



webmeetup



Dive into Web Components

Web Components

- A set of features (API) for the browser
- Introduced by Alex Russell in 2011
- Features:
 - Custom Elements
 - Shadow DOM
 - HTML Imports
 - HTML Templates

Feature: Custom Elements

Custom built HTML elements with functionality defined with the Custom Elements API.

Two types of Custom Elements:

1. Autonomous custom elements
2. Customized built-in elements

```
<custom-element color="moss"></custom-element>
```

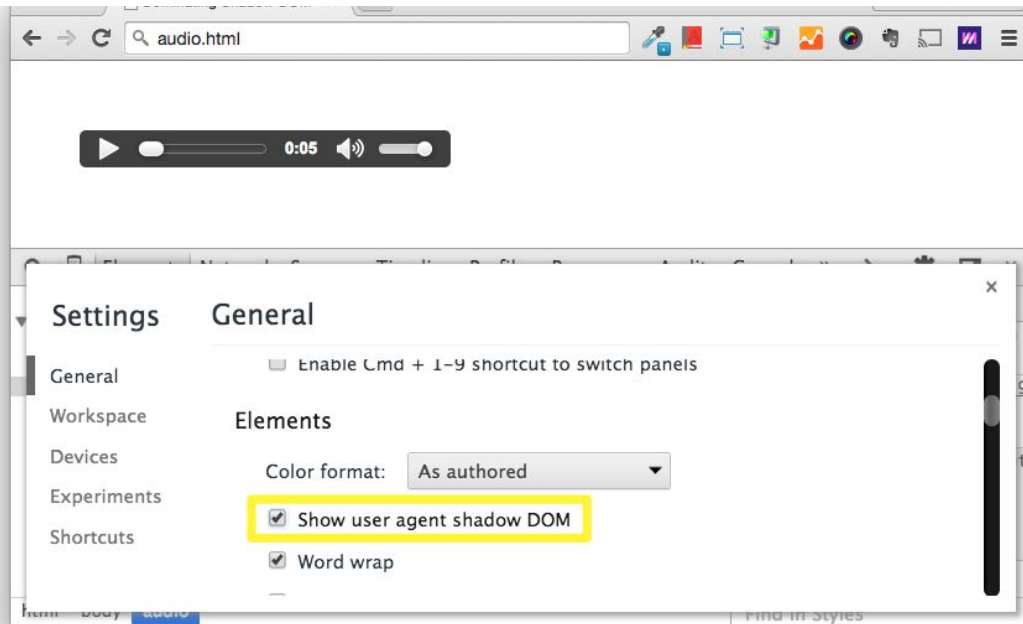
Feature: Shadow DOM

Functionality for the browser to render DOM elements without putting them in the main document tree.

- Barrier between developer and browser
- Encapsulation and CSS scoping
- Created with JavaScript

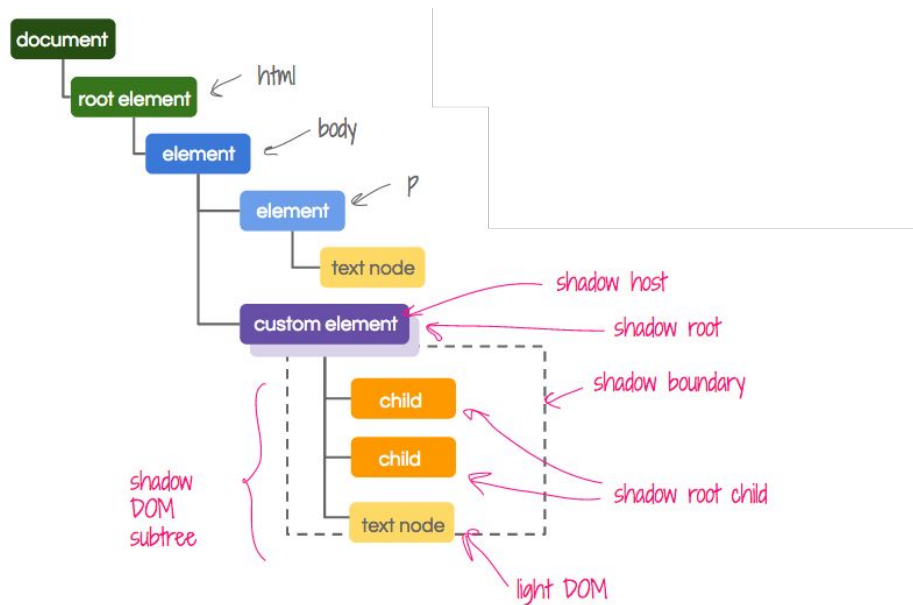
```
<audio src="media.mp3" controls></audio>
```

Feature: Shadow DOM



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Feature: Shadow DOM



Feature: HTML Imports

Tool to include HTML documents and web components from external sources without using AJAX requests or similar methods.

- Avoids loading and executing scripts that are previously imported
- Mozilla Firefox will not implement it

```
<link rel="import" href="mydocument.html">
```

Feature: HTML Templates

The HTML templates spec is a way to define markup chunks that can be instantiated later on in runtime.

```
<template>  
  <style>  
  </style>  
  <p>Some text</p>  
</template>
```



Demo time!



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