

**css{+}**

**Aaron Gustafson**  
**Easy Designs, LLC**  
[slideshare.net/AaronGustafson](http://slideshare.net/AaronGustafson)

3 + 3

3 ? 3



CAMERON MELL MOBILE WEB DESIGN  
MOBILE WEB DESIGN



## Learning Web Design

Niederst Robbins

O'REILLY

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A holistic approach to web design

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designing with web standards third edition

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zeldman  
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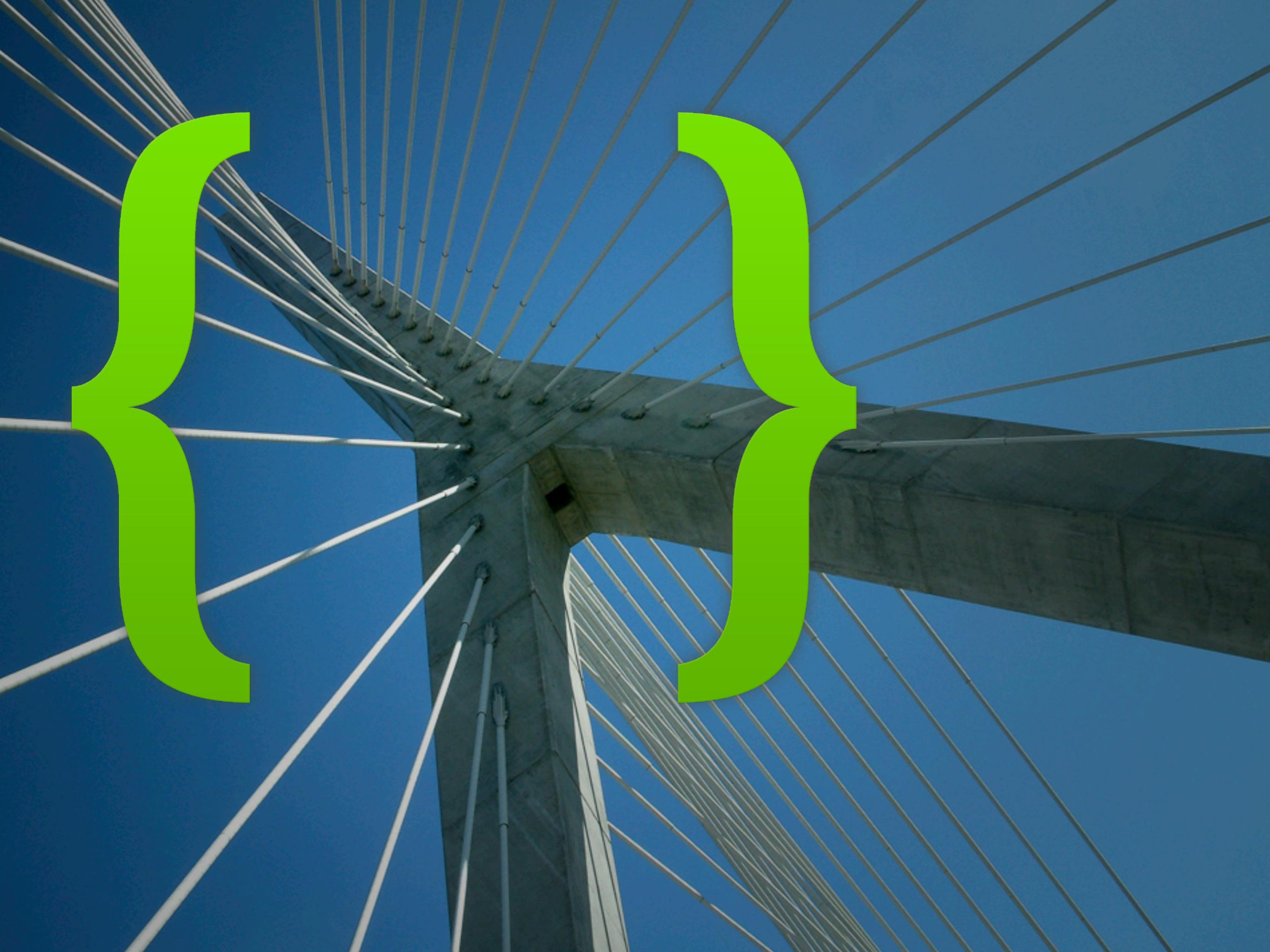


