

## Mockins & Stubbins LEVEL 5

#### Why stub is needed



def decapitate
 weapon.slice(self, :head)
 self.status = "dead again"
 end
end



#### Stubs & Mocks

#### Stub

For replacing a method with code that returns a specified result.

#### Mock

A stub with an expectations that the method gets called.



#### Stubbing





#### Example with stub

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

```
describe Zombie do
  let(:zombie) { Zombie.create }
```

```
def decapitate
  weapon.slice(self, :head)
  self.status = "dead again"
end
```

```
context "#decapitate" do
   it "sets status to dead again" do
        zombie.weapon.stub(:slice)
        zombie.decapitate
        zombie.status.should == "dead again"
        end
        end
end
```

we need to test that slice is called



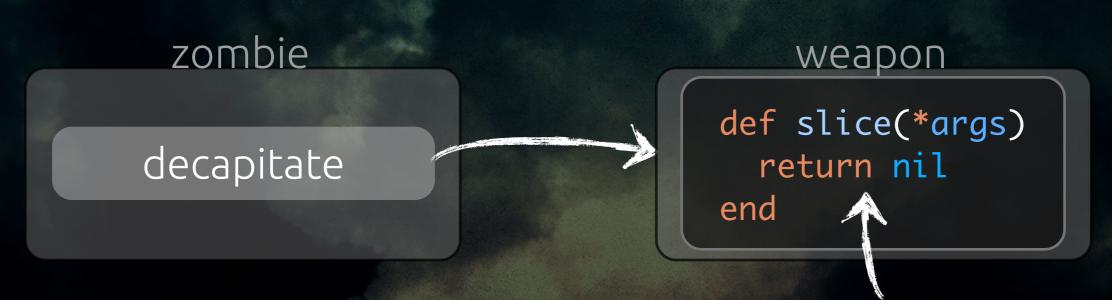
## Missins example

/spec/models/zombie\_spec.rb

```
describe Zombie do
  let(:zombie) { Zombie.create }
  context "#decapitate" do
   it "calls weapon.slice" do
     zombie.decapitate
   end
   it "sets status to dead again" do
     zombie.weapon.stub(:slice)
     zombie.decapitate
   🔝 zombie.status.should == "dead again"
   end
 end
end
```



#### Mocking



/app/models/zombie.rb

zombie.weapon.should\_receive(:slice)

```
class Zombie < ActiveRecord::Base
has_one :weapon

def decapitate
  weapon.slice(self, :head)
  self.status = "dead again"
  end
end</pre>
```

stubs the method + has an expectation



### Complete Spec

```
/spec/models/zombie spec.rb
describe Zombie do
  let(:zombie) { Zombie.create }
  context "#decapitate" do
   it "calls weapon.slice" do
   Zombie.weapon.should_receive(:slice)
     zombie.decapitate
   end
   it "sets status to dead again" do
     zombie.weapon.stub(:slice)
     zombie.decapitate
   🔝 zombie.status.should == "dead again"
   end
 end
end
```



#### Mocking with param

```
/app/models/zombie.rb

class Zombie < ActiveRecord::Base
  def geolocate
    Zoogle.graveyard_locator(self.graveyard)
  end
end
/spec/models/zombie_spec.rb</pre>
```

```
it "calls Zoogle.graveyard_locator" do
  Zoogle.should_receive(:graveyard_locator).with(zombie.graveyard)
  zombie.geolocate
end
```

stubs the method + expectation with correct param

#### Mock and return

```
/app/models/zombie.rb

def geolocate
  loc = Zoogle.graveyard_locator(self.graveyard)
  "#{loc[:latitude]}, #{loc[:longitude]}"
end

/spec/models/zombie_spec.rb

it "calls Zoogle.graveyard_locator" do

A Zoogle.should_receive(:graveyard_locator).with(zombie.graveyard)
```

.and\_return({latitude: 2, longitude: 3})
zombie.geolocate
end

stubs the method + expectation with correct param + return value

LEVEL 5 - MOCKING & STUBBING

#### Stub and return

```
/app/models/zombie.rb

def geolocate
  loc = Zoogle.graveyard_locator(self.graveyard)
  "#{loc[:latitude]}, #{loc[:longitude]}"
end
```

```
/spec/models/zombie_spec.rb
it "returns properly formatted lat, long" do
   Zoogle.stub(:graveyard_locator).with(zombie.graveyard)
        .and_return({latitude: 2, longitude: 3})

& zombie.geolocate.should == "2, 3"
end
```





#### Stub object

```
/app/models/zombie.rb
```

```
should return
```

```
def geolocate_with_object
  loc = Zoogle.graveyard_locator(self.graveyard)
  "#{loc.latitude}, #{loc.longitude}"
end
```

# def latitude return 2 end def longitude return 3 end

#### /spec/models/zombie\_spec.rb

```
it "returns properly formatted lat, long" do
  loc = stub(latitude: 2, longitude: 3)
  Zoogle.stub(:graveyard_locator).returns(loc)
  Zombie.geolocate_with_object.should == "2, 3"
end
```





#### Stubs in the willd

```
app/mailers/zombie_mailer.rb
class ZombieMailer < ActionMailer::Base</pre>
  def welcome(zombie)
    mail(from: 'admin@codeschool.com', to: zombie.email,
         subject: 'Welcome Zombie!')
  end
end
                              Not good, calling Active Record
spec/mailers/zombie_mailer_spec.rb
describe ZombieMailer do
  context '#welcome' do
   let(:zombie) { Zombie.create(email: 'ash@zombiemail.com') }
    subject { ZombieMailer.welcome(zombie) }
    its(:from) { should include('admin@codeschool.com') }
    its(:to) { should include(zombie.email) }
    its(:subject) { should == 'Welcome Zombie!' }
  end
end
```

## Stubs in the willd

```
let(:zombie) { Zombie.create(email: 'ash@zombiemail.com') }

Lets create a fake object
```

```
let(:zombie) { stub(email: 'ash@zombiemail.com') }
```



#### Stubs in the willd

```
app/mailers/zombie mailer.rb
class ZombieMailer < ActionMailer::Base
  def welcome(zombie)
    mail(from: 'admin@codeschool.com', to: zombie.email,
         subject: 'Welcome Zombie!')
  end
end
spec/mailers/zombie mailer spec.rb
describe ZombieMailer do
  context '#welcome' do
    let(:zombie) { stub(email: 'ash@zombiemail.com') }
    subject { ZombieMailer.welcome(zombie) }
    its(:from) { should include('admin@codeschool.com') }
    its(:to) { should include(zombie.email) }
    its(:subject) { should == 'Welcome Zombie!' }
  end
end
```

#### More stub options

