

DRY Specs LEVEL 3. Don't Repeat Yourself

Implicit Subject

spec/models/zombie_spec.rb

```
describe Zombie do
  it 'responds to name' do
    zombie = Zombie.new
    zombie.should respond_to(:name)
  end
end
```

```
describe Zombie do
  it 'responds to name' do
    subject.should respond_to(:name)
  end
end
subject = Zombie.new
```

only works using describe with a class



Implicit Receiver

```
describe Zombie do
  it 'responds to name' do
    subject.should respond_to(:name)
  end
end
```

```
describe Zombie do
  it 'responds to name' do
    should respond_to(:name)
  end
end
```



it without name

```
describe Zombie do
  it 'responds to name' { should respond_to(:name) }
end

describe Zombie do
  it { should respond_to(:name) }
end
```

example name created automatically

```
$ rspec spec/lib/zombie_spec.rb
Zombie
    should respond to #name
Finished in 0.00125 seconds
1 examples, 0 failures
```



its

spec/lib/zombie_spec.rb

```
describe Zombie do
  it { subject.name.should == 'Ash' }
end
```

```
describe Zombie do
  its(:name) { should == 'Ash' }
end
```

```
$ rspec spec/lib/zombie_spec.rb
Zombie
    should == "Ash"
Finished in 0.00057 seconds
1 examples, 0 failures
```





its examples

```
describe Zombie do
  its(:name) { should == 'Ash' }
  its(:weapons) { should include(weapon) }
  its(:brain) { should be_nil }
  its('tweets.size') { should == 2 }
end
```



Nesting examples

```
describe Zombie do

it 'craves brains when hungry'

it 'with a veggie preference still craves brains when hungry'

it 'with a veggie preference prefers vegan brains when hungry'

end

Duplication!
```

```
describe Zombie do
  it 'craves brains when hungry'
  describe 'with a veggie preference' do
    it 'still craves brains when hungry'
    it 'prefers vegan brains when hungry'
  end
end
```



Nestins examples

```
describe Zombie do
  it 'craves brains when hungry'
  describe 'with a veggie preference' do
    it 'still craves brains when hungry'
    it 'prefers vegan brains when hungry'
  end
end
describe Zombie do
  describe 'when hungry' do
    it 'craves brains'
    describe 'with a veggie preference' do
      it 'still craves brains'
      it 'prefers vegan brains'
    end
  end
end
```



context

end

end

```
describe Zombie do
  describe 'when hungry' do
    it 'craves brains'
    describe 'with a veggie preference' do
      it 'still craves brains'
      it 'prefers vegan brains'
    end
  end
               context instead of describe
end
describe Zombie do
  context 'when hungry' do
    it 'craves brains'
    context 'with a veggie preference' do
     it 'still craves brains'
     it 'prefers vegan brains'
    end
```



subject in context

```
spec/models/zombie_spec.rb
```

```
context 'with a veggie preference' do
  subject { Zombie.new(vegetarian: true) }

it 'craves vegan brains' do
    craving.should == 'vegan brains'
  end
end
```

```
its(:craving) { should == 'vegan brains' }
```



Using subject

spec/models/zombie_spec.rb

```
context 'with a veggie preference' do
  subject { Zombie.new(vegetarian: true, weapons: [axe]) }
  let(:axe) { Weapon.new(name: 'axe') }
  its(:weapons) { should include(axe) }

  it 'can use its axe' do
    subject.swing(axe).should == true
  end
end
```

unclear what "subject" is,
especially with many tests



Naming the subject

```
context 'with a veggie preference' do
  let(:zombie) { Zombie.new(vegetarian: true, weapons: [axe]) }
  let(:axe) { Weapon.new(name: 'axe') }
  subject { zombie }

  its(:weapons) { should include(axe) }

  it 'can use its axe' do
    zombie.swing(axe).should == true
  end
end
```



New subject syntax

```
context 'with a veggie preference' do
  let(:zombie) { Zombie.new(vegetarian: true, weapons: [axe]) }
  let(:axe) { Weapon.new(name: 'axe') }
  subject { zombie }
  ...
```

```
newer syntax
```

```
context 'with a veggie preference' do
  subject(:zombie) { Zombie.new(vegetarian: true, weapons: [axe]) })
  let(:axe) { Weapon.new(name: 'axe') }
```



step by step subject

```
describe Zombie do

let(:zombie) { Zombie.create }

subject { zombie }

its(:name) { should be_nil? }

...
end
```

- 3. zombie gets created
- 2. needs to know subject
- 1. example begins to run

this is an example of Lazy Evaluation

it "creates a zombie" { Zombie.count == 1 }

wouldn't work!



Let every time

```
describe Zombie do
  let!(:zombie) { Zombie.create }
  subject { zombie }
  its(:name) { should be_nil? }
  ...
end
```

Will create zombie before every example



```
describe Zombie do
  it 'has no name' do
   @zombie = Zombie.create
   @zombie.name.should be_nil?
  end
  it 'craves brains' do
    @zombie = Zombie.create
   @zombie.should be_craving_brains
  end
  it 'should not be hungry after eating brains' do
    @zombie = Zombie.create
    @zombie.hungry.should be_true
    @zombie.eat(:brains)
    @zombie.hungry.should be_false
  end
end
```

```
describe Zombie do
  let(:zombie) { Zombie.create }
  subject { zombie }
  it 'has no name' do
    zombie.name.should be_nil?
  end
  it 'craves brains' do
    zombie.should be_craving_brains
  end
  it 'should not be hungry after eating brains' do
    zombie.hungry.should be_true
    zombie.eat(:brains)
    zombie.hungry.should be_false
  end
end
```



```
describe Zombie do
  let(:zombie) { Zombie.create }
  subject { zombie }
  its(:name) { should be_nil? }
  it { should be_craving_brains }
  it 'should not be hungry after eating brains' do
    zombie.hungry.should be_true
    zombie.eat(:brains)
    zombie.hungry.should be_false
  end
end
```



```
describe Zombie do
  let(:zombie) { Zombie.create }
  subject { zombie }
  its(:name) { should be_nil? }
  it { should be_craving_brains }
  it 'should not be hungry after eating brains' do
    expect { zombie.eat(:brains) }.to change {
     zombie.hungry
    }.from(true).to(false)
  end
end
```

