# Agile Web Development with Ruby on Rails

Prof. Paul Krause, University of Surrey Lecture 13 Sassy CSS

## Objectives for today

- Introduce Sprockets for managing the Assets Pipeline
- Show you how to make CSS Sassy

## Rails' Asset Pipeline with Sprockets

- http://getsprockets.org/
- Locations for assets:
  - app/assets
    - for application specific assets
  - lib/assets
    - for in-house assets used across projects
  - vendor/assets
    - for assets pulled from the wider community

# Sprocket Directives

```
## require_self
| ** require normalize
| ** require layout
| ** require navigation
| ** */
| ** */
| ** */

** 16
```

What did Sassy CSS ever do for us?

#### SCSS Simplifies Advanced Selectors

#### Simply CSS

```
5
  nav#main_nav ul {
     text-align: center;
 8
 9
10
  nav#main_nav li {
       display: inline-block;
11
       margin: 0 2px;
12
       padding: 4px 6px;
13
      font-size: 1.5em;
14
15 }
16
17
   nav#main_nav li a,
18
       a:link,
       a:visited {
19
         color: #FFF;
20
21
         text-decoration: none;
22 }
```

#### If this isn't sassy, I don't know what is:)

```
/* navigation.css.scss
   * In line styled navigation bar
 4
   */
 5
   nav#main_nav {
     ul {
8
9
       text-align: center;
10
     li {
11
       margin: 0 2 Thank you!!!
12
13
       padding: 4px
14
       font-size: 1.5em;
15
16
17
       a,
       a:link,
18
       a:visited {
19
20
         color: #FFF;
         text-decoration: none;
21
22
23
24
```

#### And there's more

- Variables
- Functions
- File Imports
- Nested Selectors
- Mixins
- Inheritance

#### Variables

```
* Fonts
   * Headings: Verdana, Arial, Helvetica, sans-serif
   * Accent: Georgia, Times New Roman, serif
   * Body: Times New Roman, Times, serif
10
11 * Colours
   * #FFFFFF White - no kidding!
   * #808000 Khaki
  * #000000 Mid Green
16 * #50b450 Dark Green
17 * #333 Near B
18
19
20
   body {
     font-family: 'Times New Roman', 'Times', serif;
21
22
23
  h1, h2 {
24
     color: #333;
25
     font-family: 'Verdana', 'Arial', 'Helvetica', sans-serif;
26
27 }
28
     color: #50b450;
     Tont: italic bold 20px 'Georgia', 'Times New Roman', serif;
32
33
```

#### layout.css.scss

```
8 $heading-font: 'Verdana', 'Arial', 'Helvetica', sans-serif;
 9 $accent_font: 'Georgia', 'Times New Roman', serif;
$body-font: 'Times New Roman', 'Times', serif;
   $white: #FFFFFF;
13 $khaki: #808000;
14 $mid-green: #000000;
   $dark-green: #50b450;
16 $ ...ar-black: #333:
17
18
   font-family: $body-font;
21 }
22
23 h1, h2 {
     color: $near-black;
     font-family: $heading-font;
26 }
     color: $dark-green;
   Tont: italic hold 20px $accent-font;
31 }
32
33 div#container {
     display: block;
     position: relative;
     min-height: 1000px;
36
37
     width: 1000px;
     margin: 0 auto;
     padding: 0;
     background-color: $khaki;
41 }
```

#### Factor the variables into: \_site-branding.scsc

```
1 /*
2 * Partial: site-branding.scss
3 */
4
5 $heading-font: 'Verdana', 'Arial', 'Helvetica', sans-serif;
6 $accent-font: 'Georgia', 'Times New Roman', serif;
7 $body-font: 'Times New Roman', 'Times', serif;
8
9 $white: #FFFFFF;
10 $khaki: #808000;
11 $mid-green: #008000;
12 $dark-green: #50b450;
13 $near-black: #333;
14
15
```

