



x1

```
$ ruby -v
```

```
ruby 1.9.2p180 (2011-02-18 revision 30909) [i386-darwin9.6.0]
```

```
$ gem -v
```

```
1.8.5
```

```
$
```



x1

```
$ cat repl.rb  
loop { p eval gets }
```

```
$
```



```
$ cat repl.rb  
loop { p eval gets }
```

```
$ ruby repl.rb
```

```
1+1
```

```
2
```

```
1+1
```

```
2
```

```
exit
```

```
$ irb
```

```
ruby-1.9.2-p180 :001 > 1+1
```

```
=> 2
```

```
ruby-1.9.2-p180 :002 > exit
```

```
$
```

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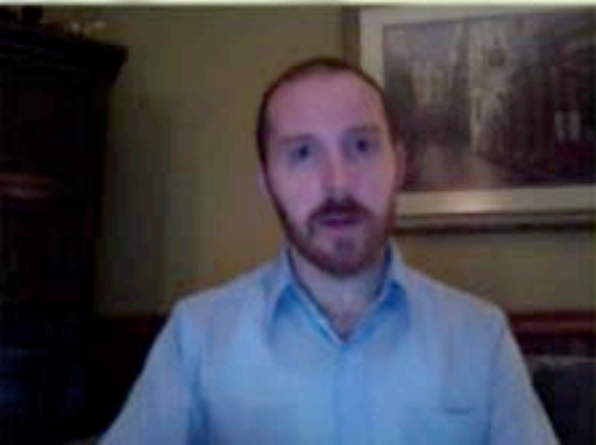
1 Install

2 Features

3 As a debugger

4 Adding to Rails

5 Your turn



x1

```
$ gem install pry pry-doc --no-ri --no-rdoc
Fetching: sexp_processor-3.0.5.gem (100%)
Fetching: ruby_parser-2.0.6.gem (100%)
Fetching: coderay-0.9.8.gem (100%)
Fetching: slop-1.9.1.gem (100%)
Fetching: method_source-0.6.0.gem (100%)
Fetching: pry-0.9.2.gem (100%)
Successfully installed sexp_processor-3.0.5
Successfully installed ruby_parser-2.0.6
Successfully installed coderay-0.9.8
Successfully installed slop-1.9.1
Successfully installed method_source-0.6.0
Successfully installed pry-0.9.2
Fetching: yard-0.7.2.gem (100%)
Fetching: pry-doc-0.3.0.gem (100%)
Successfully installed yard-0.7.2
Successfully installed pry-doc-0.3.0
8 gems installed
```

```
$
```


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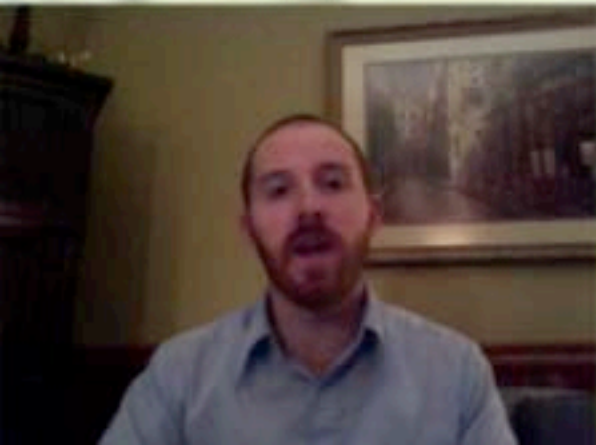
1 Install

2 Features

3 As a debugger

4 Adding to Rails

5 Your turn





x1

```
$ pry
```

```
pry(main)> ~/.pryrc
```



x1

```
$ pry
```

```
pry(main)> help
```




Command List:

--

help	This menu.
install	Install a disabled command.
toggle-color	Toggle syntax highlighting.
simple-prompt	Toggle the simple prompt.
version	Show Pry version.
import	Import a command set
reset	Reset the REPL to a clean state.
ri	View ri documentation. e.g `ri Array#each`
show-doc	Show the comments above METH. Type `show-doc --h
stat	View method information and set <code>_file_</code> and <code>_dir_</code>
gist-method	Gist a method to github. Type `gist-method --hel
gem-install	Install a gem and refresh the gem cache.
gem-cd	Change working directory to specified gem's dire
gem-list	List/search installed gems. (Optional parameter:
ls	Show the list of vars and methods in the current
cd	Start a Pry session on VAR (use `cd ..` to go ba
nesting	Show nesting information.
jump-to	Jump to a Pry session further up the stack, exit
exit	End the current Pry session. Accepts optional re
:	



Command List:

--

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:	

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ls Show the list of vars and methods in the current
cd Start a Pry session on VAR (use `cd ..` to go ba
nesting Show nesting information.
jump-to Jump to a Pry session further up the stack, exit
exit End the current Pry session. Accepts optional re

pry(main)> gist-method -h

Usage: gist-method [OPTIONS] [METH]

Gist the method (doc or source) to github.

Ensure the `gist` gem is properly working before use. <http://github.com/defunkt/gist> for instructions.

e.g: gist -m my_method

e.g: gist -d my_method

options:

-m, --method	Gist a method's source.
-d, --doc	Gist a method's documentation.
-p, --private	Create a private gist (default: true)
-h, --help	This message

pry(main)>



x1

```
pry(main)> s = "pry"
```

```
=> "pry"
```

```
pry(main)>
```



```
pry(main)> s = "pry"
```

```
=> "pry"
```

```
pry(main)> show-doc s.each_line
```

```
str.lines(separator=$/) { |substr| block }      -> str
str.lines(separator=$/)                          -> an_enumerato
```

Splits `str` using the supplied parameter as the record separator (`$/` by default), passing each substring in turn to the supplied block. If a zero-length record separator is supplied, the string is split into paragraphs delimited by multiple successive newlines.

If no block is given, an enumerator is returned instead.

```
print "Example one\n"
"hello\nworld".each_line { |s| p s }
print "Example two\n"
"hello\nworld".each_line('l') { |s| p s }
print "Example three\n"
"hello\n\n\nworld".each_line('') { |s| p s }
```

produces:

```
Example one
"hello\n"
```

:


```
print "Example one\n"  
"hello\nworld".each_line {|s| p s}  
print "Example two\n"  
"hello\nworld".each_line('l') {|s| p s}  
print "Example three\n"  
"hello\n\n\nworld".each_line('') {|s| p s}
```

produces:

```
Example one  
"hello\n"  
"world"  
Example two  
"hel"  
"l"  
"o\nworl"  
"d"  
Example three  
"hello\n\n\n"  
"world"
```

(END)

```
print "Example one\n"  
"hello\nworld".each_line {|s| p s}  
print "Example two\n"  
"hello\nworld".each_line('l') {|s| p s}  
print "Example three\n"  
"hello\n\n\nworld".each_line('') {|s| p s}
```

produces:

```
Example one  
"hello\n"  
"world"  
Example two  
"hel"  
"l"  
"o\nworl"  
"d"  
Example three  
"hello\n\n\n"  
"world"
```

```
pry(main)> show-doc String#each_line
```

Splits str using the supplied parameter as the record separator (\$/ by default), passing each substring in turn to the supplied block. If a zero-length record separator is supplied, the string is split into paragraphs delimited by multiple successive newlines.

