Web Components

HURRICANE

by Bob Dylan and Jacques Levy

Here comes the story of the Hurricane
The man the authorities came to blame
For somethin' that he never done
Put in a prison cell, but one time he could-a been
The champion of the world

<body>

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</body>

```
<body>
  <main>
```

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```
  </main>
</body>
```

```
<body>
  <main>
    <h1>
```

HURRICANE </h1>

by Bob Dylan and Jacques Levy

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```
  </main>
</body>
```

```
<body>
  <main>
    <h1>
```

Hurricane

```
</h1>
```

s Levy

```
h1
{
  text-transform: uppercase;
}
```

ry of the Hurricane
rities came to blame
he never done
Put in a prison cell, but one time he could-a been
The champion of the world

```
  </main>
</body>
```

```
<body>
  <main>
    <h1>
    <footer>
```

Hurricane

by Bob Dylan and Jacques Levy

```
</h1>
</footer>
```

Here comes
The man the
For somethi
Put in a pris
The champion of the world

A footer typically contains information about its section such as who wrote it, links to related documents, copyright data, and the like.

```
  </main>
</body>
```

```
<body>
  <main>
    <h1>
    <footer>
```

Hurricane

by Bob Dylan and Jacques Levy

```
</h1>
</footer>
```

```
footer
{
  font-style: italic;
}
```

ry of the Hurricane
rities came to blame
he never done
but one time he could-a been
The champion of the world

```
  </main>
</body>
```

```
<body>
  <main>
    <h1>
    <footer>
    <p>
```

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```
    </p>
  </main>
</body>
```

```
</h1>
</footer>
```

```
<body>
  <main>
    <h1>
    <footer>
    <p>
```

Hurricane

```
</h1>
</footer>
```

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```
    </p>
  </main>
</body>
```

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```
<body>
  <main>
    <h1>
    <footer>
    <p>
```

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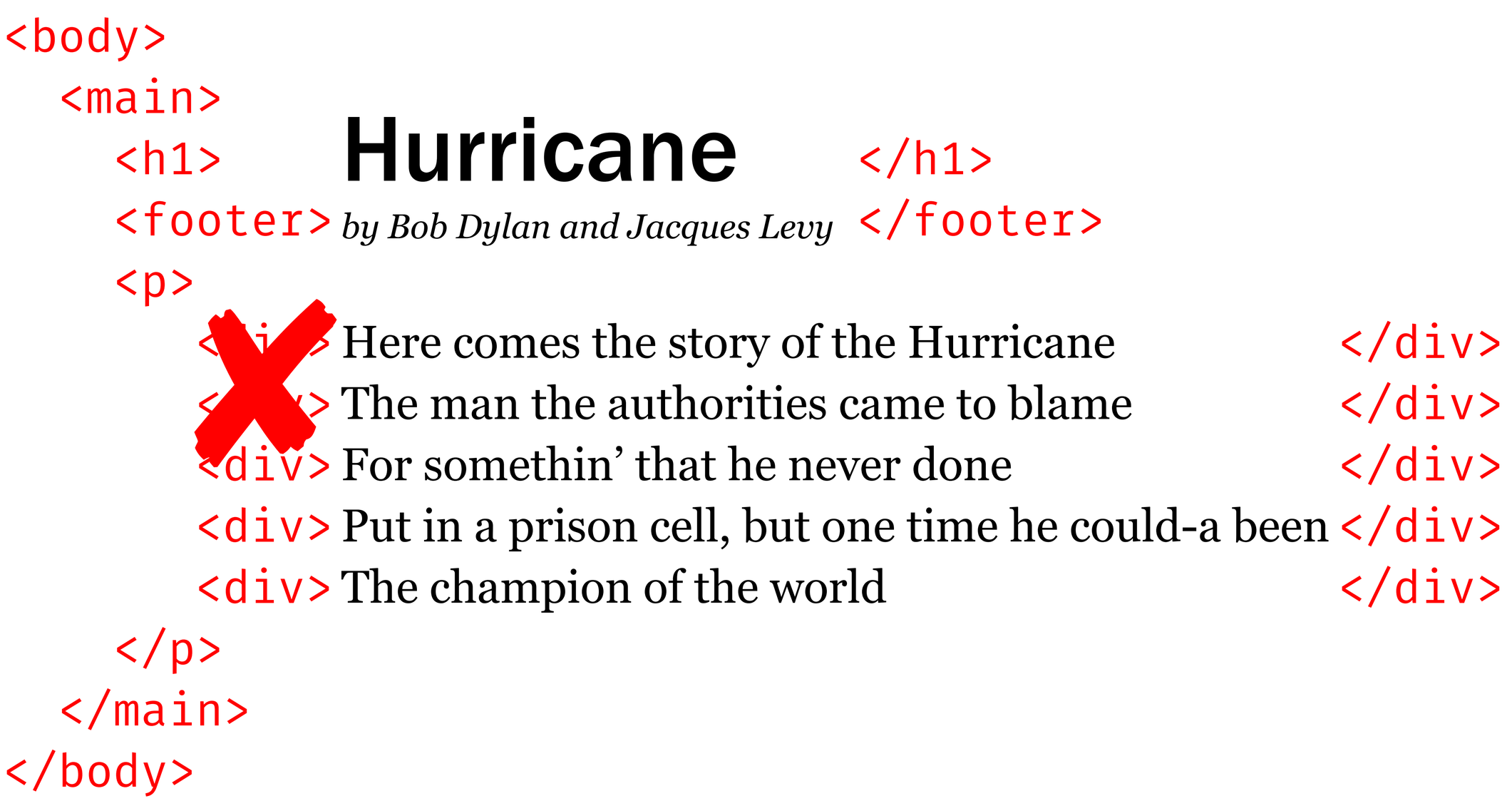
```
    </p>
  </main>
</body>
```

