

HTML Template

2016.11.16

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Logistics

- Please get started with Assignment 6 early!
- Clarification on using existing templates
- Showcase in final lab(s)

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Today

- HTML Templates with Handlebars
- Maybe D3 collision example

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Handlebars

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HTML templates

- They are extremely helpful if your website has the same layout for many pages
 - e.g.: <http://charlottetang.com/>
- You can have one HTML file for layout and reuse it for each project rather than having multiple pages for each project

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Installation

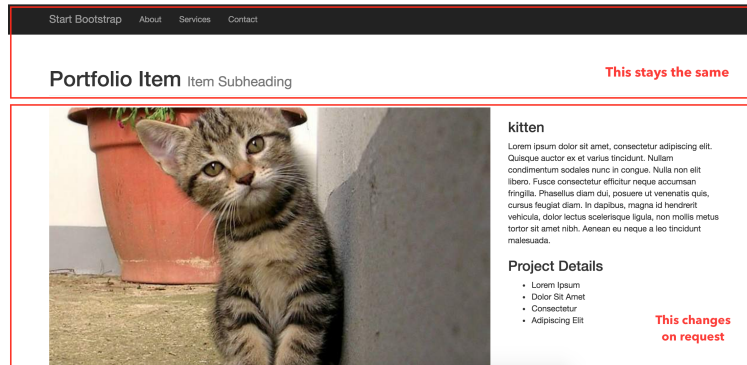
<http://handlebarsjs.com/>

```
<script src="js/handlebars-v4.0.5.js"></script>
```

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Demo

Open index.html in the exercise folder



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General Flow

HTML:

```
<!-- Some general template code -->
<script id="handlebars-showcase" type="text/x-handlebars-template">
</script>
```

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General Flow

HTML:

```
<!-- Some general template code -->
<script id="handlebars-showcase" type="text/x-handlebars-template">
</script>
```

JavaScript

```
// Retrieve the template data from the HTML.
// Compile the template data into a function
// Create HTML code
// Insert the HTML code into the page
```

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HTML

```
<script id="handlebars-demo" type="text/x-handlebars-template">
  <div class="col-md-8">
    <img class="img-responsive" src={{img}} alt="">
  </div>

  <div class="col-md-4">
    <h3>{{name}}</h3>
    <p>{{description}}</p>
    <h3>Project Details</h3>
    <ul>
      <li>Lorem Ipsum</li>
      <li>Dolor Sit Amet</li>
      <li>Consectetur</li>
      <li>Adipiscing Elit</li>
    </ul>
  </div>
</script>
```

{{description}} means a variable with name description

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Content

The variables point to a content source. In this example, the content is stored in the js file:

```
var project = {  
  "name": "placeholder",  
  "id": "0-placeholder",  
  "thumbnail": "http://placeholder.it/500x300",  
  "img": "http://placeholder.it/750x500",  
  "description": "This project was done in collaboration with John Doe and Jane Doe. The p  
}
```

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Connect data with html template

Recall the 4 steps

```
// Retrieve the template data from the HTML.  
// Compile the template data into a function  
// Create HTML code  
// Insert the HTML code into the page
```

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Connect data with html template

Recall the 4 steps

```
// Retrieve the template data from the HTML.  
var template = $('#handlebars-demo').html();  
  
// Compile the template data into a function  
// Create HTML code  
// Insert the HTML code into the page
```

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Connect data with html template

Recall the 4 steps

```
// Retrieve the template data from the HTML.  
var template = $('#handlebars-demo').html();  
  
// Compile the template data into a function  
var templateScript = Handlebars.compile(template);  
  
// Create HTML code  
// Insert the HTML code into the page
```

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Connect data with html template

Recall the 4 steps

```
// Retrieve the template data from the HTML.  
var template = $('#handlebars-demo').html();  
  
// Compile the template data into a function  
var templateScript = Handlebars.compile(template);  
  
// Create HTML code  
var html = templateScript(project);  
// see the html code  
console.log(html);  
  
// Insert the HTML code into the page
```

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Connect data with html template

Recall the 4 steps

```
// Retrieve the template data from the HTML.  
var template = $('#handlebars-demo').html();  
  
// Compile the template data into a function  
var templateScript = Handlebars.compile(template);  
  
// Create HTML code  
var html = templateScript(project);  
  
// Insert the HTML code into the page  
$("#description").html(html);
```

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Update the content on click

Let's say we now have 2 projects

```
var projects = {  
  "projects": [  
    {  
      "name": "placeholder",  
      "id": "0-placeholder",  
      "thumbnail": "http://placeholder.it/500x300",  
      "img": "http://placeholder.it/750x500",  
      "description": "This project was done in collaboration with John Doe and Jane Doe"  
    },  
    {  
      "name": "kitten",  
      "id": "1-kitten",  
      "thumbnail": "http://placekitten.com/500/300",  
      "img": "http://placekitten.com/750/500",  
      "description": "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque"   
    }  
  ]  
};
```

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Update the content on click

Goal: write function such that whenever a user clicks on one of the Related Project image, the site loads the content of the project.

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Update the content on click

```
$("#showcase").on("click", "a", function(evt) {
  evt.preventDefault();

  // Get content by elem id
  var id = ($(this).attr("id")).split("-")[0];
  var content = projects.projects[id]

  // Retrieve the template data from the HTML.
  var template = $('#handlebars-demo').html();

  // Compile the template data into a function
  var templateScript = Handlebars.compile(template);

  // Create HTML code
  var html = templateScript(content);

  // Insert the HTML code into the page
  $("#description").html(html);
});
```

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Deployment

For faster user experience, you can precompile the pages. For more information: <http://javascriptissexy.com/handlebars-js-tutorial-learn-everything-about-handlebars-js-javascript-templating/>

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