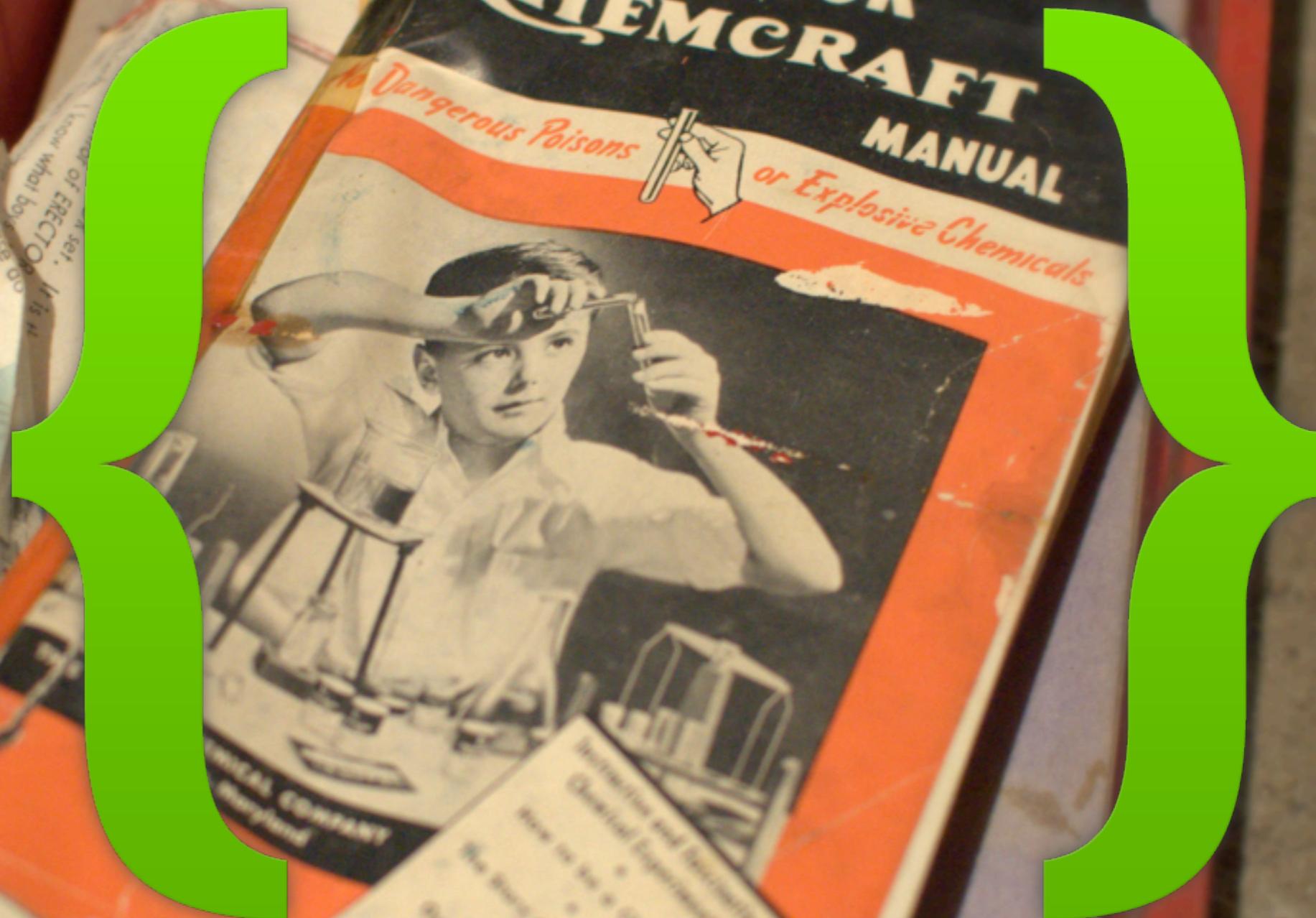
30

A close-up photograph showing a worker's lower body and a shovel. The worker is wearing blue jeans and brown work boots. A large metal shovel is being used to spread dark asphalt or gravel onto a light-colored, textured surface, likely a road. The background shows a blurred industrial or construction setting with some equipment and structures.



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# Download...

The screenshot shows the homepage of the eCSStender website. The header features a large, stylized logo with curly braces and a plus sign followed by the word "ecsstender". Below the logo is a navigation bar with three items: "download", "extensions", and "documentation". The "download" item is highlighted with a white background and black text. The main content area contains a section titled "Take control of your CSS" with a subtext explaining the purpose of eCSStender. A green button labeled "eCSStender 1.2" with a file icon and a size indicator ("< 20K minified") is prominently displayed. Another section below is titled "Designing with eCSStender" with a descriptive paragraph.

{+} ecssstender

download   extensions   documentation

**Take control of your CSS**

Say goodbye to the browser-specific properties and hacks cluttering your files and say hello to lean, mean CSS. With eCSStender, when you write the rules, browsers pay attention.

eCSStender 1.2 < 20K minified

**Designing with eCSStender**

Extensions built with eCSStender greatly simplify the design process because you can author modern CSS using [advanced selectors](#), properties such as [border-radius](#), or [custom font faces](#) and rest assured that your design will work... even in IE6. To see what you can use today, browse the extensions. To use the extensions, [download eCSStender](#) and include it and your extensions in your site.

eCSStender.org

# Download...

The screenshot shows the homepage of the eCSStender website. At the top, there is a large, stylized logo consisting of a green curly brace followed by a blue plus sign and the word "ecsstender". Below the logo, there is a navigation bar with three items: "download", "extensions", and "documentation". The "download" item is highlighted with a white background and black text. The main content area features a section titled "Take control of your CSS" with a sub-section about告别浏览器特定属性 and hacks. A prominent green button labeled "eCSStender 1.2" with a file icon and a link to download it is circled in red. Below this, there is a section titled "Designing with ecssstender" containing text about simplifying the design process through advanced CSS features like border-radius and custom font faces.

{+} ecssstender

download extensions documentation

**Take control of your CSS**

Say goodbye to the browser-specific properties and hacks cluttering your files and say hello to lean, mean CSS. With eCSStender, when you write the rules, browsers pay attention.

