

#### The Asset Pipeline

CSS, JS, images and other media in Rails.



## CSS, JavaScript and images

Aside from the Ruby code for your routes and controllers and the HTML code in your views, a huge part of any Web application is CSS, JS and images.



## CSS, JavaScript and images

Just like everything else, Rails has a place specifically for those kinds of files:

the app/assets/ folder.



### Structure of app/assets/

A folder for each type of file.

```
app/assets/
     images/
    javascripts/
   - stylesheets/
```



### Structure of app/assets/

Default contents:

```
app/assets/
    images/
    (empty)
    javascripts/
    application.js
    stylesheets/
    application.css
```



### Structure of app/assets/

CSS and JavaScript files for each controller:



All CSS and JS files in app/assets/are included automatically in every page.



So you can write your CSS in any CSS file and your JavaScript in any JavaScript file.



Since you can put it in any file, you have to decide how you want to organize your CSS and JavaScript.



Generally speaking, CSS that affect the pages of a specific controller should go in that controller's CSS file.



For example, CSS for the pages on **SiteController** should go in the **site. scss**.







Why do those CSS files end with .scss? That's because they are really <u>Sass</u> files.









Sass is like CSS but better. It's got a lot of cool features that CSS doesn't have.

Many front end developers use it.



## SCSS files = Sass



But browsers don't understand Sass, they only understand CSS.

Rails automatically translates Sass to CSS.







Even though they are Sass files you can put regular old CSS in there.





What about this .coffee file?



## Images on the Asset Pipeline

As for images, you just drop them in the app/assets/images/ folder.





Download this GIF into your project (<a href="here's the link">here's the link</a>).





Name it something like dramatic-glasses.gif.





Now visit <u>localhost:3000/assets/dramatic-glasses.gif</u>.



#### **Images you place inside** app/assets/images/ will be available on

localhost:3000/assets/NAME.



## Images on the Asset Pipeline

To use these images in your HTML:

```
<img src="/assets/dramatic-glasses.gif"
alt="Kid removing his sunglasses epically">
```

app/views/site/home.html.erb



## Images on the Asset Pipeline

The Rails way to do it is:

```
<%= image_tag "dramatic-glasses.gif" %>
```

app/views/site/home.html.erb





The image\_tag helper has a few benefits over using a plain <img> tag.





It prevents browsers from saving old versions of the image (if you update it).

Browsers are able to **cache** images to prevent unnecessary downloads.





For big projects in *production*, sometimes you store all your images on a different server.

The helper can adjust automatically to that.





For example, Amazon doesn't keep it's images on amazon.com.



Images you put inside app/assets/images/ shouldn't be images uploaded by users.



## Image uploads

Uploaded images should be handled in a different way.

You'll learn more about that while working on your project (if needed).





## Other people's assets

Finally, it's a good practice to place 3rd party assets in the vendor/assets/ folder.

app/assets/ is for your app's custom





## Other people's assets

For popular libraries like Bootstrap it might be easier to include them using a gem.

See the twitter-bootstrap-rails gem.



#### RailsGuides

Always read the guide! There's a great one on the Asset Pipeline.

guides.rubyonrails.org/asset\_pipeline.html

