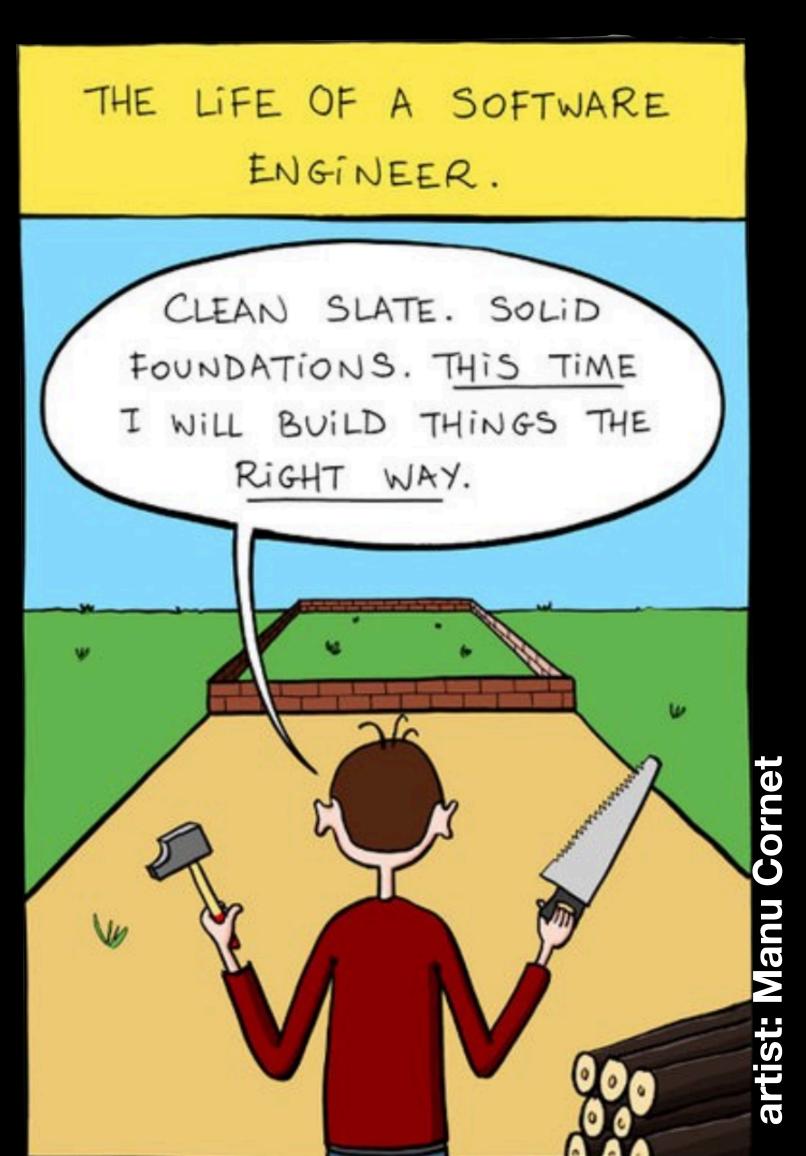
# GOWING Rails Apps

# Easy to start

- Requirements are simple
- First steps are simple



#### Hard to maintain

- Edge cases start to appear
- New features are more complicated
- Codebase become bigger and harder to maintain



# We use the wrong tools

- Callbacks in models and controllers and suppressing them
- Fat models
- Default scopes
- Custom actions in controllers





