$/ do |mark|  
  messages_should_include(mark)  
end
```


Característica: mede evolução das inscrições em relação ao objetivo final
Como um organizador de conferências
Eu quero um relatório de inscrições
Para que eu possa medir evolução

Cenário: um inscrição mostra 1%
Dado um alvo de 200 inscrições
Quando 1 participante se inscreve
Então 1% do alvo foi atingido

Cenário: um inscrição menos que o alvo mostra 99%
Dado um alvo de 200 inscrições
Quando 199 participantes se inscrevem
Então 99% do alvo foi atingido

features/i_can_has_wishez_plz.feature



OH HAI: I CAN HAS WISHEZ PLZ

SO DAT I CAN HAS HUGS TIEM AN PLAY TIEM AN SLEEP TIEM AN NOM TIEM
AS NICE GREEDEE KITTEH
I CAN PLZ MANEGE TEH WISHEZ

MISHUN: MAK NEW WISH

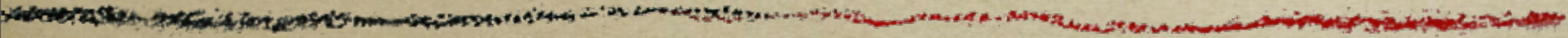
GIVN I AM LOGGD IN

WEN I MAK "CHEEZBURGER" WISH

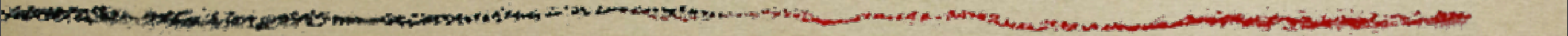
DEN I C "CHEEZBURGER" ON ME WISHEZ LIT



Environmental Factors



Who writes the step definitions?



Team Structure

- *QC or Testing Team?*
 - *Can they code?*
- *All developers?*

Feature: attendee registers

As a potential attendee

I want to register for a conference

So that I may attend and learn great stuff

Scenario: successful registration

Given a conference named ETEC

And I am on the registration form

When I fill in "Name" with "Joe Smith"

And I fill in "E-Mail" with "jsmith@site.com"

And I select "BDD" from "Conferences"

And I check "Tutorials"

And I press "Register"

Then I should see the Registration Confirmation

And I should see "Conference: BDD"

And I should see "Name: Joe Smith"

And I should see "E-Mail: jsmith@site.com"

And I should see "Tutorials: Yes"


```
Given /^I am on (.+)$/ do |page_name|  
  visit path_to(page_name)  
end
```

```
When /^I fill in "([\^"]*)" with "([\^"]*)"$/ do |field, value|  
  fill_in(field, :with => value)  
end
```

```
When /^I select "([\^"]*)" from "([\^"]*)"$/ do |value, field|  
  select(value, :from => field)  
end
```

```
When /^I press "([\^"]*)"$/ do |button|  
  click_button(button)  
end
```

```
Then /^I should see "([\^"]*)"$/ do |text|  
  response.should contain(text)  
end
```


Feature: attendee registers

As a potential attendee

I want to register for a conference

So that I may attend and learn great stuff

Scenario: successful registration

When I successfully register for a conference

Then I should a registration confirmation

And it should show the conference name and date

And it should show my name and email

```
When /^I successfully register for a conference$/ do
  Conference.create!(:name => "ETEC", :date => Date.new(2009, 3, 26))
  visit new_registration_path
  fill_in :name, :with => "Joe Smith"
  fill_in :email, :with => "joe@smith.com"
  select "EETEC", :from => "Conferences"
  click_button "Register"
end
```

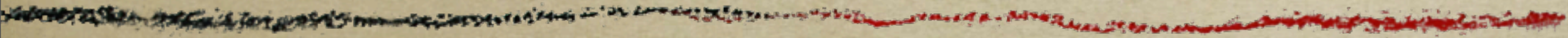
```
Then /^I should a registration confirmation$/ do
  response.should contain("Registration Confirmation")
end
```

```
And /^it should show the conference name and date$/ do
  response.should have_tag(".conference_name", "EETEC")
  response.should have_tag(".conference_date", Date.new(2009, 3, 26).to_s)
end
```

```
And /^it should show my name and email$/ do
  response.should have_tag(".attendee_name", /Joe Smith/)
  response.should have_tag(".attendee_email", /joe@smith.com/)
end
```


Trust

Audience:
Developers



TestDox

- *Turns java method names into sentences*
 - *by Chris Stevenson*

TestDox

TestDox creates simple documentation from the method names in JUnit test cases.

For Example, a test class like:

```
public class FooTest extends TestCase {  
    public void testIsASingleton() {}  
    public void testAreallyLongNameIsAGoodThing() {}  
}
```

would generate the following :

```
Foo  
- is a singleton  
- a really long name is a good thing
```

<http://agiledox.sourceforge.net/>

DocTest

- *Runs python in-line documentation as tests*
 - *Tim Peters*

```
def factorial(n):  
    """Return the factorial of n, an exact integer  $\geq 0$ .
```

If the result is small enough to fit in an int, return an int.
Else return a long.

