



Hello!

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Web Components

DOM native components, no framework

● Basics of Web Components

- Extend
HTMLElement

```
class WebComponentExample extends HTMLElement  
{
```

- Attach
shadow

```
  constructor () {  
    super ();  
    this.attachShadow ({ mode: 'open' });  
  }
```

- Define new
custom element

```
  }  
  customElements.define (  
    'web-component-example-tag-name',  
    WebComponentExample);
```



What's the problem?

We need DOM native functionality for testing,
but starting a browser is slow.

- jsdom is missing some pieces

- Web Components need

- HTMLElement
- customElements
- Shadow DOM

These are not available in jsdom (yet)



- Invert control

○ Inject the window!?

- `import { HTMLElement, customElements } from 'window';`

- Webpack - use externals

- - `module.exports = {
 ...
 externals: { window: 'window' }
};`

- Rollup - use globals

- export default {
 ...
 output: {
 ...
 globals: { window: 'window' }
 }
};

- ESM - Create a window.mjs

- `export const HTMLElement = window.HTMLElement;`
`export const customElements = window.customElements;`



WE HAVE A SEAM

Testing is now REALLY straight forward



Examples on github

<https://github.com/terodox/dotjs2019>