If no block is given, an enumerator is returned instead.

```
print "Example one\n"  
"hello\nworld".each_line {|s| p s}  
print "Example two\n"  
"hello\nworld".each_line('l') {|s| p s}  
print "Example three\n"  
"hello\n\n\nworld".each_line('') {|s| p s}
```

produces:

```
Example one  
"hello\n"  
"world"  
Example two  
"hel"
```



x1

```
pry(main)> show-method s.each_line
```



```
rb_str_each_line(int argc, VALUE *argv, VALUE str)
{
    rb_encoding *enc;
    VALUE rs;
    unsigned int newline;
    const char *p, *pend, *s, *ptr;
    long len, rslen;
    VALUE line;
    int n;
    VALUE orig = str;

    if (argc == 0) {
        rs = rb_rs;
    }
    else {
        rb_scan_args(argc, argv, "01", &rs);
    }
    RETURN_ENUMERATOR(str, argc, argv);
    if (NIL_P(rs)) {
        rb_yield(str);
        return orig;
    }
}
```

```
return orig;
}
str = rb_str_new4(str);
ptr = p = s = RSTRING_PTR(str);
pend = p + RSTRING_LEN(str);
len = RSTRING_LEN(str);
StringValue(rs);
if (rs == rb_default_rs) {
enc = rb_enc_get(str);
while (p < pend) {
    char *p0;

    p = memchr(p, '\n', pend - p);
    if (!p) break;
    p0 = rb_enc_left_char_head(s, p, pend, enc);
    if (!rb_enc_is_newline(p0, pend, enc)) {
        p++;
        continue;
    }
    p = p0 + rb_enc_mbclen(p0, pend, enc);
    line = rb_str_new5(str, s, p - s);
```

```
pry(main)> show-method s.each_line -l
```



```
1: static VALUE
2: rb_str_each_line(int argc, VALUE *argv, VALUE str)
3: {
4:     rb_encoding *enc;
5:     VALUE rs;
6:     unsigned int newline;
7:     const char *p, *pend, *s, *ptr;
8:     long len, rslen;
9:     VALUE line;
10:    int n;
11:    VALUE orig = str;
12:
13:    if (argc == 0) {
14:        rs = rb_rs;
15:    }
16:    else {
17:        rb_scan_args(argc, argv, "01", &rs);
18:    }
19:    RETURN_ENUMERATOR(str, argc, argv);
20:    if (NIL_P(rs)) {
21:        rb_yield(str);
22:    }
23: }
```

```
55:     newline = '\n';
56: }
57: else {
58:     newline = rb_enc_codepoint(RSTRING_PTR(rs), RSTRING_END(rs)
59: }
60:
61: while (p < pend) {
62:     unsigned int c = rb_enc_codepoint_len(p, pend, &n, enc);
63:
64:     again:
65:     if (rslen == 0 && c == newline) {
66:         p += n;
67:         if (p < pend && (c = rb_enc_codepoint_len(p, pend, &n,
68:             goto again;
69:         }
70:         while (p < pend && rb_enc_codepoint(p, pend, enc) == n
71:             p += n;
72:         }
73:         p -= n;
74:     }
75:     if (c == newline &&
pry(main)> gist-method s.each_line
```

```
57:     else {
58:         newline = rb_enc_codepoint(RSTRING_PTR(rs), RSTRING_END(rs)
59:     }
60:
61:     while (p < pend) {
62:         unsigned int c = rb_enc_codepoint_len(p, pend, &n, enc);
63:
64:         again:
65:         if (rslen == 0 && c == newline) {
66:             p += n;
67:             if (p < pend && (c = rb_enc_codepoint_len(p, pend, &n,
68:                 goto again;
69:             }
70:             while (p < pend && rb_enc_codepoint(p, pend, enc) == n
71:                 p += n;
72:             }
73:             p -= n;
74:         }
75:         if (c == newline &&
pry(main)> gist-method s.each_line
Gist created at https://gist.github.com/1079963
pry(main)>
```




[Login](#) [Signup for a GitHub Account](#)

[New Gist](#) [All Gists](#) [Back to GitHub](#)

gist: 1079963

[download](#)

Public Clone URL: <git://gist.github.com/1079963.git>

Embed All Files: [show embed](#)



Anonymous (owner)

Revisions

332546 Anonymous 8 minutes ago

C# [embed](#) [raw](#)

```
1 static VALUE
2 rb_str_each_line(int argc, VALUE *argv, VALUE str)
3 {
4     rb_encoding *enc;
5     VALUE rs;
6     unsigned int newline;
7     const char *p, *pend, *s, *ptr;
8     long len, rslen;
9     VALUE line;
10    int n;
11    VALUE orig = str;
12
13    if (argc == 0) {
14        rs = rb_rs;
15    }
16    else {
17        rb_scan_args(argc, argv, "01", &rs);
18    }
19    RETURN_ENUMERATOR(str, argc, argv);
20    if (NIL_P(rs)) {
21        rb_yield(str);
22        return orig;
23    }
24    str = rb_str_new4(str);
25    ptr = p = s = RSTRING_PTR(str);
26    pend = p + RSTRING_LEN(str);
27    len = RSTRING_LEN(str);
28    StringValue(rs);
29    if (rs == rb_default_rs) {
```



x1

```
pry(main)> require 'hello_world'
```

```
=> true
```

```
pry(main)>
```

```
pry(main)> require 'hello_world'
```

```
=> true
```

```
pry(main)> ls HelloWorld -M
```

```
□
```

```
pry(main)> ls HelloWorld -m
```

```
[:<, :<=, :>, :>=, :ancestors, :autoload, :autoload?, :class_eval,  
 :class_exec, :class_name, :class_variable_defined?, :class_variab  
le_get, :class_variable_set, :class_variables, :const_defined?, :c  
onst_get, :const_missing, :const_set, :constants, :include?, :incl  
uded_modules, :instance_method, :instance_methods, :method_defined  
, :module_eval, :module_exec, :name, :namespace_name, :private_cl  
ass_method, :private_instance_methods, :private_method_defined?, :  
protected_instance_methods, :protected_method_defined?, :public_cl  
ass_method, :public_instance_method, :public_instance_methods, :pu  
blic_method_defined?, :remove_class_variable, :say_hello, :syck_ya  
ml_as, :yaml_as, :yaml_tag_class_name, :yaml_tag_read_class]
```

```
pry(main)>
```



```
pry(main)> require 'hello_world'
```

```
=> true
```

```
pry(main)> ls HelloWorld -M
```

```
□
```

```
pry(main)> ls HelloWorld -m
```

```
[:<, :<=, :>, :>=, :ancestors, :autoload, :autoload?, :class_eval,  
 :class_exec, :class_name, :class_variable_defined?, :class_variab  
le_get, :class_variable_set, :class_variables, :const_defined?, :c  
onst_get, :const_missing, :const_set, :constants, :include?, :incl  
uded_modules, :instance_method, :instance_methods, :method_defined  
, :module_eval, :module_exec, :name, :namespace_name, :private_cl  
ass_method, :private_instance_methods, :private_method_defined?, :  
protected_instance_methods, :protected_method_defined?, :public_cl  
ass_method, :public_instance_method, :public_instance_methods, :pu  
blic_method_defined?, :remove_class_variable, :say_hello, :syck_ya  
ml_as, :yaml_as, :yaml_tag_class_name, :yaml_tag_read_class]
```

```
pry(main)> ls HelloWorld -mj
```

```
[:say_hello]
```

```
pry(main)>
```

```
pry(main)> require 'hello_world'
```

```
=> true
```

```
pry(main)> ls HelloWorld -M
```

```
□
```

```
pry(main)> ls HelloWorld -m
```

```
[:<, :<=, :>, :>=, :ancestors, :autoload, :autoload?, :class_eval,  
 :class_exec, :class_name, :class_variable_defined?, :class_variab  
le_get, :class_variable_set, :class_variables, :const_defined?, :c  
onst_get, :const_missing, :const_set, :constants, :include?, :incl  
uded_modules, :instance_method, :instance_methods, :method_defined  
, :module_eval, :module_exec, :name, :namespace_name, :private_cl  
ass_method, :private_instance_methods, :private_method_defined?, :  
protected_instance_methods, :protected_method_defined?, :public_cl  
ass_method, :public_instance_method, :public_instance_methods, :pu  
blic_method_defined?, :remove_class_variable, :say_hello, :syck_ya  
ml_as, :yaml_as, :yaml_tag_class_name, :yaml_tag_read_class]
```

```
pry(main)> ls HelloWorld -mj
```

```
[:say_hello]
```

```
pry(main)> HelloWorld.say_hello
```

```
hello world
```

```
=> nil
```

```
pry(main)>
```