#### and replace the variable definitions with an import

```
/* layout.css.scss
   * Basic styling for the static pages
 4
 5
   */
 6
 7 @import "site-branding";
   body {
10
     font-family: $body-font;
11
12
13 h1, h2 {
14
     color: $near-black;
     font-family: $heading-font;
15
16
17
18
   h3 {
19
     color: #50b450;
20
     font: italic bold 20px $accent-font;
21 }
22
```

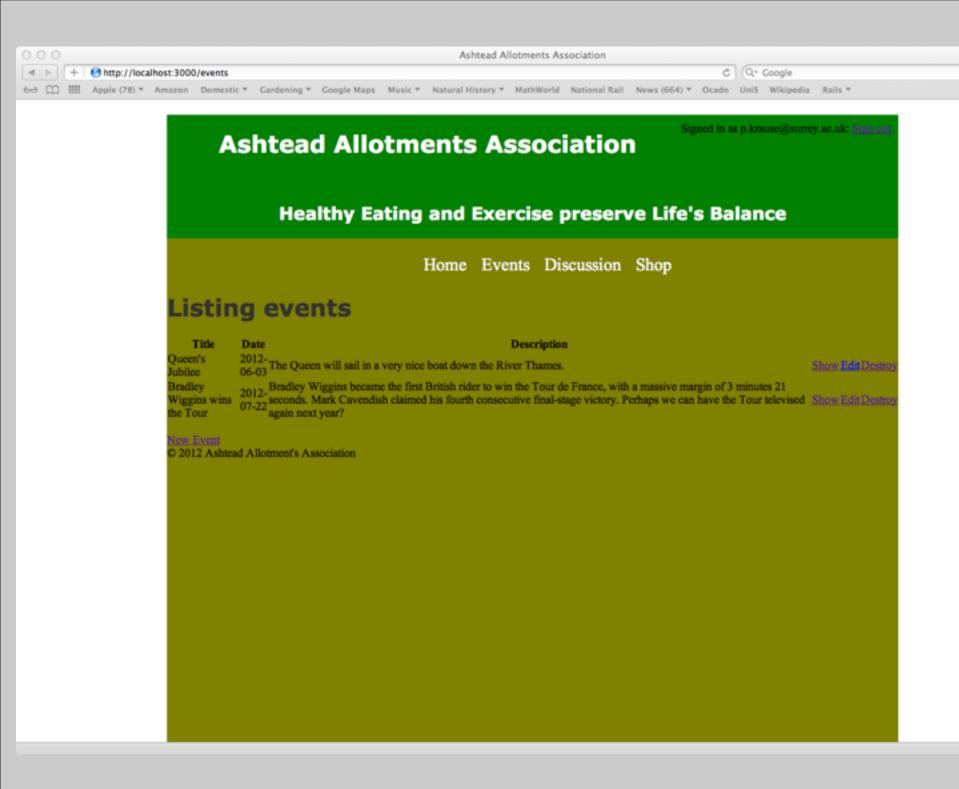
# Mixins

## A little digression first

- Don't forget to commit your current version of the sample app to Git
- And push it to GitHub
- Now we are going to set up the Events page to demo Mixins

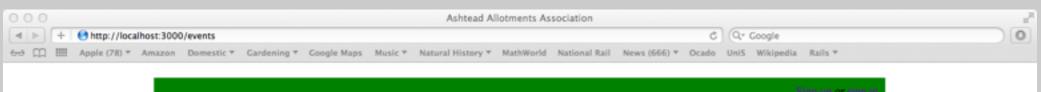
#### app/views/events/index.html.erb

```
<h1>Listing events</h1>
3 
   Title
6
     Date
     Description
     10
     11
   12
13
  <% @events.each do |event| %>
14
   15
     <%= event.title %>
16
     <
17
     <<td><<td><<td><</td>
18
     <%= link_to 'Show', event %>
19
     <= link_to 'Edit', edit_event_path(event) %>
20
     <= link_to 'Destroy', event, confirm: 'Are you sure?', method: :delete %>
21
   22 <% end %>
  23
24
25 <br />
26
27
  <%= link_to 'New Event', new_event_path %>
28
```



