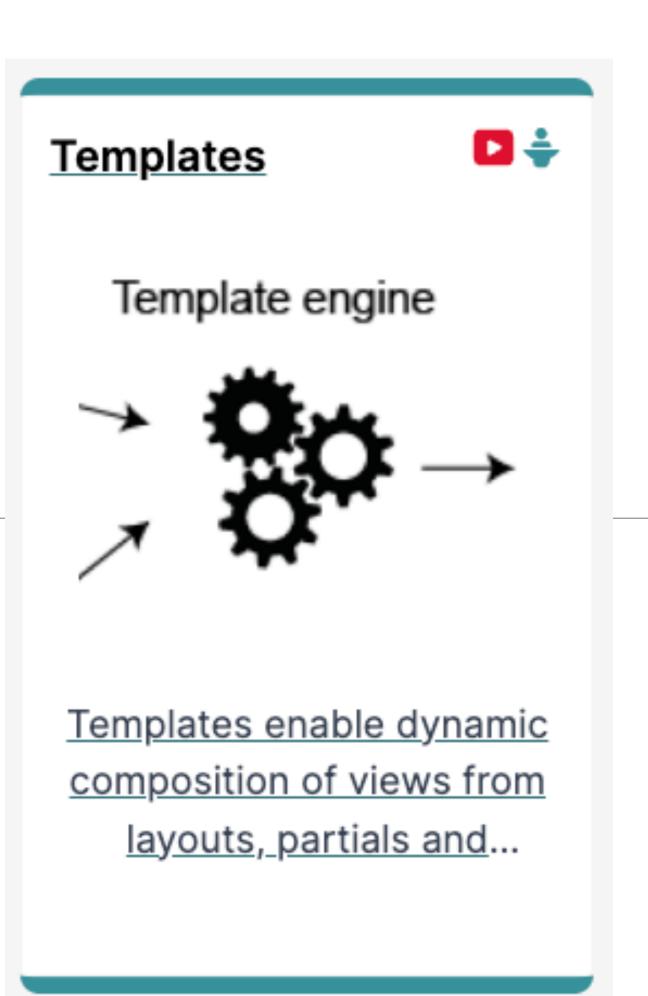
Templates

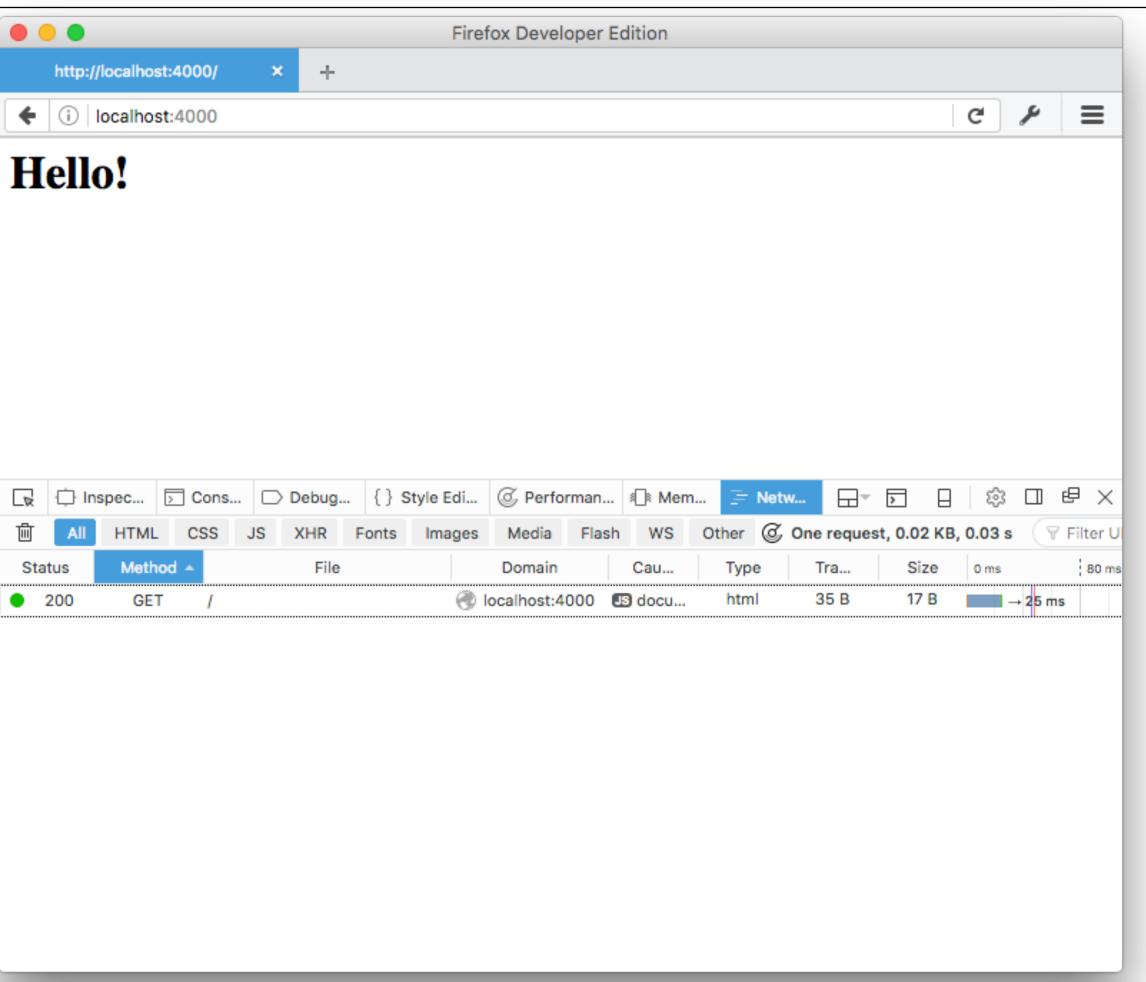


response.send

- In order to render web pages we could pass html content
- This would become very unwieldy and unmaintainable

```
const start = {
  index(request, response) {
    logger.info('start rendering');
    response.send('<h1> Hello </h1>');
  },
};
```

start.js



Front-end

```
views/
vlayouts/
main.hbs

partials/
brand.hbs
menu.hbs
about-view.hbs
dashboard-view.hbs
```





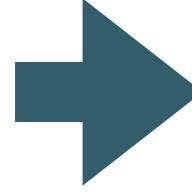
- All written in HTML + handlebars
- Handlebars: Templating language
- Similar to the templating we've seen, it supports:
 - Layouts
 - Partials
 - Views
- These are very similar to Eleventy equivalents that we worked with nunjucks

Partials & Layouts

 Partials & Layouts play a prominent role in enabling DRY (Dont Repeat Yourself) principles

Layouts: Reusable Page
 Structure

 Partials: Reusable templates



```
<!DOCTYPE html>
<html lang="en-IE">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device
  <title>{{title}}</title>
  k rel="stylesheet" href="https://cdn.js
</head>
<body>
  <div class="container">
    {{{body}}}
  </div>
</body>
</html>
```

Partials

- Handlebars partials allow for code reuse by creating shared templates.
- Calling the partial is done through the partial call syntax:

{{> myPartial }}

