

# Workflow

# What to talk about?

- Open Source? No... Evan's on it.
- Testing? No... Rein, Sarah and Alex had that covered.
- Thinking laterally? No... Jim was all over that.

I guess I could stand up  
here and yell.

You're doing it  
all wrong!

But I've done that plenty.

# Workflow

- What we do.
- How we do it.
- 3 foot view, not 30,000 foot view.
  - Details over handwaving or methodology.

work•flow | 'wɜrk,flō |

noun

the sequence of industrial, administrative, or other processes through which a piece of work passes from initiation to completion.

(source: Oxford American Dictionary)

# Everyone Codes Differently

***Everyone***

# Seattle.rb

- I have the honor and privilege of working with 2 of the most creative and prolific developers in the ruby community.
- ~150 gems and ~1000 releases from just 3 of our many members:
  - Ryan Davis - 49 gems, 423 releases
  - Eric Hodel - 63 gems, 327 releases
  - Aaron Patterson - 33 gems, 230 releases
- More importantly, I get to watch them work.
  - How cool is that?

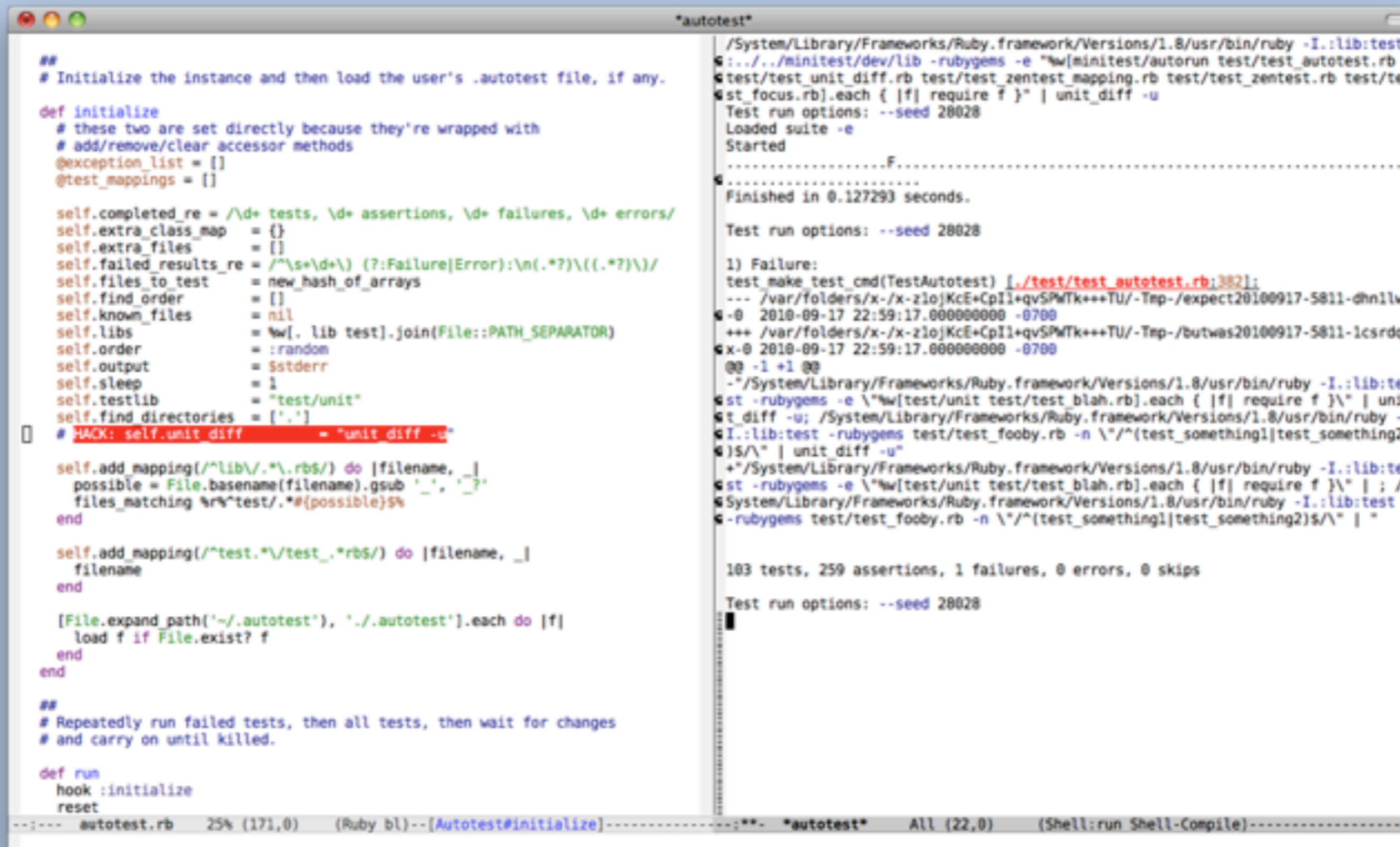
Ryan Davis

100% Emacs

No Terminal,  
just emacs!

Almost full screen, split once:

