

ADVANCED FRONT-END

RATIONALE

HTML = DUPLICATION

You have to copy/paste code all the time (new page with navbar, new blogpost..)

but sadly, your browser **speaks only HTML**

TEMPLATES = NO DULICATION

Templating languages come with

- **layout** system
- **partial** system
- **looping** structures

Many choices: slim, liquid, handlebar, erb, etc...

CSS = DUPLICATION

You have to copy/paste CSS values (color, width..) & your design is not **consistent**.

but sadly, your browser **speaks only CSS**

SASS = NO DUPLICATION

- You can define **variables**
- You can **nest and chain selectors**

See <http://sass-lang.com/guide>

ADVANCED SETUP

Since our browser is stupid, we need a tool:

- to compile templates into HTML
- to compile SASS into CSS

MIDDLEMAN



Middleman = front-end framework for smart developers

SETUP

INSTALL MIDDLEMAN



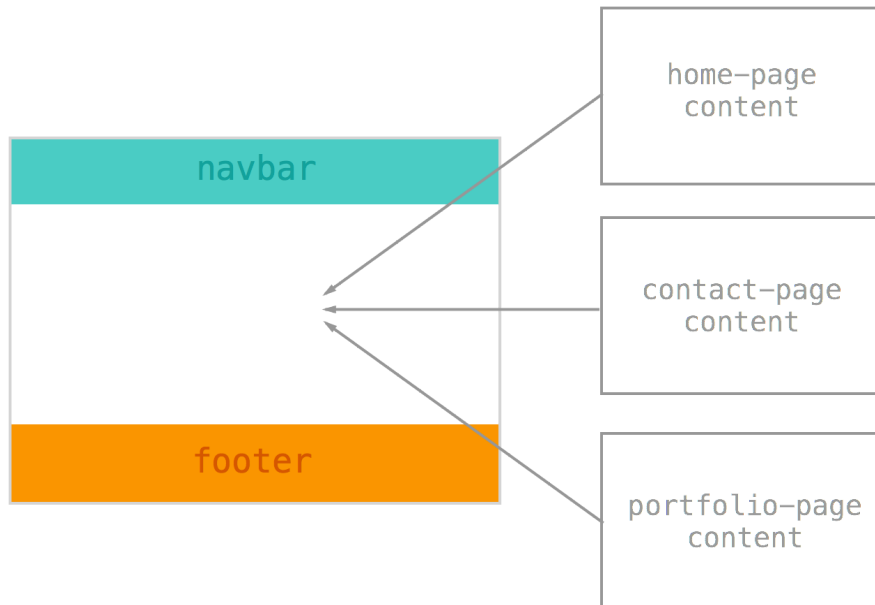
Follow [this tutorial](#)

FORK/CLONE THIS BOILERPLATE

TEMPLATES 101

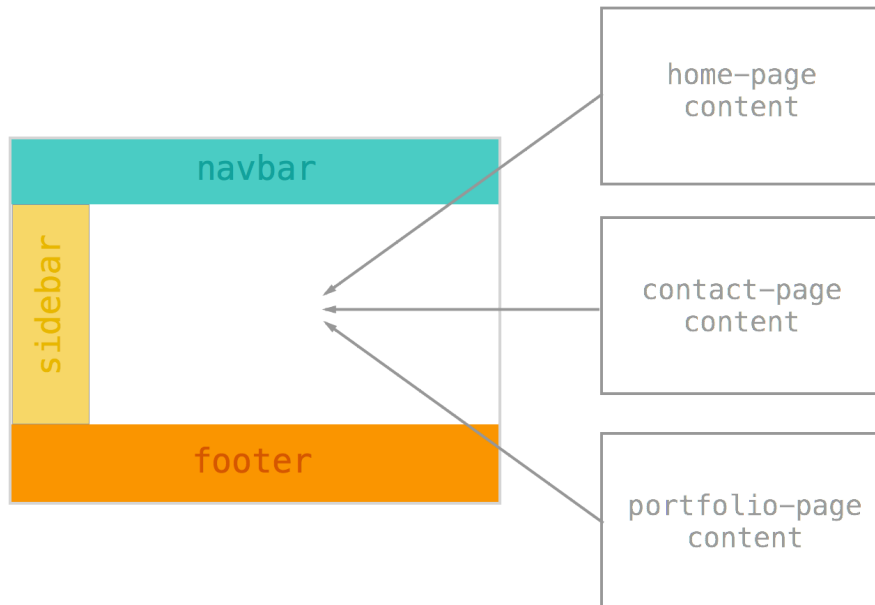
Disclaimer: Middleman use ERB template by default but choices are possible.

