

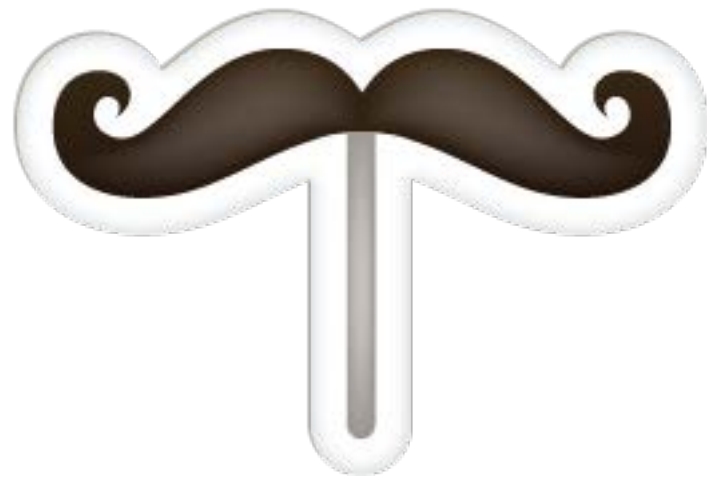
Building Blocks of Handlebars



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Today's Menu



Smooth Demonstration

Dawn of a Conversion

Lots of Lists

"As if? Or else!"

Partially Partial

They're called illusions, Michael...

Get the Class Starter Code

<http://www.ryanhlewis.com/pluralsight/>



Dependencies

Handlebars


jQuery

Material Design Lite

Having Issues?

Tell Bower to use https:// instead of git://
with this command:

```
$ git config --global url."https://".insteadOf git://
```



Yo Handlebars!
Express yourself!

{{im_an_expression}}

{{id}}

{{name}}

{{image}}

Handlebars Example

Template

```
Dogs are the {{dog_quality}}!
```

Data (Context)

```
{  
  dog_quality : 'bestest'  
}
```

Handlebars Output

```
Dogs are the bestest!
```


Handlebars

Global JavaScript object

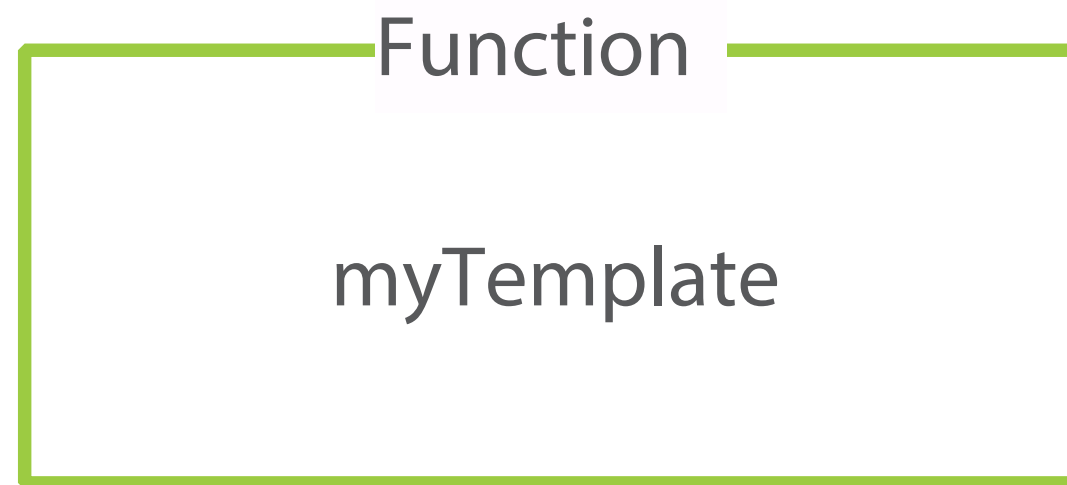
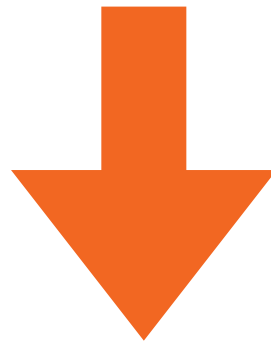
How to Render a Template

`Handlebars.compile(template) options)`
`Handlebars.compile()`



optional

```
Handlebars.compile(myTemplate);
```



Simple Handlebars Rendering Example

```
var template = `My name is {{name}}.`;  
  
var compiled = Handlebars.compile(template);  
  
var rendered = compiled({ name: `Ryan` });
```