 Will render the partial named myPartial. When the partial executes, it will be run under the current execution context.

myPartial.hbs

```
<nav class="navbar mb-6">
  <div class="navbar-brand">
    {{> brand}}
  </div>
  <div class="navbar-menu" id="navMenu">
    <div class="navbar-end">
      <div class="navbar-item">
        <div class="buttons">
          <a id="dashboard" class="button" href="/dashboard"> Dashboard </a>
          <a id="about" class="button" href="/about"> About </a>
        </div>
     </div>
    </div>
  </div>
</nav>
<script>
  document.getElementById("{{active}}").classList.add("is-primary");
</script>
```

Layout

- All views will be based on structure laid down in main.hbs.
- Includes Bulma CSS library
- View content will be inserted into {{{body}}}

```
<!DOCTYPE html>
<html lang="en-IE">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device
  <title>{{title}}</title>
  k rel="stylesheet" href="https://cdn.js
</head>
<body>
  <div class="container">
 {{{body}}}
  </div>
</body>
</html>
```

Template Expressions

- In addition to layouts + partials, tempting also support **Template Expressions**
- These expressions enable external information to be incorporated into a page.
- This information will be delivered via Javascript Objects

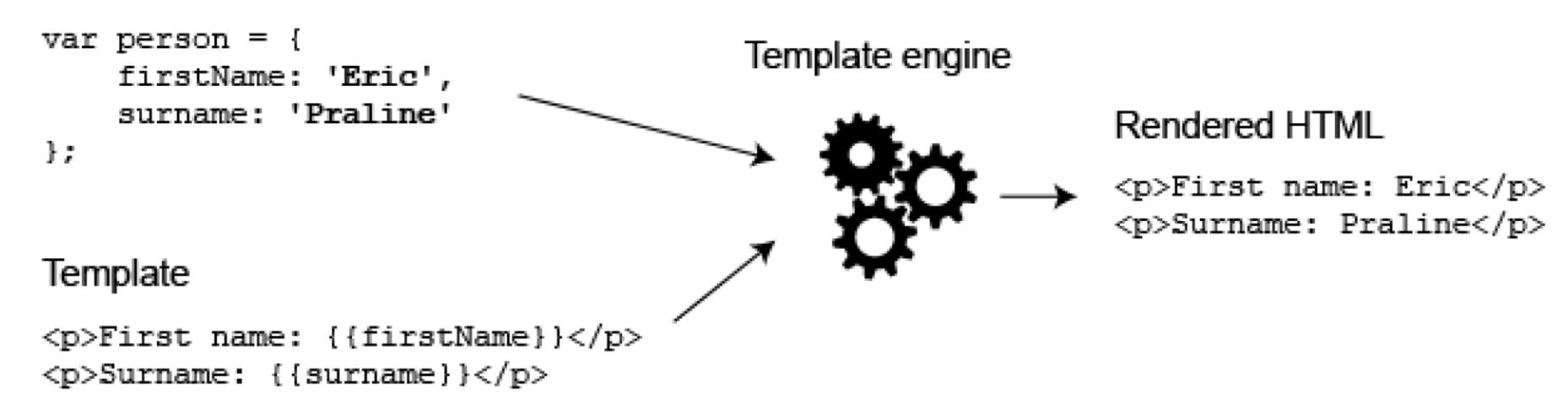


```
<div class="entry">
  <h1>{{title}}</h1>
  <div class="body">
    {{body}}

  </div>
</div>
```