```
</h1>
</footer>
```


<body>
<main>
<h1>
Hurricane
</h1>
<footer>
by Bob Dylan and Jacques Levy
</footer>

 Here comes the story of the Hurricane
 The man the authorities came to blame
 For somethin' that he never done
 Put in a prison cell, but one time he could-a been
 The champion of the world

</main>
</body>

```
<body>
  <main>
    <h1>
    <footer>
    <p>
      <span>
      <span>
      <span>
      <span>
      <span>
    </p>
  </main>
</body>
```

Hurricane

by Bob Dylan and Jacques Levy

```
</h1>
</footer>
```

```
</span>
</span>
</span>
</span>
</span>
```

Here comes the story of the Hurricane
The man the authorities came to blame
For somethin' that he never done
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The champion of the world

```
<body>
  <main>
    <h1>
    <footer>
    <p>
      <span>
      <span>
      <span>
      <span>
      <span>
    </p>
  </main>
</body>
```

Hurricane

by Bob Dylan and Jacques Levy

```
</h1>
</footer>
```

Here comes the story of the Hurricane `</span>`

The man the authorities came to blame `</span>`

For somethin’

Put in a prison

The champion

```
span
{
  display: block;
}
```

```
        <body>
          <main>
            <h1>
            <footer>
            <p>
<span class="line">
<span class="line">
<span class="line">
<span class="line">
<span class="line">
            </p>
          </main>
        </body>
```

Hurricane

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```
</h1>
</footer>
```

Here comes the story of the Hurricane
The man the authorities came to blame
For somethin' that he never done
Put in a prison cell, but one time he could-a been
The champion of the world

```
</span>
</span>
</span>
</span>
</span>
```

```
<body>
  <main>
    <h1>
    <footer>
    <p>
<span class="line">
<span class="line">
<span class="line">
<span class="line">
<span class="line">
    </p>
  </main>
</body>
```

Hurricane

by Bob Dylan and Jacques Levy

```
</h1>
</footer>
```

Here comes the story of the Hurricane
The man the authorities came to blame
For somethin’
Put in a prison
The champion

```
.line
{
  display: block;
}
```

HURRICANE

by Bob Dylan and Jacques Levy

Here comes the story of the Hurricane / The man the authorities came to blame / For somethin' that he never done / Put in a prison cell, but one time he could-a been / The champion of the world

HURRICANE

by Bob Dylan and Jacques Levy

Here comes the story of the Hurricane / The man the authorities came to blame / For somethin' that he never done / Put in a prison cell, but one time he could-a been / The champion of the world

```
.line:not(:last-child)::after
{
  content: " / ";
}
```

```
        <body>
          <main>
            <h1>
            <footer>
            <p>
<span class="line">
<span class="line">
<span class="line">
<span class="line">
<span class="line">
            </p>
          </main>
        </body>
```

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```
</h1>
</footer>
```

Here comes the story of the Hurricane
The man the authorities came to blame
For somethin' that he never done
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```
</span>
</span>
</span>
</span>
</span>
```

```
<body>
  <main>
    <h1>
    <footer>
    <p>
          <l> Here comes the story of the Hurricane
          <l> The man the authorities came to blame
          <l> For somethin' that he never done
          <l> Put in a prison cell, but one time he could-a been
          <l> The champion of the world
    </p>
  </main>
</body>
```