x1

```
pry(main)> cd HelloWorld
```

```
pry(HelloWorld):1>
```




x1

```
pry(main)> cd HelloWorld
```

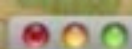
```
pry(HelloWorld):1> ls HelloWorld -mj
```

```
[:say_hello]
```

```
pry(HelloWorld):1> ls -mj
```

```
[:say_hello]
```

```
pry(HelloWorld):1>
```



```
pry(main)> cd HelloWorld
pry(HelloWorld):1> ls HelloWorld -mj
[:say_hello]
pry(HelloWorld):1> ls -mj
[:say_hello]
pry(HelloWorld):1> self
=> HelloWorld
pry(HelloWorld):1>
```

```
pry(main)> cd HelloWorld
pry(HelloWorld):1> ls HelloWorld -mj
[:say_hello]
pry(HelloWorld):1> ls -mj
[:say_hello]
pry(HelloWorld):1> self
=> HelloWorld
pry(HelloWorld):1> show-method say_hello
```

From: /Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/
gems/hello_world-0.0.2/lib/hello_world.rb @ line 2:
Number of lines: 3

```
def self.say_hello
  puts 'hello world'
end
pry(HelloWorld):1> |
```



```
pry(main)> cd HelloWorld
pry(HelloWorld):1> ls HelloWorld -mj
[:say_hello]
pry(HelloWorld):1> ls -mj
[:say_hello]
pry(HelloWorld):1> self
=> HelloWorld
pry(HelloWorld):1> show-method say_hello
```

```
From: /Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/
gems/hello_world-0.0.2/lib/hello_world.rb @ line 2:
Number of lines: 3
```

```
def self.say_hello
  puts 'hello world'
end
```

```
pry(HelloWorld):1> say_hello
hello world
=> nil
```

```
pry(HelloWorld):1>
```

```
pry(main)> cd HelloWorld
pry(HelloWorld):1> ls HelloWorld -mj
[:say_hello]
pry(HelloWorld):1> ls -mj
[:say_hello]
pry(HelloWorld):1> self
=> HelloWorld
pry(HelloWorld):1> show-method say_hello
```

```
From: /Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/
gems/hello_world-0.0.2/lib/hello_world.rb @ line 2:
Number of lines: 3
```

```
def self.say_hello
  puts 'hello world'
end
```

```
pry(HelloWorld):1> say_hello
hello world
=> nil
pry(HelloWorld):1> say_hello;
hello world
pry(HelloWorld):1>
```



✖1

```
pry(HelloWorld):1> gem-cd hello_world  
pry(HelloWorld):1>
```



x1

```
pry>HelloWorld):1> gem-cd hello_world
```

```
pry>HelloWorld):1> .pwd
```

```
/Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/gems/hello_world-0.0.2
```

```
pry>HelloWorld):1>
```



```
pry>HelloWorld):1> gem-cd hello_world
pry>HelloWorld):1> .pwd
/Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/gems/hello_world-0.0.2
pry>HelloWorld):1> .tree
.
|-- Manifest
|-- README.rdoc
|-- Rakefile
|-- hello_world.gemspec
`-- lib
    |-- hello_world.rb

1 directory, 5 files
pry>HelloWorld):1>
```

```
pry>HelloWorld):1> gem-cd hello_world
pry>HelloWorld):1> .pwd
/Users/joshuacheek/.rvm/gems/ruby-1.9.2-p180@pry-screencast/gems/hello_world-0.0.2
pry>HelloWorld):1> .tree
.
|-- Manifest
|-- README.rdoc
|-- Rakefile
|-- hello_world.gemspec
`-- lib
    |-- hello_world.rb

1 directory, 5 files
pry>HelloWorld):1> .cd lib
pry>HelloWorld):1> .cat hello_world.rb
module HelloWorld
  def self.say_hello
    puts 'hello world'
  end
end
pry>HelloWorld):1>
```

```
pry(HelloWorld):1> cd 12
pry(12):2> cd String
pry(String):3> cd Regexp
pry(Regexp):4> nesting
Nesting status:
```

```
--
0. main (Pry top level)
1. HelloWorld
2. 12
3. String
4. Regexp
```

```
pry(Regexp):4> cd
```

pry(HelloWorld):1> cd 12
pry(12):2> cd String
pry(String):3> cd Regexp
pry(Regexp):4> nesting

Nesting status:

--
0. main (Pry top level)
1. HelloWorld
2. 12
3. String
4. Regexp

pry(Regexp):4> cd ..

=> Regexp

pry(String):3> jump-to 0

=> HelloWorld

pry(main)>



```
pry(main)> def helo(name)
pry(main)* show-input
1: def helo(name)
pry(main)*
```



```
pry(main)> def helo(name)
pry(main)* show-input
1: def helo(name)
pry(main)*
```



```
pry(main)> def helo(name)
```

```
pry(main)* show-input
```

```
1: def helo(name)
```

```
pry(main)* !
```

```
Input buffer cleared!
```

```
pry(main)>
```

```
pry(main)> def hello(name)
pry(main)*   "Hello, #{name}"
pry(main)* show-input
1: def hello(name)
2:   "Hello, #{name}"
pry(main)* amend-line 2 "Hello, #{name}"
1: def hello(name)
2:   "Hello, #{name}"
pry(main)*
```




```
pry(main)> def hello(name)
pry(main)*   "Hello, #{name}"
pry(main)* show-input
1: def hello(name)
2:   "Hello, #{name}"
pry(main)* amend-line 2 "Hello, #{name}"
1: def hello(name)
2:   "Hello, #{name}"
pry(main)* end
=> nil
pry(main)>
```



```
pry(main)> def hello(name)
pry(main)*   "Hello, #{name}"
pry(main)* show-input
1: def hello(name)
2:   "Hello, #{name}"
pry(main)* amend-line 2 "Hello, #{name}"
1: def hello(name)
2:   "Hello, #{name}"
pry(main)* end
=> nil
pry(main)> hello "Viewer"
=> "Hello, Viewer"
pry(main)> |
```

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4 Adding to Rails

5 Your turn



```
$ pry -r ./stack.rb
pry(main)> stack = Stack.new
=> #<Stack:0x130c04>
pry(main)> show-doc stack.each
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8

signature: each()

Iterates across the stack

```
stack = Stack.new
stack.push 5
stack.push "abc"
array = []
stack.each { |element| array << element }
array # => ["abc", 5]
pry(main)>
```



```
pry(main)> stack.push 5
=> #<struct Stack::Node data=5, next=nil>
pry(main)> stack.push "abc"
=> #<struct Stack::Node data="abc", next=#<struct Stack::Node data=5, next=nil>>
pry(main)> a = []
=> []
pry(main)> stack.each { |e| a << e }
NoMethodError: undefined method `data' for nil:NilClass
from /Users/joshuacheek/pry-screencast/stack.rb:28:in `block in each'
pry(main)>
```

