Rails3



WHO AM !?

matt aimonetti

WHO AM!?

matt aimonetti

Ted Han

WHO AM !?

matt aimonetti

Ted Han

Ruby Addict

WHO AM !?

matt aimonetti

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Ruby Addict

Merb

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matt aimonetti

Ted Han

Ruby Addict

Merb

MacRuby

WHO AM !?

matt aimonetti

Rails3





MERGE





Wednesday, May 6, 2009







Theorem #1

Languages influence human thought, more than you think

oscon 2003



Summary II

Good programming languages help you to

- program better
- think smarter
- finish your job quicker



How to Reduce Stress in Programming

- Principle of Least Surprise
- Principle of Succinctness
- Principle of Human Interface



Time is Money

We can approximate our stress by the time we spent.

- The quicker we program, the more we can program.
- The faster we finish our job, the better programmer we can be.
- Succinctness is Power
 - http://www.paulgraham.com/power.html
- Place your burden to machine's shoulders







Wednesday, May 6, 2009

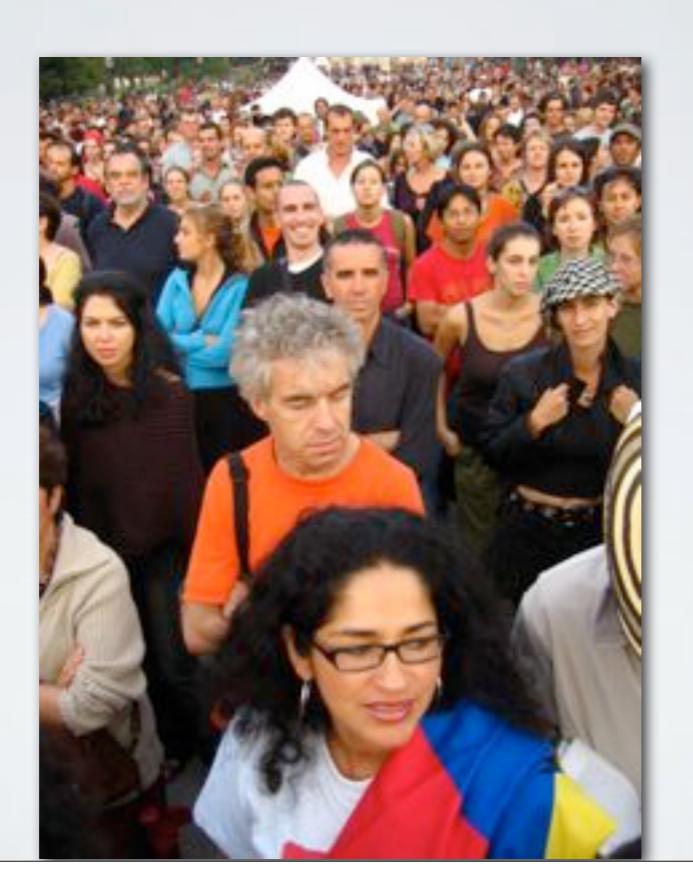
RUBY ON RAILS



Convention over Configuration

Don't repeat yourself

LARGE ADOPTION



SCHISM





Performance

Agnosticism



Adobe Wikimedia sproutcore/Apple AT&T/yellowpages.com powerset/microsoft

SPLIT RUBY COMMUNITY



DRAMA



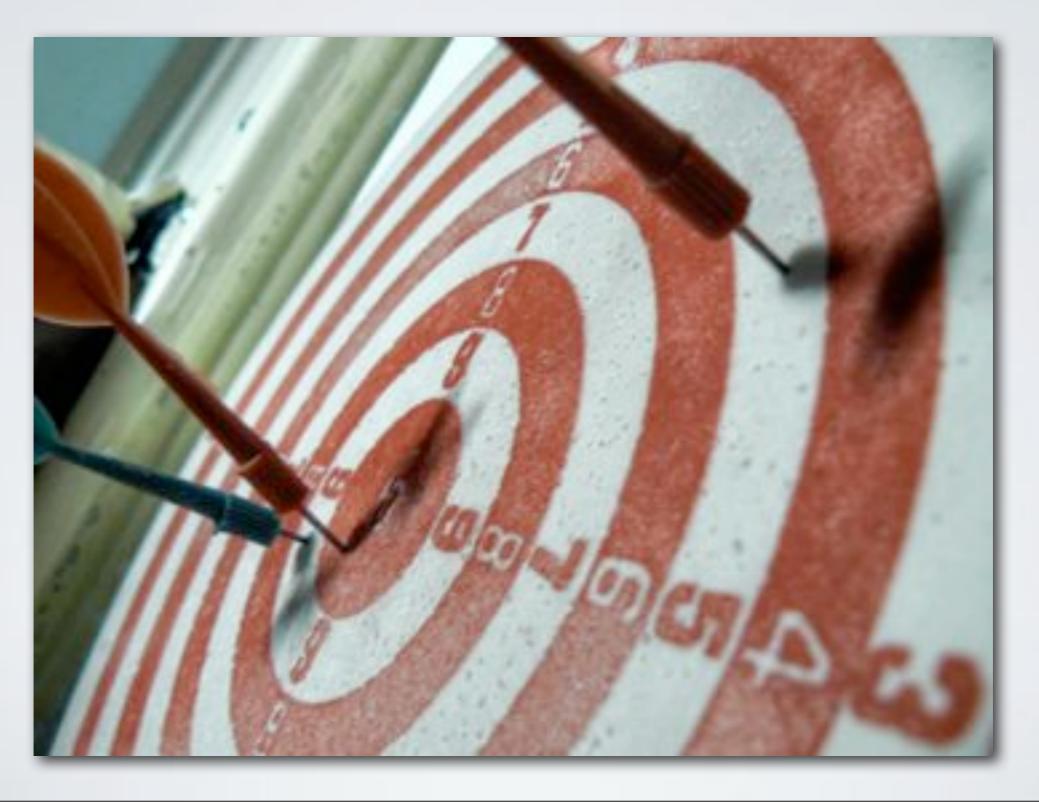
SAT DOWN & TALKED



DIFFERENT PERSPECTIVES



SAME GOAL





MERGE









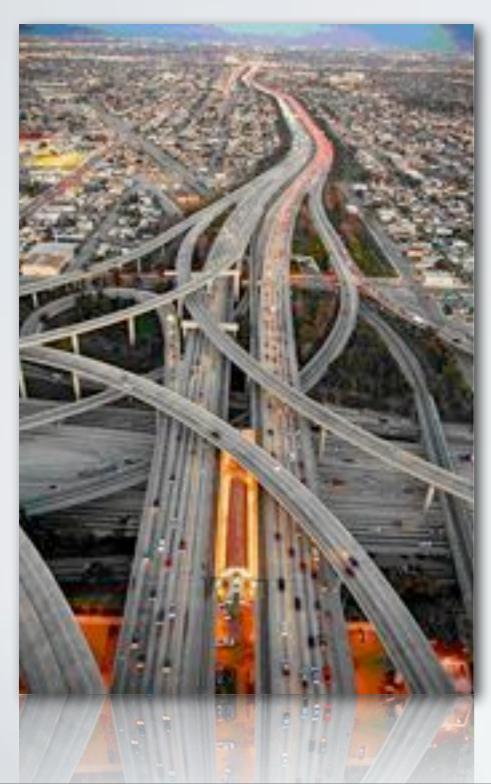


WHAT AREYOU GOING TO GET

improved performance

increased modularity

agnosticism



public API

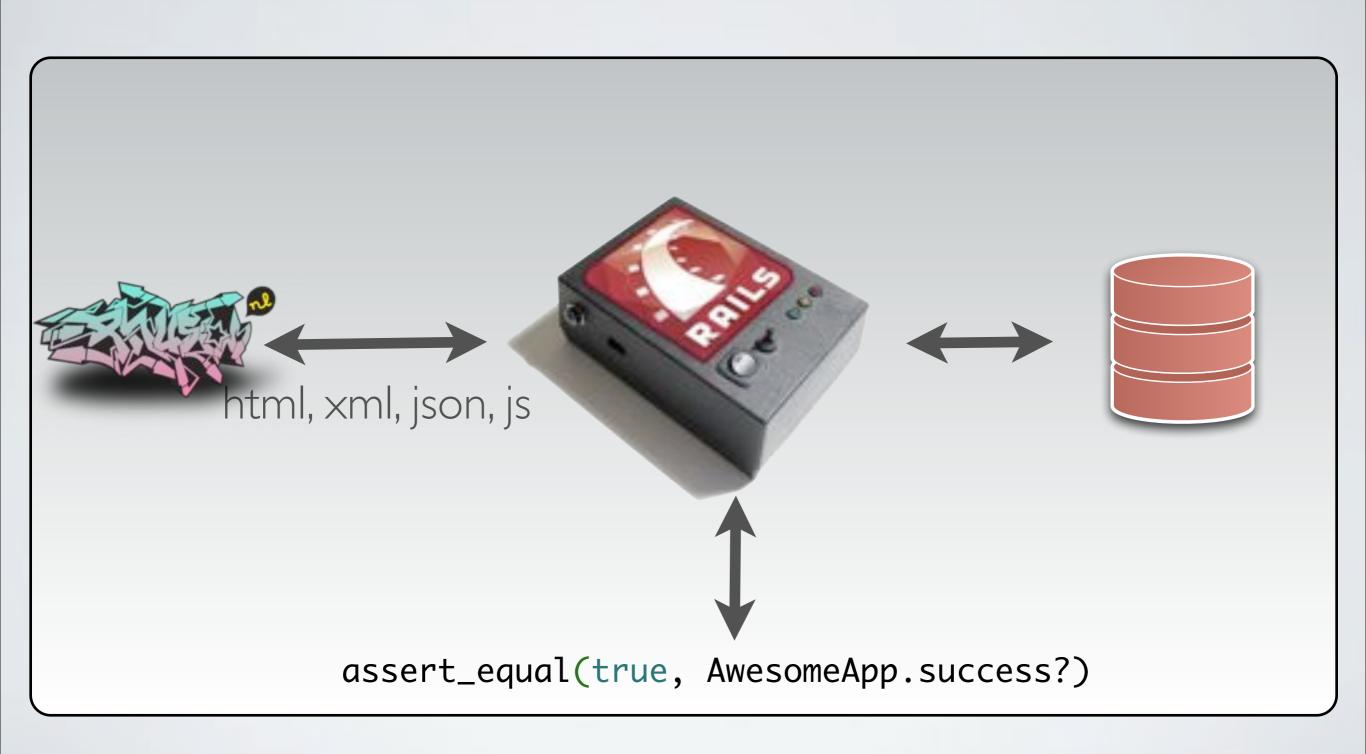


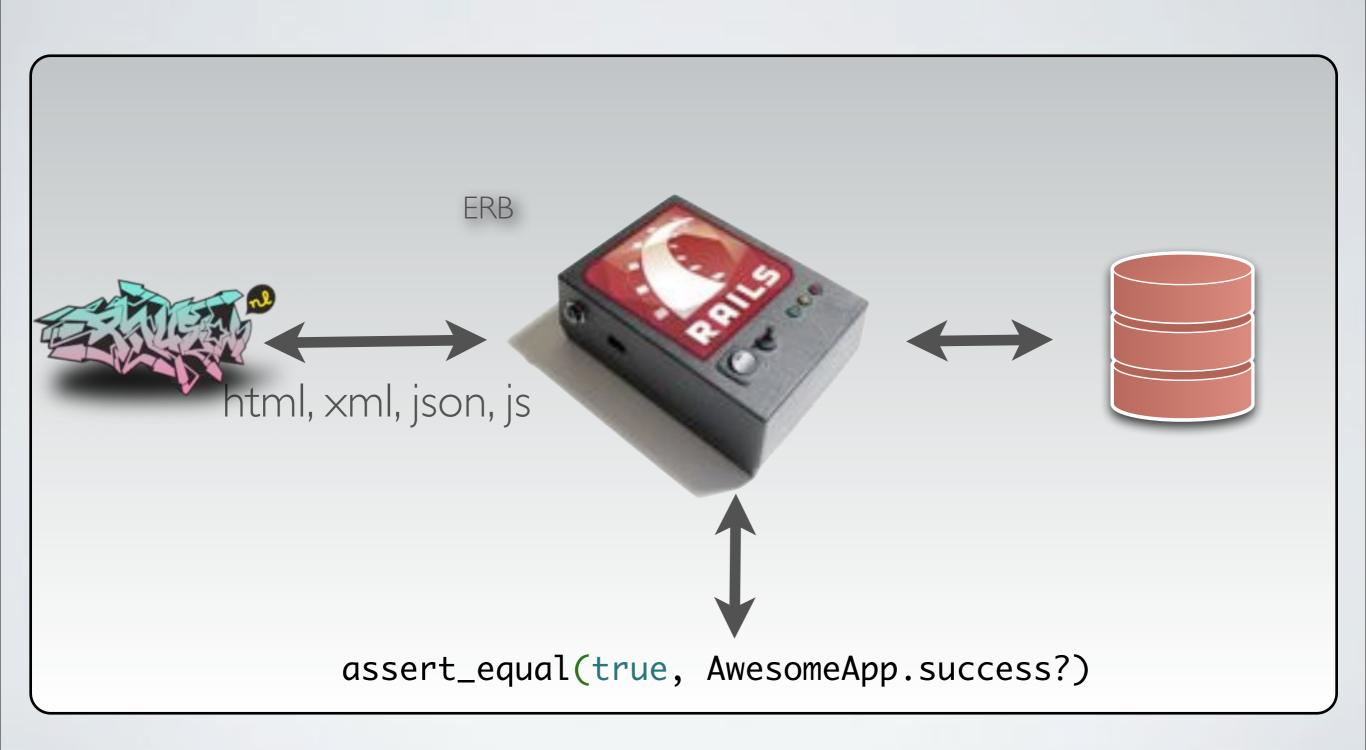
WHAT DOES IT REALLY MEAN?