eCSStender 1.2

< 20K minified

Designing with ecssstender

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eCSStender.org

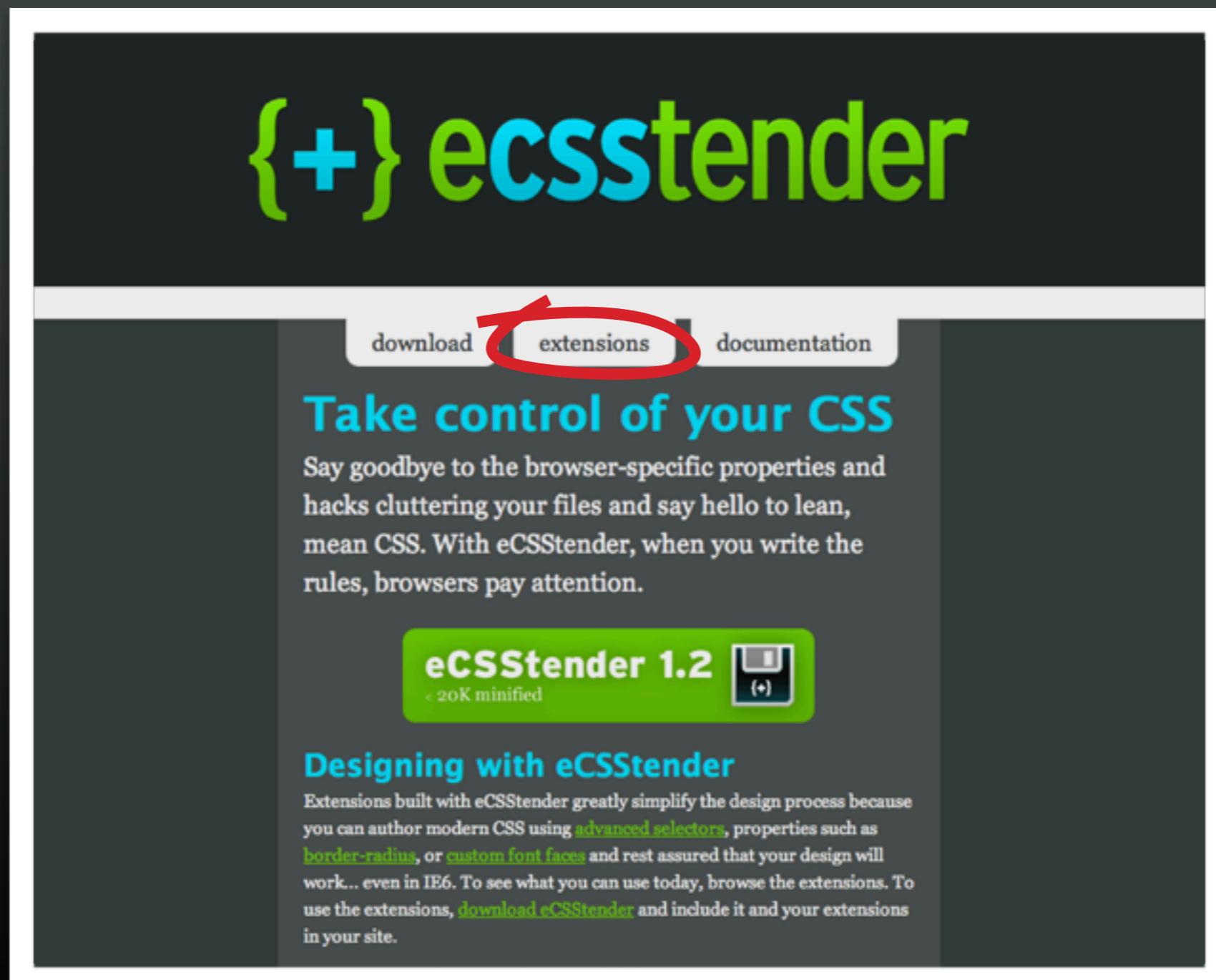
# Download...

The screenshot shows the GitHub repository page for `easy-designs/eCSStender.js`. The page features a prominent green banner at the top with the text "easy-designs is using GitHub to share code with you!" and a "Sign Up Now" button. Below the banner, the repository name `easy-designs / eCSStender.js` is displayed, along with standard GitHub navigation links like Source, Commits, Network, Pull Requests (0), Issues (0), and Graphs. The repository URL is `https://github.com/easy-designs/eCSStender.js.g`, and it has `Read-Only` access. A commit history table is shown, with the most recent commit being "prepping 1.2.7 and running tests" by `aarongustafson` on October 20, 2010. The commit hash is `66de01a836e1b2994675`.

name	age	message	history
<code>.gitmodules</code>	July 20, 2010	Added ability for extensions to dynamically red... [aarongustafson]	
<code>CHANGELOG</code>	August 26, 2010	bugfix: don't call determinePath() on embedded ... [aarongustafson]	
<code>MIT-LICENSE</code>	June 24, 2010	prepping 1.2.4 [aarongustafson]	
<code>README</code>	June 24, 2010	prepping 1.2.4 [aarongustafson]	
<code>min/</code>	August 26, 2010	bugfix: don't call determinePath() on embedded ... [aarongustafson]	

`github.com/easy-designs/eCSStender.js`

# ...collect extensions...



# ...collect extensions...

The screenshot shows the eCSStender website's "Extensions" page. At the top, there is a large green and blue logo with the text "{+} ecssstender". Below the logo, there are three buttons: "download", "extensions", and "documentation". The "extensions" button is highlighted. On the left side of the main content area, there is a sidebar with the text "Extensions". The main content area contains several sections, each with a title and a brief description:

- eCSStender.CSS3-selectors.js**  
This extension seeks to implement the CSS3 Selectors module back to IE6. Requires assignment of an external selector engine (e.g. Sizzle, NWMatcher, etc.).
- eCSStender.font-face.js**  
This extension supports the transformation of a format-agnostic font declaration into one that follows [Paul Irish's Bulletproof @font-face syntax](#).
- eCSStender.CSS3-backgrounds-and-borders.js**  
This extension implements the CSS3 Backgrounds and Borders module back to IE6.
- eCSStender.CSS3-color.js**  
This extension implements the CSS3 Color module back to IE6.
- eCSStender.CSS3-transitions.js**  
This extension implements the CSS3 Transitions module.

# ...include...

```
<script type="text/javascript" src="eCSStender.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-backgrounds-and-borders.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-transforms.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-color.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-transitions.js"></script>
```

# ...and write your CSS

```
section,  
article,  
blockquote {  
    border-radius: 10px;  
    box-shadow: 0 0 15px 1px #000;  
    color: rgb(255, 255, 255);  
    transform-origin: 50% 50%;  
    transition: all 0.5s linear;  
}  
section:hover,  
body:focus section,  
section:hover blockquote,  
body:focus blockquote {  
    transform: rotate(-15deg);  
}  
section:hover article,  
body:focus article {  
    transform: rotate(30deg);  
}
```

30

A close-up photograph showing a worker's lower body and a shovel. The worker is wearing blue jeans and brown work boots. A large, dark, cylindrical object, likely a piece of asphalt or a similar material, is being held by the worker and is being applied to a surface. The worker is wearing a hard hat. The background shows a construction site with a truck and some equipment.

# Need selectors?

```
<script type="text/javascript" src="eCSStender.js"></script>
<script type="text/javascript" src="sizzle.js"></script>
<script type="text/javascript">
  // <![CDATA[
  eCSStender.addMethod('findBySelector',Sizzle);
  // ]]>
</script>
<script type="text/javascript" src="eCSStender.CSS3-selectors.js"></script>
```

# Compound classes in IE6?

```
p.test {  
    color: green;  
}  
  
p.alt.test {  
    color: red;  
}
```

**This paragraph should be green.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

**This paragraph should be red.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

# Adjacent siblings?

```
p + p {  
    color: green;  
}
```

**This paragraph should be the default color.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip. Ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum. Zzril delenit augue duis dolore te feugait nulla facilisi.