```
=> #<struct Stack::Node data="abc", next=#<struct Stack::Node data
=5, next=nil>>
pry(main)> a = []
=> []
pry(main)> stack.each { |e| a << e }
NoMethodError: undefined method `data' for nil:NilClass
from /Users/joshuacheek/pry-screencast/stack.rb:28:in `block in ea
ch'
pry(main)> cd stack
pry(#<Stack:0x7123fc>):1> show-method each
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 7

```
def each
  crnt = @head
  loop do
    yield crnt.data
    crnt = crnt.next
  end
end
pry(#<Stack:0x7123fc>):1>
```

pry(#<Stack:0x7123fc>):1> edit-method each

```
12     @head = @head.next
13     data
14 end
15
16 ##
17 # Iterates across the stack
18 #
19 #   stack = Stack.new
20 #   stack.push 5
21 #   stack.push "abc"
22 #   array = []
23 #   stack.each { |element| array <
24 #   array # => ["abc", 5]
25 def each
26     crnt = @head
27     loop do
28         yield crnt.data
29         crnt = crnt.next
```

```
12 @head = @head.next
13 data
14 end
15
16 ##
17 # Iterates across the stack
18 #
19 # stack = Stack.new
20 # stack.push 5
21 # stack.push "abc"
22 # array = []
23 # stack.each { |element| array << element }
24 # array #=> ["abc", 5]
25 def each
26   crnt = @head
27   loop do
28     yield crnt.data
29     crnt = crnt.next
30   end
31 end
32 end
33
```



```
12 @head = @head.next
13 data
14 end
15
16 ##
17 # Iterates across the stack
18 #
19 # stack = Stack.new
20 # stack.push 5
21 # stack.push "abc"
22 # array = []
23 # stack.each { |element| array << element }
24 # array # => ["abc", 5]
25 def each
26   crnt = @head
27   loop do
28     binding.pry
29     yield crnt.data
30     crnt = crnt.next
31   end
32 end
33 end
```

X1

```
pry(#<Stack:0x7123fc>):1> edit-method each  
pry(#<Stack:0x7123fc>):1>
```

```
pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> show-method each
```

```
From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8
```

```
def each
  crnt = @head
  loop do
    binding.pry
    yield crnt.data
    crnt = crnt.next
  end
end
pry(#<Stack:0x7123fc>):1>
```

```
pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> show-method each
```

```
From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8
```

```
def each
  crnt = @head
  loop do
    binding.pry
    yield crnt.data
    crnt = crnt.next
  end
end
pry(#<Stack:0x7123fc>):1>
```



```
pry(#<Stack:0x7123fc>):1> a = []
```

```
=> []
```

```
pry(#<Stack:0x7123fc>):1> each { |e| a << e }
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 28 in Stack#each:

```
23:  #   stack.each { |element| array << element }
24:  #   array # => ["abc", 5]
25:  def each
26:    crnt = @head
27:    loop do
=> 28:      binding.pry
29:      yield crnt.data
30:      crnt = crnt.next
31:    end
32:  end
33: end
```

```
pry(#<Stack:0x7123fc>):2>
```



X1

```
pry(#<Stack:0x7123fc>):2>
```

```
pry(#<Stack:0x7123fc>):2> whereami
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 28 in Stack#each:

```
23:  #   stack.each { |element| array << element }
24:  #   array # => ["abc", 5]
25:  def each
26:    crnt = @head
27:    loop do
=> 28:      binding.pry
29:      yield crnt.data
30:      crnt = crnt.next
31:    end
32:  end
33: end
```

```
pry(#<Stack:0x7123fc>):2>
```

```
pry(#<Stack:0x7123fc>):2> whereami
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 28 in Stack#each:

```
23:  #  stack.each { |element| array << element }
24:  #  array # => ["abc", 5]
25:  def each
26:    crnt = @head
27:    loop do
=> 28:      binding.pry
29:      yield crnt.data
30:      crnt = crnt.next
31:    end
32:  end
33: end
```

```
pry(#<Stack:0x7123fc>):2> crnt.data
```

```
=> "abc"
```

```
pry(#<Stack:0x7123fc>):2>
```



```
31:     end
32:   end
33: end
```

```
pry(#<Stack:0x7123fc>):2> crnt.data
```

```
=> 5
```

```
pry(#<Stack:0x7123fc>):2> cd ..
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 28 in Stack#each:

```
23:   #   stack.each { |element| array << element }
24:   #   array # => ["abc", 5]
25:   def each
26:     crnt = @head
27:     loop do
=> 28:       binding.pry
29:       yield crnt.data
30:       crnt = crnt.next
31:     end
32:   end
33: end
```

```
pry(#<Stack:0x7123fc>):2>
```

```
pry(#<Stack:0x7123fc>):2> crnt.data
```

```
=> 5
```

```
pry(#<Stack:0x7123fc>):2> cd ..
```

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 28 in Stack#each:

```
23:  #   stack.each { |element| array << element }
24:  #   array # => ["abc", 5]
25:  def each
26:    crnt = @head
27:    loop do
=> 28:      binding.pry
29:      yield crnt.data
30:      crnt = crnt.next
31:    end
32:  end
33: end
```

```
pry(#<Stack:0x7123fc>):2> crnt.data
```

NoMethodError: undefined method `data' for nil:NilClass
from (pry):14:in `block in each'

```
pry(#<Stack:0x7123fc>):2>
```

<Stack:0x7123fc>).1> edit-method each

```
13     data
14 end
15
16 ##
17 # Iterates across the stack
18 #
19 #   stack = Stack.new
20 #   stack.push 5
21 #   stack.push "abc"
22 #   array = []
23 #   stack.each { |element| array << element }
24 #   array # => ["abc", 5]
25 def each
26   crnt = @head
27   loop do
28     binding.pry
29     yield crnt.data
30     crnt = crnt.next
31   end
end
```

```
12 @head = @head.next
13 data
14 end
15
16 ##
17 # Iterates across the stack
18 #
19 # stack = Stack.new
20 # stack.push 5
21 # stack.push "abc"
22 # array = []
23 # stack.each { |element| array << element }
24 # array #=> ["abc", 5]
25 def each
26   crnt = @head
27   loop do
28     break unless crnt
29     yield crnt.data
30     crnt = crnt.next
31   end
32 end
33 end
```


pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> |

pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> show-method each

From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8

```
def each
  crnt = @head
  loop do
    break unless crnt
    yield crnt.data
    crnt = crnt.next
  end
end
```

pry(#<Stack:0x7123fc>):1>

```
pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> show-method each
```

```
From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8
```

```
def each
  crnt = @head
  loop do
    break unless crnt
    yield crnt.data
    crnt = crnt.next
  end
end
```

```
pry(#<Stack:0x7123fc>):1> a = []
=> []
pry(#<Stack:0x7123fc>):1> each { |e| a << e }
=> nil
pry(#<Stack:0x7123fc>):1>
```

```
pry(#<Stack:0x7123fc>):1> edit-method each
pry(#<Stack:0x7123fc>):1> show-method each
```

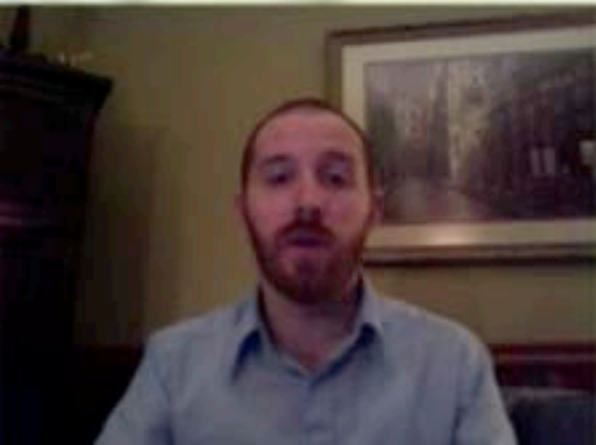
```
From: /Users/joshuacheek/pry-screencast/stack.rb @ line 25:
Number of lines: 8
```

```
def each
  crnt = @head
  loop do
    break unless crnt
    yield crnt.data
    crnt = crnt.next
  end
end
```

```
pry(#<Stack:0x7123fc>):1> a = []
=> []
pry(#<Stack:0x7123fc>):1> each { |e| a << e }
=> nil
pry(#<Stack:0x7123fc>):1> a
=> ["abc", 5]
pry(#<Stack:0x7123fc>):1>
```