#### Version 2 - app/views/events/index.html.erb

```
<article id="events">
     <% @events.each do |event| %>
       <section>
         <h1><%= event.title %></h1>
 6
         <h2>Date of event: <%= event.date %></h2>
         >
 8
            <%= event.description %>
 9
         10
         <% if user_signed_in? %>
11
12
             <%= link_to 'Show', event %> |
             <%= link_to 'Edit', edit_event_path(event) %>
13
             <%= link_to 'Destroy', event, confirm: 'Are you sure?', method: :delete %>
14
15
           16
         <% end %>
17
       </section>
18
     <% end %>
19
20
     <% if user_signed_in? %>
21
       <section>
22
         <%= link_to 'New Event', new_event_path %>
23
       </section>
24
     <% end %>
25
26 </article>
```



#### **Ashtead Allotments Association**

Sign up or nign in

#### **Healthy Eating and Exercise preserve Life's Balance**

Home Events Discussion Shop

#### **Queen's Jubilee**

Date of event: 2012-06-03

The Queen will sail in a very nice boat down the River Thames.

#### **Bradley Wiggins wins the Tour**

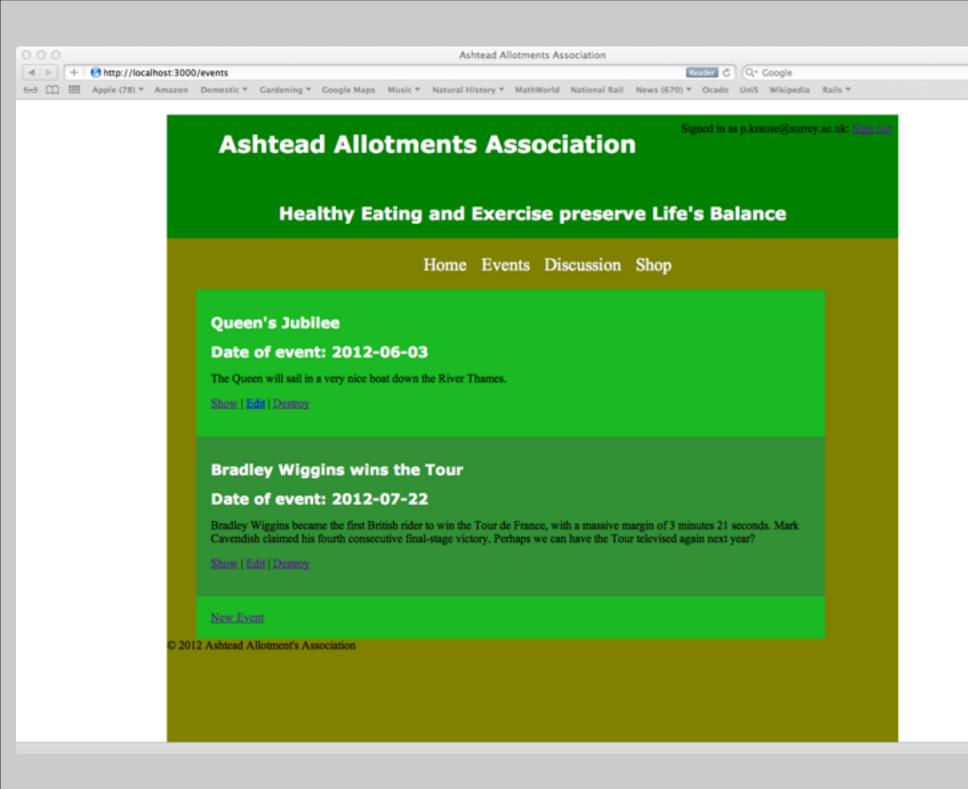
Date of event: 2012-07-22

Bradley Wiggins became the first British rider to win the Tour de France, with a massive margin of 3 minutes 21 seconds. Mark Cavendish claimed his fourth consecutive final-stage victory. Perhaps we can have the Tour televised again next year?

