

Insert content from the host element inside the Shadow DOM

GENERIC INJECTION WITH `<CONTENT></CONTENT>` IN HTML5 TEMPLATE

It is possible to set some parts of a template in which external HTML content will be "injected". For this, we use the `<content>...</content>` element, as shown below:

```
<template id="mytemplate">
  <h1 part='heading'>This is a shadowed H1</h1>
  <p part="paragraph">
    <content></content>
  </p>
</template>
<body>
  <H1 class="myWidget">Injected content</h1>
10. </body>
```

Explanations:

- Look at *line 4*, this is the "injection point"!
- And *line 9* is where the injection is done. So, when the classic template instantiation and its addition to a shadow host node in the page is done, the HTML produced will contain "Injected Content" instead of `<content>`
`</content>`.

See [the complete online example at JSBin](#):

jsbin.com/nacahizo/9/edit?html,output

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HTML

```
<template id="mytemplate">
  <h1 part='heading'>This is a shadowed H1</h1>
  <p part="paragraph">
    <content></content>
  </p>
</template>

<body>
  <H1 class="myWidget">Injected content</h1>
</body>
```

Output

Run with JS Auto-run JS

This is a shadowed H1

Injected content

This is the rendered part

MORE SPECIFIC CONTENT INJECTION WITH `<CONTENT SELECT="..."></CONTENT>`

We can use a `select` attribute in the `<content>` element of the template. This attribute's value is a CSS selector and the value should match elements from the page where the template will be instantiated. Here is how this "more specific" injection works:

```
<template id="mytemplate">
  <h1 part='heading'><contentselect="#titleToInject">
</content></h1>
  <p part="paragraph">
    <content select="#partToInject"></content>
  </p>
</template>
<body>
  <div class="myWidget">
    <span id="titleToInject">Title injected</span>
    <span id="partToInject">Paragraph injected</span>
```

10.

```
</div>
</body>
```

Explanations:

- Lines 2 and 4 contain a `<content select=a_css_selector>` `</select>` element, and lines 10 and 11 do the injection.
- The elements that will be injected must have an `id` that matches the CSS selector used in the `<content select=...></select>` lines.
- In the example, line 2 injects the value of an external element whose `id` is "titleToInject", this is the `` at line 10.

Complete online example at JSBin:

The screenshot shows a JSBin editor with the following HTML code:

```
<template id="mytemplate">
  <h1><content select="#titleToInject">This is a shadowed H1</content></h1>
  <p><content select="#partToInject">Paragraph part</content></p>
</template>

<body>
  <H1 class="myWidget">
    <span id="titleToInject">Title injected</span>
    <span id="partToInject">Paragraph injected</span>
  </h1>
</body>
```

On the right, the rendered output is shown. It displays "Title injected" in a large, bold, black serif font, and "Paragraph injected" in a smaller, bold, black serif font. Red arrows labeled "Injection" point from the `<content>` tags in the code to the rendered text. A red arrow labeled "Rendering" points from the `` tags in the code to the rendered text.

A USEFUL TOOL FOR DEBUGGING THESE INJECTION TECHNIQUES

- **The Shadow DOM visualizer**, by Eric Bilderman, is available at: <http://html5-demos.appspot.com/shadowdom-visualizer>. This tool allows you to visualize how Shadow DOM renders in the browser. Both code blocks on the left are editable. Try changing the `<content>` insertion points, removing, or adding new ones to see how the composited tree is affected. You can also move over the nodes on the right to highlight the relevant markup on the left.

html5-demos.appspot.com/shadowdom-visualizer

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What's this?

ShadowDOM Visualizer

HOST NODE

```
<div id="host">
  <h2>Eric</h2>
  <h2>Bidelman</h2>
  <div class="desc">
    Title: <span>Digital Jedi</span>
  </div>
  <div>Not selected</div>
  <h4>footer text</h4>
</div>
```

SHADOW DOM

```
<header>
  <content select="h2">
</content>
</header>
<section>
  <content select="div.desc">
</content>
</section>
<footer>
  <content select="h4">

```

COMPOSED/RENDERED TREE

```
graph TD
    host["div[id=host]"] --> header["header"]
    host --> section["section"]
    host --> footer["footer"]
    header --> content_h2["content[select=h2]"]
    content_h2 --> h2_eric["h2 #Eric"]
    content_h2 --> h2_bidelman["h2 #Bidelman"]
    section --> content_desc["content[select=div.desc]"]
    content_desc --> div_title["div[class=desc] #Title:"]
    div_title --> span_jedi["span #Digital Jedi"]
    footer --> content_h4["content[select=h4]"]
    content_h4 --> h4_text["h4 #footer text"]
```