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```
</h1>
</footer>
</l>
</l>
</l>
</l>
</l>
```

Custom Elements

```
<body>
  <main>
    <h1>
    <footer>
    <p>
      <x-l>
      <x-l>
      <x-l>
      <x-l>
      <x-l>
    </p>
  </main>
</body>
```

Hurricane

</h1>

by Bob Dylan and Jacques Levy

</footer>

Here comes the story of the Hurricane </x-l>

The man the authorities came to blame </x-l>

For somethin' that he never done </x-l>

Put in a prison cell, but one time he could-a been </x-l>

The champion of the world </x-l>

```
<body>
  <main>
    <h1>
    <footer>
    <p>
      <x-l>
      <x-l>
      <x-l>
      <x-l>
      <x-l>
    </p>
  </main>
</body>
```

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Here comes the story of the Hurricane

The man the authorities came to blame

For somethin’

Put in a prison

The champion

```
</h1>
</footer>
</x-l>
</x-l>
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
}
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

Three bodies lyin’ there does Patty see
And another man named Bello, movin’ around mysteriously
“I didn’t do it,” he says, and he throws up his hands
“I was only robbin’ the register, I hope you understand
I saw them leavin’,” he says, and he stops
“One of us had better call up the cops”
And so Patty calls the cops…

Three bodies lyin’ there does Patty see
And another man named Bello, movin’ around mysteriously
“I didn’t do it,” he says, and he throws up his hands
“I was only robbin’ the register, I hope you understand
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And so Patty calls the cops…

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And so Patty calls the cops…

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“I was only robbin’ the register, I hope you understand
I saw them leavin’,” he says, and he stops
“One of us had better call up the cops”
And so Patty calls the cops…

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  hanging-punctuation: first allow-end last;
}
```

ound mysteriously
his hands

“I was only robbin’ the register, I hope you understand
I saw them leavin’,” he says, and he stops
“One of us had better call up the cops”
And so Patty calls the cops…

hanging-punctuation ✗ ✗ ✗ ✗ ✗

```
for (var xlElements = document.querySelectorAll('x-l'),
  l = xlElements.length, i = 0; i < l; i++)
{
  if (/^([„“]+)/.test(xlElements[i].innerHTML))
  {
    xlElements[i].classList.add('hanging-punctuation-start');
  }
}
```

```
  .hanging-punctuation-start
  {
    text-indent: -1.2em;
  }
```

```
erySelectorAll('x-l'),
 < l; i++)

i].innerHTML))
  {
    xlElements[i].classList.add('hanging-punctuation-start');
  }
}
```

```
for (var xlElements = document.querySelectorAll('x-l'),
  l = xlElements.length, i = 0; i < l; i++)
{
  xlElements[i].innerHTML = xlElements[i].innerHTML
    .replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>');
}
```

```
for (var xlElemen
  l = xlElements.
{
  xlElements[i].i
    .replace(/^([
    '<span class=
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

.hanging-punctuation-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  this.innerHTML = this.innerHTML.replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>');
}

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

Shadow DOM

```
<input placeholder="…">
```

```
<input type="range">
```

```
<audio>
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  this.innerHTML = this.innerHTML.replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>');
}

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  var root = this.createShadowRoot();

  root.innerHTML = this.innerHTML.replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>');
}

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

.hanging-punctuation-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

x-l::shadow .hanging-punctuation-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

x-l::shadow                                          n-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

It's been suggested to remove this feature.

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

x-l /deep/ .hanging-punctuation-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

x-l >>> .hanging-punctuation-start
{
  position: absolute;
  right: 100%;
  text-align: right;
}
```

```
var XLElementPrototot                                          ype);

XLElementPrototype.
{
  var root = this.c

  root.innerHTML =
    '<span class="h
}

var XLElement = doc
  prototype: XLElem
});
```

```
x-l
{
  display: block;
  padding-left: 1em;
  text-indent: -1em;
  position: relative;
}

x-l >>>                                    -start
{
  positi
  right: 100%;
  text-align: right;
}
```

It’s currently disputed whether this combinator should exist.