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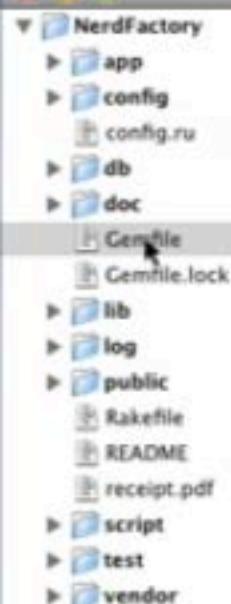


- ▼ NerdFactory
 - ▶ app
 - ▶ config
 - config.ru
 - ▶ db
 - ▶ doc
 - Gemfile
 - Gemfile.lock
 - ▶ lib
 - ▶ log
 - ▶ public
 - Rakefile
 - README
 - receipt.pdf
 - ▶ script
 - ▶ test
 - ▶ vendor



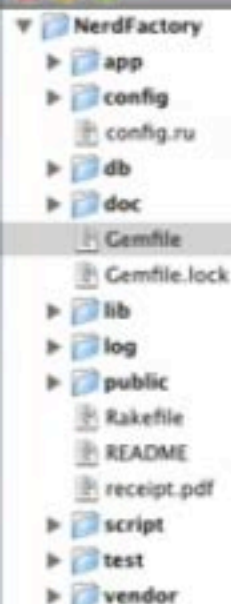
TextMate

macromates.com



x Gemfile

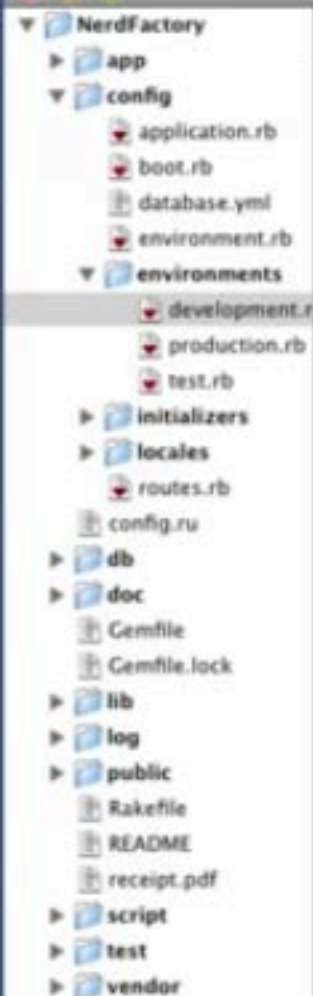
```
1 source 'http://rubygems.org'
2
3 gem 'rails', '3.0.7'
4 gem 'sqlite3-ruby', :require => 'sqlite3'
5
6 # Bundle the extra gems:
7 gem 'devise'
8 gem 'will_paginate'
9 gem 'paperclip'
10
11 # Bundle gems for certain environments:
12 group :test do
13   gem 'factory_girl_rails'
14   gem 'mocha', :require => nil
15 end
16
```

x Gemfile

```
1 source 'http://rubygems.org'
2
3 gem 'rails', '3.0.7'
4 gem 'sqlite3-ruby', :require => 'sqlite3'
5 gem "pry", :group => :development
6
7 # Bundle the extra gems:
8 gem 'devise'
9 gem 'will_paginate'
10 gem 'paperclip'
11
12 # Bundle gems for certain environments:
13 group :test do
14   gem 'factory_girl_rails'
15   gem 'mocha', :require => nil
16 end
17
```

Using thor (0.14.6)
Using railties (3.0.7)
Using factory_girl_rails (1.0.1)
Using sexp_processor (3.0.5)
Using ruby_parser (2.0.6)
Using method_source (0.6.0)
Using mocha (0.9.12)
Using paperclip (2.3.11)
Using slop (1.9.1)
Using pry (0.9.2)
Using rails (3.0.7)
Using sqlite3 (1.3.3)
Using sqlite3-ruby (1.3.3)
Using will_paginate (2.3.15)
Updating .gem files in vendor/cache
* coderay-0.9.8.gem
* sexp_processor-3.0.5.gem
* ruby_parser-2.0.6.gem
* method_source-0.6.0.gem
* slop-1.9.1.gem
* pry-0.9.2.gem



x Gemfile x development.rb

```
11
12 # Show full error reports and disable caching
13 config.consider_all_requests_local      = true
14 config.action_view.debug_rjs           = true
15 config.action_controller.perform_caching = false
16
17 # Don't care if the mailer can't send
18 config.action_mailer.raise_delivery_errors = false
19
20 config.active_support.deprecation = :log
21 end
22
23 silence_warnings do
24   require 'pry'
25   IRB = Pry
26 end
27
28
29
30
31
```

rails console
Loading development environment (Rails 3.0.7)
pry(main)>



x Gemfile x development.rb x category.rb

```
1 class Category < ActiveRecord::Base
2   has_many :products, :dependent => :destroy
3 end
4
```