```
>>> [factorial(n) for n in range(6)]  
[1, 1, 2, 6, 24, 120]  
>>> [factorial(long(n)) for n in range(6)]  
[1, 1, 2, 6, 24, 120]  
>>> factorial(30)  
"""
```

```
import math  
if not n  $\geq$  0:  
    raise ValueError("n must be  $\geq$  0")  
if math.floor(n)  $\neq$  n:  
    raise ValueError("n must be exact integer")  
if n+1 == n: # catch a value like 1e300  
    raise OverflowError("n too large")  
result = 1  
factor = 2  
while factor  $\leq$  n:  
    result *= factor  
    factor += 1  
return result
```


RSpec



RSpec

- *The Original **Ruby** BDD Framework*
 - *by Steven Baker*
- *inspired by Dave Astels' blog post "A New Look at Test Driven Development"*
- *Experiment in molding language to better support the process of TDD*

RSpec

- *Sapir/Whorf Hypothesis*
 - *postulates a systematic relationship between the grammatical categories of the language a person speaks and how that person both understands the world and behaves in it.*

the words we use
impact the way we think

Sapir/Whorf-ish


```
class EmptyMovieListTest < Test::Unit::TestCase

  def setup
    @list = MovieList.new
  end

  def test_should_have_size_of_0
    assert_equal 0, @list.size
  end

  def test_should_not_include_star_wars
    assert !@list.include?("Star Wars")
  end

end
```



```
class EmptyMovieList < Spec::Context

  def setup
    @list = MovieList.new
  end

  def should_have_size_of_0
    @list.size.should_equal 0
  end

  def should_not_include_star_wars
    @list.should_not_include "Star Wars"
  end

end
```



```
context MovieList, "when empty" do

  before(:each) do
    @list = MovieList.new
  end

  specify "should have a size of 0" do
    @list.size.should == 0
  end

  specify "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end

end
```


alias :describe, :context
alias :it, :specify


```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  it "should have a size of 0" do
    @list.size.should == 0
  end

  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```

```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  it "should have a size of 0" do
    @list.size.should == 0
  end

  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  it "should be empty" do
    @list.size.should == 0
  end

  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```

```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end
```

```
  it "should be empty" do
    @list.should be_empty
  end
```

```
  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
```

```
end
```



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end
```

```
  it "should be empty" do
    @list.should be_empty
    # => passes if @list.empty?
  end
```

```
  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```

```
MovieList when empty  
  should be empty  
  should not include 'Star Wars'
```

```
Finished in 0.001719 seconds
```

```
2 examples, 0 failures
```

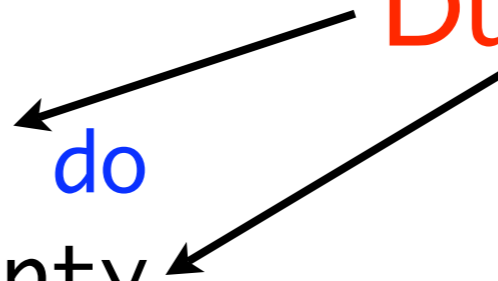


```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end
```

```
  it "should be empty" do
    @list.should be_empty
    # => passes if @list.empty?
  end
```

```
  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```

Duplication



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }

  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```



```
MovieList when empty  
  should be empty  
  should not include 'Star Wars'
```

```
Finished in 0.001719 seconds
```

```
2 examples, 0 failures
```

```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }

  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
end
```



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end
```

```
  specify { @list.should be_empty }
```

```
  it "should not include 'Star Wars'" do
    @list.should_not include('StarWars')
  end
```

```
end
```



Duplication

```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }

  specify { @list.should_not include('StarWars') }
end
```



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }


  specify { @list.should_not include('StarWars') }
end
```

```
class PostTest < Test::Unit::TestCase
  should_belong_to :user
  should_have_many :tags, :through => :taggings

  should_require_unique_attributes :title
  should_require_attributes :body, :message => /wtf/
  should_require_attributes :title
  should_only_allow_numeric_values_for :user_id
end
```

<http://www.thoughtbot.com/projects/shoulda/>

Infers Post from PostTest



```
class PostTest < Test::Unit::TestCase
  should_belong_to :user
  should_have_many :tags, :through => :taggings

  should_require_unique_attributes :title
  should_require_attributes :body, :message => /wtf/
  should_require_attributes :title
  should_only_allow_numeric_values_for :user_id
end
```

