Harnessing the Power of Helpers

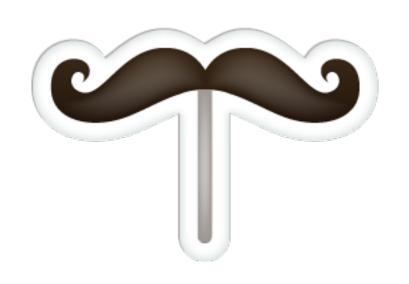




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Today's Menu



Properties that are.. Functions?

Still convincing you that Helpers are good

Enough Helpers to start a band

Demo Complete!

Handlebars Expressions

Numbers

Strings

Functions?

Handlebars executes function properties



Function Property

Function Property Benefits

Works in Templates Works in JavaScript Unit Testable

Function Properties

Locally Scoped
Defined in Mustache

Helpers

Globally Scoped Implemented in Handlebars Helpers = \$.ajax()?

Helpers...

are global references to JavaScript functions

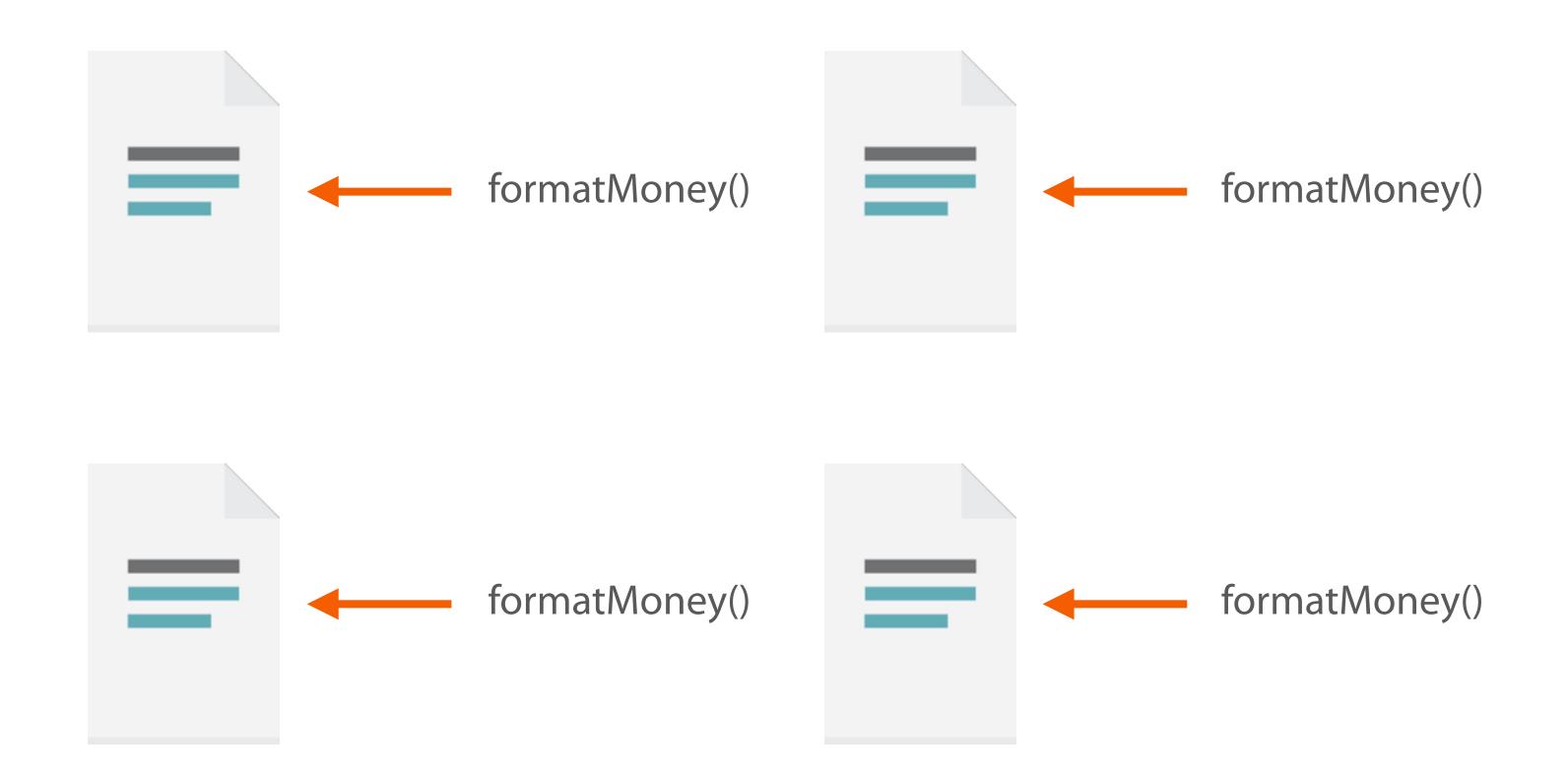
accept arguments

accept templates

output strings to render

Our Function

```
function formatMoney(number) {
    //returns money formatted number as string
}
```



Difficulties Arise in Iteration

```
{{#each moneyThings}}
  {{moneyAsNumber}}
{{/each}}
                   @root.formatMoney()?
       Handlebars Only!
```

Calling Functions with Arguments

```
{{#formatMoney}}

{{number}}

{{formatMoney}}
```

Handlebars Helpers

One Function Call

One Expression

Done!

We're Finally Creating Helpers!

"Took us long enough..." - Everyone

Helpers Birthplace

```
function exampleHelperFunction() {
    //doing some helper stuff
}
```

Helper Registration

Helper Function

Helper Arguments

```
function exampleHelperFunction(arg1, arg2) {
    //this.something
    //this.anotherThing
}
```

*this refers to context where helper was called

Register Helper Before Rendering It

Helper References Will Override Properties

Helpers in Templates

Helpers - Also Great in JavaScript!

Helpers' Secret Hideout

Handlebars.helpers

Subexpressions

Helpers inside Helpers

Subexpression Usage

```
{{formatMoney (applySalesTax 4589)}}
                      Executes First
   Executes After
```

Implementing Pagination

Render Paginated Dogs

Render Page Links

Block Helpers

Block Helper Syntax

```
{{#myHelper onlyArg}&rg2=arg2 arg3='arg3'}}

//helper stuff
Only One Argument Allowed
{{/myHelper}}
```

Block Helpers in JavaScript

```
function blockHelperFunction(context, options) {
    //block helper stuff
}
Special Object
```

Argument from Template

Options Argument Properties

hash

Contains hash arguments from template expression

fn

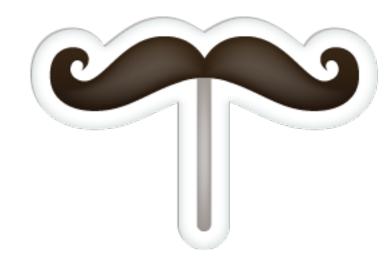
Compiled function containing inner template

Using options.fn

```
function blockHelperFunction(context, options) {
    //logic
    return options.fn(context);
}
```

Summary

- Handlebars Second Cousins
- Helpers vs. The State
- First Helper of Many
- Multi-Dimensional Helpers
- Helper-ception
- The Final Helper



Next Time on JavaScript Templating with Handlebars

Handlebars in The Real World

Scalable Structure
Build Tools
Pre-Compilation