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  var root = this.createShadowRoot();

  root.innerHTML = this.innerHTML.replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>');
}

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  var root = this.createShadowRoot();

  root.innerHTML = this.innerHTML.replace(/^([„“’]+)/,
    '<span class="hanging-punctuation-start">$1</span>')
  + '<style>.hanging-punctuation-start { position: absolute;\
    right: 100%; text-align: right }</style>';
}

var XLElement = document.registerElement('x-l', {
  prototype: XLElementPrototype
});
```

Templates

```
<template id="hanging-punctuation-start-template">
  <span class="hanging-punctuation-start"></span>
  <style>
    .hanging-punctuation-start
    {
      position: absolute;
      right: 100%;
      text-align: right;
    }
  </style>
</template>
```

```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  var result = /^([„“’]+)/.exec(this.innerHTML);
  if (result)
  {
    var template = document.querySelector('#hanging-punctuation-start-template');
    template.content.querySelector('.hanging-punctuation-start').innerHTML = result[0];
    var clone = document.importNode(template.content, true);
    var root = this.createShadowRoot();
    root.innerHTML = this.innerHTML.substr(result[0].length);
    root.appendChild(clone);
  }
}

var XLElement = document.registerElement('x-l', { prototype: XLElementPrototype });
```

HTML Imports

hanging-punctuation-start-template.html

```
<template id="hanging-punctuation-start-template">
  <span class="hanging-punctuation-start"></span>
  <style>
    .hanging-punctuation-start
    {
      position: absolute;
      right: 100%;
      text-align: right;
    }
  </style>
</template>
```

```
<link rel="import" href="hanging-punctuation-start-template.html">
```

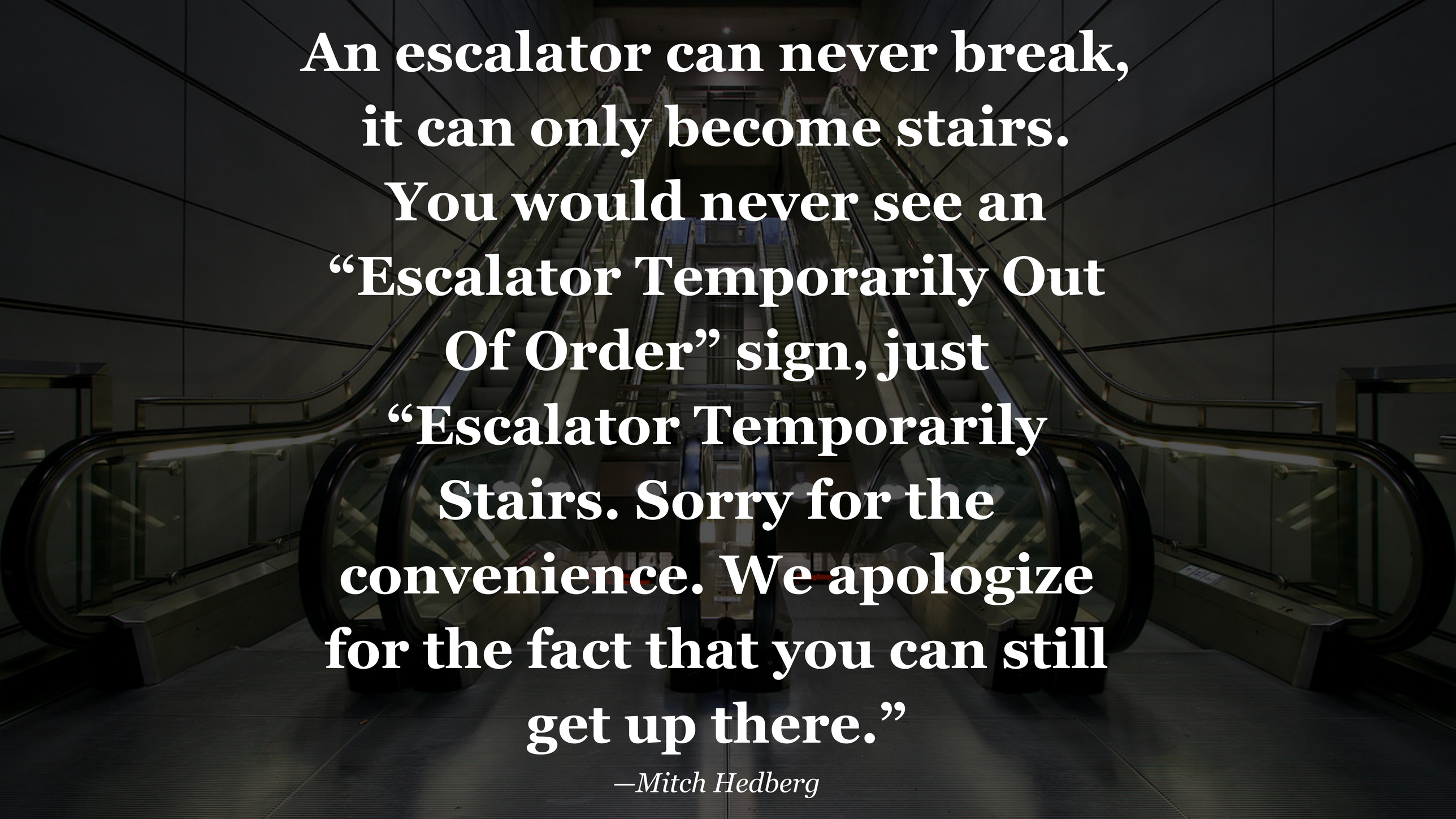
```
var XLElementPrototype = Object.create(HTMLSpanElement.prototype);

