

**GEMS YOU SHOULD
NEVER LEAVE
DEVELOPMENT
WITHOUT
DAVID UNDERWOOD**



BEFORE WE START

DEVELOPMENT GEMS!

QUIET_ASSETS

Makes assets shut the hell up in development

```
Started GET "/assets/application.css?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery_ujs.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery.ui.mouse.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery.ui.sortable.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery.ui.widget.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/jquery.ui.core.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/turbolinks.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/bootstrap/tab.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/bootstrap/alert.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/cocoon.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
Started GET "/assets/tinymce/preinit.js?body=1" for 127.0.0.1 at 2014-07-21 22:38:53 -0400
```

BETTER_ERRORS

Adds a much better error page for development.

Also a REPL if you add binding_of_caller too!

RuntimeError at /
127.0.0.1:3000

RuntimeError at /
boom

Application Frames All Frames

A HomeController#index app/controllers/home_controller.rb, line 3

HomeController#send_action actionpack (4.0.0) lib/action_controller/metal/implicit_render.rb, line 4

HomeController#process_action actionpack (4.0.0) lib/abstract_controller/base.rb, line 189

HomeController#process_action actionpack (4.0.0) lib/action_controller/metal/rendering.rb, line 10

block in HomeController#process_action actionpack (4.0.0) lib/abstract_controller/callbacks.rb, line 18

HomeController#_run__4018816283576875081__process_action__callbacks activesupport (4.0.0) lib/active_support/callbacks.rb, line 383

HomeController#run_callbacks activesupport (4.0.0) lib/active_support/callbacks.rb, line 80

HomeController#process_action actionpack (4.0.0) lib/abstract_controller/callbacks.rb, line 17

HomeController#process_action actionpack (4.0.0) lib/action_controller/metal/rescue.rb, line 29

block in HomeController#process_action actionpack (4.0.0) lib/action_controller/metal/instrumentation.rb, line 31

block in ActiveSupport::Notifications.instrument

app/controllers/home_controller.rb index

```
1 class HomeController < ApplicationController
2   def index
3     raise "boom"
4   end
5 end
```

>> def foo
.. "better errors".upcase
.. end
=> nil
>>

▲ This is a live shell. Type in here.

Request info

Request parameters {"controller"=>"home", "action"=>"index"}

Rack session #<ActionDispatch::Request::Session:0x7f8623453728 not yet loaded>

Local Variables

Instance Variables

@_routes nil

PRY + PRY-DEBUGGER

Pry is a great alternative to IRB.

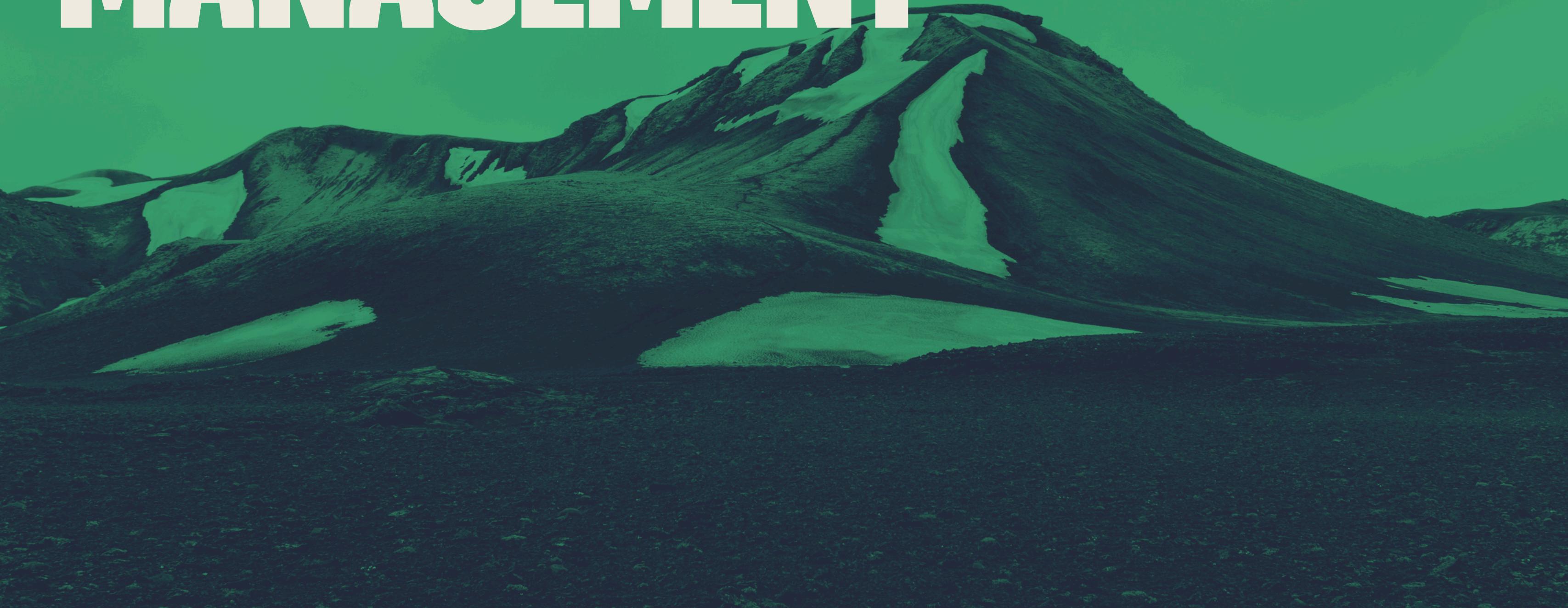
Pry-debugger adds your favourite debug commands:

- » step
- » next
- » continue
- » finish

Allows you to set breakpoints too.

**OK, LET'S TALK
PRODUCTION**

ENVIRONMENT MANAGEMENT



FIGARO

```
# Gemfile
gem 'figaro'

# config/application.yml
pusher_app_id: "2954"
pusher_key: "7381a978f7dd7f9a1117"
pusher_secret: "abdc3b896a0ffb85d373"

production:
  pusher_app_id: "5112"
  pusher_key: "ad69caf9a44dcac1fb28"
  pusher_secret: "83ca7aa160fedaf3b350"

# Anywhere
Figaro.env.pusher_key
```

DOTENV

```
# Gemfile
gem 'dotenv'

# config.ru
require 'dotenv'
Dotenv.load

# .env
PUSHER_APP_ID=2954
PUSHER_KEY=7381a978f7dd7f9a1117
PUSHER_SECRET=abdc3b896a0ffb85d373

# Anywhere
ENV['PUSHER_KEY']
```

ERROR REPORTING



EXCEPTION_NOTIFICATION

```
# Gemfile
gem 'exception_notification'

# config/environments/production.rb
Whatever::Application.config.middleware.use ExceptionNotification::Rack,
email: {
  email_prefix: "[Oh Shii] ",
  sender_address: %{"notifier" <notifier@example.com>} ,
  exception_recipients: %w{exceptions@example.com}
}
```

EXCEPTION NOTIFICATION SERVICES

- » Airbrake
- » Errbit
- » Honeybadger
- » Rollbar
- » Lots more

Ruby Toolbox has a great list: https://www.ruby-toolbox.com/categories/exception_notification

APPLICATION SERVER



WHAT'S AVAILABLE?

- » WEBrick
- » Thin
- » Unicorn
- » Passenger
- » Puma

Go with Unicorn unless you have a reason not to

Don't use WEBrick in production

A photograph of a person from behind, sitting on a dark wooden bench. They are wearing a light-colored hoodie and dark jeans. Their hands are resting on a laptop keyboard. The background is a blurred outdoor scene with greenery and a building.

**ANYTHING ELSE?
HOW ABOUT...
MIDDLEWARE!**

RACK-CANONICAL-HOST

Redirect all requests to a specific host. Can also be used to force SSL. Great for custom domains on Heroku

```
# Gemfile
gem 'rack-canonical-host'

# config.ru (Rails example)
require ::File.expand_path('../config/environment', __FILE__)

use Rack::CanonicalHost, ENV['CANONICAL_HOST'], force_ssl: true
run YourRailsApp::Application
```

RACK-ATTACK

Connection whitelists, blacklists, and throttling.
Stops misbehaving clients from even hitting your app
code

```
# Gemfile
gem 'rack-attack'

# config/application.rb
config.middleware.use Rack::Attack

# config/initializers/rack-attack.rb
class Rack::Attack
  # your custom configuration...
end
```

RACK-GOOGLE-ANALYTICS

Adds an analytics code to every page of your app

```
# Gemfile
gem 'rack-google-analytics'

# config.ru
use Rack::GoogleAnalytics, tracker: 'UA-xxxxxx-x'
```

HEROKU



RAILS_12FACTOR

Tells Rails to serve assets. This is usually delegated to the routing webserver (e.g. nginx or apache)

Redirects logs to stdout rather than logfiles

Stops Heroku complaining every time you deploy

```
# Gemfile
ruby '2.0'
gem 'rails_12factor'
```

PERSONAL FAVOURITES?

THANKS!