

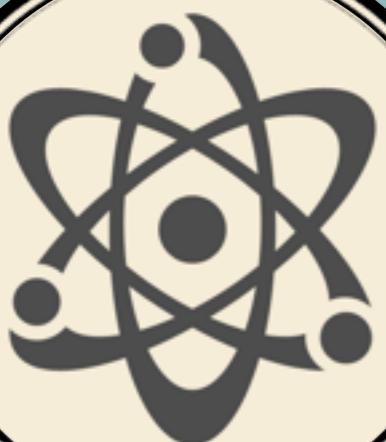
DAY 2

BREAKING
DOWN
IS A PROBLEM

OBJECTS
ARE SCARY

STACK
TRACES
ALSO SCARY

VERSION
CONTROL
ISN'T SO BAD





QUESTIONS?



Now that you've had some time to digest it:

- Questions about yesterday's material?

DAILY FORMAT

REVIEW: Discuss the previous day's material, and go over the results of your individual exercises

TOPIC 1: Warm-up topic, generally introducing something new

TOPIC 2: The middle-child of topics

TOPIC 3: In-class Exercises!

TOPIC 4: The “Why should I care?” and background concepts for the assignment

REPORT/REVIEW PT 1

BREAKING DOWN (IS) A PROBLEM
So, where did we get with this?

REPORT/REVIEW PT 2

RUBY ROANS
How did that go?

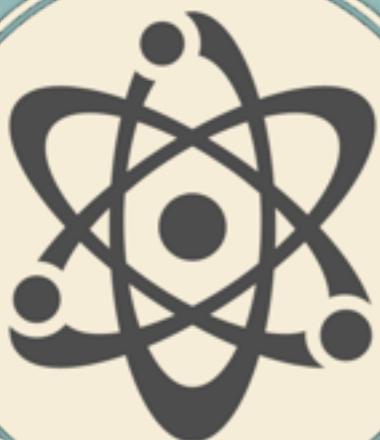
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OBJECTS

ONLY A LITTLE SCARY

It's time for a game!

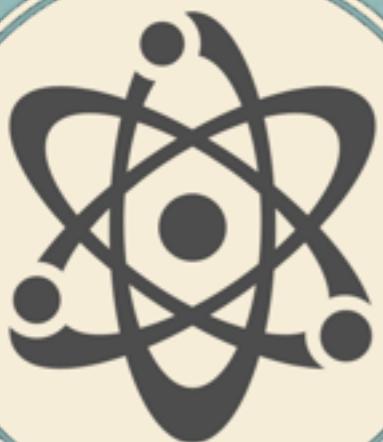
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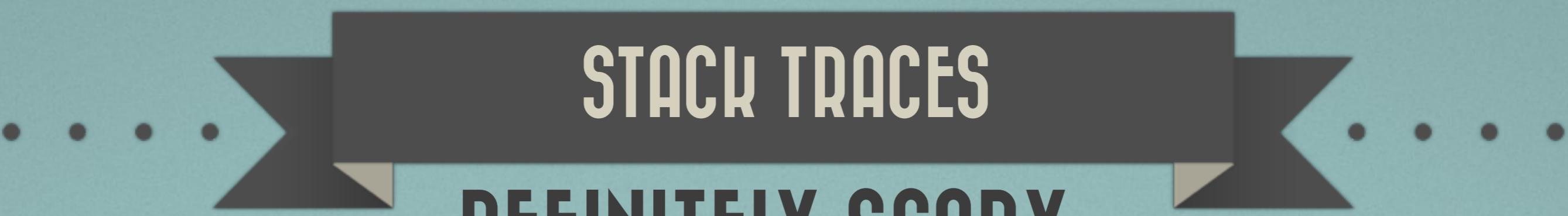


STACK TRACES

DEFINITELY SCARY

We have covered that computers can be real pedantic assholes, right?

Stack traces are how they make sure you don't forget.



STACK TRACES

DEFINITELY SCARY

```
1.9.3-p194 :019 > b/a
=> 0
1.9.3-p194 :020 > a = 3
=> 3
1.9.3-p194 :021 > b = 0
=> 0
1.9.3-p194 :022 > b/a
=> 0
1.9.3-p194 :023 > a/b
ZeroDivisionError: divided by 0
  from (irb):23:in `/'
  from (irb):23
  from /Users/elizabrock/.rvm/rubies/ruby-1.9.3-p194/
bin/irb:16:in `<main>'
```

Not so bad, right?