XLElementPrototype.createdCallback = function()
{
  var result = /^([„“’]+)/.exec(this.innerHTML);
  if (result)
  {
    var link = document.querySelector('link[rel="import"]');
    var template = link.import.querySelector('#hanging-punctuation-start-template');
    template.content.querySelector('.hanging-punctuation-start').innerHTML = result[0];
    var clone = document.importNode(template.content, true);
    var root = this.createShadowRoot();
    root.innerHTML = this.innerHTML.substr(result[0].length);
    root.appendChild(clone);
  }
}

var XLElement = document.registerElement('x-l', { prototype: XLElementPrototype });
```

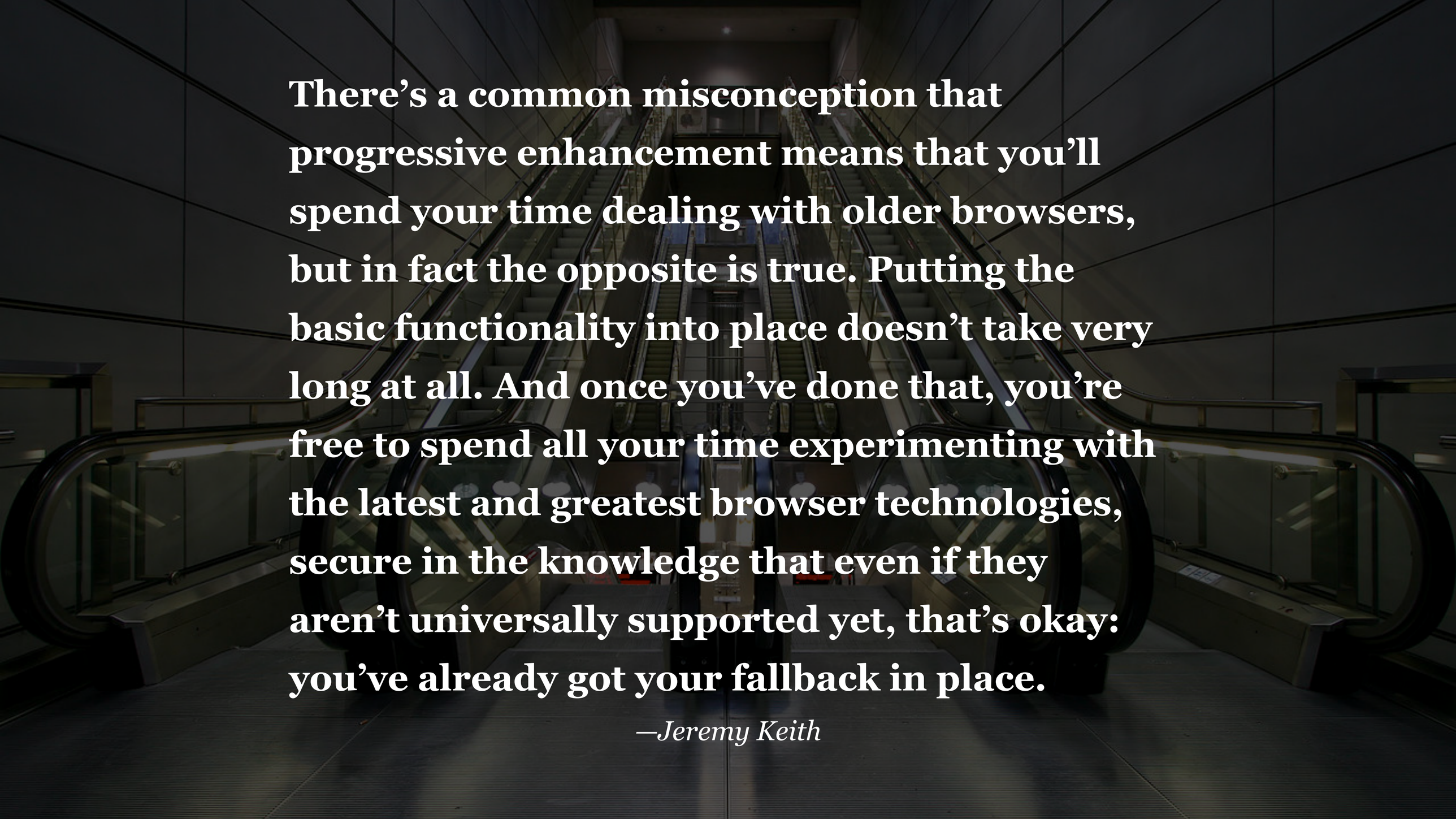
Templates	✔	✔	✔	✔	✔
HTML Imports	✔	✔	✘	✘	✘
Custom Elements	✔	✔	✘	✘	✘
Shadow DOM	✔	✔	✘	✘	✘

progressive enhancement



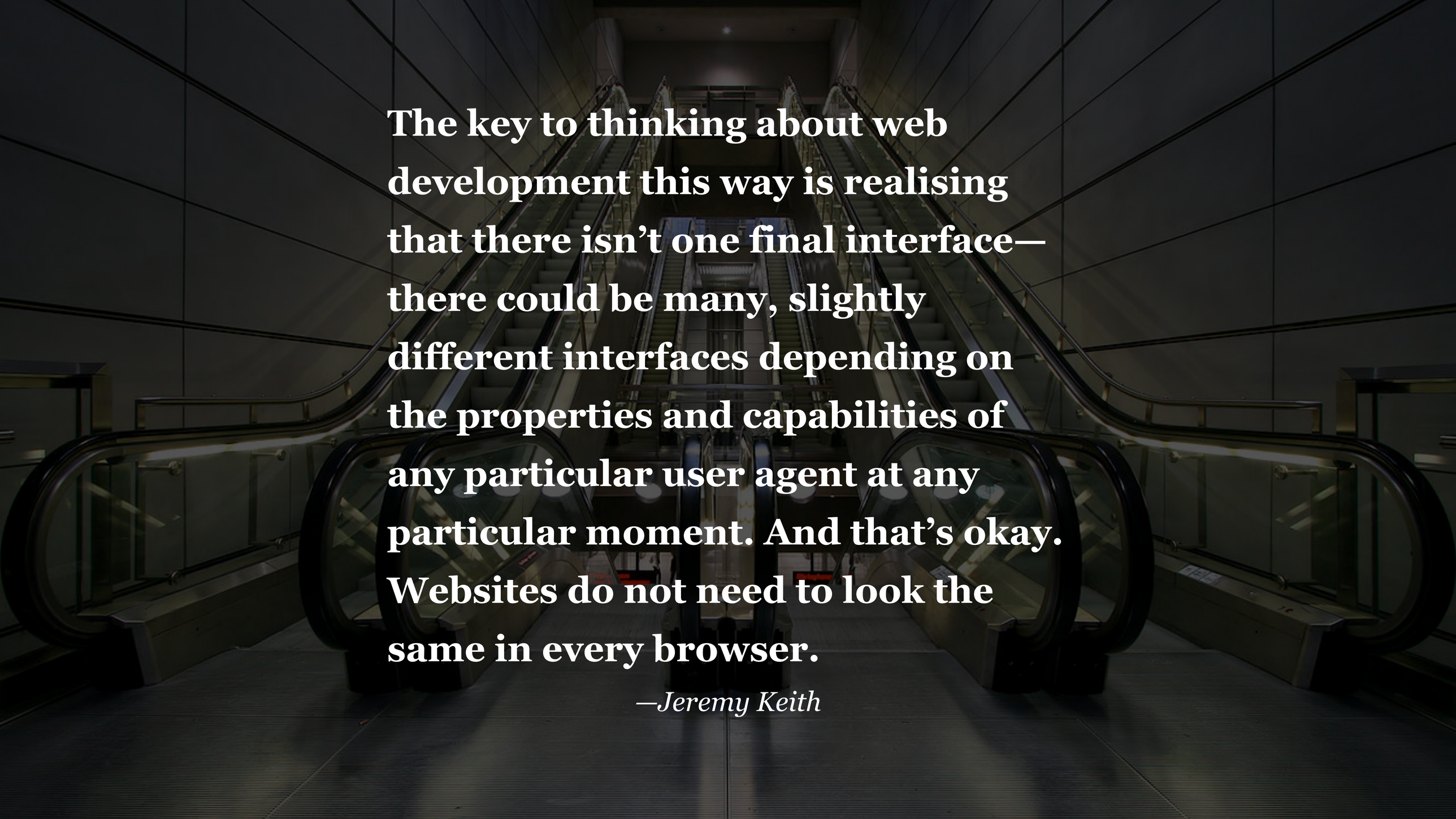
