Templates

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Agenda

Existing template strategies

Defining Templates

Activating Templates

Injecting Data

Nested Templates

You Already Use Templates Today



HAML

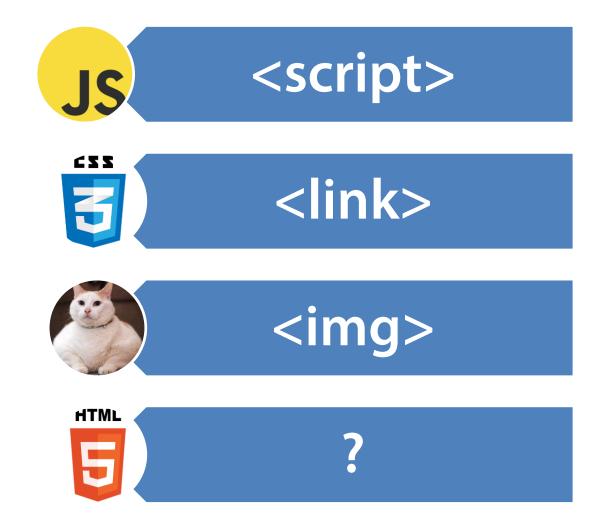


Razor





We Need Native HTML Templates



Where Do We Put This?

Simple template of a table row:

Today's Common Approaches to Templates

1. HTML in Script Tags

```
<script type="text/custom-name-here">
```

- + Nothing inside runs or renders
- Not DOM Elements -> XSS risk from using .innerHTML

2. Hidden DOM elements

```
<div style="display: none;" id="my-template"></div>
    + Easy to clone – just DOM elements
```

- Everything inside still runs. May throw 404's, <script> runs, etc.

The Solution? — <template>

Template Characteristics

Inert

Does nothing until cloned

Template Activation

```
1 var template = document.querySelector('#mytemplate');
2 var clone = document.importNode(template.content, true);
3 document.body.appendChild(clone);
```

Defining and Cloning Templates

Demonstration

Inject Data Into Templates

Inject data before cloning by manipulating the template clone.

Steps:

```
//1 Get a reference to the template
var template = document.querySelector('template');

//2 Use document.importNode to clone the template's content
var clone = document.importNode(template.content, true);

//3 Change the target element within the template as desired
clone.querySelector('.verb').textContent = 'awesome';

//4 Append element to page
document.body.appendChild(clone);
```

Injecting Data Into Templates

Demonstration

Nested Templates

Must manually clone both the parent and child templates

Cloning Nested Templates

Demonstration

Summary

We've been getting by with hacks for HTML templates

<template> gives us a standard

All content inside does nothing until activated via cloning

No native data interpolation/logic, but hey, it's just DOM! ©