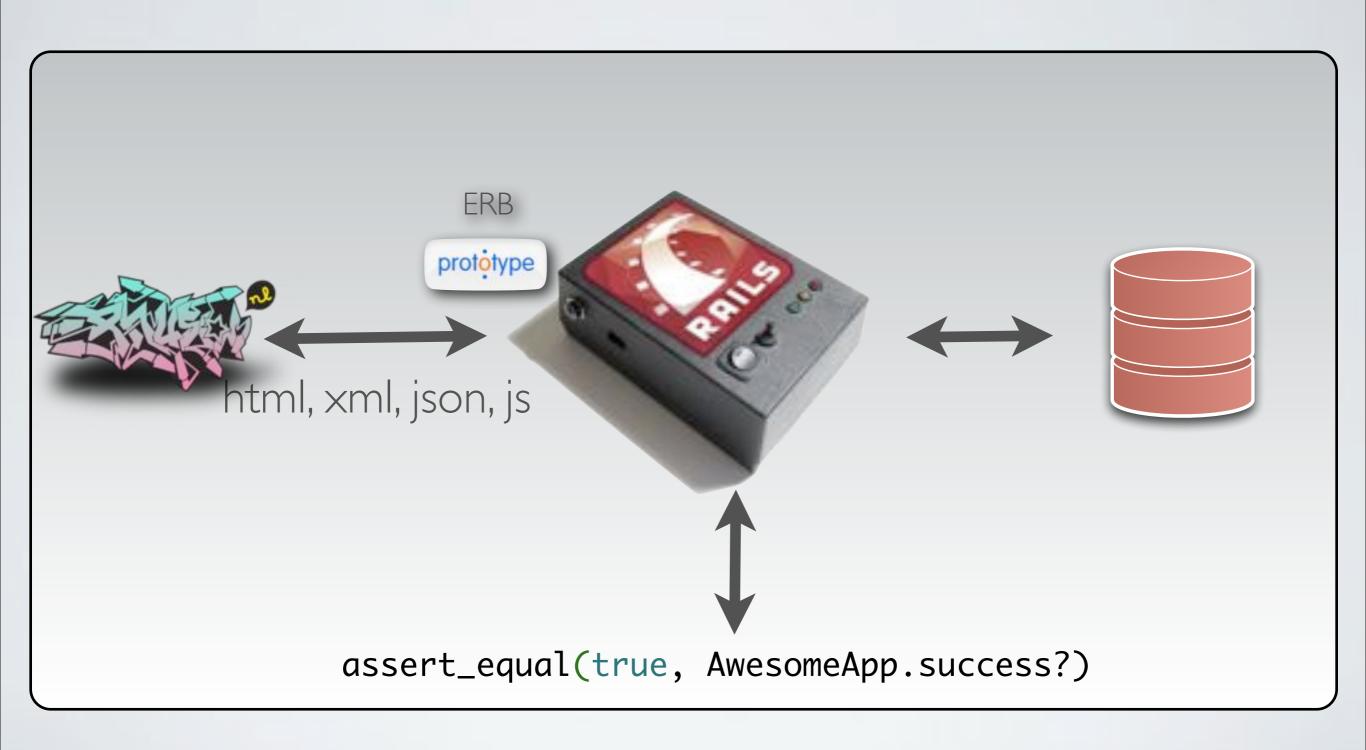


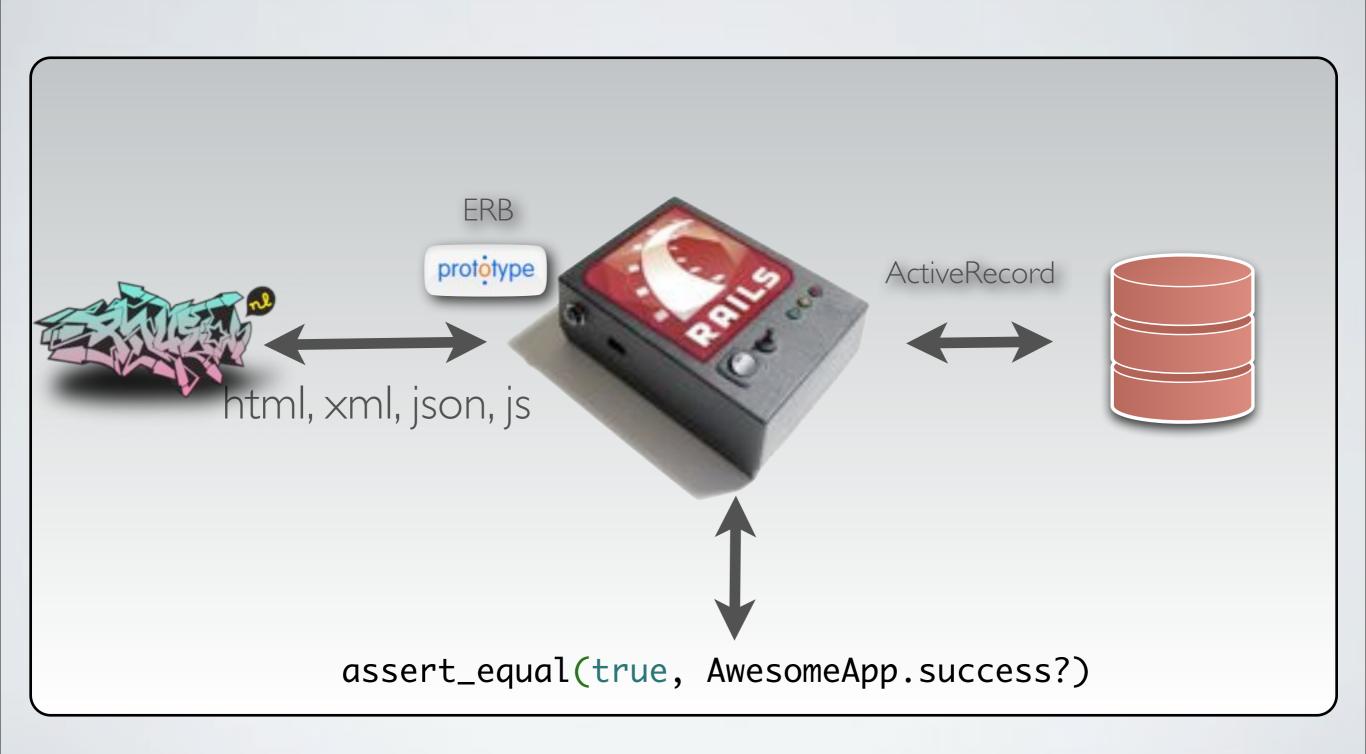
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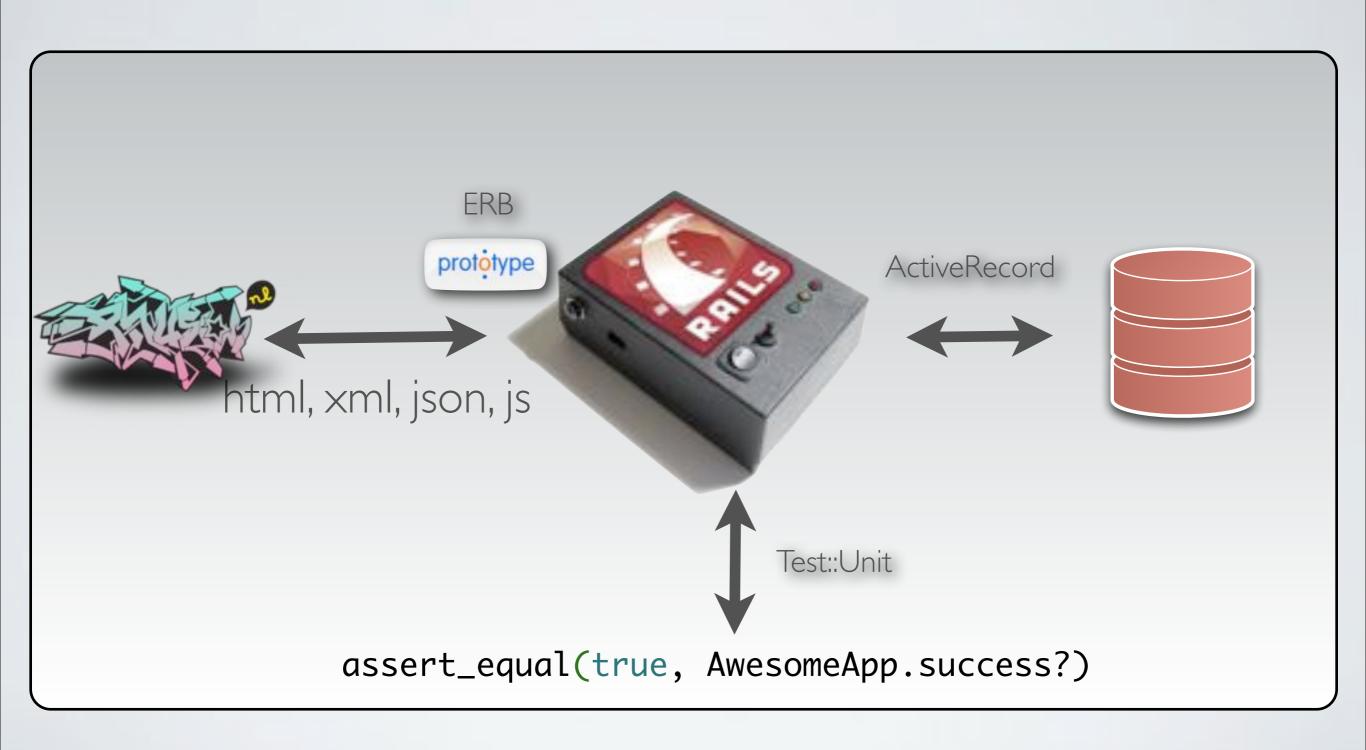




