

Introduction aux WebComponents



La Tech Amiénoise

Rassembler les acteurs du numérique sur Amiens et sa région

Avant toute chose

Pré-requis : Connaissance HTML/JS

Disclamer : Je ne mets pas de Web Components en Production.

Mais c'est quoi un WebComponent ?

Exemple

Non mais plus sérieusement ?

- Futur standard W3C
- *“A component platform from the W3C that allows Web sites to be constructed from standardized building blocks.”*
- Regroupement de 4 technologies

Décomposition

Custom Element

```
<custom-element></custom-element>
```

[Demo](#)

HTML Template

```
<tr>  
  <template id='cells-to-repeat'>  
    <td>Some Content</td>  
  </template>  
</tr>
```

[Demo](#)

HTML Imports

```
<link rel='import' href='some-file.html'>
```

[Demo](#)

Shadow DOM

[Demo](#)

Un vrai exemple ?

Pourquoi “futur” standard ?

Compatibilité

	Specced	Implementation				
		Polyfill	Chrome / Opera	Firefox	Safari	Edge
Templates			Stable	Stable	8	13
HTML Imports			Stable	On Hold	No Active Development	Vote
Custom Elements			Stable	Flag	Prototype	Vote
Shadow DOM			Stable	Flag	WebKit Nightly	Vote

La solution ?

Le **polyfill** va combler les manques des navigateurs.

Les librairies

Polymer

<div>1.0.6</div> <div>Fe</div> <div>Iron Elements</div> <div>Polymer core elements</div>	<div>1.0.6</div> <div>Md</div> <div>Paper Elements</div> <div>Material design elements</div>	<div>1.0.1</div> <div>Go</div> <div>Google Web Components</div> <div>Components for Google's APIs and services</div>	<div>1.0.1</div> <div>Au</div> <div>Gold Elements</div> <div>Ecommerce Elements</div>
<div>1.0.0</div> <div>Ne</div> <div>Neon Elements</div> <div>Animation and Special Effects</div>	<div>1.2.0</div> <div>Pt</div> <div>Platinum Elements</div> <div>Offline, push, and more</div>	<div>1.0.0</div> <div>Mo</div> <div>Molecules</div> <div>Wrappers for third-party libraries</div>	

X-Tag



Standard

Built on Web Components APIs



Efficient

Powerful features, just 5k
gzipped



Pluggable

Plays nice with other libraries

Bosonic



BOSONIC

A practical collection of everyday Web Components

Sources

<http://webcomponents.org/>

<https://www.parleys.com/tutorial/web-components-polymer-material-design>

<http://blog.xebia.fr/2015/03/31/introduction-sur-les-web-components-en-pur-javascript/>

<https://www.polymer-project.org/1.0/>

<http://x-tag.github.io/>

<http://bosonic.github.io/>