STACK TRACES

DEFINITELY SCARY

```
1.9.3-p0 :005 > Net::HTTP.get('foo', 'bar')
NameError: uninitialized constant Net
  from (irb):5
  from /Users/eliza/.rvm/rubies/ruby-1.9.3-p0/bin/irb:
16:in `<main>'
```

What now?..

STACK TRACES

DEFINITELY SCARY

```
1.9.3-p0 :006 > require 'net/http'  
=> true  
1.9.3-p0 :007 > Net::HTTP.get('foo', 'bar')
```



STACK TRACES

DEFINITELY SCARY

```
a, b = 1, nil  
b.size  
NoMethodError: undefined method `size' for nil:NilClass  
  from (irb):15  
  from /Users/eliza/.rvm/rubies/ruby-1.9.3-p0/bin/irb:  
16:in `<main>'
```

What now?..

STACK TRACES

DEFINITELY SCARY

```
a, b = 1, nil
```

```
if b == nil
  0
else
  b.size
end
```



STACK TRACES

DEFINITELY SCARY

```
1.9.3-p194 :012 > my_string = "    my crazy string      "
=> "    my crazy string      "
1.9.3-p194 :013 > my_string.strip(" ")
ArgumentError: wrong number of arguments(1 for 0)
from (irb):13:in `strip'
from (irb):13
from /Users/elizabrock/.rvm/rubies/ruby-1.9.3-p194/
bin/irb:16:in `<main>'
```

What now?..

STACK TRACES

DEFINITELY SCARY

```
1.9.3-p194 :014 > my_string = "    my crazy string      "
=> "    my crazy string      "
1.9.3-p194 :015 > my_string.strip
=> "my crazy string"
```



STACK TRACES

DEFINITELY SCARY

```
1.9.3-p194 :005 > arr =["Bluebeard", "Blackbeard",
"Jack"]
=> ["Bluebeard", "Blackbeard", "Jack"]
1.9.3-p194 :009 > arr.fetch(1)
=> "Blackbeard"
1.9.3-p194 :010 > arr.fetch(4)
IndexError: index 4 outside of array bounds: -3...3
  from (irb):10:in `fetch'
  from (irb):10
  from /Users/elizabrock/.rvm/rubies/ruby-1.9.3-p194/
bin/irb:16:in `<main>'
```

What now?..



STACK TRACES

DEFINITELY SCARY

```
1.9.3-p194 :005 > arr =["Bluebeard", "Blackbeard",
"Jack"]
=> ["Bluebeard", "Blackbeard", "Jack"]
1.9.3-p194 :006 > arr[4]
=> nil
```

Still weird, though.

STACK TRACES

BONUS ROUND

```
1.9.3-p0 :001 > require 'tab_delimited_importer'  
SyntaxError: /Users/keith/snip/lib/  
tab_delimited_importer.rb:19: syntax error, unexpected  
$end, expecting keyword_end  
    from /Users/keith/.rvm/gems/ruby-1.9.3-p0/gems/  
activesupport-3.2.8/lib/active_support/dependencies.rb:  
251:in `require'
```

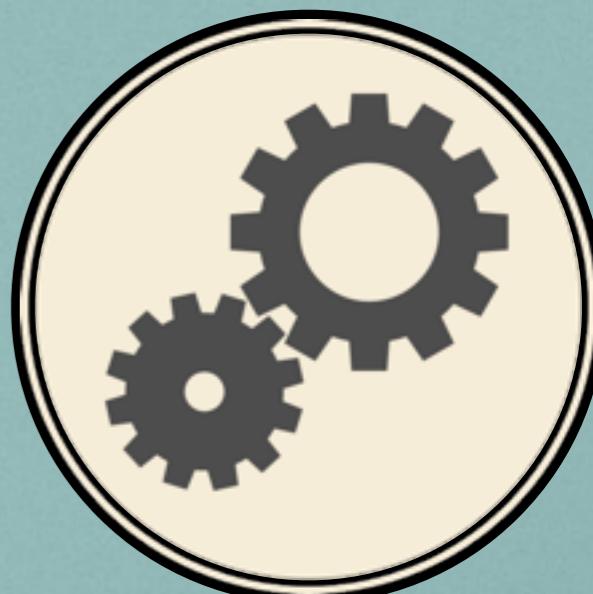
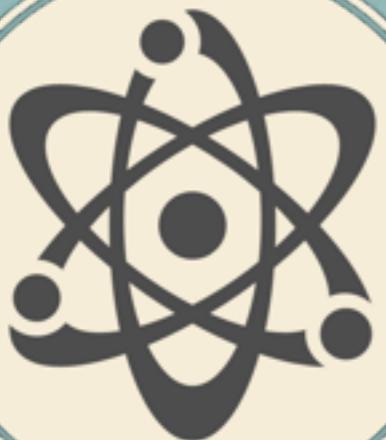
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VERSION CONTROL

WHAT/WHY?