No code  
folding.  
Makes for  
more  
refactorings



autotest.el  
and  
toggle.el

Shell/Code/Test

Autotest

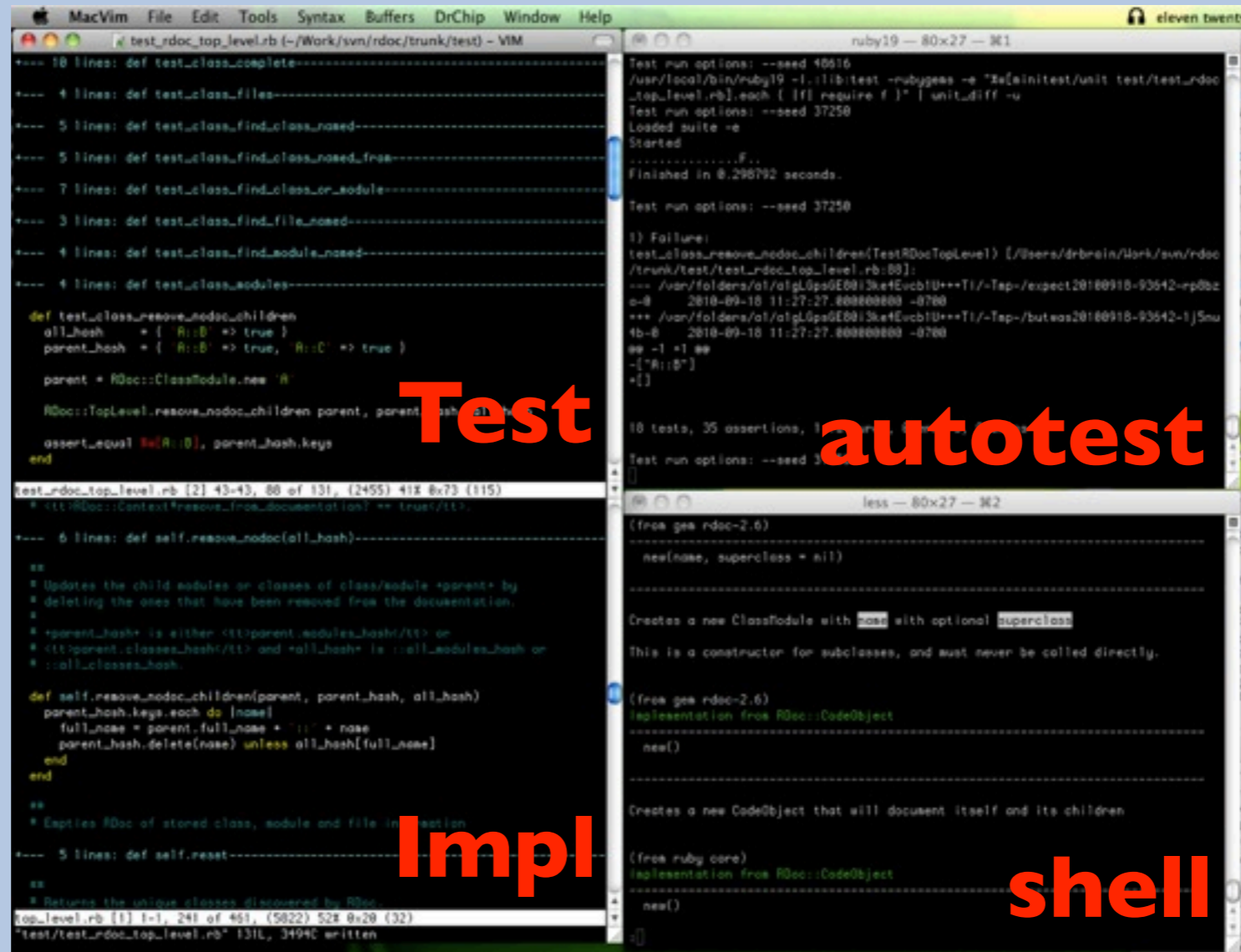
Smallest (apple) laptop

I swear a lot!

Eric Hodel

Vim + Terminal

Not full screen, split twice:



Folds 100% by default.

Easier to navigate a file.

Larger laptops, 17" to 15"

Swears little

# Aaron Patterson



**Only with more pink and kittens.**

GoGaRuCo 2010

# What do we do in common?

TDD via test/unit or minitest

We know our editors, **well.**

movement via incremental search and ctags

OSX/BSD

YAGNI,D

DTSTTCPW,D

eschew

autotest,

autotest,

overmocking

Dun Dun Dunnn! autotest!

