

# Configuration & Matcher's

# Installing RSpec

```
$ gem install rspec in your project directory
Fetching: rspec-core.gem (100%)
Fetching: rspec-expectations.gem (100%)
Fetching: rspec-mocks.gem (100%)
Fetching: rspec.gem (100%)
Successfully installed rspec-core
Successfully installed rspec-expectations
Successfully installed rspec-mocks
Successfully installed rspec
4 gems installed
$ rspec --init
 create spec/spec_helper.rb
 create
         .rspec
```



# Inside Rails

```
group :development, :test do
  gem 'rspec-rails'
end
```

in your Genfile

\$ bundle install

. . .

Installing rspec-core

Installing rspec-expectations

Installing rspec-mocks

Installing rspec

Installing rspec-rails

\$ rails generate rspec:install
 create .rspec
 create spec/spec\_helper.rb

not just rspec core

different with Rails



# Configuration

spec/spec\_helper.rb

```
Dir[Rails.root.join("spec/support/**/*.rb")].each {|f| require f}

...

requires all helper files within spec/support

RSnec configure do I configure
```

RSpec.configure do | config| config.mock\_with :mocha

end

allows you to change the default mocking framework



### Output

```
$ rspec --color spec/models/zombie_spec.rb
.
Finished in 0.00176 seconds
1 examples, 0 failures
```

```
$ rspec --color --format documentation spec/models/zombie_spec.rb
Zombie
  is invalid without a name
.
Finished in 0.00052 seconds
1 examples, 0 failures
```

.rspec

- --color
- --format documentation

makes it a default



# Running specs

\$ rspec



\$ rspec spec/models/



\$ rspec spec/models/zombie\_spec.rb



\$ rspec spec/models/zombie\_spec.rb:4

running a specific line



# Model spec

spec/models/zombie\_spec.rb

```
require 'spec_helper'
describe Zombie do
  it 'is invalid without a name' do
    zombie = Zombie.new
  zombie.should_not be_valid
  end
end
```

predicate matcher

app/models/zombie.rb

```
class Zombie < ActiveRecord::Base
  validates :name, presence: true
end</pre>
```

\$ rspec spec/models/zombie\_spec.rb



Finished in 0.00176 seconds 1 examples, 0 failures



#### Matcher's: match

spec/models/zombie\_spec.rb

```
describe Zombie do
  it "has a name that matches 'Ash Clone'" do
    zombie = Zombie.new(name: "Ash Clone 1")
    Zombie.name.should match(/Ash Clone \d/)
    end
end

takes a regular expression
```



### Matchers: include

spec/models/zombie\_spec.rb

```
describe Zombie do
  it 'include tweets' do
    tweet1 = Tweet.new(status: 'Uuuuunhhhhhh')
    tweet2 = Tweet.new(status: 'Arrrrgggg')
    zombie = Zombie.new(name: 'Ash', tweets: [tweet1, tweet2])
    Zombie.tweets.should include(tweet1)
    zombie.tweets.should include(tweet2)
    end
end

is this Tweet inside tweets?
```

matching on an array



#### Matcher's: have

spec/models/zombie\_spec.rb

```
describe Zombie do
  it 'starts with two weapons' do
    zombie = Zombie.new(name: 'Ash')
  zombie.weapons.count.should == 2
  end
end
```

#### reads much better

```
describe Zombie do
  it 'starts with two weapons' do
  zombie = Zombie.new(name: 'Ash')
  zombie.should have(2).weapons
  end
end
```

these will work too

```
have(n)
have_at_least(n)
have_at_most(n)
```



# Matcher's: change

spec/models/zombie\_spec.rb

```
describe Zombie do
  it 'changes the number of Zombies' do
    zombie = Zombie.new(name: 'Ash')
  expect { zombie.save }.to change { Zombie.count }.by(1)
  end
end
end
runs before and after expect
```

results are compared

give these a shot

by(n)
from(n)
to(n)

you can chain them.





#### raise error

spec/models/zombie\_spec.rb

```
describe Zombie do
  it 'raises an error if saved without a name' do
    zombie = Zombie.new
  expect { zombie.save! }.to raise_error(
        ActiveRecord::RecordInvalid
    )
  end
end
optionally pass in an exception
```

to not\_to to\_not

these modifiers also work



#### More matchers

```
respond_to(:<method_name>)
be_within(<range>).of(<expected>)
exist
satisfy { <block> }
be_kind_of(<class>)
be_an_instance_of(<class>)
```



#### More matcher's

```
@zombie.should respond_to(:hungry?)
```

```
@width.should be_within(0.1).of(33.3)
```

@zombie.should exist

@zombie.should satisfy { |zombie| zombie.hungry? }

@hungry\_zombie.should be\_kind\_of(Zombie) HungryZombie < Zombie

@status.should be\_an\_instance\_of(String)