The Handlebars Dance

Get Template

Compile Template

Render with Data

Insert Rendered HTML

Nested Paths in Mustache

```
{{#myObj}}  
  Name: {{name}}  
  Age: {{age}}  
  Address: {{#address}}  
    {{street}}  
    {{city}}, {{state}} {{zip_code}}  
  {{/address}}  
{{/myObj}}
```

*Can you imagine having to do this
for every object?!*

Nested Paths in Handlebars

Name: `{{myObj.name}}`

Age: `{{myObj.age}}`

Address: `{{myObj.address.street}}`

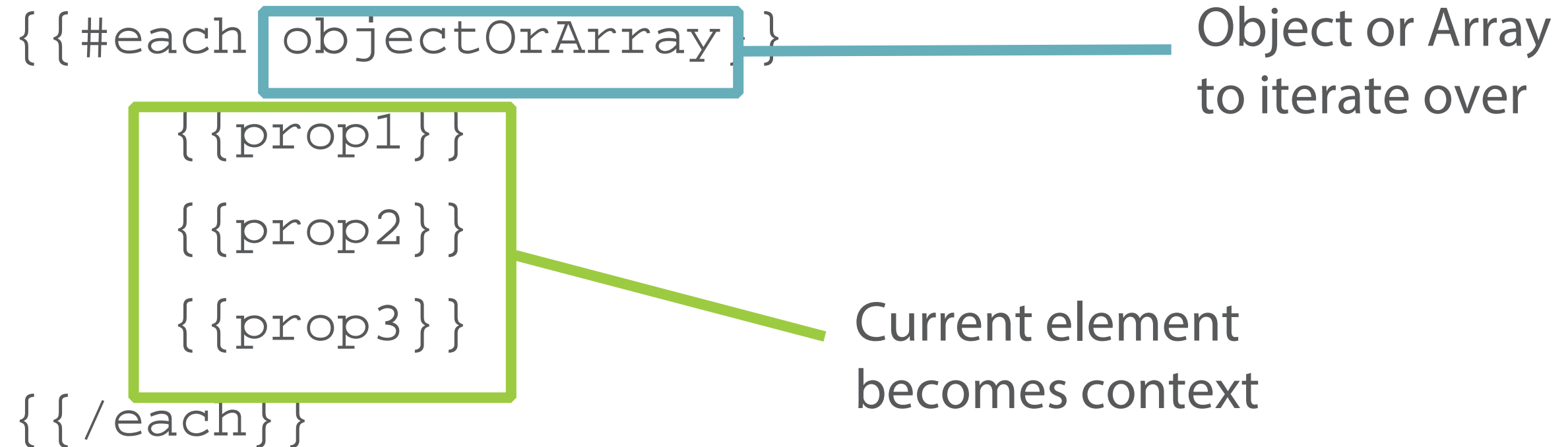
`{{myObj.address.city}}, {{myObj.address.state}}`
`{{myObj.address.zip_code}}`

Localization with Handlebars

Handlebar's Most Used Helper

Each!

Each Helper Structure



Each Helper Example

Template

?! arguments!?

```
{{#each dogs}}  
  {{this}}  
{{/each}}
```

Output

Spot

Fluffy

Maybe

Template Data

```
{  
  'dogs': [  
    'Spot',  
    'Fluffy',  
    'Maybe'  
  ]  
}
```

Handlebars Blocks

Begin opening expression with #

Begin closing expression with /

Use the same property in both expressions

Block Examples

Object Context

```
{ { #dog } }  
  { { name } }  
  { { breed } }  
{ { /dog } }
```

Each Helper Block

```
{ { #each dogs } }  
  { { this } }  
{ { /each } }
```

Handlebars Expression Arguments

```
{{siteTitle}}
```



first argument

```
{{someHelper arg1 arg2}}
```



other arguments

Each Helper Example ~ Object Edition!