HOW?

DEMO!!

EXERCISE

Why VCS?

- Backup
- Rollback
- History
- Deployment
- No Email
- No more index.final.v6.html, etc.

VERSION CONTROL

WHY?

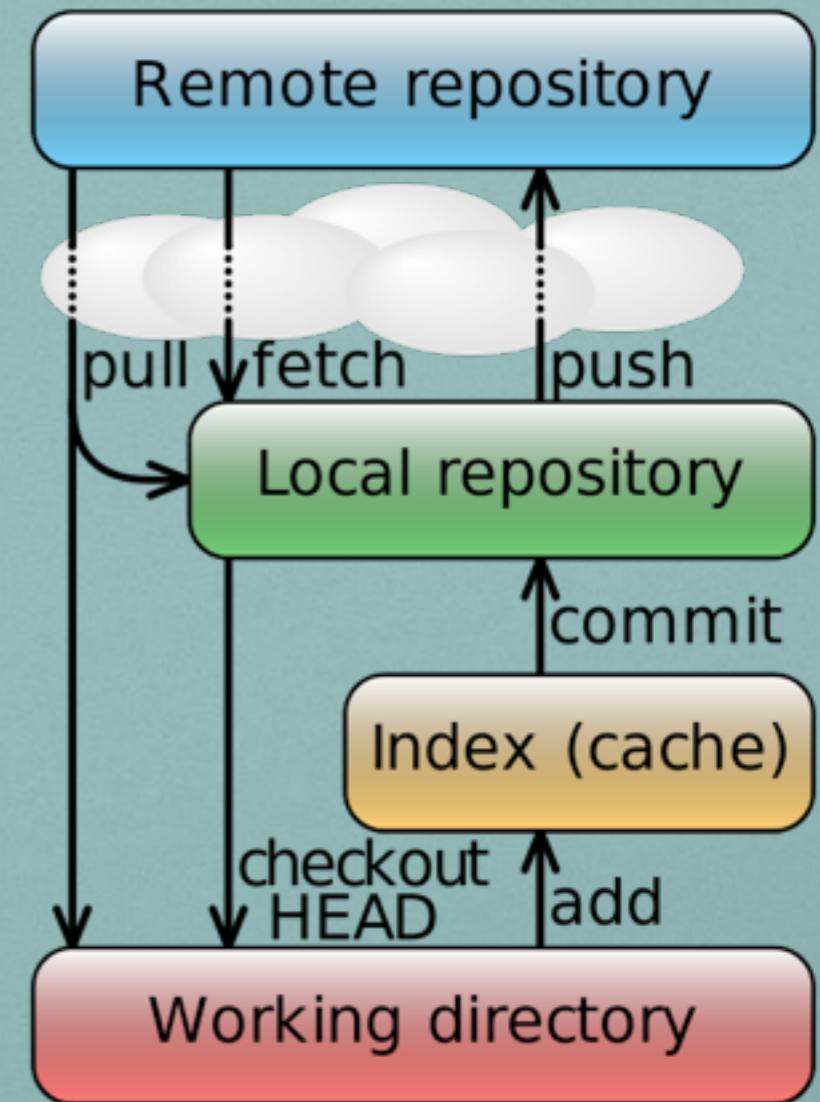
- Distributed
- Fast
- Complicated

HOW?

DEMO!!

EXERCISE

GIT



VERSION CONTROL

WHY?

GIT

HOW?

- Creating a local repository
- Adding files to the repository
- Committing those files (-m)
- Checking the repository status
- Committing more files
- Looking at all of your commits (and -pretty=oneline)
- Interactive add

DEMO!!

EXERCISE

More: <http://gitimmersion.com>

VERSION CONTROL

WHY?

HOW?

DEMO!!

EXERCISE

Let's:

- **fork** the Ruby Koans repo
- **check out** your fork of the repo
- make some **tests pass**
- **commit** your changes
- **push** your changes to github

github.com/elizabrock/NSS-Ruby-Koans