**This paragraph should be green.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip. Ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum. Zzril delenit augue duis dolore te feugait nulla facilisi.

# General siblings?

```
p ~ p {  
    color: green;  
}
```

**This paragraph should be the default color.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip. Ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum. Zzril delenit augue duis dolore te feugait nulla facilisi.

**This paragraph should be green.** Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip. Ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum. Zzril delenit augue duis dolore te feugait nulla facilisi.

# Advanced pseudo-classes?

```
tr {  
    background: white;  
}  
td:empty {  
    background: green;  
}
```

This row should be white	#ffff
This row should be white	#ffff
The <code>td</code> next to this one should be green	
This row should be white	#ffff
This row should be white	#ffff



33

# Consider border-radius

```
#foo {  
    border-radius: 3px;  
}
```

# Consider border-radius

```
#foo {  
  -moz-border-radius: 3px;  
  -webkit-border-radius: 3px;  
  -o-border-radius: 3px;  
  -khtml-border-radius: 3px;  
  border-radius: 3px;  
}
```

# Consider border-radius

```
#foo {  
    border-radius: 10px 5px;  
}
```

# Consider border-radius

```
#foo {  
    -moz-border-radius: 10px 5px;  
    -webkit-border-top-left-radius: 10px;  
    -webkit-border-top-right-radius: 5px;  
    -webkit-border-bottom-right-radius: 10px;  
    -webkit-border-bottom-left-radius: 10px;  
    -o-border-radius: 10px 5px;  
    -khtml-border-top-left-radius: 10px;  
    -khtml-border-top-right-radius: 5px;  
    -khtml-border-bottom-right-radius: 10px;  
    -khtml-border-bottom-left-radius: 10px;  
    border-radius: 10px 5px;  
}
```

# Ah, memories...

```
#foo {  
  padding: 10px;  
  width: 200px;  
  w\idth: 180px;  
  height: 200px;  
  heigh\t: 180px;  
}  
  
/* or */  
  
#foo {  
  padding: 10px;  
  width: 200px;  
  height: 200px;  
}  
* html #foo {  
  width: 180px;  
  height: 180px;  
}
```

# Simplified CSS3?

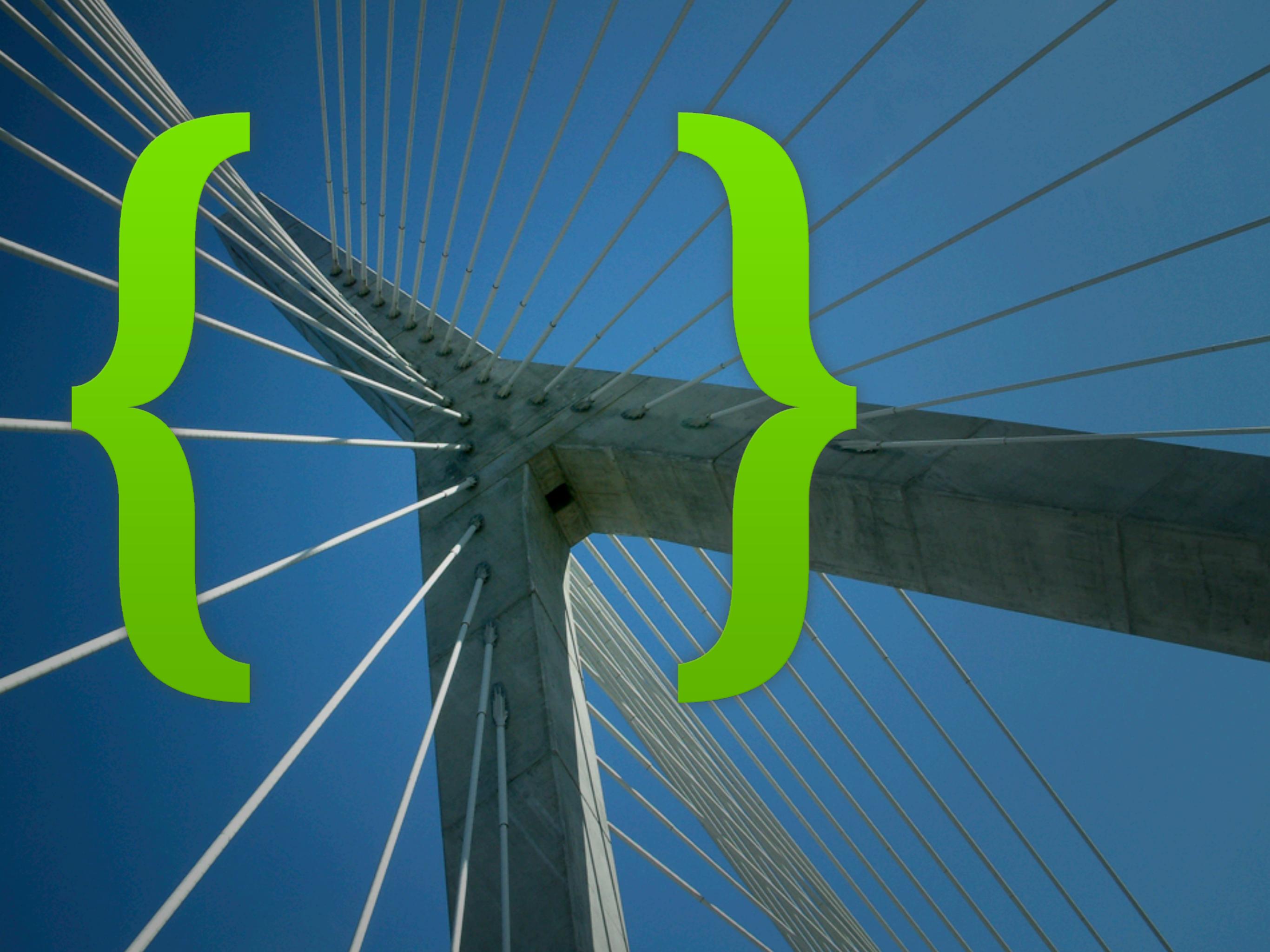
```
<script type="text/javascript" src="eCSStender.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-backgrounds-and-borders.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-transforms.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-color.js"></script>
<script type="text/javascript" src="eCSStender.CSS3-transitions.js"></script>
```