Tempting Engine

Context



Template Expressions

 A handlebars expression is a {{, some contents, followed by a }}

```
<div class="entry">
    <h1>{{title}}</h1>
    <div class="body">
     {{body}}

    </div>
    </div>
```

```
var context = {title: "My New Post", body: "This is my first post!"};
```

- In Javascript, create an object literal with matching properties
- When rendered, the properties replace the handlebars expressions

```
<div class="entry">
  <h1>My New Post</h1>
  <div class="body">
    This is my first post!
  </div>
</div>
```

each helper

You can iterate over a list using the built-in each helper. Inside the block, you can use this to reference the element being iterated over.

```
    {#each people}}
    {\text{this}}
    {\text{each}}
```

when used with this context:

```
{
    people: [
        "Yehuda Katz",
        "Alan Johnson",
        "Charles Jolley"
]
}
```

will result in:

About Controller -> About View

about-controller.js

```
export const aboutController = {
  index(request, response) {
    const viewData = {
      title: "About This Application",
    console.log("about rendering");
    response.render("about-view", viewData);
};
```

Template Application 1.0 Dashboard About **Template Application** Description of the app here...

about-view.hbs

response.render locates the named template and sends it to the browser

```
{{> menu active="about"}}
<section class="box is-3 has-text-centered">
  <h3 class="title">
    Template Application
  </h3>
  <div class="section">
    Description of the app here...
  </div>
</section>
```

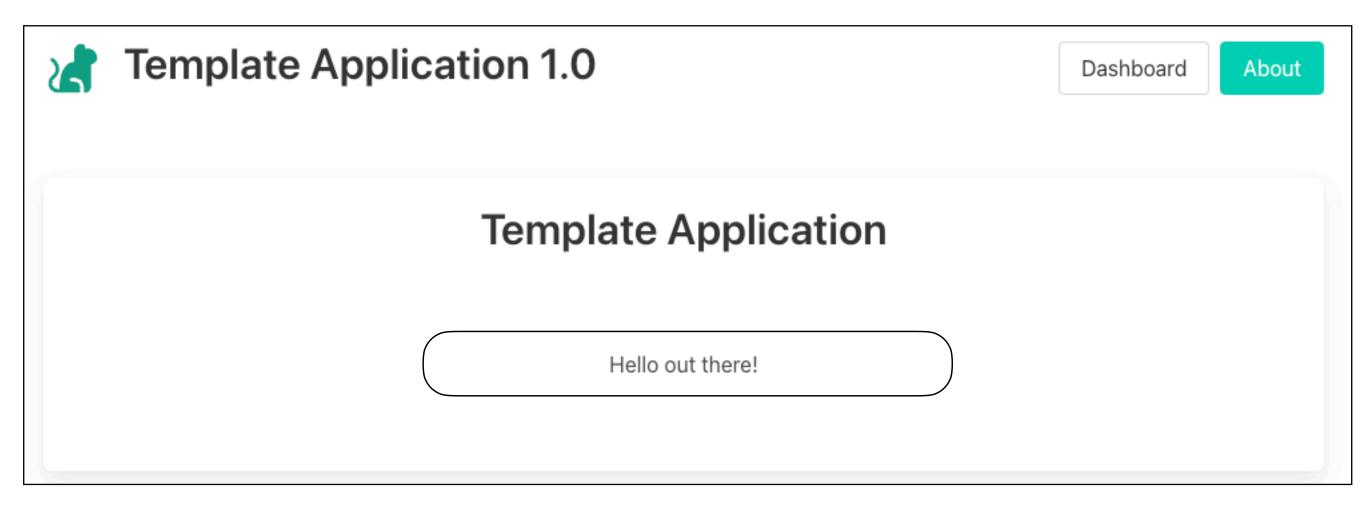
- It also passes the viewData object to the to the view
- The View may or may not use the data in this object (not used in above example)

about-controller.js

```
export const aboutController = {
  index(request, response) {
    const viewData = {
       title: "About This Application",
       greeting: "Hello out there!"
    };
    console.log("about rendering");
    response.render("about-view", viewData);
  },
};
```

 We can pass simple and complex data to the views

About Controller -> About View



about-view.hbs

 {{greeting}} replaced with the value in the viewData object called 'greeting'

Templates