TEMPLATES - LAYOUT



```
<html>
  <head>
    <title>My Site</head>
  </head>
  <body>
    <nav class='navbar'>...</nav>
    <%= yield %>
    <div id='footer'>...</div>
  </body>
</html>
```

TEMPLATES - LAYOUT



```
<html>
  <head>
    <title>My Site</title>
  </head>
  <body>
    <nav class='navbar'>...</nav>
    <div class='sidebar'>...</div>
    <div class='page-content'>...</div>
    <%= yield %>
  </div>
  <div id='footer'>...</div>
</body>
</html>
```

URL NERVOUS BREAKDOWN

URL NERVOUS BREAKDOWN

TEMPLATES - HELPERS

Always use the same code, no matter which HTML page

```
<%= link_to "Press", "press.html" %>  
<!-- => <a href="/press.html">Press</a> -->
```

```
<%= image_tag "logo.png" %>  
<!-- =>  -->
```

TEMPLATES - HELPERS AND CLASS

```
<%= link_to "Press", "press.html", class: "btn btn-primary" %>  
<!-- => <a href="/press.html" class="btn btn-primary">Press</a>
```

```
<%= image_tag "logo.png", id: "logo", class: "img-circle" %>  
<!-- => 
```

TEMPLATES - LINK WITH RICH CONTENT

When your link contains **more than text**

```
<% link_to "index.html", class: "navbar-brand" do %>
  <%= image_tag "logo.png", class: "img-circle" %>
<% end %>
```

```
<a href="index.html" class="navbar-brand">
  
</a>
```

TEMPLATES - STYLESHEETS HELPERS

```
#banner{  
  background-image: image-url('background.jpg');  
}
```

[CHALLENGE]

Challenge 1: Migrate your content in Middleman

SASS 101

SASS VS SCSS

.sass

```
li  
  color: $emerald
```

.SCSS

```
li {  
  color: $emerald;  
}
```

- **SASS** => **brand new** syntax (no overlap with CSS)
- **SCSS** (Sassy CSS) => **extended** CSS syntax
- Both are processed to regular CSS

SASS - PARTIALS

SASS - VARIABLES

example.css

```
h1, h2, h3{  
  color: #EE5F5B;  
}  
  
a:hover{  
  color: #EE5F5B;  
}  
  
ul.list-inline > li > a{  
  color: #EE5F5B;  
}
```



example.css.scss

```
$red: #EE5F5B;  
  
h1, h2, h3{  
  color: $red;  
}  
  
a:hover{  
  color: $red;  
}  
  
ul.list-inline > li > a{  
  color: $red;  
}
```

SASS - NESTING

home.css

```
#banner{
  background: image-url('background.jpg');
  padding: 100px;
  text-align: center;
}

#banner h1{
  font-family: 'Montserrat', sans-serif;
  color: #EE5F5B;
}

#banner p{
  color: center;
}
```



home.css.scss

```
#banner{
  background: image-url('background.jpg');
  padding: 100px;
  text-align: center;
  h1{
    font-family: $montserrat;
    color: $red;
  }
  p{
    color: center;
  }
}
```

SASS - CHAINING

example.css

```
a{  
  color: $red;  
}  
  
a:hover{  
  color: $yellow;  
}
```



example.css.scss

```
a{  
  color: $red;  
  &:hover{  
    color: $yellow;  
  }  
}
```