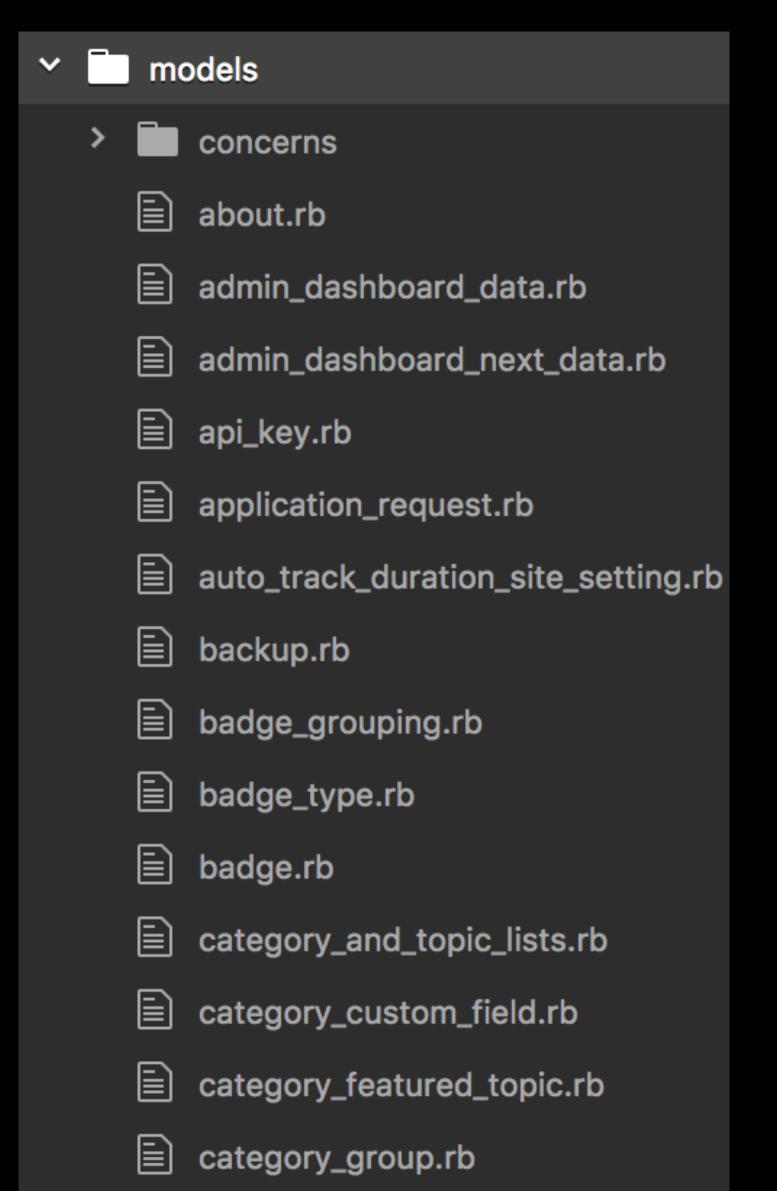
### We have better tools

- Form Objects
- Service Objects
- Trailblazer
- DRY framework
- ROM



# Code Organization

# Code Organization



category\_list.rb category\_page\_style.rb category\_search\_data.rb category\_tag\_group.rb category\_tag\_stat.rb category\_tag.rb category\_user.rb category.rb child\_theme.rb color\_scheme\_color.rb color\_scheme.rb custom\_emoji.rb developer.rb digest\_email\_site\_setting.rb directory\_item.rb

discourse\_single\_sign\_on.rb

discourse\_version\_check.rb

draft\_sequence.rb

draft.rb

email\_change\_request.rb

email\_log.rb

email\_token.rb

#### 176 files



#### Flat Models Structure

```
post action type.rb
post action.rb
post analyzer.rb
post custom fields.rb
post detail.rb
post mover.rb
post reply.rb
post revision.rb
post search data.rb
post stat.rb
post timing.rb
post_upload.rb
post.rb
```

#### Flat Models Structure

```
post action type.rb
post action.rb
post analyzer.rb
post custom fields.rb
post detail.rb
post mover.rb
post reply.rb
post revision.rb
post search data.rb
post stat.rb
post timing.rb
post_upload.rb
post.rb
```

```
class Post < ActiveRecord::Base
  has_many :post_uploads
  has_many :uploads, through: :post_
  has_many :post_details
  has_many :post_revisions
  # ...
end</pre>
```

#### Flat Models Structure

```
post action type.rb
post action.rb
post analyzer.rb
post custom fields.rb
post detail.rb
post mover.rb
post reply.rb
post revision.rb
post search data.rb
post stat.rb
post timing.rb
post_upload.rb
post.rb
```

```
class Post < ActiveRecord::Base</pre>
  has many :post uploads
  has many :uploads, through: :post
  has many :post details
  has many :post revisions
end
post.post details
```

post.post revisions

# Namespace Your Models

```
class Post
  has many :details
  has many :uploads, class name: "Post::Upload"
end
class Post::Detail # post/detail.rb
  belongs to :post
end
class Post::Upload # post/upload.rb
  belongs to :post
  belongs_to :upload, class name: "::Upload"
end
```