<http://www.thoughtbot.com/projects/shoulda/>

```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }

  specify { @list.should_not include('StarWars') }
end
```


No inference necessary!



```
describe MovieList, "when empty" do
  before(:each) do
    @list = MovieList.new
  end

  specify { @list.should be_empty }

  specify { @list.should_not include('StarWars') }
end
```

No inference necessary!



```
describe MovieList, "when empty" do  
  before(:each) do  
    @list = MovieList.new  
  end
```

```
  specify { @list.should be_empty }
```


```
  specify { @list.should_not include('StarWars') }  
end
```



```
describe MovieList, "when empty" do
  specify { should be_empty }
  specify { should_not include('StarWars') }
end
```

Delegate to implicit subject

```
describe MovieList, "when empty" do
  specify { should be_empty }
  specify { should_not include('StarWars') }
end
```




```
describe MovieList, "when empty" do
  specify { should be_empty }
  specify { should_not include('StarWars') }
end
```

```
describe MovieList, "when empty" do
  it { should be_empty }
  it { should_not include('StarWars') }
end
```



```
describe MovieList do
  context "when empty" do
    it { should be_empty }
    it { should_not include('StarWars') }
  end
end
```

MovieList

when empty

should be empty

should not include "StarWars"

Finished in 0.0021 seconds

2 examples, 0 failures


```
describe MovieList do
  context "when empty" do
    it { should be_empty }
    it { should_not include('StarWars') }
  end
end
```

exclude?



```
describe MovieList do
  context "when empty" do
    it { should be_empty }
    it { should exclude('StarWars') }
  end
end
```



```
Spec::Matchers.create :exclude do |element|
  match do |list|
    !list.include?(element)
  end
end
```

MovieList

when empty

should be empty

should exclude StarWars

Finished in 0.001994 seconds

2 examples, 0 failures

MovieList

when empty

should be empty

should exclude StarWars (FAILED - 1)

1)

'MovieList when empty should exclude StarWars' FAILED
expected #<MovieList:0x1a5f4b4> to exclude StarWars
./movie_list_spec.rb:117:

Finished in 0.001975 seconds

2 examples, 1 failure

Impact on Process/Code

```
describe Person do
  context "who is 18 years old" do
    subject {
      Person.new(:birthdate => 18.years.ago)
    }
    it { should be_eligible_to_vote }
  end
end
```


Person

who is 18 years old

should be eligible to vote (FAILED - 1)

1)

NoMethodError in 'Person who is 18 years old should be eligible to vote'
undefined method `eligible_to_vote?' for #<Person:0x17a4030>

./impact_spec.rb:17:

Finished in 0.005175 seconds

1 example, 1 failure

```
Person
  who is 18 years old
    should be eligible to vote (FAILED - 1)
```

```
1)
NoMethodError in 'Person who is 18 years old should be eligible to vote'
undefined method `eligible_to_vote?' for #<Person:0x17a4030>
./impact_spec.rb:17:
```

```
Finished in 0.005175 seconds
```

```
1 example, 1 failure
```

Encourages useful methods on objects



```
def eligible_to_vote?  
  Date.today - 18.years >= @birthdate  
end
```


Person

who is 18 years old

should be eligible to vote

Finished in 0.004661 seconds

1 example, 0 failures

```
given an almost full stack
  when it receives #push
    then it adds the element to the top
  when it receives #pop
    then it returns the top element
    then it removes the top element
  when it receives #peek
    then it returns the top element
    then it leaves the top element
given a full stack
  when it receives #push
    then it raises a StackOverflow error
  when it receives #pop
    then it removes the top element
  when it receives #peek
    then it returns the top element
    then it leaves the top element
```


Rubinius

Ruby, written in Ruby

RubySpec



Executable Specification
for the
Ruby Programming Language

```
describe "Array#at" do
  it "returns the (n+1)'th element for the passed index n" do
    a = [1, 2, 3, 4, 5, 6]
    a.at(0).should == 1
    a.at(1).should == 2
    a.at(5).should == 6
  end

  it "returns nil if the given index is greater than or equal to the array's length" do
    a = [1, 2, 3, 4, 5, 6]
    a.at(6).should == nil
    a.at(7).should == nil
  end

  it "returns the (-n)'th element from the last, for the given negative index n" do
    a = [1, 2, 3, 4, 5, 6]
    a.at(-1).should == 6
    a.at(-2).should == 5
    a.at(-6).should == 1
  end

  it "returns nil if the given index is less than -len, where len is length of the array" do
    a = [1, 2, 3, 4, 5, 6]
    a.at(-7).should == nil
    a.at(-8).should == nil
  end
end
```