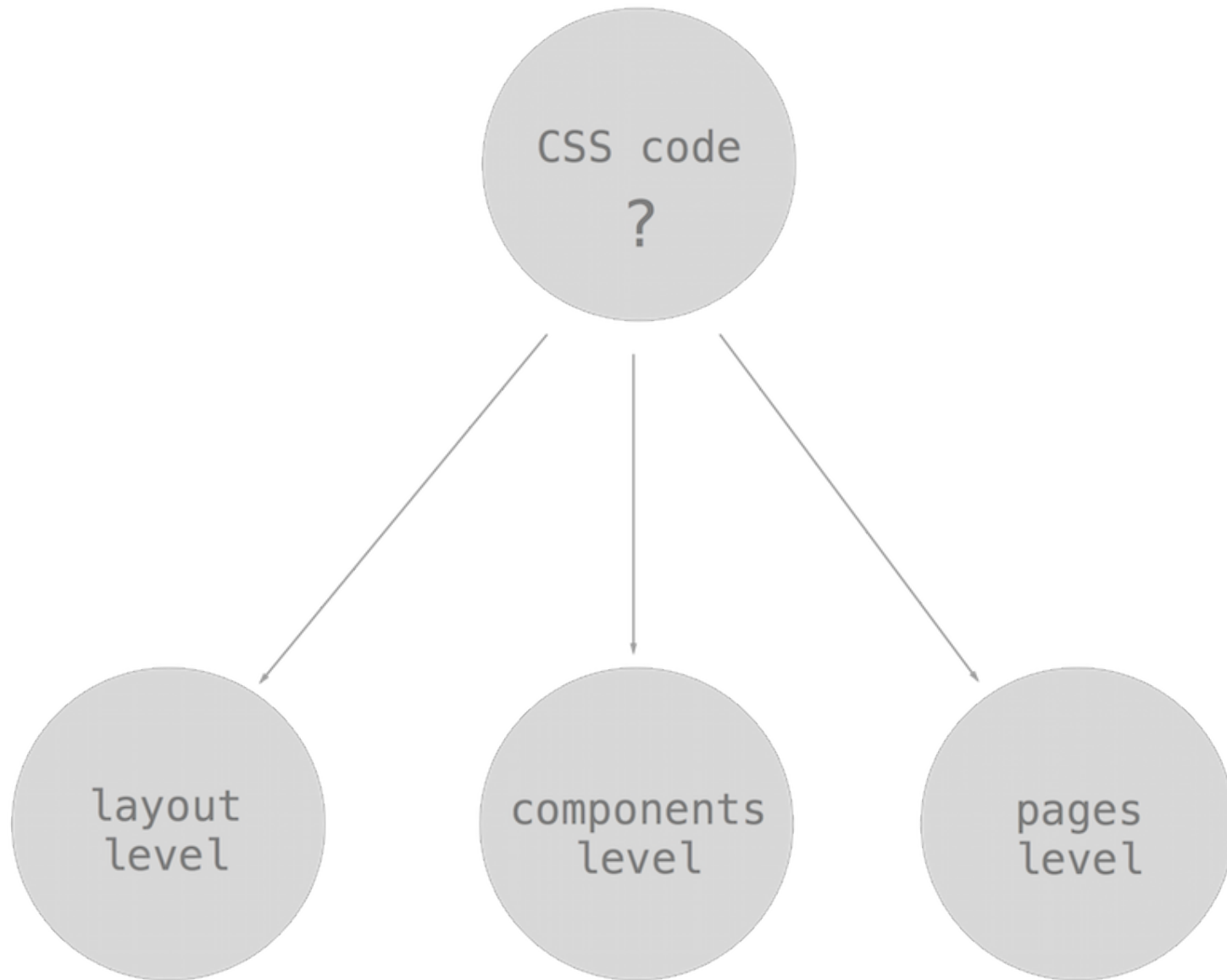
SASS - STYLESHEETS ORGANIZATION