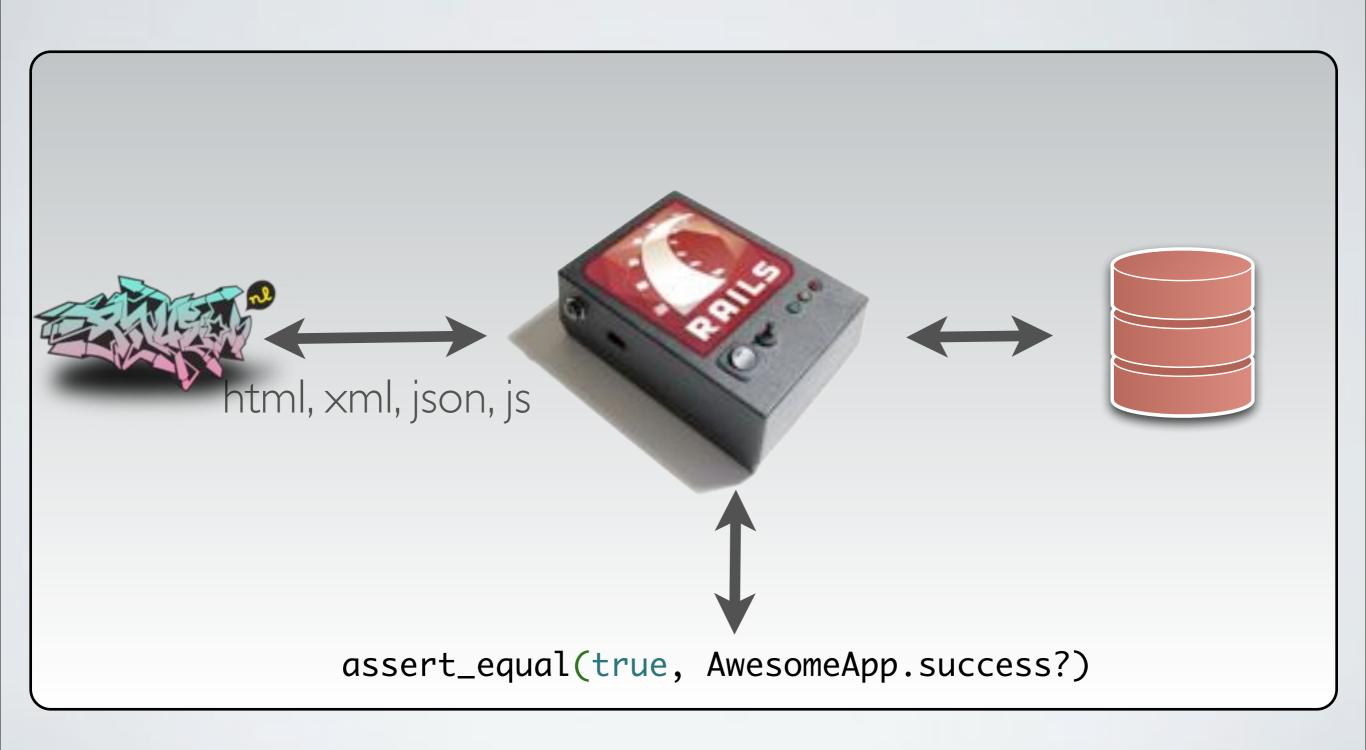


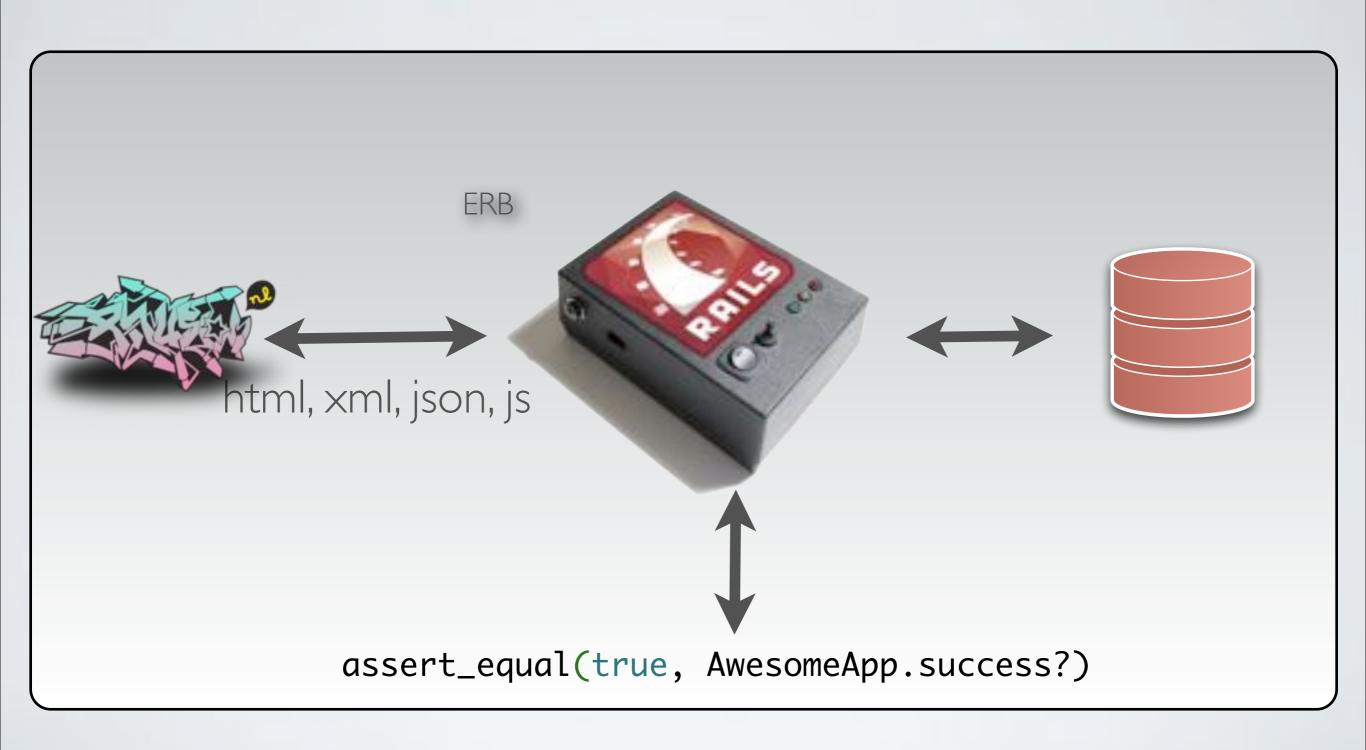


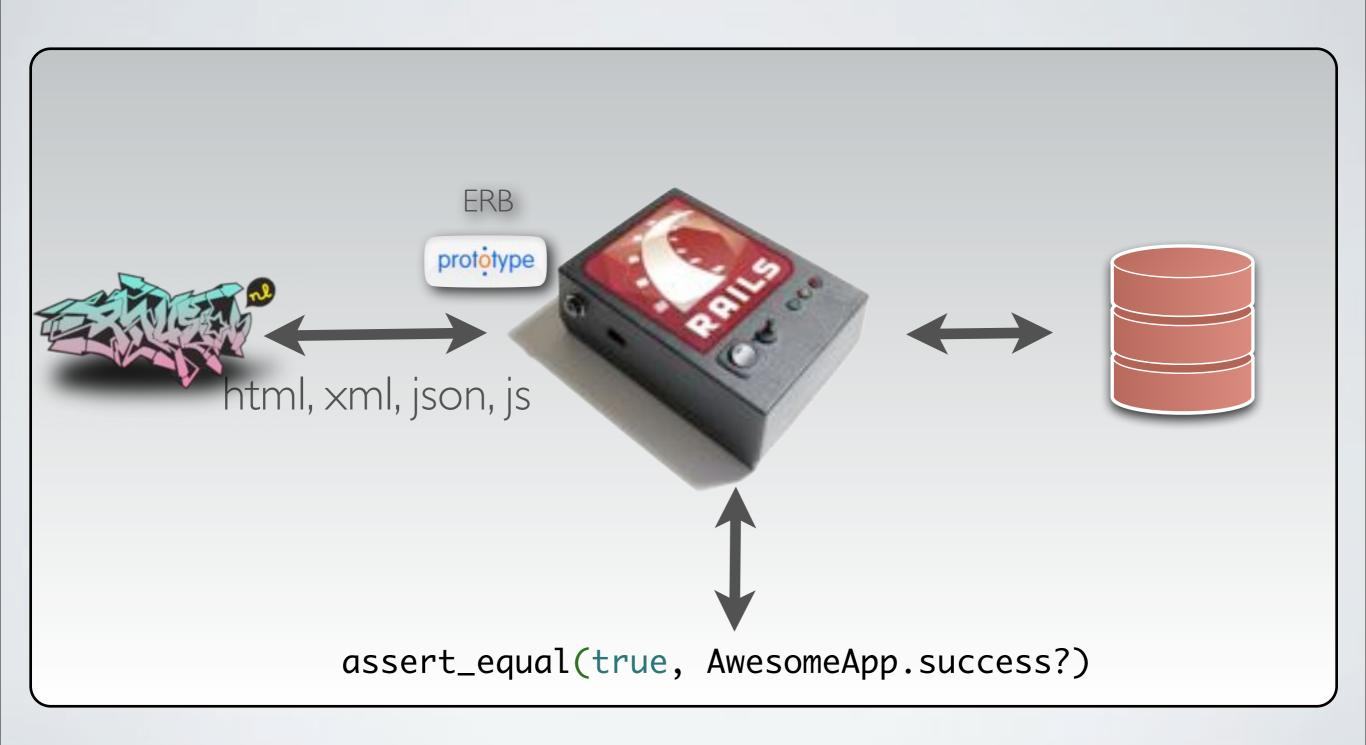


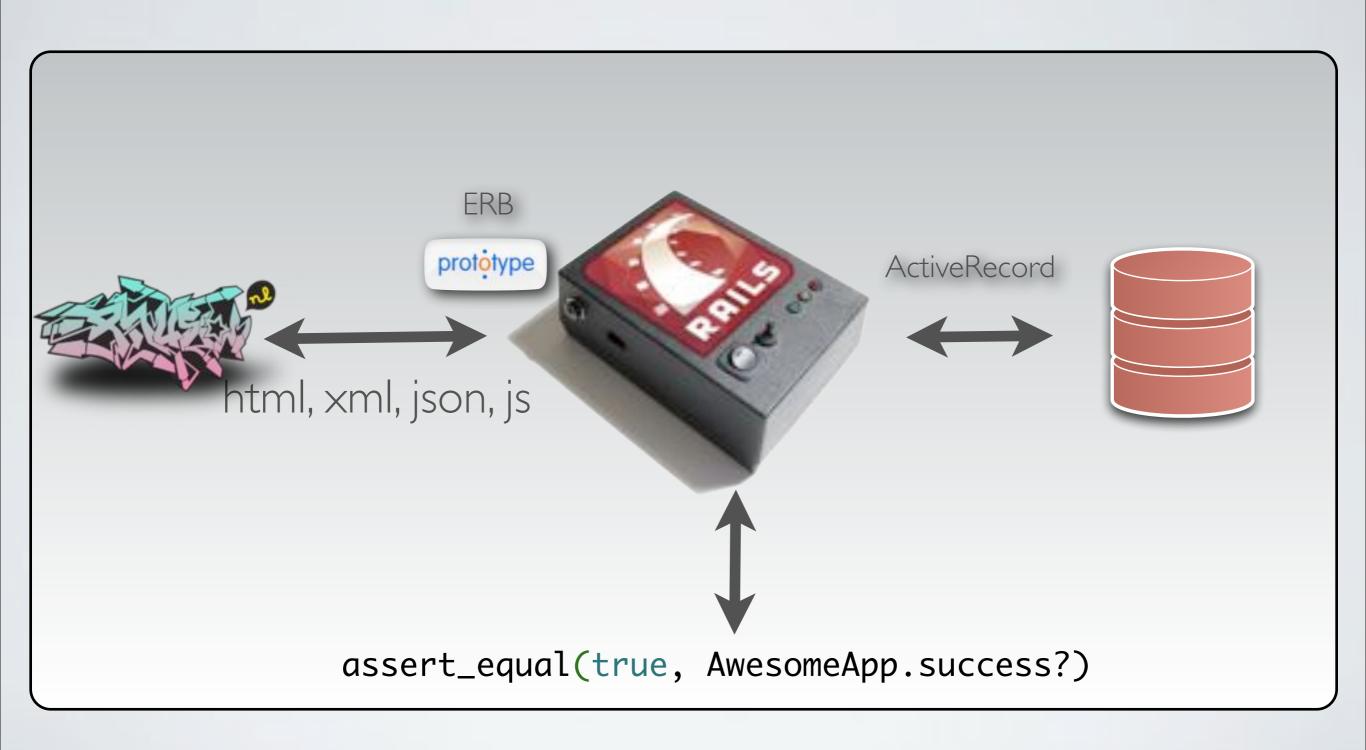