RSpec Code Examples

8 examples, 0 failures
Finished in 0.006892 seconds

Array#at

returns the $(n+1)$ 'th element for the passed index n

returns nil if the given index is greater than or equal to the array's length

returns the $(-n)$ 'th element from the last, for the given negative index n

returns nil if the given index is less than $-len$, where len is length of the array

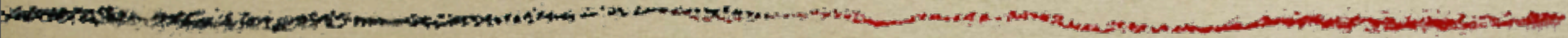
does not extend the array unless the given index is out of range

tries to convert the passed argument to an Integer using `#to_int`

raises a `TypeError` when the passed argument can't be coerced to Integer

raises an `ArgumentError` when 2 or more arguments is passed

So What's Next?



Expectations do

```
# State based expectation where a value equals another value
expect 2 do
  1 + 1
end
```

```
# State based expectation where an exception is expected...
expect NoMethodError do
  Object.no_method
end
```

```
# Behavior based test using a traditional mock
expect mock.to.receive(:dial).with("2125551212").times(2) do |phone|
  phone.dial("2125551212")
  phone.dial("2125551212")
end
```

<http://expectations.rubyforge.org/>


```
Expectations F.....
```

```
Finished in 0.00173 seconds
```

```
Failure: 1 failed, 0 errors, 19 fulfilled
```

```
--Failures--
```

```
method expect in successes_test.rb at line 6
```

```
file
```

```
</Users/david/projects/ruby/expectations/trunk/test/successes_test.rb>
```

```
line <6>
```

```
expected: <2> got: <3>
```

```
describe MovieList do
  context "when first created" do
    behaviour "should be empty" do

      expect true do
        list = List.new
        list.empty?
      end

      expect false do
        list = List.new
        list.include?('StarWars')
      end

    end
  end
end
```

```
describe "#share_as" do
  def self.next_group_name
    @group_number ||= 0
    @group_number += 1
    "Group#{@group_number}"
  end

  def group_name
    @group_name ||= self.class.next_group_name
  end

  it "registers a shared ExampleGroup" do
    block = lambda {|a,b|}
    Spec::Example::ExampleGroupFactory.should_receive(:create_shared_example_group).with(
      group_name, hash_including(:location), &block
    )
    @main.share_as group_name, &block
  end

  it "creates a constant that points to a Module" do
    group = @main.share_as group_name do end
    Object.const_get(group_name).should equal(group)
  end

  it "complains if you pass it a not-constantizable name" do
    lambda do
      @group = @main.share_as "Non Constant" do end
      end.should raise_error(NameError, /The first argument to share_as must be a legal name for a constant/)
    end
  end
end
```


RSpec Code Examples

3 examples, 0 failures
Finished in 0.005599 seconds

Spec::DSL::Main#share_as

registers a shared ExampleGroup

creates a constant that points to a Module

complains if you pass it a not-constantizable name

```
# Creates a Shared Example Group and assigns it to a constant
#
# share_as :AllEditions do
#   it "should do all editions stuff" ...
# end
#
# describe SmallEdition do
#   it_should_behave_like AllEditions
#
#   it "should do small edition stuff" do
#     ...
#   end
# end
#
# And, for those of you who prefer to use something more like Ruby, you
# can just include the module directly
#
# describe SmallEdition do
#   include AllEditions
#
#   it "should do small edition stuff" do
#     ...
#   end
# end
def share_as(name, &block)
  begin
    args = [name]
    Spec::Example::set_location(args, caller(0)[1])
    Object.const_set(name, Spec::Example::ExampleGroupFactory.create_shared_example_group(*args, &block))
  rescue NameError => e
    raise NameError.new(e.message + "\nThe first argument to share_as must be a legal name for a constant\n")
  end
end
```

share_as (name, &block)

Creates a Shared [Example](#) Group and assigns it to a constant

```
share_as :AllEditions do
  it "should do all editions stuff" ...
end

describe SmallEdition do
  it_should_behave_like AllEditions

  it "should do small edition stuff" do
    ...
  end
end
```

And, for those of you who prefer to use something more like [Ruby](#), you can just include the module directly

```
describe SmallEdition do
  include AllEditions

  it "should do small edition stuff" do
    ...
  end
end
```

[\[show source\]](#)

$r_{spec} + r_{doc} = ???$

???

<http://blog.davidchelimsky.net/>
<http://www.articulatedman.com/>

<http://rspec.info/>

<http://cukes.info/>

<http://pragprog.com/titles/achbd/the-rspec-book>



describe it with
rspec


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Behaviour Driven Development
with elegance and joy

The Pragmatic Programmers

The RSpec Book

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