rails console
Loading development environment (Rails 3.0.7)
pry(main)> cd Category
pry(#<Class:0x25c4a70>):1> ls -m

```
table_name=, :table_name_prefix, :table_name_prefix=, :table_name_prefix?, :table_name_suffix, :table_name_suffix=, :table_name_suffix?, :time_zone_aware_attributes, :time_zone_aware_attributes=, :timestamped_migrations, :timestamped_migrations=, :to_adapter, :transaction, :uncached, :undefine_attribute_methods, :unscoped, :update, :update_all, :update_counters, :valid_keys_for_belongs_to_association, :valid_keys_for_belongs_to_association=, :valid_keys_for_has_and_belongs_to_many_association, :valid_keys_for_has_and_belongs_to_many_association=, :valid_keys_for_has_many_association, :valid_keys_for_has_many_association=, :valid_keys_for_has_one_association, :valid_keys_for_has_one_association=, :validate, :validate_on_create, :validate_on_update, :validates, :validates_acceptance_of, :validates_associated, :validates_attachment_content_type, :validates_attachment_presence, :validates_attachment_size, :validates_attachment_thumbnails, :validates_confirmation_of, :validates_each, :validates_exclusion_of, :validates_format_of, :validates_inclusion_of, :validates_length_of, :validates_numericality_of, :validates_presence_of, :validates_size_of, :validates_uniqueness_of, :validates_with, :validators, :validators_on, :verify_active_connections!, :where, :write_inheritable_array, :write_inheritable_attribute, :write_inheritable_hash, :yaml_tag_subclasses?]
```

```
pry(#<Class:0x25c4a70>):1>
```



```
has_and_belongs_to_many_association, :valid_keys_for_has_and_belongs_to_many_association=, :valid_keys_for_has_many_association, :valid_keys_for_has_many_association=, :valid_keys_for_has_one_association, :valid_keys_for_has_one_association=, :validate, :validate_on_create, :validate_on_update, :validates, :validates_acceptance_of, :validates_associated, :validates_attachment_content_type, :validates_attachment_presence, :validates_attachment_size, :validates_attachment_thumbnails, :validates_confirmation_of, :validates_each, :validates_exclusion_of, :validates_format_of, :validates_inclusion_of, :validates_length_of, :validates_numericality_of, :validates_presence_of, :validates_size_of, :validates_uniqueness_of, :validates_with, :validators, :validators_on, :verify_active_connections!, :where, :write_inheritable_array, :write_inheritable_attribute, :write_inheritable_hash, :yaml_tag_subclasses?]

pry(#<Class:0x25c4a70>):1> ls -M
[:_one_time_conditions_valid_46?, :_one_time_conditions_valid_48?, :_one_time_conditions_valid_52?, :_one_time_conditions_valid_56?, :_one_time_conditions_valid_58?, :autosave_associated_records_for_products, :has_many_dependent_destroy_for_products, :product_ids, :product_ids=, :products, :products=, :validate_associated_records_for_products]

pry(#<Class:0x25c4a70>):1>
```



```
of, :validates_associated, :validates_attachment_content_type, :va
validates_attachment_presence, :validates_attachment_size, :validate
s_attachment_thumbnails, :validates_confirmation_of, :validates_ea
ch, :validates_exclusion_of, :validates_format_of, :validates_incl
usion_of, :validates_length_of, :validates_numericality_of, :valid
ates_presence_of, :validates_size_of, :validates_uniqueness_of, :v
alidates_with, :validators, :validators_on, :verify_active_connect
ions!, :where, :write_inheritable_array, :write_inheritable_attrib
ute, :write_inheritable_hash, :yaml_tag_subclasses?]
pry(#<Class:0x25c4a70>):1> ls -M
[:_one_time_conditions_valid_46?, :_one_time_conditions_valid_48?,
:_one_time_conditions_valid_52?, :_one_time_conditions_valid_56?,
:_one_time_conditions_valid_58?, :autosave_associated_records_for
_products, :has_many_dependent_destroy_for_products, :product_ids,
:product_ids=, :products, :products=, :validate_associated_record
s_for_products]
pry(#<Class:0x25c4a70>):1> ls -i
[:@_create_callbacks, :@_destroy_callbacks, :@_save_callbacks, :@_
update_callbacks, :@_validate_callbacks, :@columns, :@inheritable_
attributes, :@parent_name, :@quoted_primary_key, :@quoted_table_na
me]
pry(#<Class:0x25c4a70>):1>
```



```
_products, :has_many_dependent_destroy_for_products, :product_ids,  
:product_ids=, :products, :products=, :validate_associated_record  
s_for_products]
```

```
pry(#<Class:0x25c4a70>):1> ls -i
```

```
[:@_create_callbacks, :@_destroy_callbacks, :@_save_callbacks, :@_  
update_callbacks, :@_validate_callbacks, :@columns, :@inheritable_  
attributes, :@parent_name, :@quoted_primary_key, :@quoted_table_na  
me]
```

```
pry(#<Class:0x25c4a70>):1> @_destroy_callbacks
```

```
=> [#<ActiveSupport::Callbacks::Callback:0x25c4138
```

```
  @callback_id=46,
```

```
  @chain=[...],
```

```
  @compiled_options=[],
```

```
  @filter=:has_many_dependent_destroy_for_products,
```

```
  @kind=:before,
```

```
  @klass=
```

```
    Category(id: integer, name: string, created_at: datetime, updat  
ed_at: datetime),
```

```
    @options={:if=>[], :unless=>[]},
```

```
    @per_key={:if=>[], :unless=>[]},
```

```
    @raw_filter=:has_many_dependent_destroy_for_products>]
```