D 2012 Ashtead Allotment's Association

#### app/assets/stylesheets/events.css.scss

```
1 // Place all the styles related to the Events controller here.
 2 // They will automatically be included in application.css.
  // You can use Sass (SCSS) here: http://sass-lang.com/
   @import "site-branding";
   article#events {
     padding-left: 20px;
 8
     section {
       margin-left: 20px;
10
       margin-right: 100px;
11
       padding: 20px;
       background-color: #2EB82E;
12
13
         h1, h2 {
14
           color: $white;
15
           font-size: 20px;
16
17
18 }
19
20
   article#events section:nth-child(even) {
         background-color: #398F39;
21
22
```

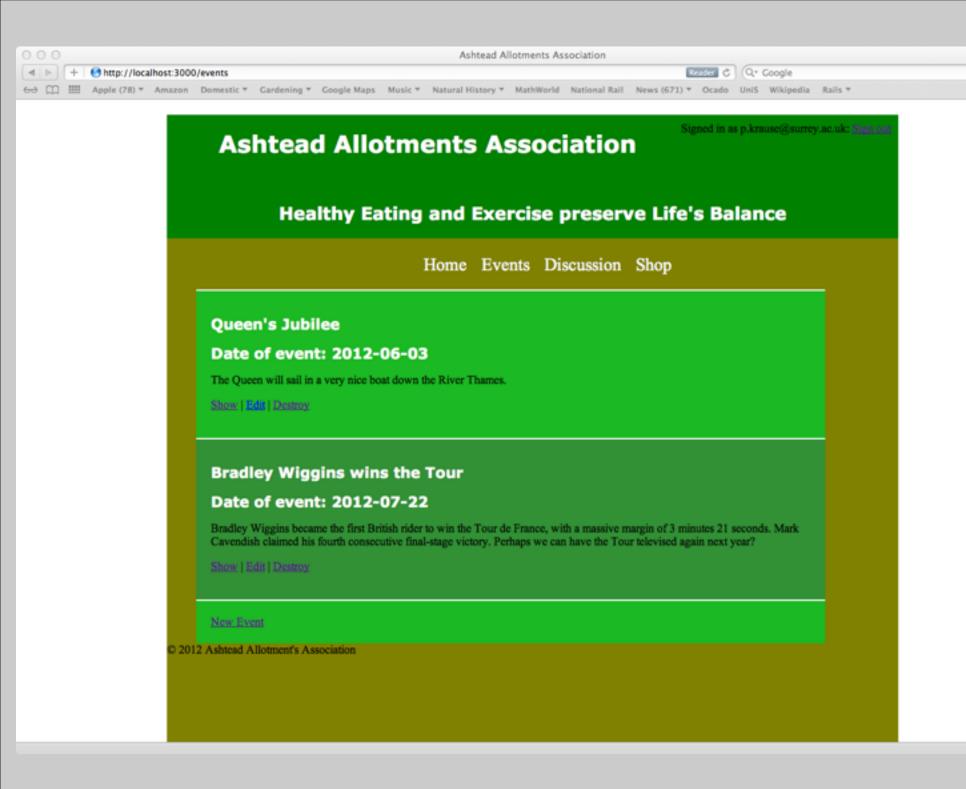


## app/assets/stylesheets/\_popout.scss

```
1 @mixin popout {
2   border-top: #fff 2px solid;
3 }
```

#### Version 2: app/assets/stylesheets/events.css.scss

```
1 // Place all the styles related to the Events controller here.
2 // They will automatically be included in application.css.
 3 // You can use Sass (SCSS) here: http://sass-lang.com/
 4 @import "site-branding";
 5 @import "popout";
 6
   article#events {
8
     padding-left: 20px;
     section {
10
       @include popout;
11
       margin-left: 20px;
12
       margin-right: 100px;
13
       padding: 20px;
14
       background-color: #2EB82E;
15
         h1, h2 {
16
           color: $white:
17
           font-size: 20px;
18
19
20 }
21
22 article#events section:nth-child(even) {
23
         background-color: #398F39;
24
```



## Some more things to explore

- Variables
- Selector Inheritance
- Sprites
- Web fonts
- See:
  - "The Rails View", by John Athayde & Bruce Williams, Pragmatic Programmers

#### What we have learnt

- Sass does CSS properly
  - The Rails Way