

# Handlebars 2

---

Website Development 2

# Handlebars 2

---

- Custom Helpers
- Partials
- Adding New Data

# Custom Helpers

---

- Handlebars has some built in helpers such as `#each`, `#if`, etc...
- Handlebars also gives you the ability to create your own custom helper by writing code to do something that you want (like converting names to sentence case).
- Simply register your function into Handlebars, and any template you compile afterwards can access your helper.
- Custom block helpers are also registered with the **`Handlebars.registerHelper`** method.

# Custom Helpers Example One

---

```
Handlebars.registerHelper('upper', function(str) {  
  return str.toUpperCase();  
});
```

← Create the  
Helper

```
<ul>  
  {{#each people}}  
    <li>{{upper name}} - {{../group}}</li>  
  {{/each}}  
</ul>
```

← Reference  
the Helper  
(*upper*) in  
the template

# Custom Helpers Example One

---

```
var data = [  
var data = { people: [  
    {name: "alan murphy"},  
    {name: "Allison Doyle"},  
    {name: "Ryan Smith"}  
],  
group: "Bloggers"  
};
```

← JSON object  
(data source)

# Custom Helpers Example One

---

- ALAN MURPHY - Bloggers
- ALLISON DOYLE - Bloggers
- RYAN SMITH - Bloggers

# Custom Helpers Example Two

---

```
Handlebars.registerHelper('calculateScore', function(score) {  
  var total=0;  
  for (i in score) {  
    total+=score[i];  
  }  
  var avg=Math.round(total/score.length);  
  return avg;  
});
```

# Custom Helpers Example Two

---

```
<table border="1">
  <thead>
    <th>Name</th>
    <th>Average Score</th>
  </thead>
  <tbody>
    {{#each this}}
      <tr>
        <td>{{firstName}} {{lastName}}</td>
        <td>{{calculateScore score}}</td>
      </tr>
    {{/each}}
  </tbody>
</table>
```



# Custom Helpers Example Two

---

```
var data = [  
  {firstName: "Kapil",  
    lastName: "Manish",  
    score: [22, 34, 45, 67]  
  },  
  {firstName: "Bruce",  
    lastName: "Kasparov",  
    score: [10, 34, 67, 90]  
  }  
];
```

# Custom Helpers Example Two

---

Name	Average Score
Kapil Manish	42
Bruce Kasparov	50

# Handlebars 2

---

- Custom Helpers
- **Partials**
- Adding New Data

# Partials

---

- Partials come in handy when you have a chunk of a Handlebars.js template that you need to use in a few different contexts.
- The **Handlebars.registerPartial** method registers a partial.
- It takes the *name* of the partial as its first argument and either a *template source string* or a *compiled template* as its second argument.
- To use a partial from a template, simply include **{{> partialName}}**.

# Partials Example One

---

```
<script id="person-partial" type="text/x-handlebars-template">
  <div>
    Phone: {{phone}}<br>
    <a href="mailto:{{email}}">{{email}}</a><br>
    User since {{member_since}}
  </div>
</script>
```

← **Partial  
template**

**Register the Partial**



```
Handlebars.registerPartial("person", $("#person-partial").html());
```

# Partials Example One

---

```
{{#each people}}  
  <h2>{{first_name}} {{last_name}}</h2>  
  {{> person}}  
{{/each}}
```



**Include (call) the  
Partial (person) in  
the template**

**JSON object**



```
var data = {  
  people: [  
    { first_name: "Alan", last_name: "Johnson", phone: "1234567890", email: "alan@test.com", member_since: "Mar 25, 2011" },  
    { first_name: "Allison", last_name: "House", phone: "0987654321", email: "allison@test.com", member_since: "Jan 13, 2011" },  
    { first_name: "Nick", last_name: "Pettit", phone: "9836592272", email: "nick@test.com", member_since: "Apr 9, 2009" },  
    { first_name: "Jim", last_name: "Hoskins", phone: "7284927150", email: "jim@test.com", member_since: "May 21, 2010" },  
    { first_name: "Ryan", last_name: "Carson", phone: "8263729224", email: "ryan@test.com", member_since: "Nov 1, 2008" }  
  ]  
};
```

# Partials Example One

---

## Handlebars Partials Example!

### Alan Johnson

Phone: 1234567890  
[alan@test.com](mailto:alan@test.com)  
User since Mar 25, 2011

### Allison House

Phone: 0987654321  
[allison@test.com](mailto:allison@test.com)  
User since Jan 13, 2011