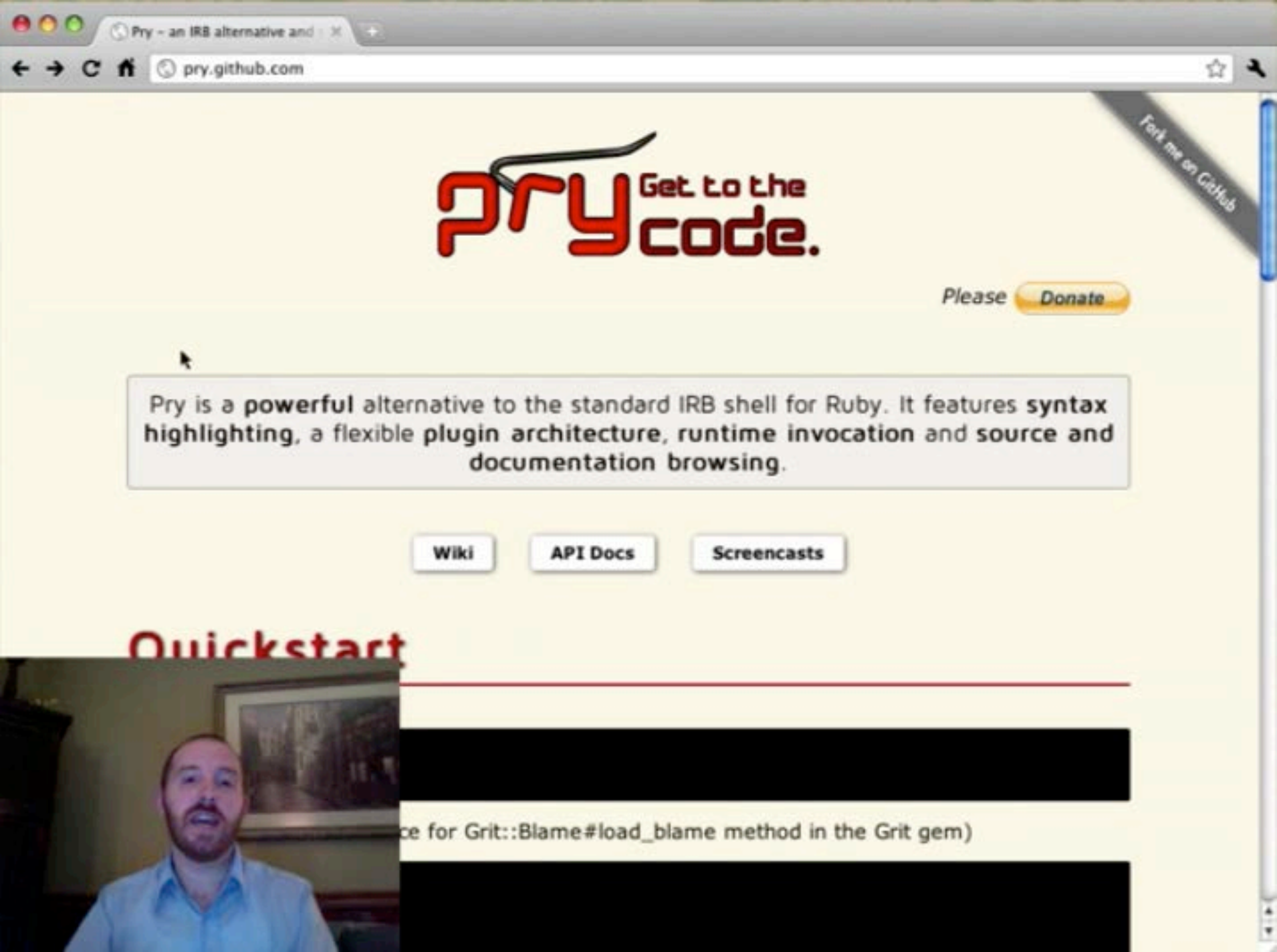
```
pry(#<Class:0x25c4a70>):1>
```

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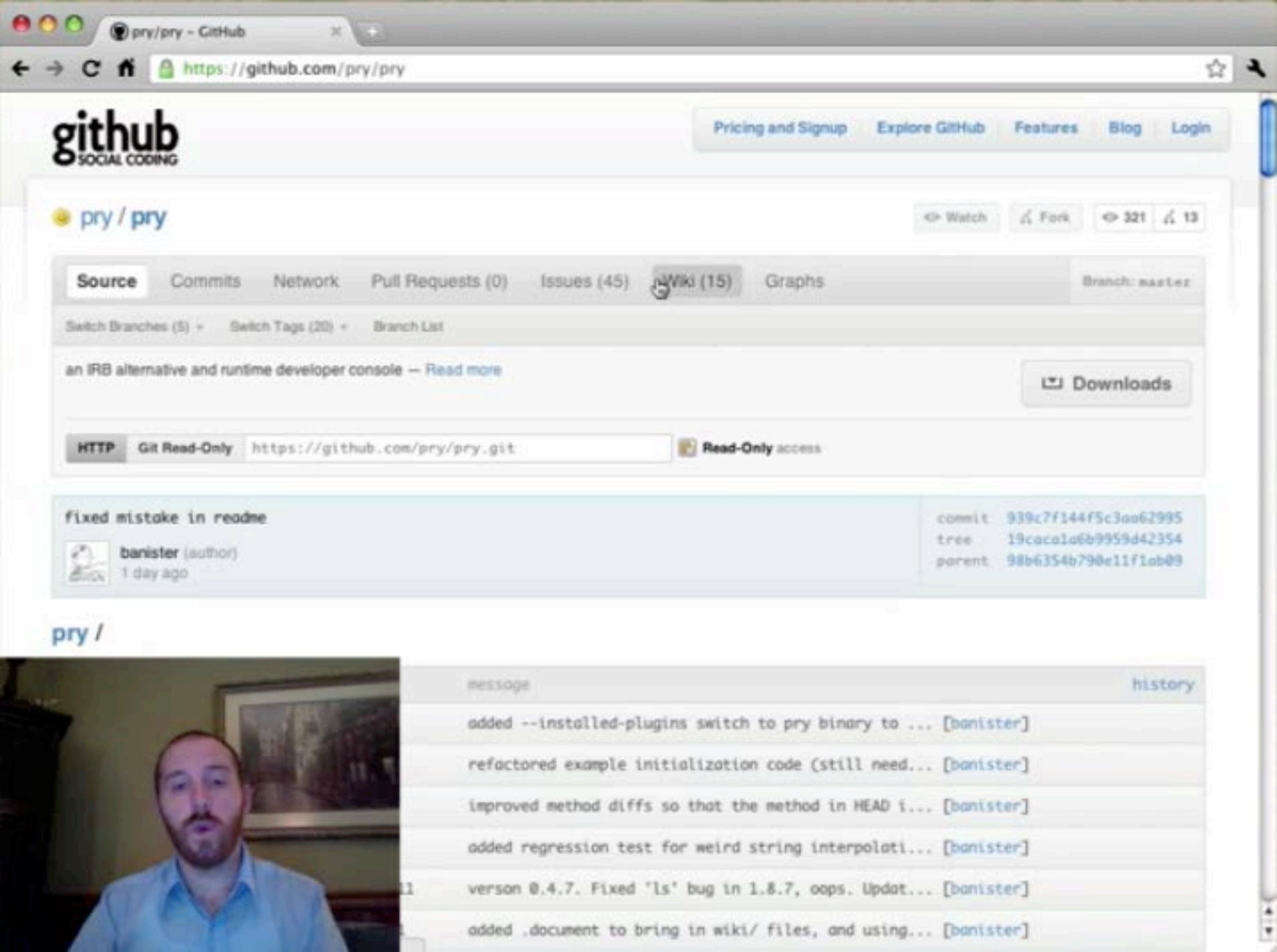
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Pry is a **powerful** alternative to the standard IRB shell for Ruby. It features **syntax highlighting**, a flexible **plugin architecture**, **runtime invocation** and **source and documentation browsing**.

[Wiki](#)[API Docs](#)[Screencasts](#)

Quickstart

ce for Grit::Blame#load_blame method in the Grit gem)



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Git Read-Only

<https://github.com/pry/pry.git>



Read-Only access

fixed mistake in readme



banister (author)

1 day ago

commit: [939c7f144f5c3aa62995](#)

tree: [19caca1a6b9959d42354](#)

parent: [98b6354b790e11f1ab09](#)

pry /

message

history

added --installed-plugins switch to pry binary to ... [banister]

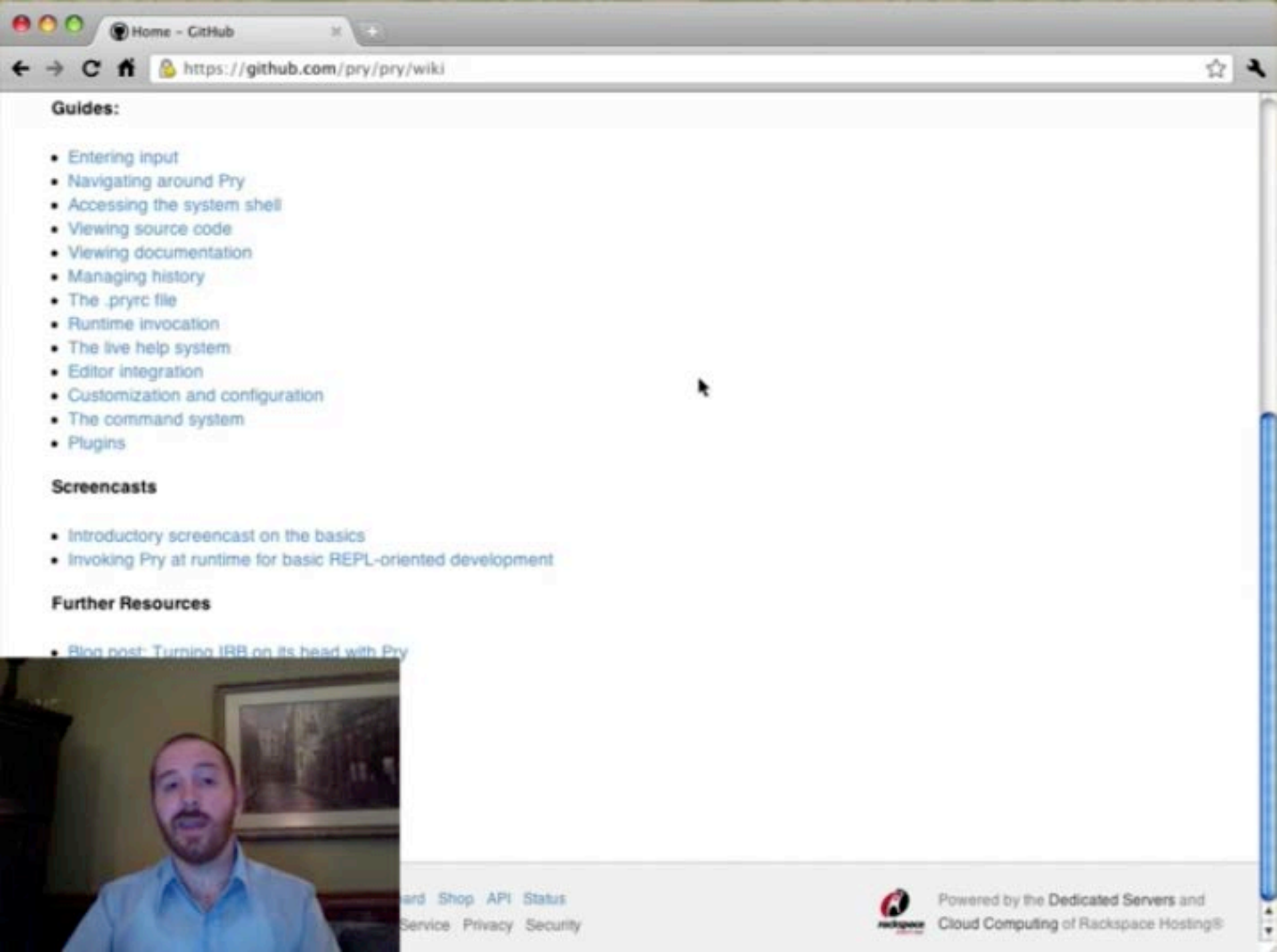
refactored example initialization code (still need... [banister]

improved method diffs so that the method in HEAD i... [banister]

added regression test for weird string interpolati... [banister]

version 0.4.7. Fixed 'ls' bug in 1.8.7, oops. Updat... [banister]

added .document to bring in wiki/ files, and using... [banister]