# Yup!

```
section,  
article,  
blockquote {  
    border-radius: 10px;  
    box-shadow: 0 0 15px 1px #000;  
    color: rgb(255, 255, 255);  
    transform-origin: 50% 50%;  
    transition: all 0.5s linear;  
}  
section:hover,  
body:focus section,  
section:hover blockquote,  
body:focus blockquote {  
    transform: rotate(-15deg);  
}  
section:hover article,  
body:focus article {  
    transform: rotate(30deg);  
}
```



<http://ecsstender.org/demos/spoon/>



# Valid extension of CSS

-prefix-

# Browser vendors do it



-moz-



-webkit-

*Microsoft*®

-ms-



-o-



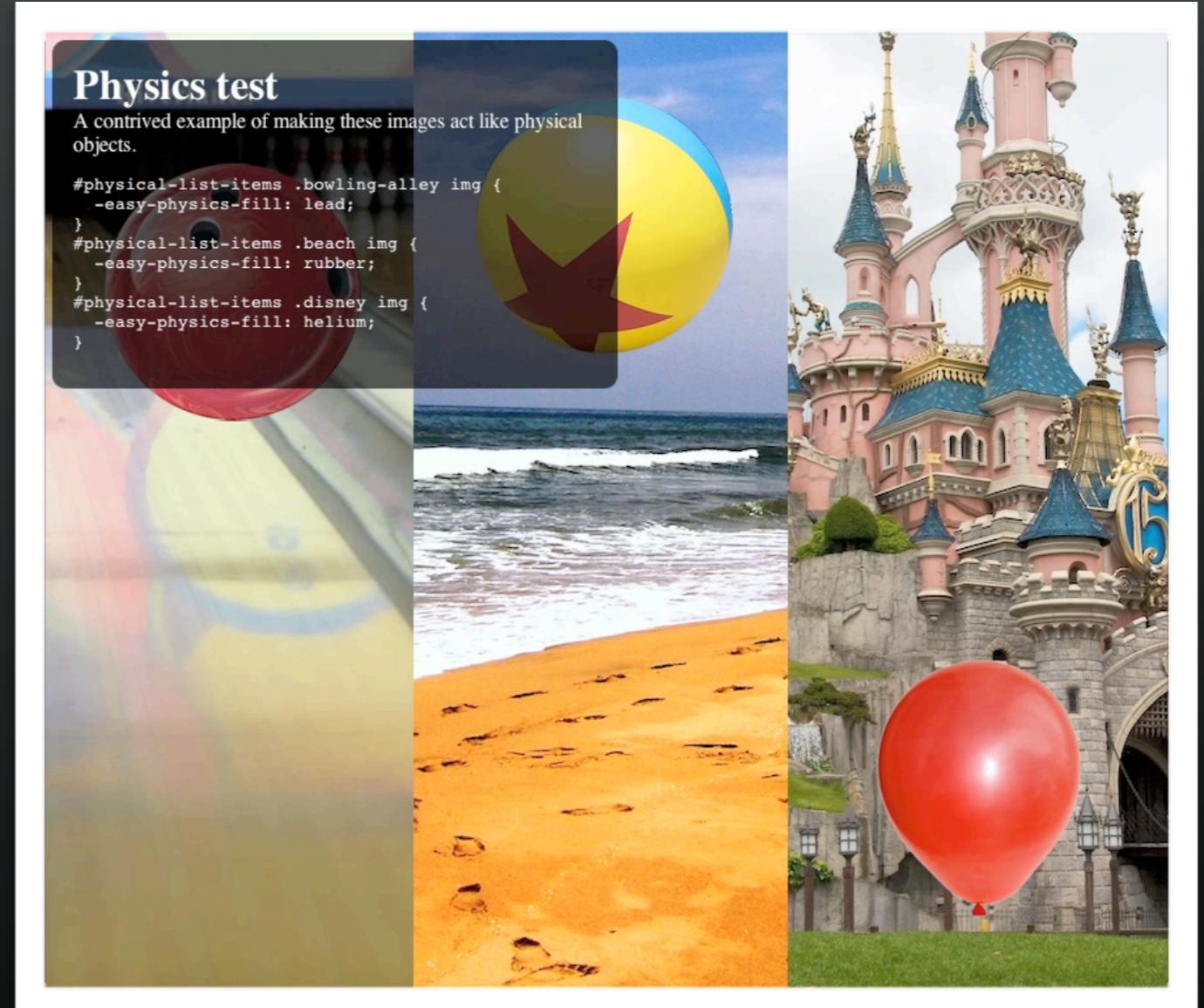
3



THE FUTURE OF CSS

# Pointless, but possible

```
.bowling-alley img {  
  -easy-physics-fill: lead;  
}  
.beach img {  
  -easy-physics-fill: rubber;  
}  
.disney img {  
  -easy-physics-fill: helium;  
}
```