# Namespace Your Models

```
post action type.rb
post action.rb
post analyzer.rb
post custom fields.rb
post detail.rb
post mover.rb
post reply.rb
post revision.rb
post search data.rb
post stat.rb
post timing.rb
post_upload.rb
post.rb
```

```
post/
  action/
    type.rb
  action.rb
  analyzer.rb
  custom fields.rb
  detail.rb
  mover.rb
  reply.rb
  revision.rb
  search data.rb
  stat.rb
  timing.rb
  upload.rb
post.rb
```

# Namespace Your Models

```
post/
post.rb
```

#### Controllers

```
$ cat app/controllers/users_controller.rb | wc -1
1097
```



#### Custom Actions

```
resources :users do
  put "suspend"
  put "unsuspend"

put "grant_moderation"
  put "revoke_moderation"

# ...
end
```

```
resources :users do

put "suspend"

put "unsuspend"

end

resources :users do

resource :suspension,

only: [:create, :destroy]

end
```

```
resources :users do

put "suspend"

put "unsuspend"

end

resources :users do

resource :suspension,

only: [:create, :destroy]

end
```

```
DELETE /users/:user_id/suspension suspensions#destroy
POST /users/:user_id/suspension suspensions#create
```

```
resources :users do

put "suspend"

put "unsuspend"

end

resources :users do

resource :suspension,

only: [:create, :destroy]

end
```

```
DELETE /users/:user_id/suspension suspensions#destroy
POST /users/:user_id/suspension suspensions#create
```

```
app/controllers/
  users_controller.rb
  suspensions controller.rb
```

```
resources :users do

put "suspend"

put "unsuspend"

end

resources :users do

resources :users do

resource :suspension,

only: [:create, :destroy]

end
```

```
DELETE /users/:user_id/suspension suspensions#destroy
POST /users/:user_id/suspension suspensions#create
```

```
app/controllers/
  users_controller.rb
  suspensions_controller.rb
```



```
resources :users do
  scope module: :users do
    resource :suspension, only: [:create, :destroy]
    resource :moderation permission, only: [:create, :destroy]
  end
end
app/controllers/
  users/
    suspensions controller.rb
    moderator permissions controller.rb
```

users controller.rb

# Long Actions

```
def index
  @rss posts = posts.map do post
    { description: rss description for(post), title: post.titl
  end
end
def rss description for (post)
  post.body.truncate(256) + info about likes(post)
end
def info about likes(post)
end
```

# Long Actions

```
def index
  @rss_posts = RssPosts.new(posts)
end
```

```
class RssPosts
  def each
    @posts.each do post
      yield { description: rss description for (post), title: p
    end
  end
  private
  def rss description for (post)
    post.body.truncate(256) + info about likes(post)
  end
  def info about likes(post)
  end
end
```

```
class RssPosts
  def each
    @posts.each do post
      yield { description: rss description for (post), title: p
    end
  end
  private
  def rss description for (post)
    post.body.truncate(256) + info about likes(post)
  end
  def info about likes(post)
  end
end
```

```
class RssPosts # rss posts.rb
  def each
    @posts.each do | post
      yield Post.new(post)
    end
  end
end
class RssPosts::Post # rss posts/post.rb
  def description
    @post.body + info about likes
  end
  def info about likes
  end
end
```