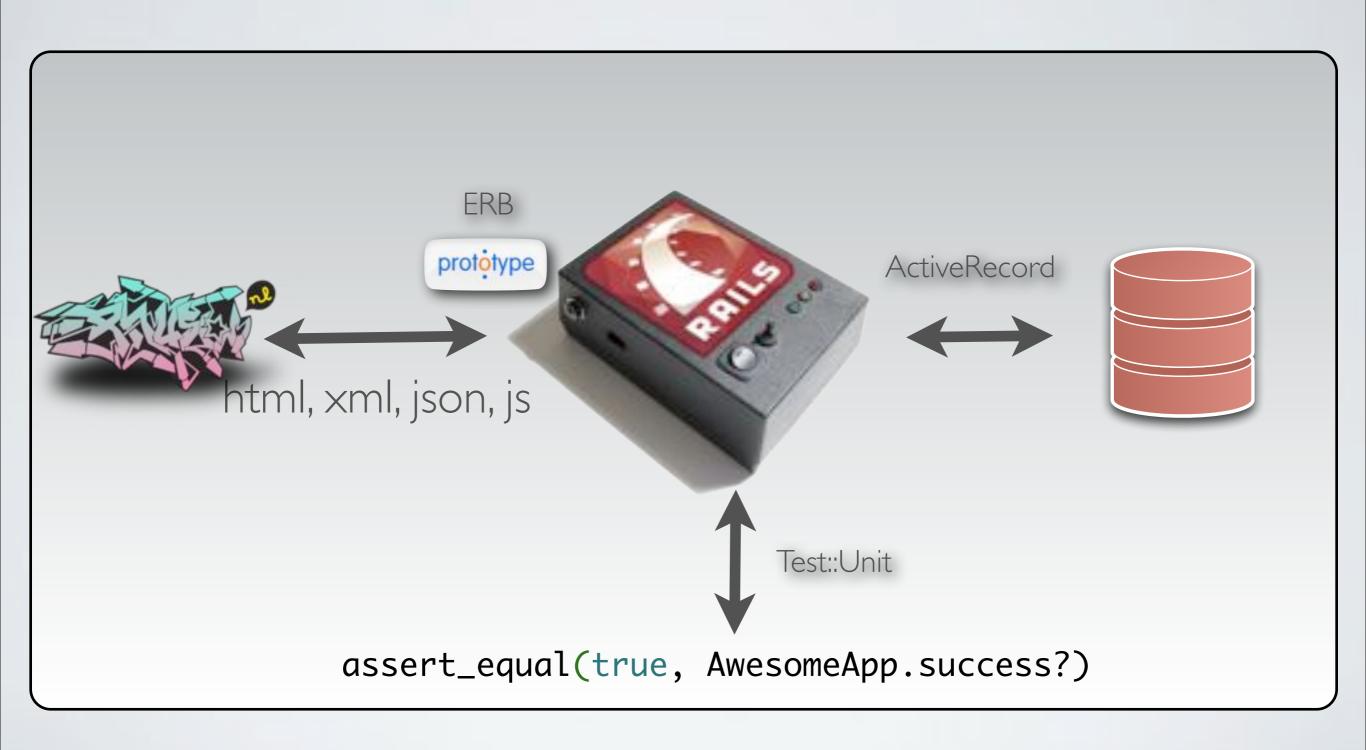
- ORM: ActiveRecord
- JS: Prototype
- Templating: ERB
- Testing: Test::Unit