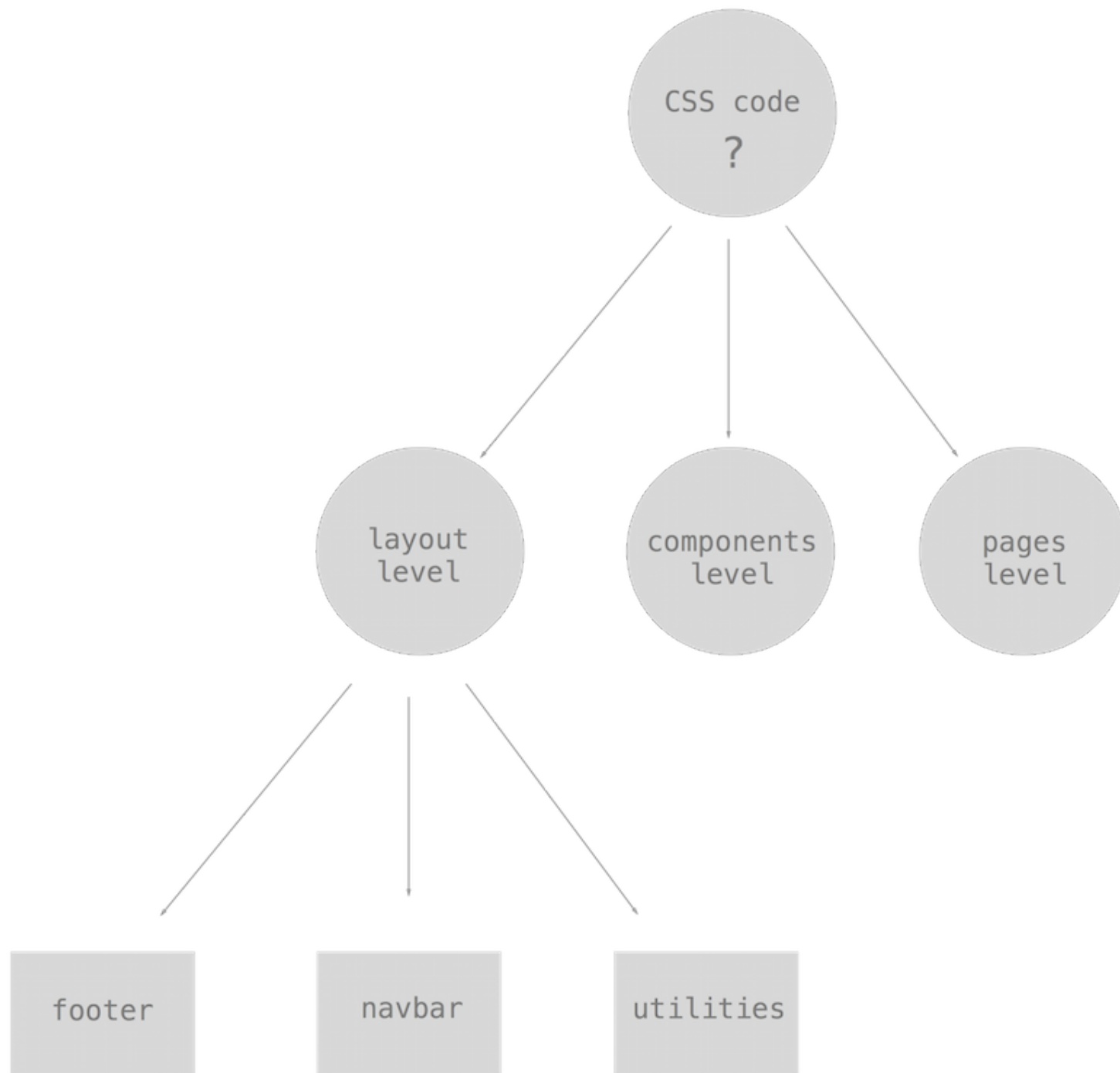
In which file do I write my CSS?