Template

```
{{#each users}}  
  Name: {{name}}  
    
{{/each}}
```

Output

```
  Name: Ryan  
  
  Name: Joe  

```

Template Data

```
{ 'users': [  
  { name: 'Ryan',  
    image: 'ryan.jpg'  
  },  
  { name: 'Joe',  
    image: 'joe.jpg'  
  }  
]}
```

@data variables

Special properties in Handlebars

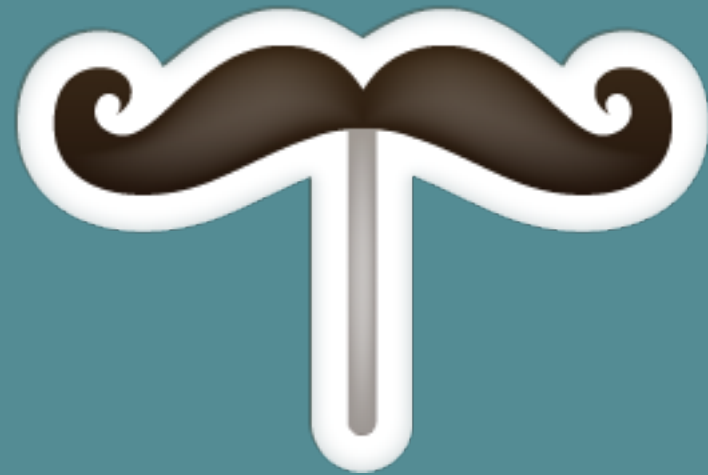
@root

Root context of the template

mustache

logic-less templates™

handlebars



I've got if/else
helpers!

What about
me?!

mustache

If / Else in Mustache

```
{{#propOrNot}}
```

```
  I exist!
```

```
{{/propOrNot}}
```

```
{{^propOrNot}}
```

```
  I don't exist!
```

```
{{/propOrNot}}
```

← if

← else

Handlebars Brings the If's

```
{{#if truthyOrFalsy}}
```

```
  I am truthy!
```

```
{{/if}}
```

Handlebars If Helper Limitations

No Comparisons

No Operations

Only One Argument

Don't Forget Else

```
{{#if truthyOrFalsy}}  
    Wait, I thought I was falsy?  
{{else}}  
    I knew I was falsy!  
{{/if}}
```

Each + Else Example

```
{{#each dogs}}  
    {{dog_stuff}}  
{{else}}  
    No dogs!  
{{/each}}
```

Handlebars Partials

“basically mini-templates” - Ryan Lewis

Partial Usage

.Modularize templates
for sanity

.Modularize templates
to remove redundancy

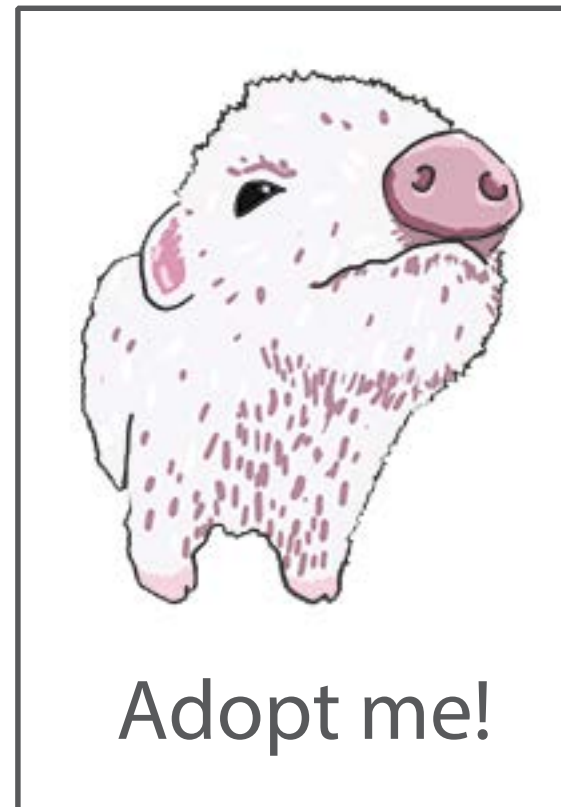
Dog of the Day Widget



Index
Template



Search
Template



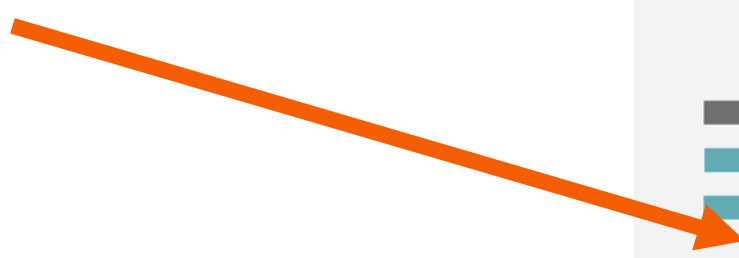
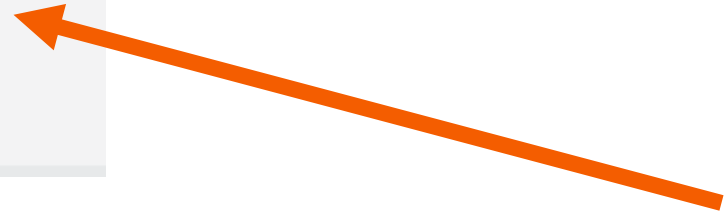
Partial