An escalator can never break, it can only become stairs. You would never see an "Escalator Temporarily Out Of Order" sign, just "Escalator Temporarily Stairs. Sorry for the convenience. We apologize for the fact that you can still get up there."

—Mitch Hedberg



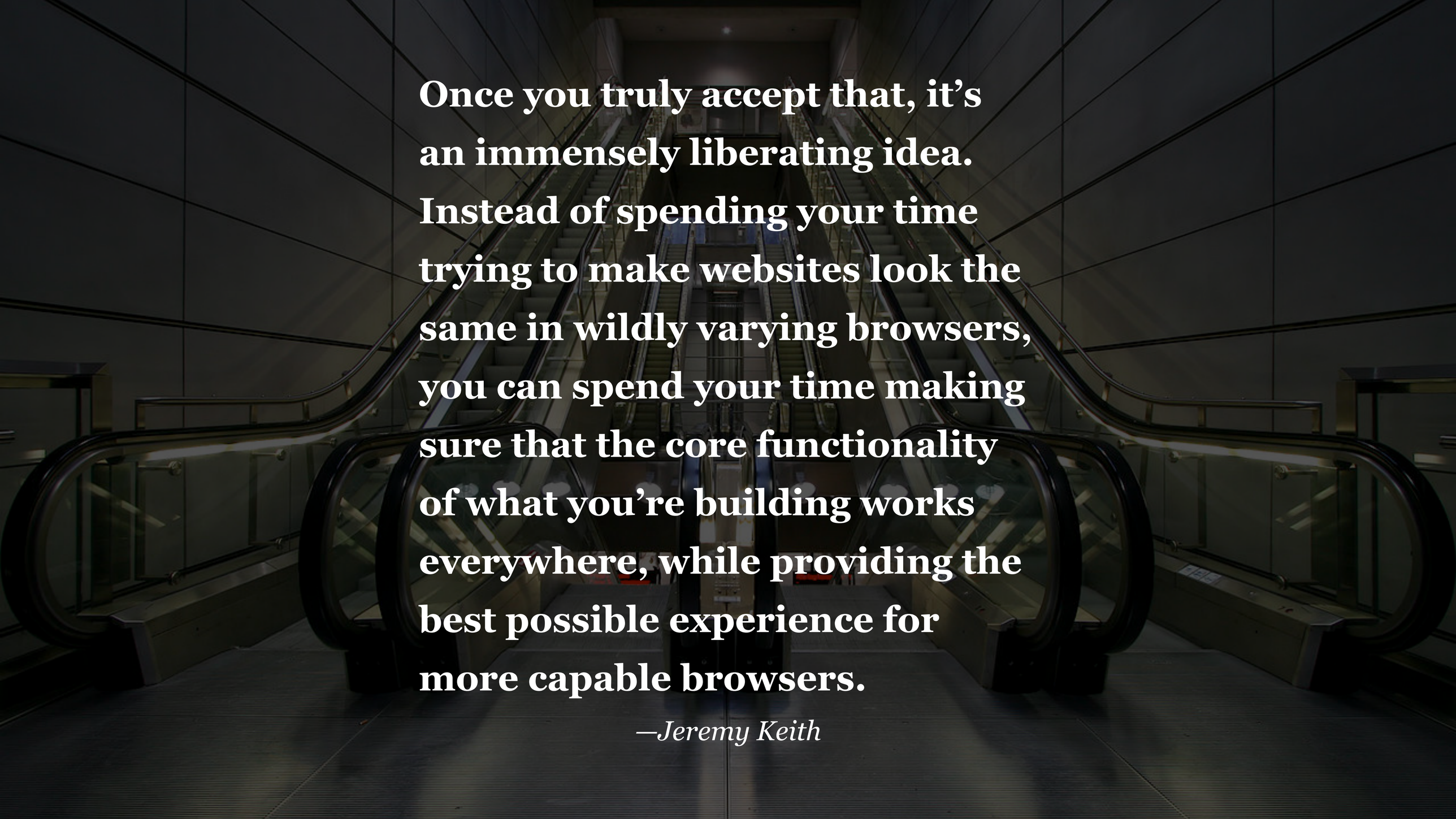
There's a common misconception that progressive enhancement means that you'll spend your time dealing with older browsers, but in fact the opposite is true. Putting the basic functionality into place doesn't take very long at all. And once you've done that, you're free to spend all your time experimenting with the latest and greatest browser technologies, secure in the knowledge that even if they aren't universally supported yet, that's okay: you've already got your fallback in place.

—Jeremy Keith



The key to thinking about web development this way is realising that there isn't one final interface—there could be many, slightly different interfaces depending on the properties and capabilities of any particular user agent at any particular moment. And that's okay. Websites do not need to look the same in every browser.

—Jeremy Keith



Once you truly accept that, it's an immensely liberating idea. Instead of spending your time trying to make websites look the same in wildly varying browsers, you can spend your time making sure that the core functionality of what you're building works everywhere, while providing the best possible experience for more capable browsers.

—Jeremy Keith

Bruce Springsteen’s studio albums

title	release date
Greetings from Asbury Park, N.J.	1973-01-05
The Wild, the Innocent & the E Street Shuffle	1973-09-11
Born to Run	1975-08-25
Darkness on the Edge of Town	1978-06-02
The River	1980-10-10
Nebraska	1982-09-20
Born in the U.S.A.	1984-06-04
Tunnel of Love	1987-10-09