distribution via gems

**we don't pair**  
but **we do code review often**

project automation with rake and hoe

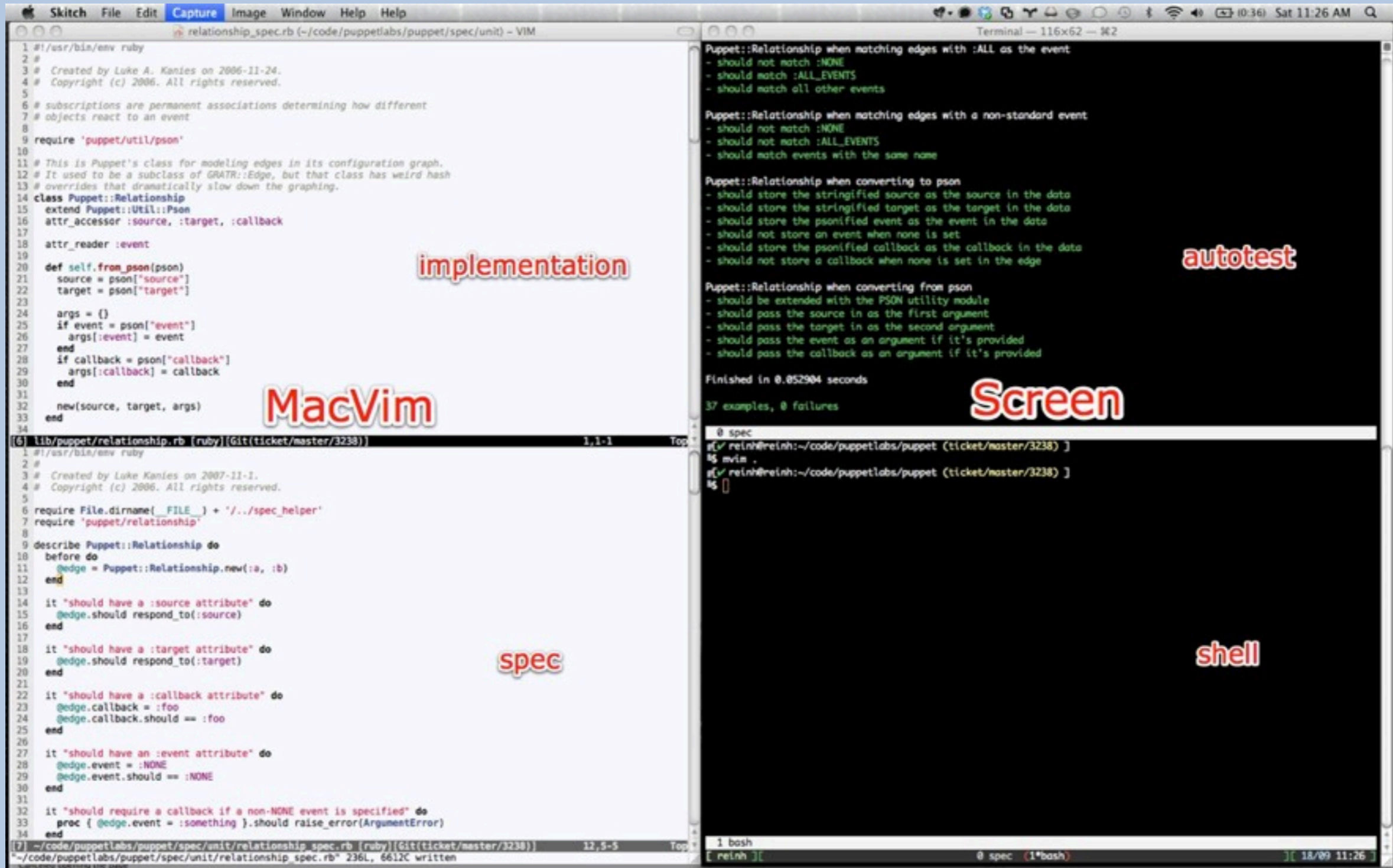
# Panel

- In order to compare and contrast further:
  - Evan Phoenix
  - Jim Weirich
  - Rein Hendrichs
  - Your name here?
    - Hopefully someone beginner to intermediate.

# Answering:

- Describe your programming environment.
- Describe your average code cycle.
- What are some of the things you do that make you more productive?
- What could you improve to get the most productivity gain?

## Rein



The screenshot displays a multi-pane workflow for developing and testing a Puppet module. The top-left pane shows the implementation of the `Puppet::Relationship` class in `relationship_spec.rb` using `MacVim`. The top-right pane shows the corresponding RSpec tests in `relationship_spec.rb` running in a `Terminal` window, with the output of the `autotest` command. The bottom-left pane shows the `spec` file for the module, which includes `describe` blocks for testing the class's behavior. The bottom-right pane shows the `shell` environment where the `spec` command is executed, resulting in a successful run with 37 examples and 0 failures.

```
1 #!/usr/bin/env ruby
2 #
3 # Created by Luke A. Kanies on 2006-11-24.
4 # Copyright (c) 2006. All rights reserved.
5
6 # subscriptions are permanent associations determining how different
7 # objects react to an event
8
9 require 'puppet/util/psone'
10
11 # This is Puppet's class for modeling edges in its configuration graph.
12 # It used to be a subclass of GRATR::Edge, but that class has weird hash
13 # overrides that dramatically slow down the graphing.
14 class Puppet::Relationship
15   extend Puppet::Util::Pson
16   attr_accessor :source, :target, :callback
17
18   attr_reader :event
19
20   def self.from_pson(pson)
21     source = pson["source"]
22     target = pson["target"]
23
24     args = {}
25     if event = pson["event"]
26       args[:event] = event
27     end
28     if callback = pson["callback"]
29       args[:callback] = callback
30     end
31
32     new(source, target, args)
33   end
34 end
```

```
Puppet::Relationship when matching edges with :ALL as the event
- should not match :NONE
- should match :ALL_EVENTS
- should match all other events