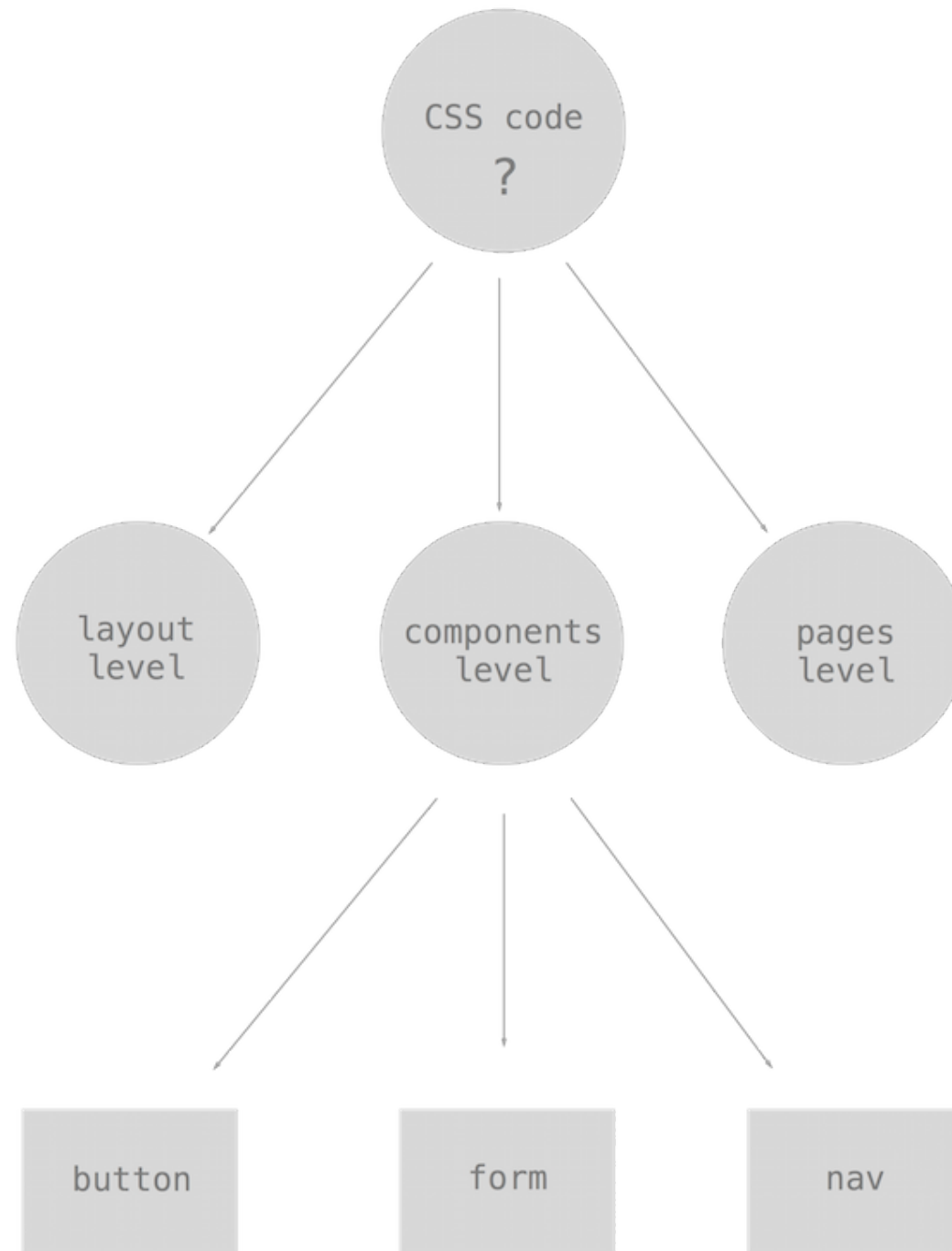