# Organize Your Code

```
rss_posts/
post.rb
rss_posts.rb
```

# "It makes no sense to create one more class and one more file instead of creating one private method"

- Your Covvorker

#### Sandi Metz Rules

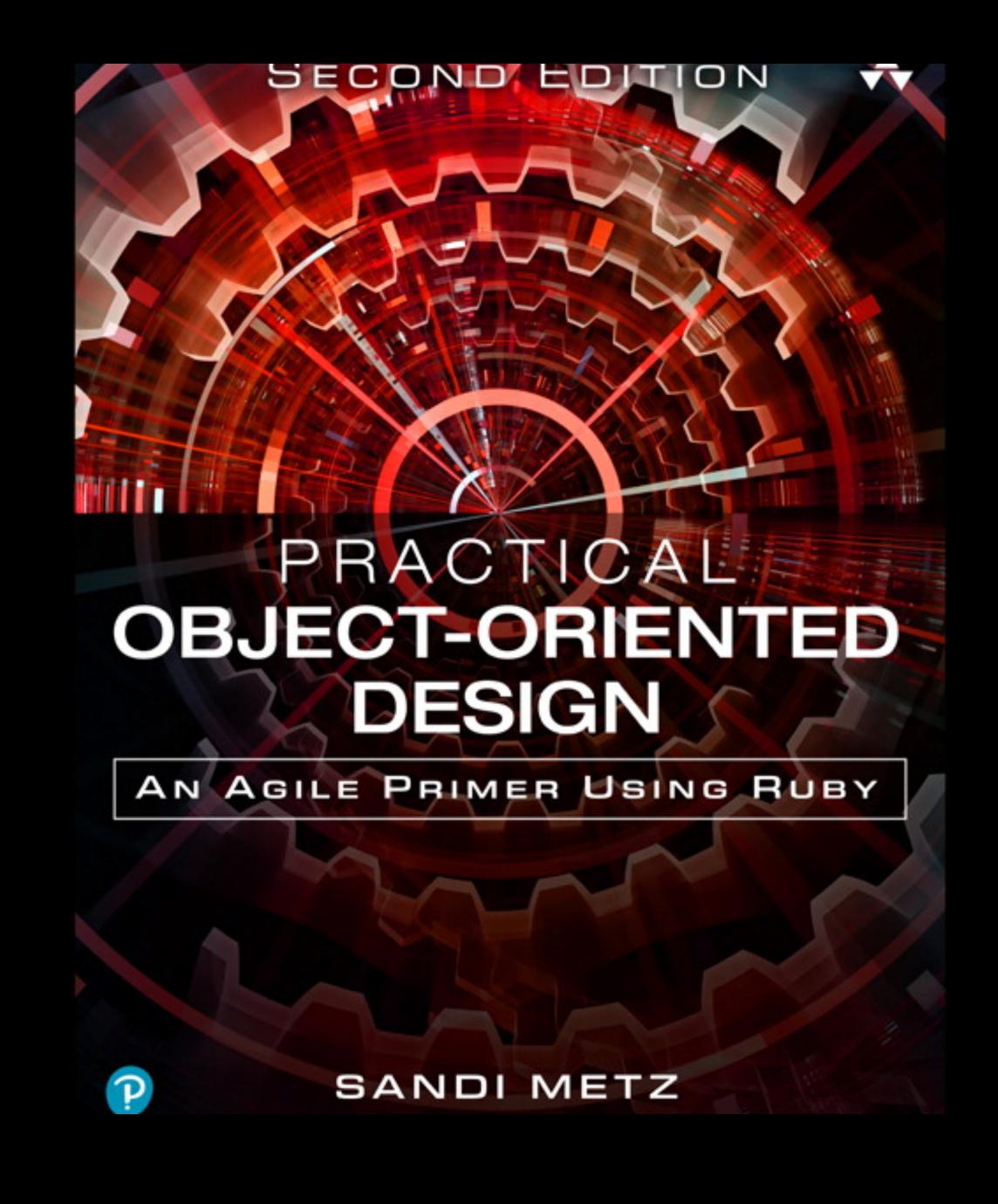
- 1. Classes can be no longer than one hundred lines of code.
- 2. Methods can be no longer than five lines of code.
- 3. Pass no more than four parameters into a method. Hash options are parameters.
- 4. Controllers can instantiate only one object. Therefore view can only know about one instance variable and views should only send messages to that object.

#### Dima's Rule

Don't send parameters to private methods. Consider creating a separate class.

#### POODR





# Quick Recap

- Namespace models
- Namespace controllers and keep them small
- Namespace service classes and keep the clean



# Thank you!

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