

An introduction to Web Components



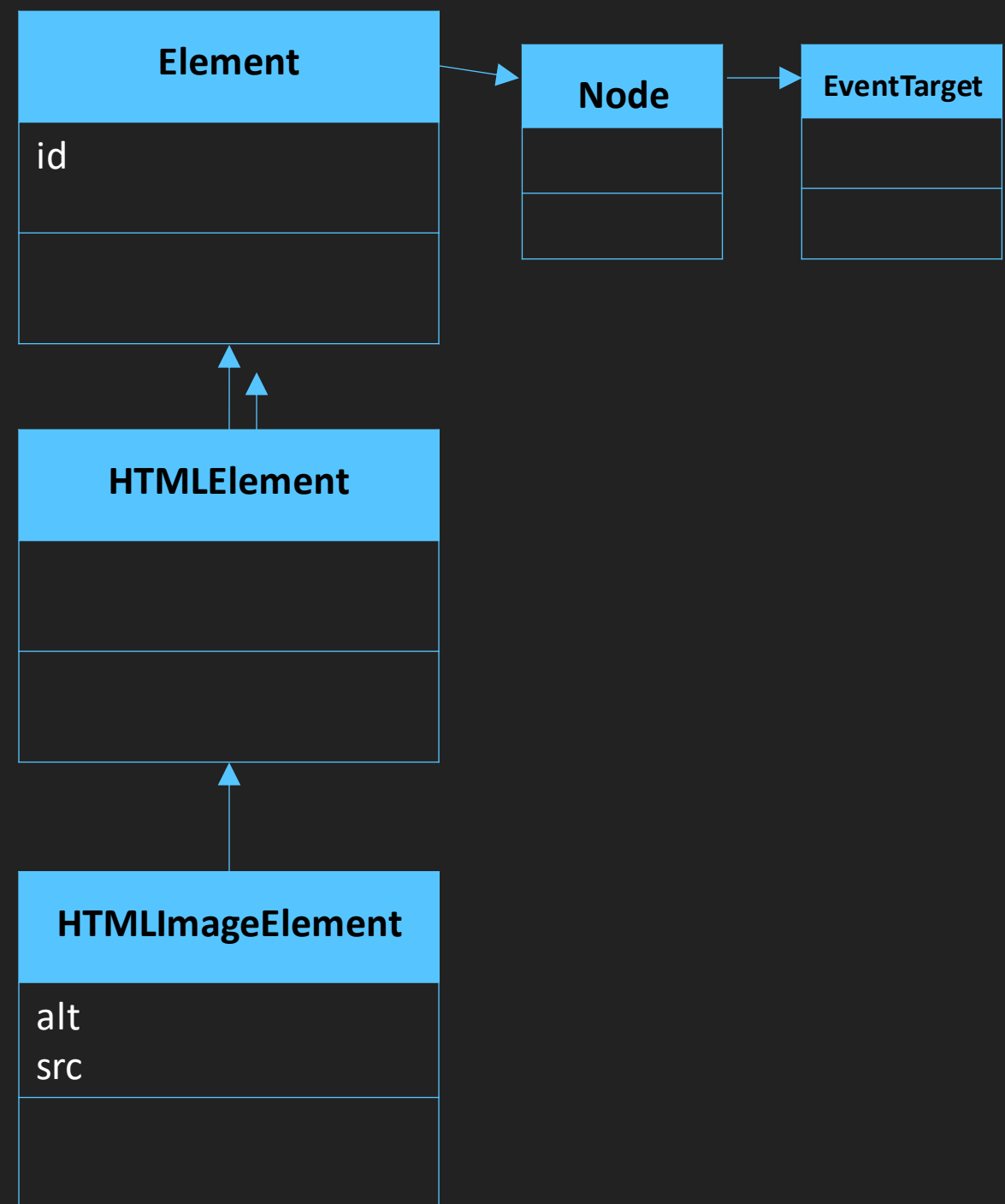
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Same site in HTML

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <link rel="icon" href="/favicon.ico" />
  <meta name="viewport"
    content="width=device-width, initial-scale=1" />
  <link rel="stylesheet"
    type="text/css" href="/css/styles.css" />
  <title>Page 1</title>
</head>

<body>
  <h1>Lecture demo</h1>
  <article>
    <h1>Pipeline status (A2):</h1>
    
  </article>
</body>
</html>
```



HTML Element programmatically?

js/index.js

```
const image = new HTMLImageElement()
```

✖ ▶ Uncaught TypeError: Illegal constructor
at index.js:18

index.js:18

js/index.js

```
const image2 = document.createElement('img')
```

We create elements using
the document object model
api. (DOM-api)

HTMLElement

HTMLImageElement

Custom Elements

js/index.js

```
const mCE = document.createElement('my-custom-element')
```

js/components/my-custom-element.js

```
class MyCustomElement extends HTMLElement {  
  ...  
}  
  
customElements.define('my-custom-element', MyCustomElement)
```



```
customElements.define('my-custom-element', class extends HTMLElement {  
  ...  
})
```

HTMLElement

MyCustomElement

Web Components

Custom Elements
HTML Templates
Shadow DOM
ES Modules

Cache
History-api
Asynchronous
Cookies
State
Events
DOM-api
PWA
WebRTC
Fetch
IndexDB
PushState-api
Synthetic
FileAPI
Async/Await
Closures
Workers
Routing
Timers
import
Programming
WebAssembly



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Frameworks and libs

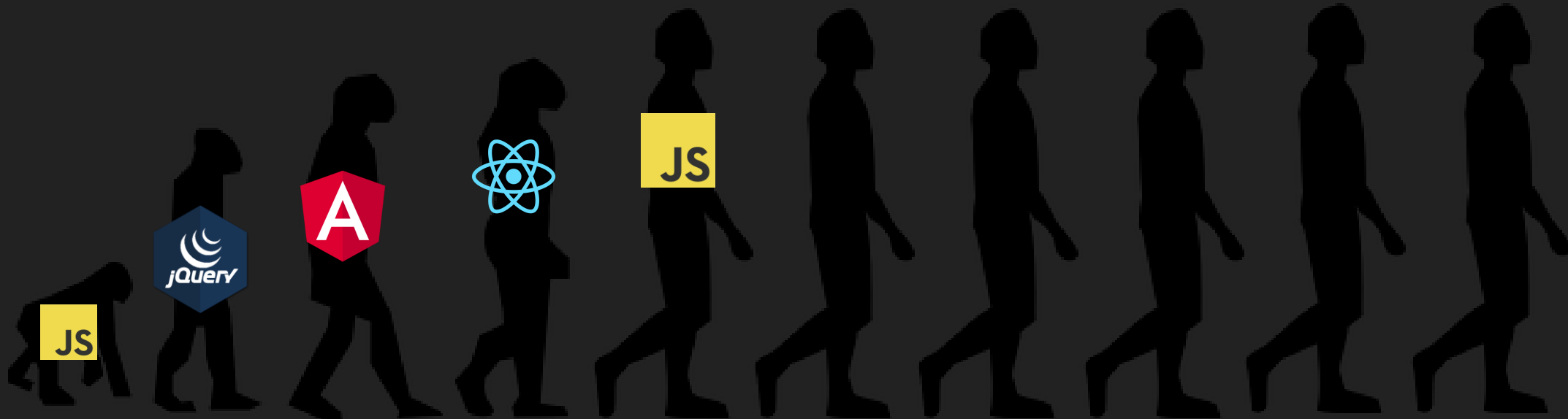


Image inspiration from <https://codeburst.io/building-efficient-components-6ee2bdaea542>