<http://ecsstender.org/demos/physics/>

33



# Step 1: Register extensions



# Step 2: Find stylesheets



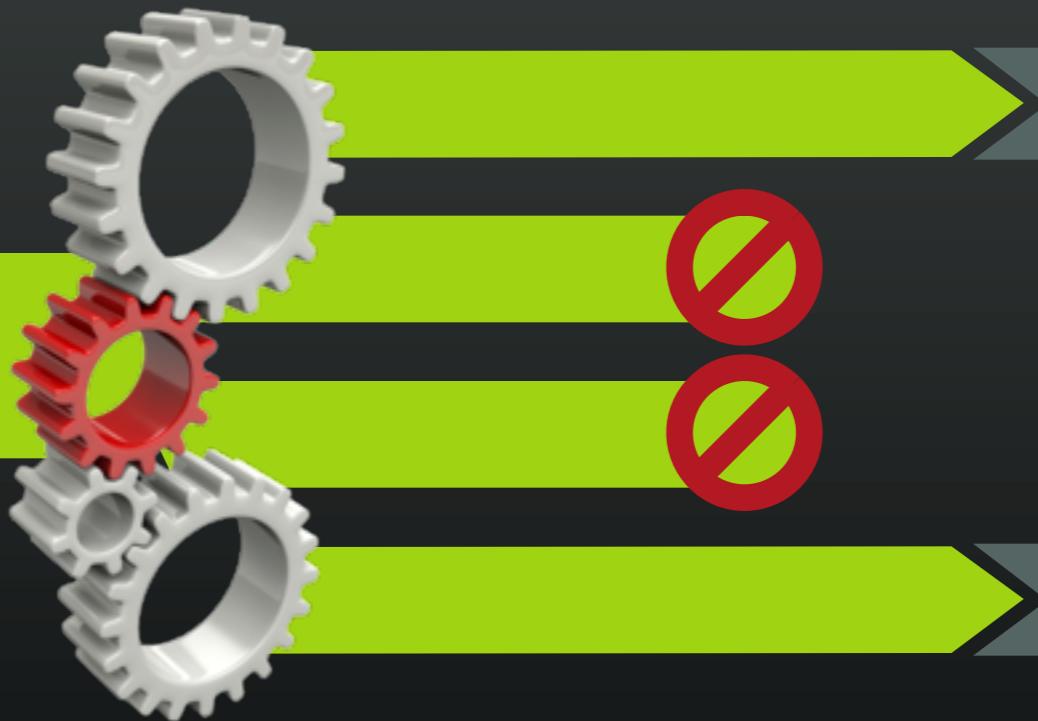
# Step 3: Collect the rules



Collect

# Step 4: parse & process

Process



# Step 5: Trigger extensions



{+}

# Helping hands

- Dean Edward's IE scripts
- Selectivizr
- css3-mediaqueries.js
- Respond.js



Browser  
Patchers

# Alternative syntax

- SASS (Syntactically Awesome Stylesheets)
- LESS (Leaner CSS)
- OO CSS (purely conceptual)