### Nick Pettit

Phone: 9836592272  
[nick@test.com](mailto:nick@test.com)  
User since Apr 9, 2009

### Jim Hoskins

Phone: 7284927150  
[jim@test.com](mailto:jim@test.com)  
User since May 21, 2010

# Partials Example Two

---

```
<script id="dropdown-partial" type="text/x-handlebars-template">
<div class="ui selection dropdown">
  <input type="hidden" name="user">
  <i class="dropdown icon"></i>
  <div class="default text">Select Friend</div>
  <div class="menu">
    {{#each this}}
      <div class="item" data-value={{name}}>
        <img class="ui mini avatar image" src={{image}}>
        {{capitalise fullname}}
      </div>
    {{/each}}
  </div>
</div>
</script>
```

```
Handlebars.registerPartial("dropdown", $("#dropdown-partial").html());
```



# Partials Example Two

---

```
<script id="cards" type="text/x-handlebars-template">
  {{> dropdown}}

  {{#each this}}
  <div class="ui card" id ={{name}}>
    <div class="image">
      <img src={{image}}>
    </div>
    <div class="content">
      <a class="header">{{capitalise fullname}}</a>
      <div class="meta">
        <span class="date">Joined in {{joined}}</span>
      </div>
      <div class="description">
        {{name}} is {{job}} in {{city}}
      </div>
    </div>
    <div class="extra content">
      <a>
        <i class="user icon"></i>
        {{mates}} Friends
      </a>
    </div>
  </div>
  {{/each}}
</script>
```

# Partials Example Two







---

## Which Friend?

Select Friend ▼

## Which Friend?

Select Friend ▼

-  Stevie Feliciano
-  Helen Hess
-  Elliot Fu
-  Christian Monroe
-  Matt Smith
-  Jenny Howe

## Which Friend?

 Helen Hess ▼



**Helen Hess**

Joined in 2013

*Helen is Art Director in New York*

 22 Friends

# Handlebars 2

---

- Custom Helpers
- Partials
- Adding New Data

# Adding New Data

---

- If you want to add data to a JSON object, you can create a form with text boxes, select options, option buttons, etc..  
and a submit button.
- The submit button will package the data and send it for processing.
- Code will need to be written to handle (process) the submit event.

# Adding New Data

---

- The code to handle the submit event will take the data (name/value pairs) and put it into an object.
- This new object is then added (pushed) onto the JSON object.

# Adding New Data

---

```
const dept = {  
  title: "Sales",  
  employee : [  
    {  
      'id':1,  
      'firstname': "Fred",  
      'lastname': "Bloggs",  
      'county': 'Kilkenny',  
      'email': 'fbloggs@gmail.com'  
    },  
    {  
      'id':2,  
      'firstname': "Katy",  
      'lastname': "Malone",  
      'county': 'Waterford',  
      'email': 'kmalone@gmail.com'  
    },  
    {  
      'id':3,  
      'firstname': "Sam",  
      'lastname': "Dunne",  
      'county': 'Waterford',  
      'email': 'samdunne@gmail.com'  
    }  
  ]  
};
```

```
newemp= {  
  id:$('#id').val(),  
  firstname:$('#firstname').val(),  
  lastname:$('#lastname').val(),  
  county:$('#county').val(),  
  email:$('#email').val()  
}  
dept.employee.push(newemp);
```

# Adding New Data

---

## Sales

Emp ID	Employee Name	Address	Email Address
1	Fred Bloggs	Kilkenny	fbloggs@gmail.com
2	Katy Malone	Waterford	kmalone@gmail.com
3	Sam Dunne	Waterford	samdunne@gmail.com

Add Employee

# Adding New Data

---

Employee Name

Address

Email Address



## Add Employee

Employee ID

First Name

Last Name

County

Email Address

**Add Employee**



# Adding New Data

---

Employee Name	Address	Email Address
<h2>Add Employee</h2>		
Employee ID	<input type="text" value="4"/>	
First Name	<input type="text" value="Joe"/>	
Last Name	<input type="text" value="Quinn"/>	
County	<input type="text" value="Kilkenny"/>	
Email Address	<input type="text" value="joequinn@gmail.com"/>	
<input type="button" value="Add Employee"/>		

# Adding New Data

---

## Sales

Emp ID	Employee Name	Address	Email Address
1	Fred Bloggs	Kilkenny	fbloggs@gmail.com
2	Katy Malone	Waterford	kmalone@gmail.com
3	Sam Dunne	Waterford	samdunne@gmail.com
4	Joe Quinn	Kilkenny	joequinn@gmail.com

Add Employee