User
Template



Article
Template



Simplify Your Templates

mega
huge
template



Header Partial

Article Partial


Comments Partial

Footer Partial

Registering a Partial

```
var dog_template = '<div>{{dog.name}} is a cutie!</div>';  
Handlebars.registerPartial('dog', dog_template);
```

Partial
Reference
Name



Partial
Template



Using a Partial

```
<script id="my_template">
```

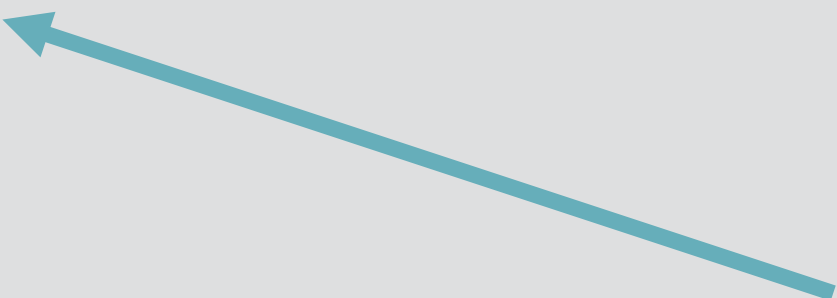
```
...
```

```
  {{> dog}}
```

```
...
```

```
</script>
```

Receives same context as
outer template



Handlebars Escapes HTML

data: { html : 'ampersand => &' }

template: <div>{{html}}</div>

output: <div>ampersand => &</div>

The Secret to Raw HTML

{ { {

} } }

Handlebars with Raw HTML

```
data: { html : '<b>DOG</b>' }
```

```
template:<<div>{{{html}}}</div>
```

```
output:<div><b>DOG</b></div>
```

Handlebars Output Can Look Funky

```
<ul>
```

```
    <li>Dog #1</li>
```

```
<li>Dog #2</li>    <li>Dog #3</li>
```

```
<li>Last Dog</li>
```

```
</ul>
```

Tilde Killed the Whitespace

`{{~prop1}}`

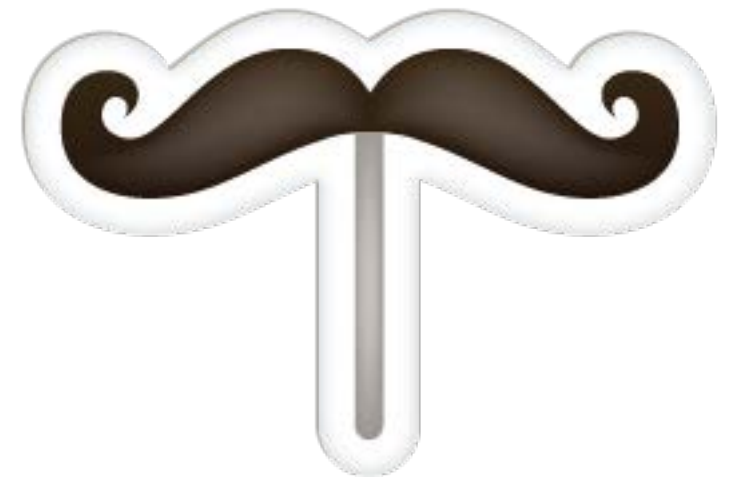
`{{prop1~}}`

`{{~prop1~}}`

`{{~#each prop1~}}`

Summary

- Dog Demo
- JQ, Hbars & MDL acquired!
- Basic Handlebars Expressions
- Built-in Each Helper
- I said 'dog' a lot!
- If / Else is okay
- Partials
- Raw, Vegan HTML
- Whitespace Extinction Event



Next Time on JavaScript Templating with Handlebars

Helpers

“They are very helpful.” - Ryan Lewis