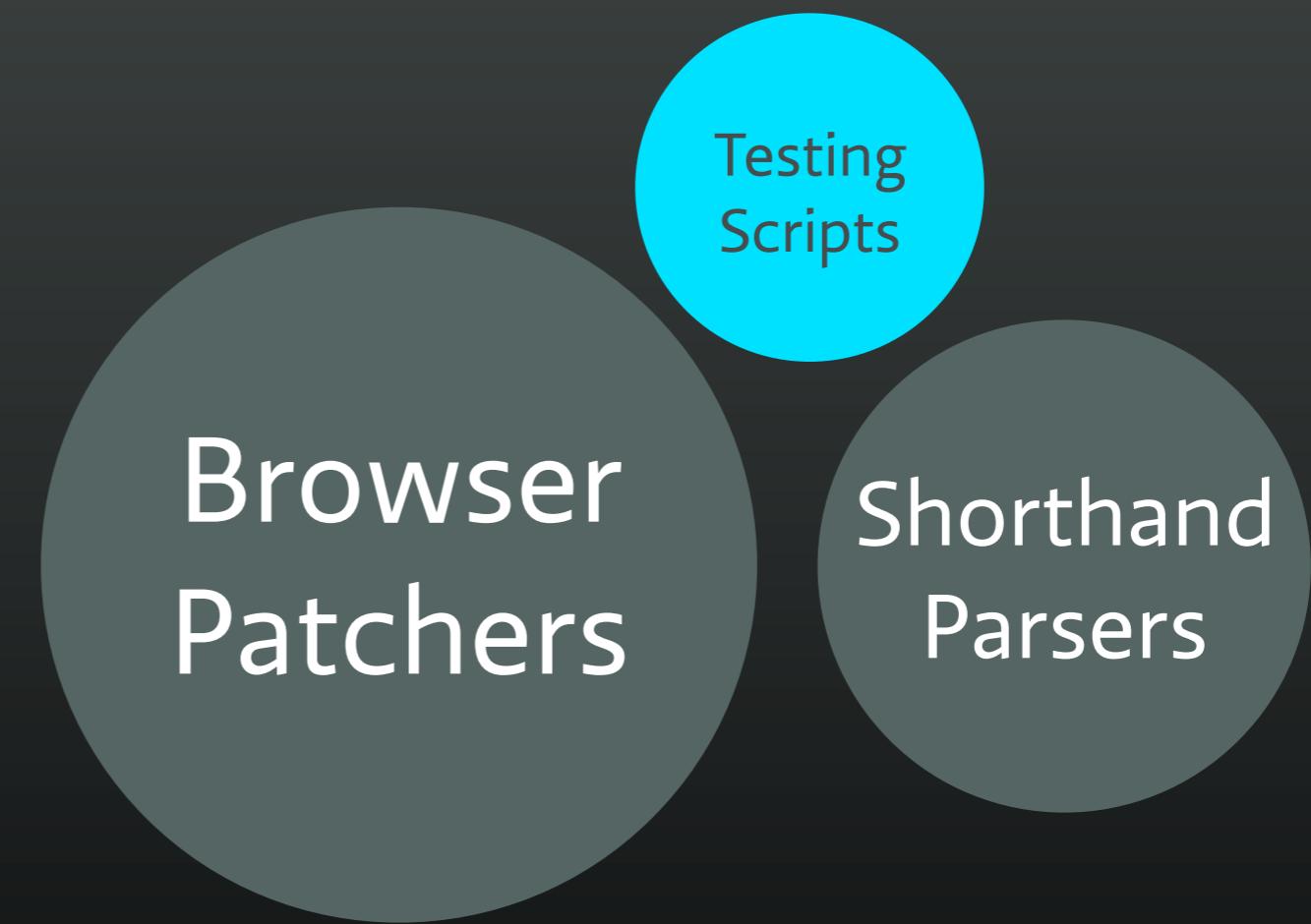


Browser  
Patchers

Shorthand  
Parsers

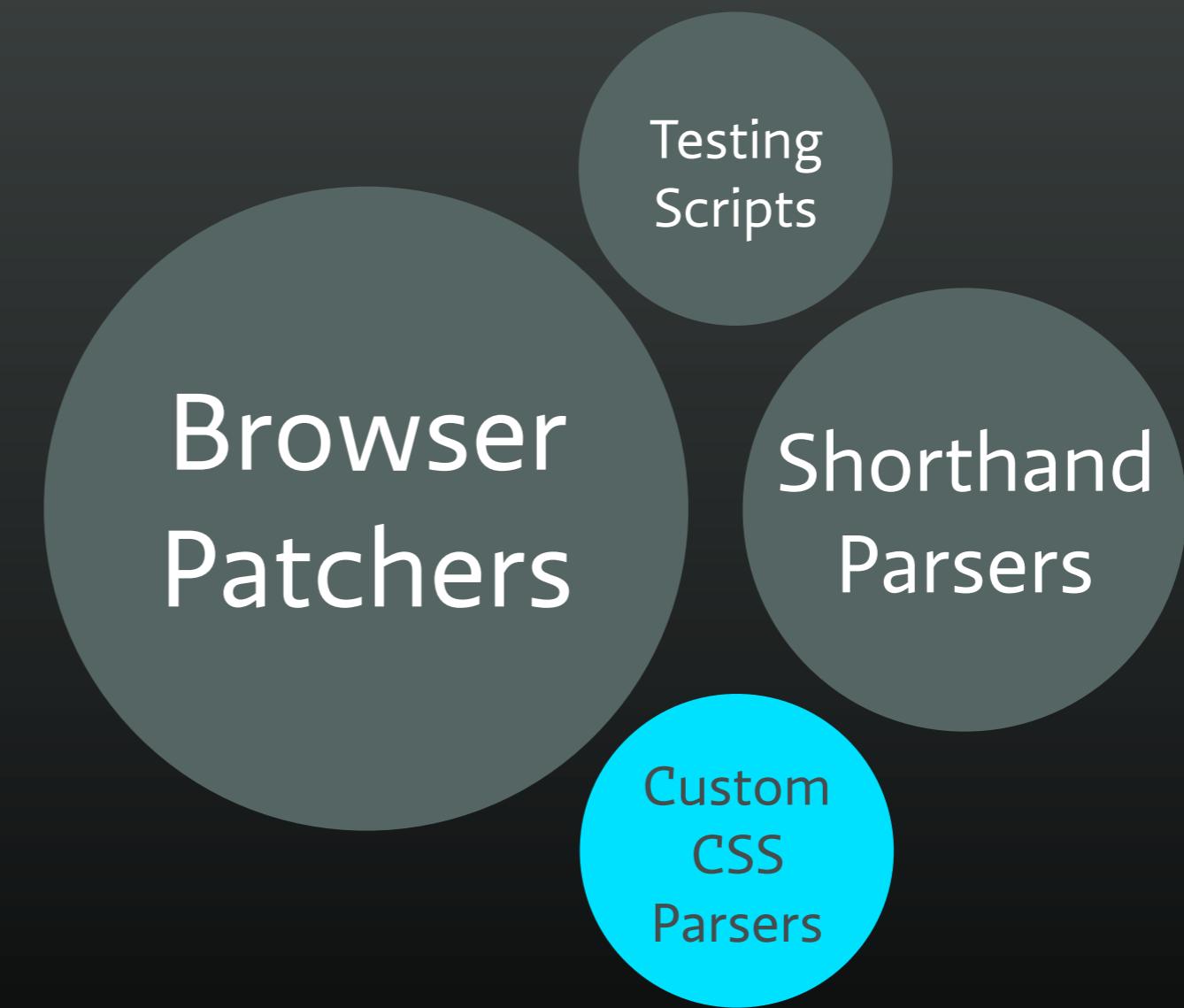
# Capability checking

- Modernizr



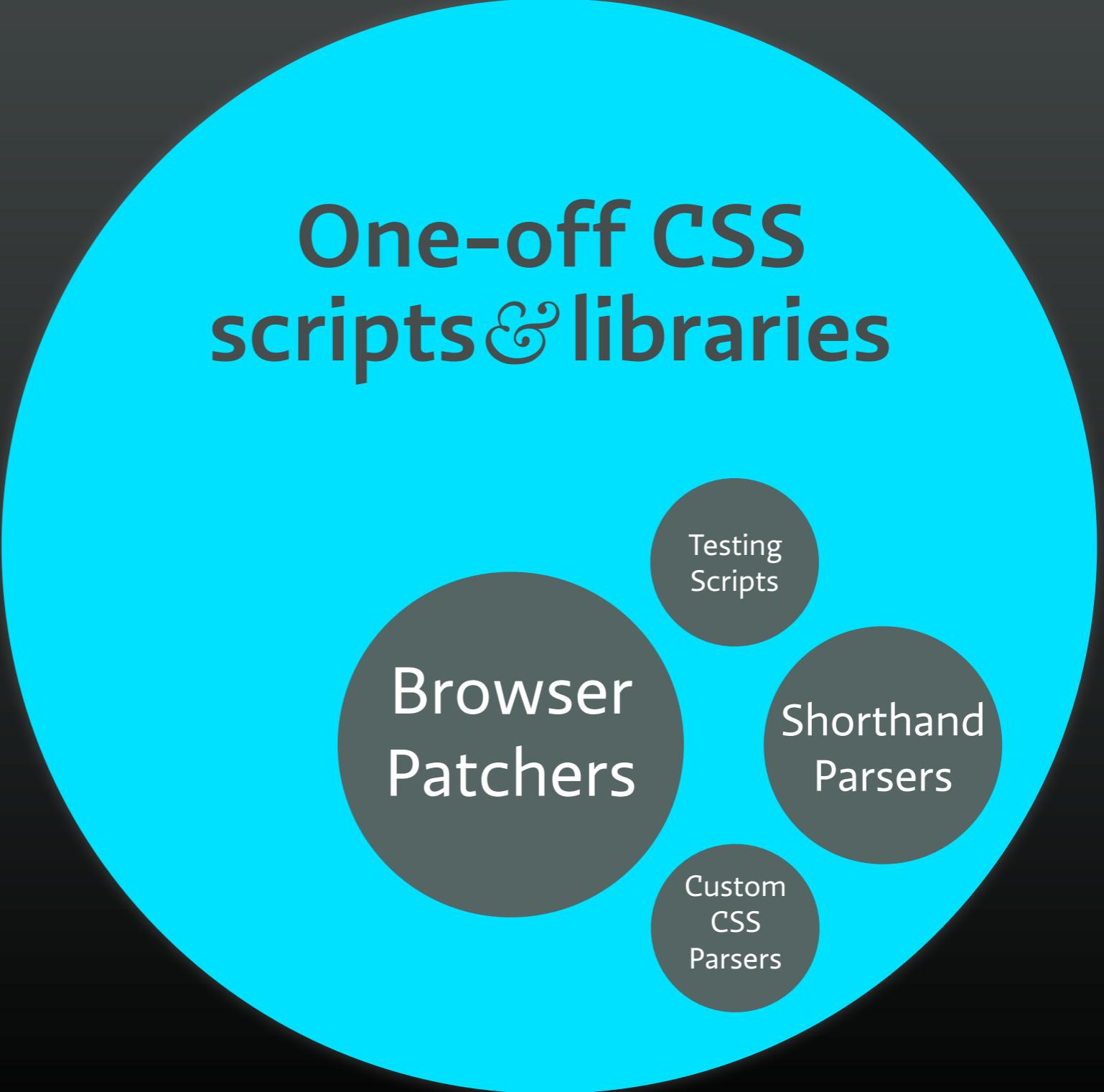
# Something new

- More CSS



# Ecosystem

- jQuery plug-ins
- CSS Sandpaper