NO DRASTIC CHANGES FOR THE END USERS

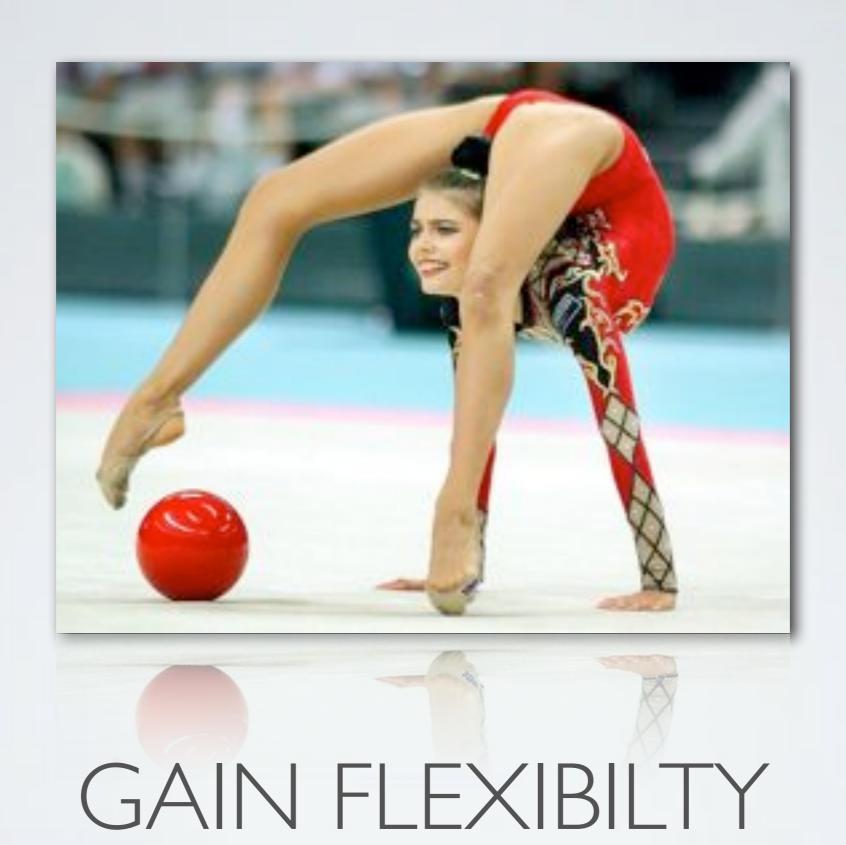


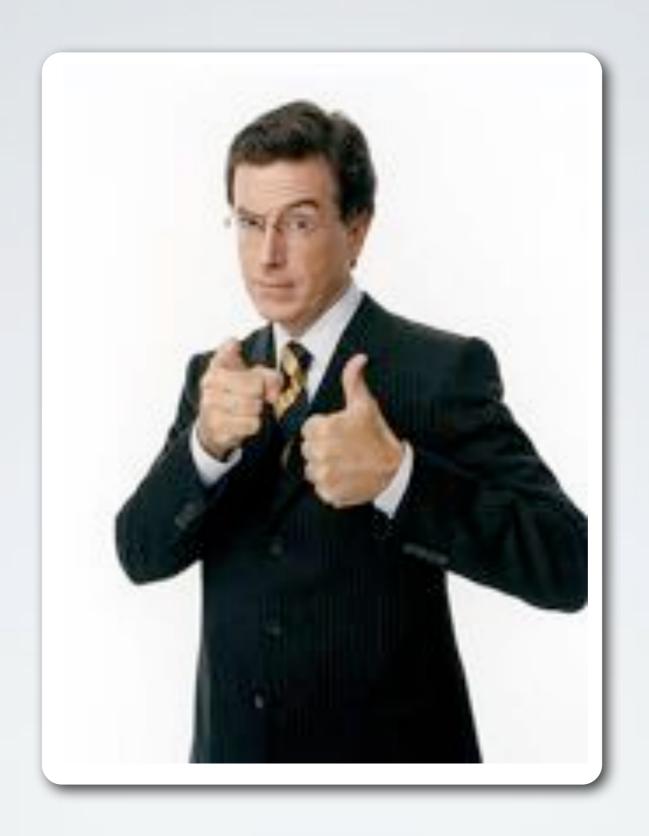




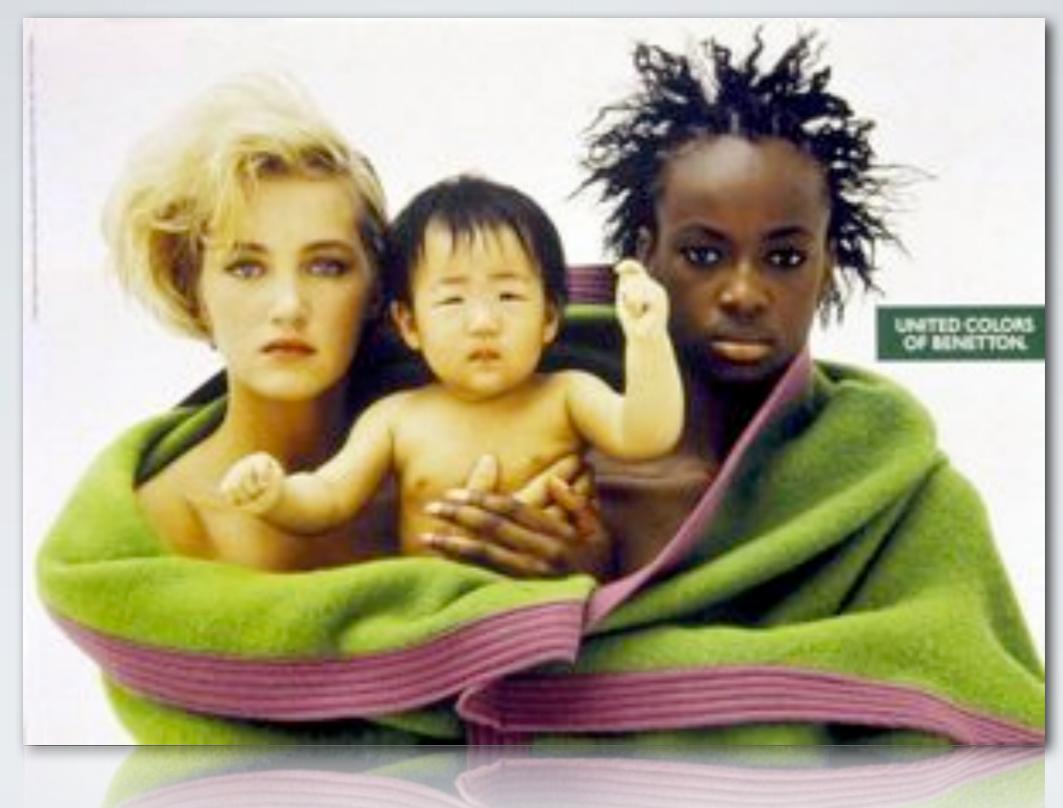