Guides:

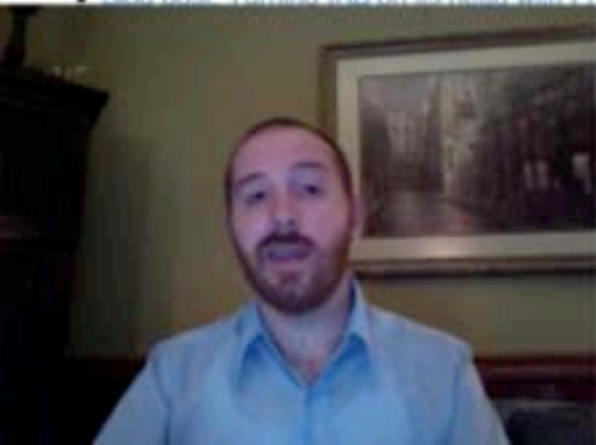
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- [Customization and configuration](#)
- [The command system](#)
- [Plugins](#)

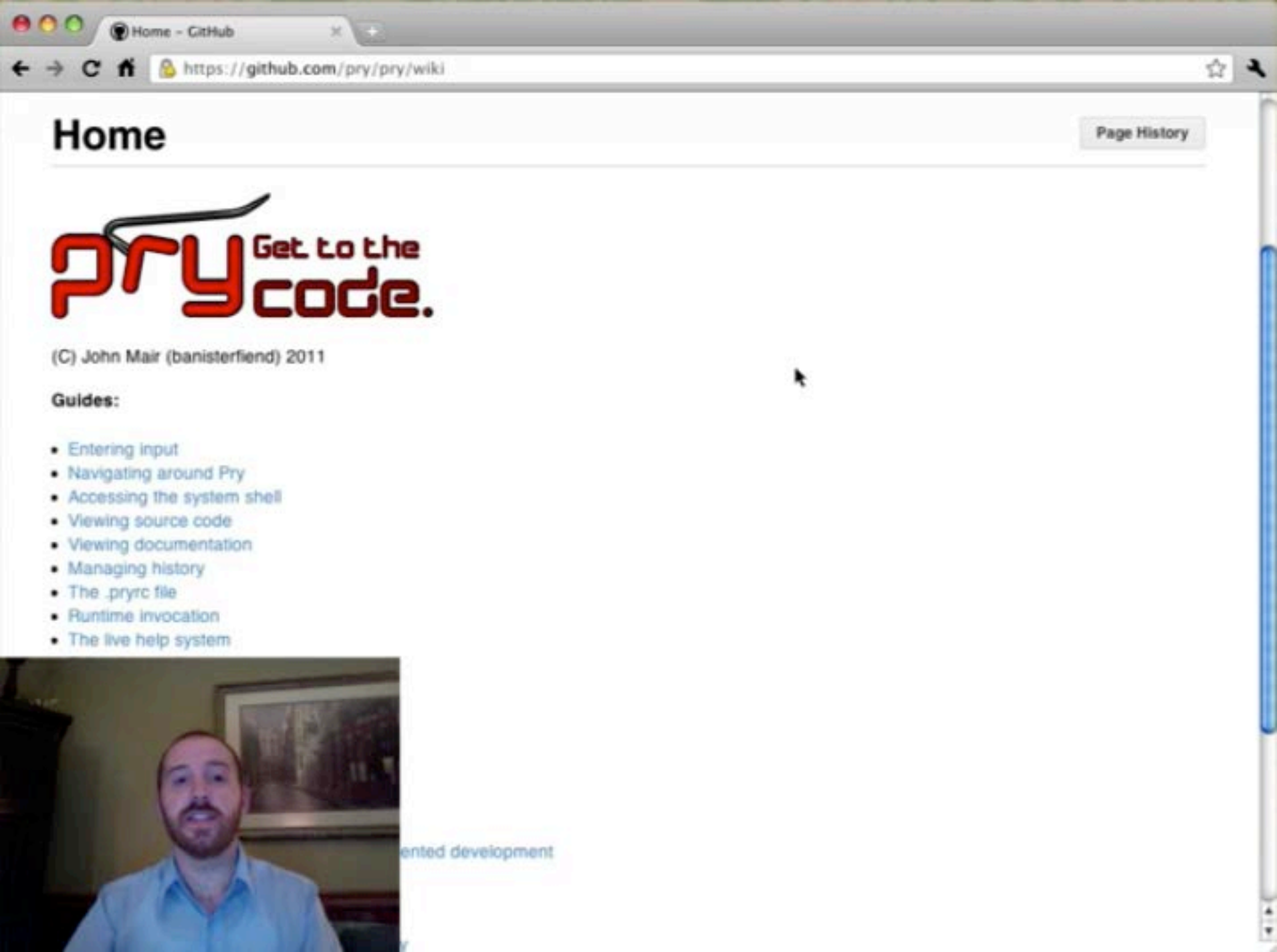
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- [Invoking Pry at runtime for basic REPL-oriented development](#)

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- [Blog post: Turning IRB on its head with Pry](#)





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- [Runtime invocation](#)
- [The live help system](#)



ented development



Style



Emoticons



Encoding



Mark



Clear

Search Messages

Search

(no chat topic is set)

pry

7 members

banisterfiend

like you hvae to 'track' a method's changes

10:02AM

in case they edit it using edit-method

10:02AM

so there'll be a hook that's executed at the start of every invocation of the re() method

10:02AM

that updates source location info for tracked methods

10:02AM

yeah all this stuff is non trivial

10:03AM

it's getting messy

10:03AM

so

10:03AM

it's imp't to get pry_core out there

10:03AM

:)

10:03AM

rohgleeson

heh yep

10:03AM

joshuacheek

OMG, HI EVERYBODY!

10:03AM

banisterfiend

since i do ultimately want this stuff in the 'pry' gem

10:03AM

joshuacheek: sup cheek

10:03AM



Your Turn

- 1 Add Pry to your app
- 2 Discover with Pry
- 3 Swat that bug!



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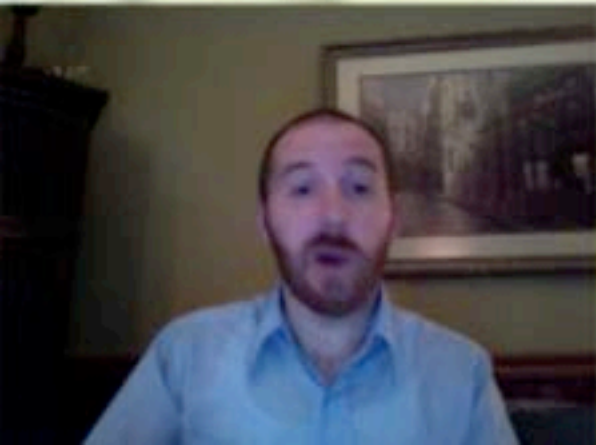
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Pry Screencast


Joshua Cheek

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