Puppet::Relationship when matching edges with a non-standard event
- should not match :NONE
- should not match :ALL_EVENTS
- should match events with the same name

Puppet::Relationship when converting to pson
- should store the stringified source as the source in the data
- should store the stringified target as the target in the data
- should store the psonified event as the event in the data
- should not store an event when none is set
- should store the psonified callback as the callback in the data
- should not store a callback when none is set in the edge

Puppet::Relationship when converting from pson
- should be extended with the PSON utility module
- should pass the source in as the first argument
- should pass the target in as the second argument
- should pass the event as an argument if it's provided
- should pass the callback as an argument if it's provided

Finished in 0.052904 seconds
37 examples, 0 failures
```

```
6 lib/puppet/relationship.rb [ruby][Git(ticket/master/3238)] 1,1-1 Top
1 #!/usr/bin/env ruby
2 #
3 # Created by Luke Kanies on 2007-11-1.
4 # Copyright (c) 2006. All rights reserved.
5
6 require File.dirname(__FILE__) + '/../spec_helper'
7 require 'puppet/relationship'
8
9 describe Puppet::Relationship do
10   before do
11     @edge = Puppet::Relationship.new(:a, :b)
12   end
13
14   it "should have a :source attribute" do
15     @edge.should respond_to(:source)
16   end
17
18   it "should have a :target attribute" do
19     @edge.should respond_to(:target)
20   end
21
22   it "should have a :callback attribute" do
23     @edge.callback = :foo
24     @edge.callback.should == :foo
25   end
26
27   it "should have an :event attribute" do
28     @edge.event = :NONE
29     @edge.event.should == :NONE
30   end
31
32   it "should require a callback if a non-NONE event is specified" do
33     proc { @edge.event = :something }.should raise_error(ArgumentError)
34   end
35 end
```

```
0 spec
[✓] rein@reinh:~/code/puppetlabs/puppet (ticket/master/3238) ]
% mvim .
[✓] rein@reinh:~/code/puppetlabs/puppet (ticket/master/3238) ]
%

1 bash
[✓] rein@reinh:~/code/puppetlabs/puppet/spec/unit/relationship_spec.rb [ruby][Git(ticket/master/3238)] 12,5-5 Top
~/code/puppetlabs/puppet/spec/unit/relationship_spec.rb 236L, 6612C written
```