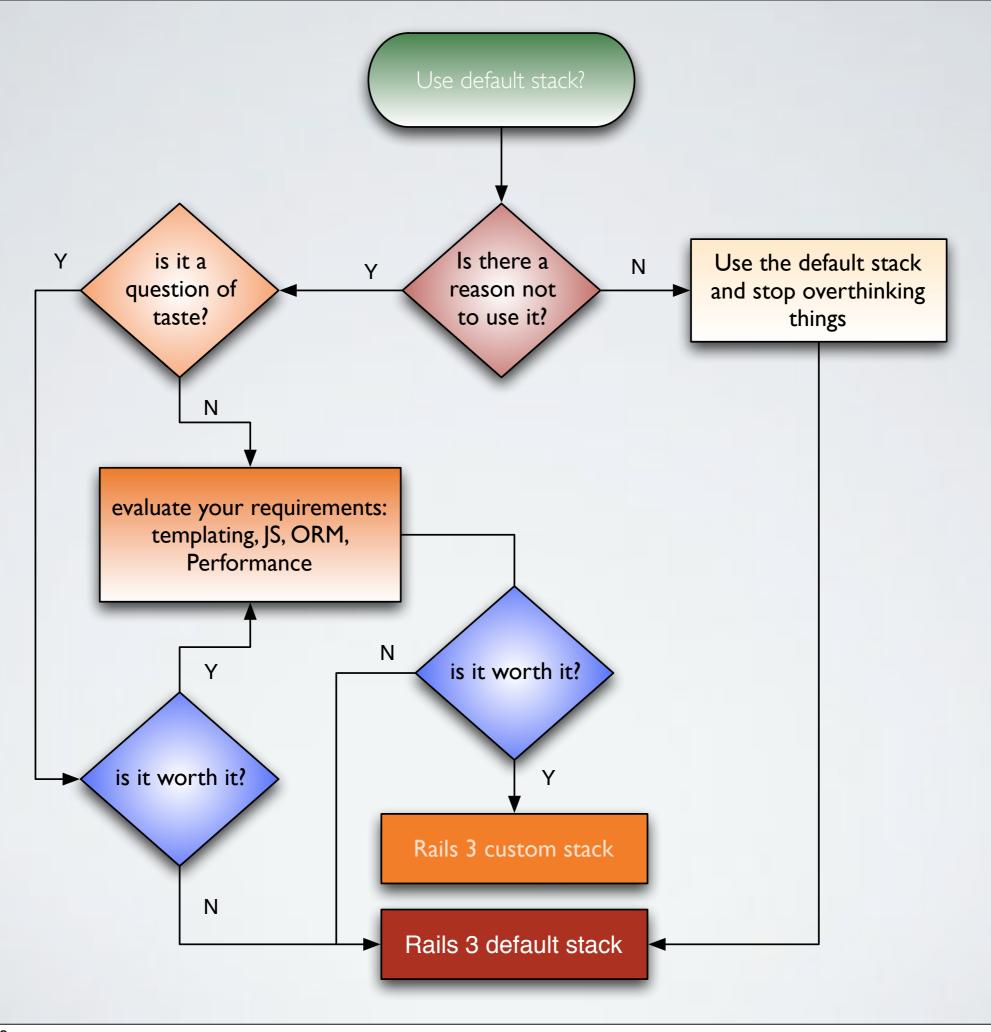
LESS OPINIONATED



WE ARE NOT ALL THE SAME

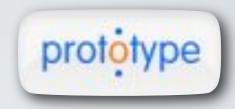












JAVASCRIPT FRAMEWORKS











ORM

Databases scalar values

St.