```
<table>
  <caption>Bruce Springsteen’s studio albums</caption>
  <thead>
    <tr>
      <th>title</th>
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  <tbody>
    <tr>
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      </td>
    </tr>
    <tr>
```

Bruce Springsteen’s studio albums

title	release date
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The Wild, the Innocent & the E Street Shuffle	1973-09-11
Born to Run	1975-08-25
Darkness on the Edge of Town	1978-06-02
The River	1980-10-10
Nebraska	1982-09-20
Born in the U.S.A.	1984-06-04
Tunnel of Love	1987-10-09

```
<table sortable>
  <caption>Bruce Springsteen’s studio albums</caption>
  <thead>
    <tr>
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<table sortable>

```
<x-sortable-table>
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```
var XSortableTableElementPrototype = Object.create(HTMLTableElement.prototype);

var XSortableTableElement = document.registerElement('x-sortable-table', {
  prototype: XSortableTableElementPrototype,
  extends: 'table'
});
```

→ http://codepen.io/gunnarbittersmann/pen/XXwZpP

Custom Elements

Templates

Shadow DOM

HTML Imports

Custom Elements

Templates

Look Ma,
no JS framework!

Shadow DOM

HTML Imports

AngularJS

```
<!DOCTYPE html>
<html ng-app="analogClockApp">
  <head>
    <meta charset="UTF-8"/>
    <link rel="stylesheet" href="analog-clock.css"/>
  </head>
  <body ng-controller="AnalogClockCtrl">
    <time analog-clock/>
    <script src="angular.min.js"></script>
    <script src="analogClockApp.js"></script>
  </body>
</html>
```

analogClockTemplate.html

```
<div class="face">
  <div class="hour-hand" style="transform:
  rotate({{ 30 * (now | date:'h')
  + (now | date:'m') / 2 }}deg)"></div>

  <div class="minute-hand" style="transform:
  rotate({{ 6 * (now | date:'m') }}deg)"></div>

  <div class="second-hand" style="transform:
  rotate({{ 6 * (now | date:'s') + (now | date:'m') * 360
  + (now | date:'h') * 360 }}deg)"></div>
</div>
```

```
.face
{
  width: 250px;
  height: 250px;
  position: relative;
  background-position: left top;
  transform: translate(461px,51px) rotateX(46deg) rotateY(27deg) rotateZ(-38deg);
}

.hour-hand
{
  width: 4%;
  height: 35%;
  background: hsl(0, 0%, 95%);
  position: absolute;
  left: 48%;
  top: 25%;
  transform-origin: center 71.43%;
}
```

```
var analogClockApp = angular.module('analogClockApp', []);

analogClockApp.directive('analogClock', function ()
{
  return {
    templateUrl: 'analogClockTemplate.html'
  };
});
```

```
analogClockApp.controller('AnalogClockCtrl', function ($scope, $timeout)
{
  $scope.now = 'Loading…';

  var updateTime = function ()
  {
    $timeout(function ()
    {
      $scope.now = new Date();
      updateTime();
    }, 1000);
  };

  updateTime();
});
```

Heydon
@heydonworks

Following

My javascript is shit -> I should learn more javascript
My CSS is shit -> I'll do it with javascript

RETWEETS 71 LIKES 56

10:51 AM - 14 Jan 2016

Web Components

AngularJS

Web Components

Hurricane

written by Bob Dylan and Jacques Levy

Blinded by the Light

written by Bruce Springsteen

Copenhagen Metro Escalators

photo by Stig Nygaard, CC-BY-2.0