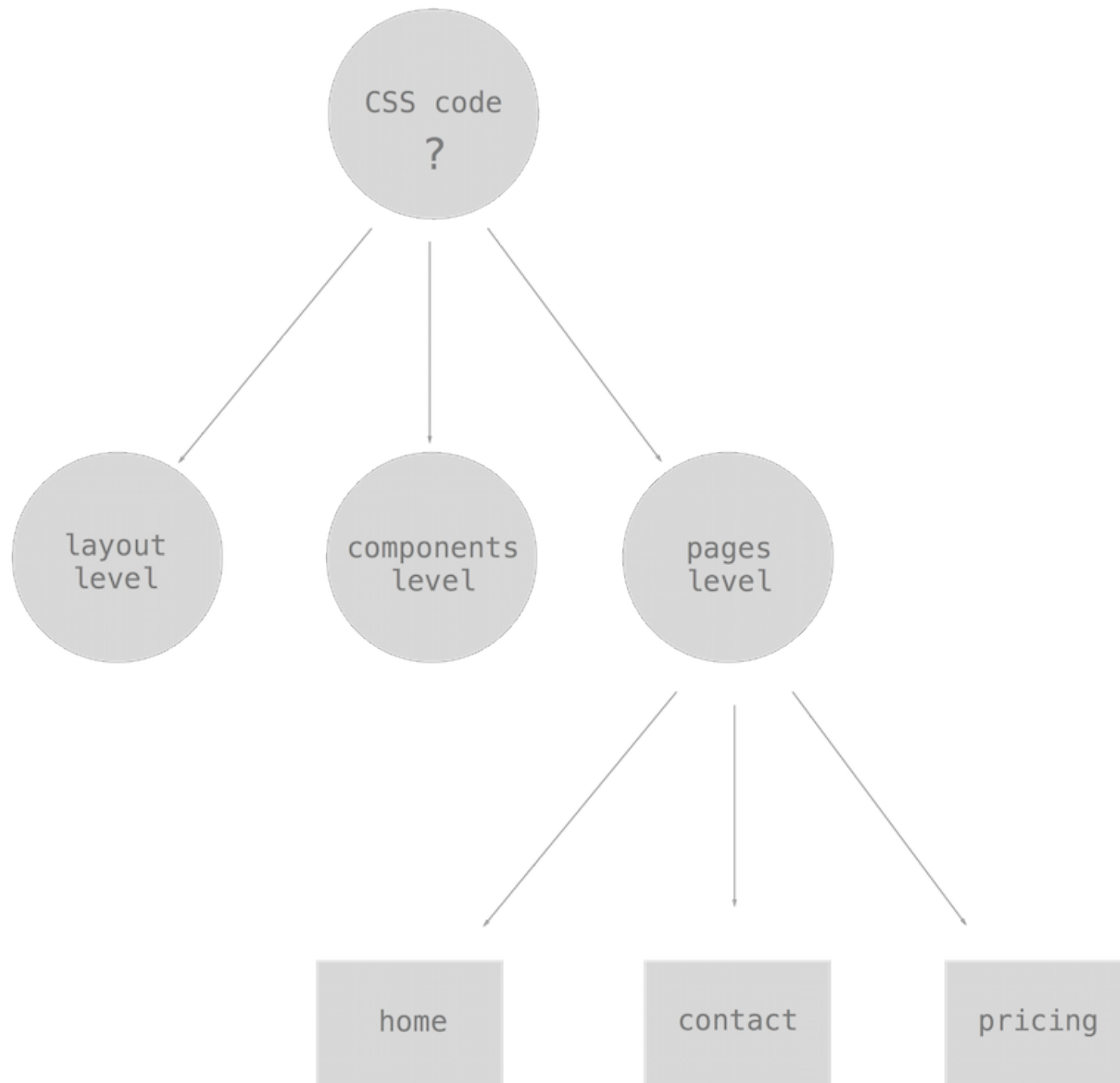
fonts or colors?