Objects
Object Oriented
Languages

RAW SQL

SELECT *
FROM Book
WHERE price > 100.00
ORDER BY title;

ACTIVERECORD

```
Book.all \
   :conditions => ["price > ?", 100.00],
   :order => 'title'
```

```
Book.all \
    :price.gt => 100.00,
    :order => [:title.asc]
```

SEQUEL

Book.find{|b| b.price > 100.00}.order(:title)

COUCHREST

Book.by_price(:startkey => 100.01)







```
@parent = Parent.find_by_name("Matt")
```

@parent.children.each do |child|
 @parent.object_id.should == child.parent.object_id
end

```
@parent = Parent.find_by_name("Matt")
```

@parent.children.each do | child|
 @parent.object_id.should == child.parent.object_id
end

Fails with ActiceRecord

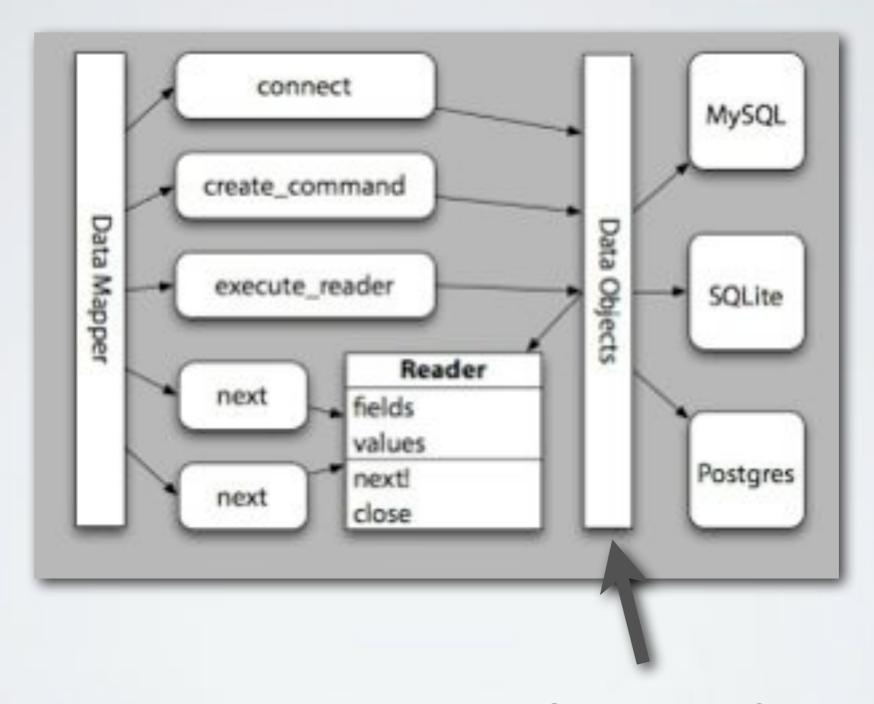
```
@parent = Parent.find_by_name("Matt")
```

@parent.children.each do |child|
 @parent.object_id.should == child.parent.object_id
end

Fails with ActiceRecord
Passes with DataMapper

does what ActiveRecord does...

but differently



db drivers using I unified interface

- procrastination as a value
- Lazy Loading
- Strategic Eager Loader

```
students = Student.all
students.each do | student|
   student.books.map{|b| b.name}
end
```

ACTIVERECORD

```
students = Student.all
students.each do | student|
   student.books.map{|b| b.name}
end
```

students = Student.all
students.each do | student|
 student.books.map{|b| b.name}
end

MULTIPLE REPOS

```
production:
  adapter: mysql
  encoding: utf8
  database: production-app
  username: root
  password: top-s3ckrit
  host: localhost
  repositories:
    nightly_backup:
      adapter: sqlite3
      database: shared/nightly.db
    weekly_backup:
      adapter: sqlite3
      database: shared/weekly.db
```

MULTIPLE REPOS

MULTIPLE REPOS

```
class Page
  include DataMapper::Resource
  property :id, Serial
  property :name, String
  repository(:legacy) do
    property : name, String,
                     :field => "title"
  end
end
```

QUERY::PATH

Find all people with an address that has street in the street name

```
SELECT "people"."id", "people"."name" FROM "people"
INNER JOIN "addresses" ON ("people"."id" = "addresses"."person_id")
WHERE ("addresses"."street" LIKE '%street%')
ORDER BY "people"."id"
```

ADAPTERS

RDBMS
file system
IMAP
Sales Force
YAML
REST APIs
custom APIs

. . .

SEQUEL

- Prepared Statements
- Sharding
- highly customizable SQL work
- high performance

HIBERNATE

- ActionORM
- JRuby

NON RDBMS SYSTEMS

- AppEngine::Datastore
- CouchDB with CouchRest or other DSL
- Redis, Tokyo Cabinet etc...

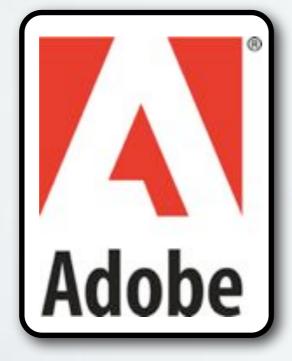
RAILS EXTREME

only for a few of you

CUSTOMIZE RAILS TO THE EXTREME



YELLOWPAGES.COM[™] yp.com





CREATE YOUR OWN RAILS

- define your own file structure
- define your own router DSL
- define your own ways to deal with requests

EXTEND ACTIONCONTROLER

```
class Presentation < ActionController::Http
  def index
    self.response_body = "Rails3 + MacRuby"
  end
end</pre>
```

```
Presentation.action(:index).call \
   Rack::MockRequest.env_for("/railsconf10")
```

EXTEND ACTIONCONTROLER

```
def action(&blk)
  Class.new(ActionController::Http) do
    include ActionController::Renderer
    define_method(:xtreme, &blk)
  end.action(:xtreme)
end
run action do
  render "some_template"
end
```



MacRuby





credits:

http://www.flickr.com/photos/dotdoubledot/ Katsushika Hokusai Delacroix

Benetton

http://www.rubyist.net/~matz/slides/oscon2003

Matt Groening

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