

LESSON 12: DATA TEMPLATES

OVERVIEW

Often in an SPA (single-page	e) we have data coming
in and out of our system.	
When data comes in we often	en want to it on the page.
In order to do this we need _	of HTML into which we can
inject the data.	
HANDLEBARS.JS	
Handlebars.js is a	Handlebars.js includes dynamic templating
framework that allows us to:	features that include the ability to:
» Prepare HTML snippets that contain for data values» JSON data into the snippet	» data using filters or "helpers"
	» through data sets
	» display data sets
	»and more!



1. PREPARE HTML TEMPLATE SNIPPETS

Either in the same HTML	file or in a separ	rate file, create a snip	opet that
include Handlebars temp	late	and	like this:
<div class="product"></div>			
<h2>{{name}}</h2>			
<pre>{{c</pre>	lollars price}}<	/p>	
<div class="descrip</td><td>tion">{{{descrip</div>	otion}}}		
» name is a	expression av	vaiting the value with	n that name.
» price is a	expression a	waiting that value bu	ıt will first
process it using the do	ollars		
» description is an	exn	ression (notice the e	xtra
handlebars) that make	es it able to shov	V H I ML content suc	h as tags and
special characters.			



2. _____ THE TEMPLATE

- 1. _____ or ____ the HTML snippet.
- 2. Use Handlebars.compile() to precompile—_____—the snippet.

Option 2_{Δ} : Selecting an internal template

Add <script> tag to document containing template:

Load <script> tag content with jQuery:

</script>

```
var source = $("#product-tpl").html();
var template = Handlebars.compile(source);
```

Option 2_B: Load an external template

Place template in separate file:

```
templates/product.tpl.html
```

Load template when needed using AJAX:

```
$.get("templates/product.tpl.html", function(data) {
   var template = Handlebars.compile(data);
});
```



3. INJECT THE DATA

Use data objects to ______ the Handlebars expressions set up
in the snippets.

var product = {
 name: "Product 1",
 price: 10.00,
 description: "..."
}
...

var html = template(product);

LOADING DATA FROM FILES

Injecting data into a template can involve loading _____ separate files: the template and the JSON data file.

```
$.get("data/product.json", function(data) {
    $.get("templates/product.tpl.html", function(tpl) {
        var template = Handlebars.compile(tpl);
        var html = template(data);
    });
});
```

This creates a "_____" AJAX series where the data is loaded, then the template is loaded and data is injected.

[Scripting]

MORE JSON

JSON can contain a variety of data formats including strings, numbers, booleans, objects, and arrays.

We can use all of these to our benefit when using for templating.

Often we'll package data as a collection: an array that contains objects as its items.



HANDLEBARS TEMPLATING BLOCKS

Handlebars allows for the following helpful blocks:

HANDLEBARS HELPERS

Custom filters for data. Use this pattern:

```
Handlebars.registerHelper("__1_", function(value) {
    __2__
    return value;
});
```

- 1. Name of the helper
- 2. Code that modifies value

[Scripting]

ADVANCED OPERATIONS WITH LODASH

- » Both vanilla JS and jQuery provide some operations for working with arrays and objects but when we begin to work with complex objects a more advanced set of needs arise.
- » Lodash.js is a library of functions we can use for more high-powered processing with lists.
- » Where jQuery uses \$, Lodash uses _ (a "low dash")

_.FIND()

Allows us to search inside a collection for values of those inner objects.

```
_.find(__1__, __2__);
```

- 1. The collection in which to search.
- 2. The filter or search criterion such as an object snippet:

```
{ "color": "Red" }
```