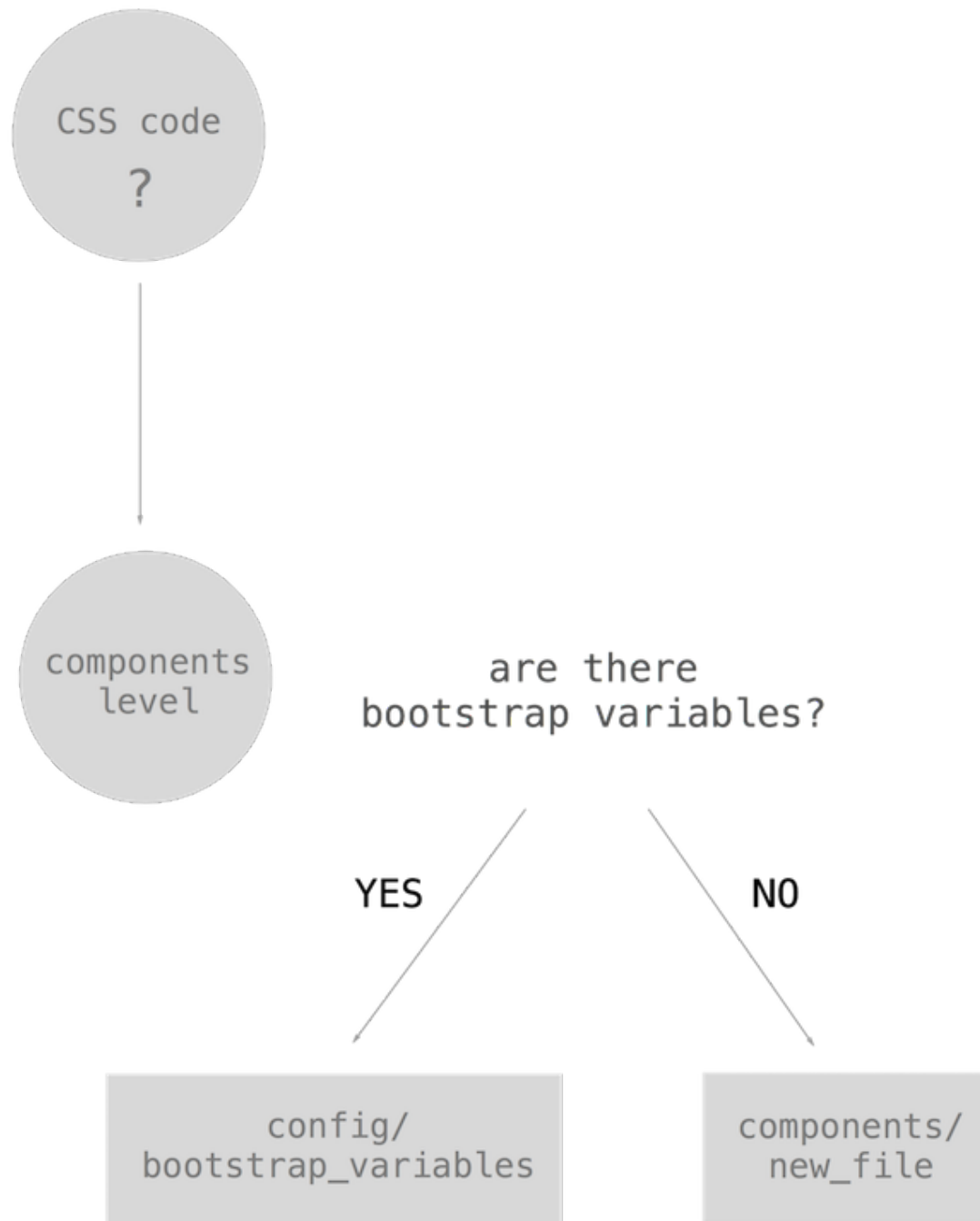




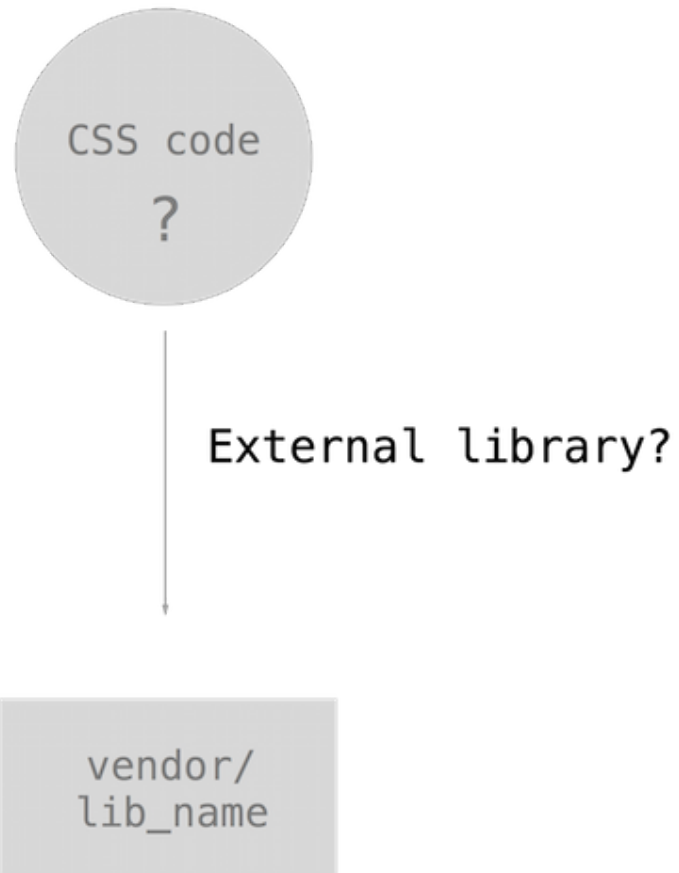








NOT MY CODE !



LOCAL FONTS

Put font files (.eot, .woff, .ttf) in **source/fonts**, then:

```
// config/variables.css.scss
// Local fonts
@font-face {
  font-family: "Font Name";
  src: font-url('FontFile.eot');
  src: font-url('FontFile.eot?#iefix') format('embedded-opentype'),
       font-url('FontFile.woff') format('woff'),
       font-url('FontFile.ttf') format('truetype');
}
$my-font: "Font Name", "Helvetica", "sans-serif";
```

[CHALLENGE]

Challenge 2: Migrate your style in Middleman