## Jim

```

# Run the Rake application. The run method
# performs the following three steps:
#
# * Initialize the command line options (+init+).
# * Define the tasks (+load_rakefile+).
# * Run the top level tasks (+run_tasks+).
#
# If you wish to build a custom rake command, you
# should call +init+ on your application. The
# define any tasks. Finally, call +top_level+ to
# run your top level tasks.
def run
  standard_exception_handling do
    init
    load_rakefile
    top_level
  end
end

# Initialize the command line parameters and app
# name.
def init(app_name='rake')
  standard_exception_handling do
    @name = app_name
    handle_options
    collect_tasks
  end
end

# Find the rakefile and then load it and any
# pending imports.
def load_rakefile
  standard_exception_handling do
    # ...
  end
end

```

```

= Test File ...
== In: ~/working/git/rake/
== File: application_test.rb

Compilation started at Sat Sep 18 11:20:39

. /Users/jim/.project_env.rc; ruby -Ilib:test:. /Users/
jim/working/git/rake/test/lib/application_test.rb | ~ji
m/.elisp/bin/noansi

info: Using ruby 1.9.2 p0
Loaded suite /Users/jim/working/git/rake/test/lib/appli
cation_test
Started
.....
.....
Finished in 0.258170 seconds.

68 tests, 196 assertions, 0 failures, 0 errors, 0 skips

Test run options: --seed 38455

Compilation finished at Sat Sep 18 11:20:41

```

Press <A-S-return> to exit full screen editing.

# What is your Workflow?

# My Workflow, as Keywords

TDD

emacs

ctags

full-screen

incremental-search

OSX/BSD

hoe

minitest

rubygems

toggle.el

autotest

rake

autotest.el

unified-environment

# What are yours?

- Send to: [ryand-ruby@zenspider.com](mailto:ryand-ruby@zenspider.com)
- Plain text email.
- Subject: gogaruco keywords.
- Please separate all keywords by line.
- Email addresses will NOT be used for any reason. (Except maybe to ask you a question).

**Thank You.**