

What are Custom Elements ?

Web Components demystification
unveiling the real power of
Custom Elements

by Andrea Giammarchi
@WebReflection

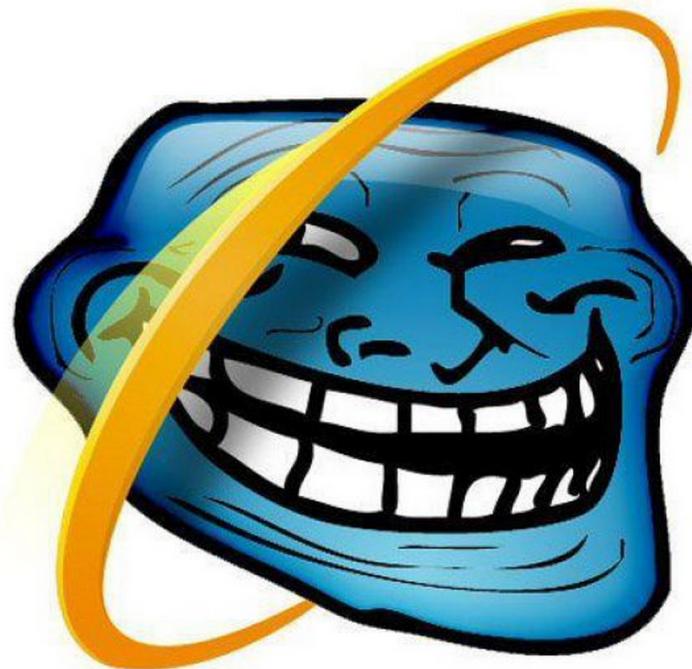
A “brief” history about Web Components

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About Element Behaviors

This topic documents a feature of Binary Behaviors, which are obsolete as of Internet Explorer 10.

Element behaviors are one of the most significant new capabilities in Microsoft Internet Explorer 5.5. They provide the capability to define custom elements, which can be used in the same way as normal HTML elements in a Web page. An element behavior can be written in script using an HTML Component (HTC) file, or it can be implemented with a binary Dynamic HTML (DHTML) behavior. Element behaviors are encapsulated components, so they can add new and interesting functionality to a Web page while improving the organization of content, functionality, and style.

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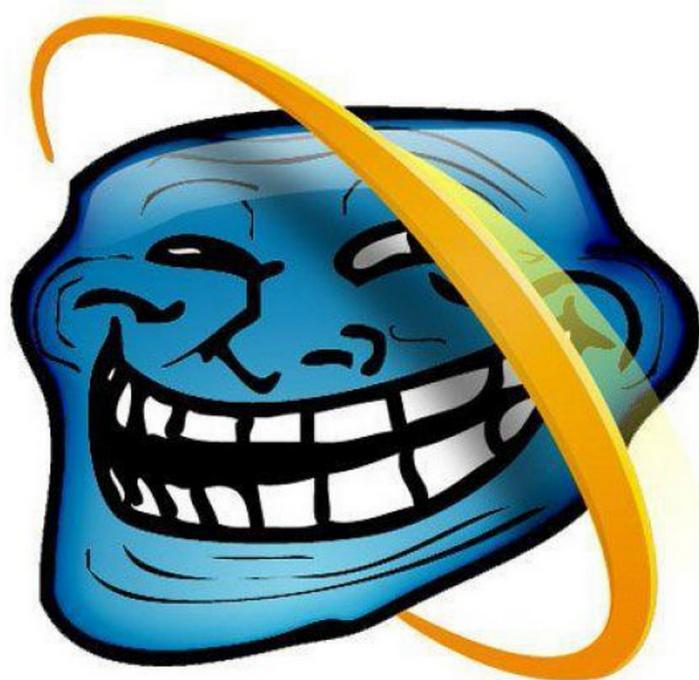
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- HTML Templates

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HTML

```
<template>
  <h1>Hello there!</h1>
  <p>This content is top secret :)</p>
</template>
```

What are Web Components ?

- HTML Templates
- Shadow DOM

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```
nts Network Sources Timeline Profiles Resources Audits Console ▾  
`<video id="video" controls preload="none" poster="http://media.w3.org/2010/05/sintel/poster.png">  
  #shadow-root (user-agent)  
    <div>  
      <div>  
        <div>  
          ▶<input type="button">  
          ▶<input type="range" step="any" max="0">  
            <div style="display: none;">0:00</div>  
            <div>0:00</div>  
          ▶<input type="button">  
          ▶<input type="range" step="any" max="1" style="display: none;">  
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Which browser supports what ?

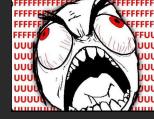
Which browser supports what ?

	Specged	Implementation				
		Polyfill	Chrome / Opera	Firefox	Safari	IE
Templates			Stable	Stable	8	Vote
HTML Imports			Stable	On Hold		Vote
Custom Elements			Stable	Flag		Vote
Shadow DOM			Stable	Flag		Vote

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- Dear browsers vendors, you know there's a W3C specification about Web Components, right ?

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LIVE DEMO \o/

document-register-element

<https://github.com/WebReflection/document-register-element>

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- Compatible with every Desktop browser, compatible with IE9+
- Automatically compatible with everything else if we do things the right way

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a great opportunity to improve the Web,
improve re-usability for developers,
and improve compatibility for Users!

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What are Custom Elements ?

Thank You!

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