- CVI scripts



**One-off CSS  
scripts & libraries**



**Browser  
Patchers**



Testing  
Scripts



Shorthand  
Parsers



Custom  
CSS  
Parsers

# Unity!

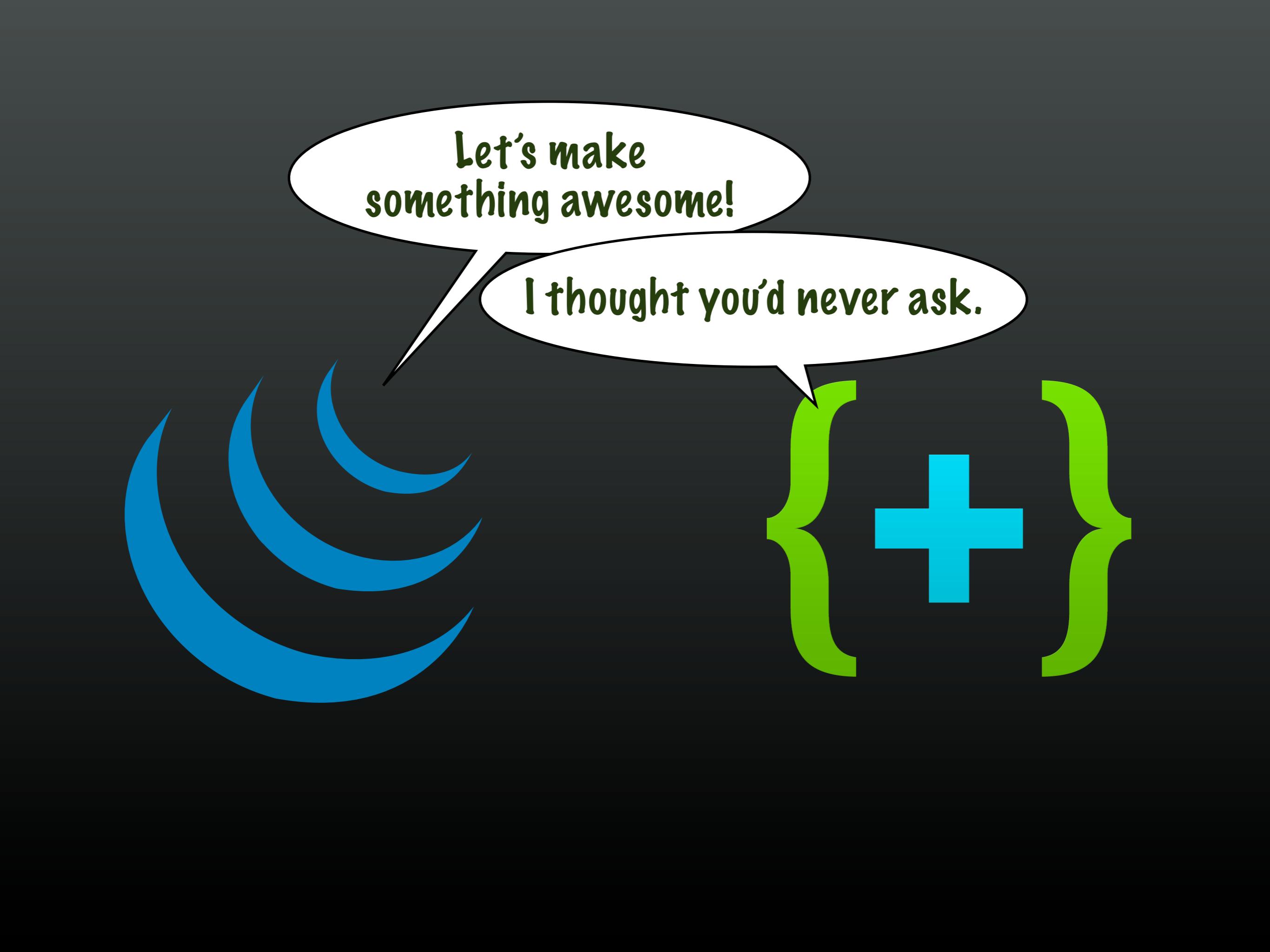
One-off CSS  
scripts & libraries

Browser  
Patchers

Testing  
Scripts

Shorthand  
Parsers

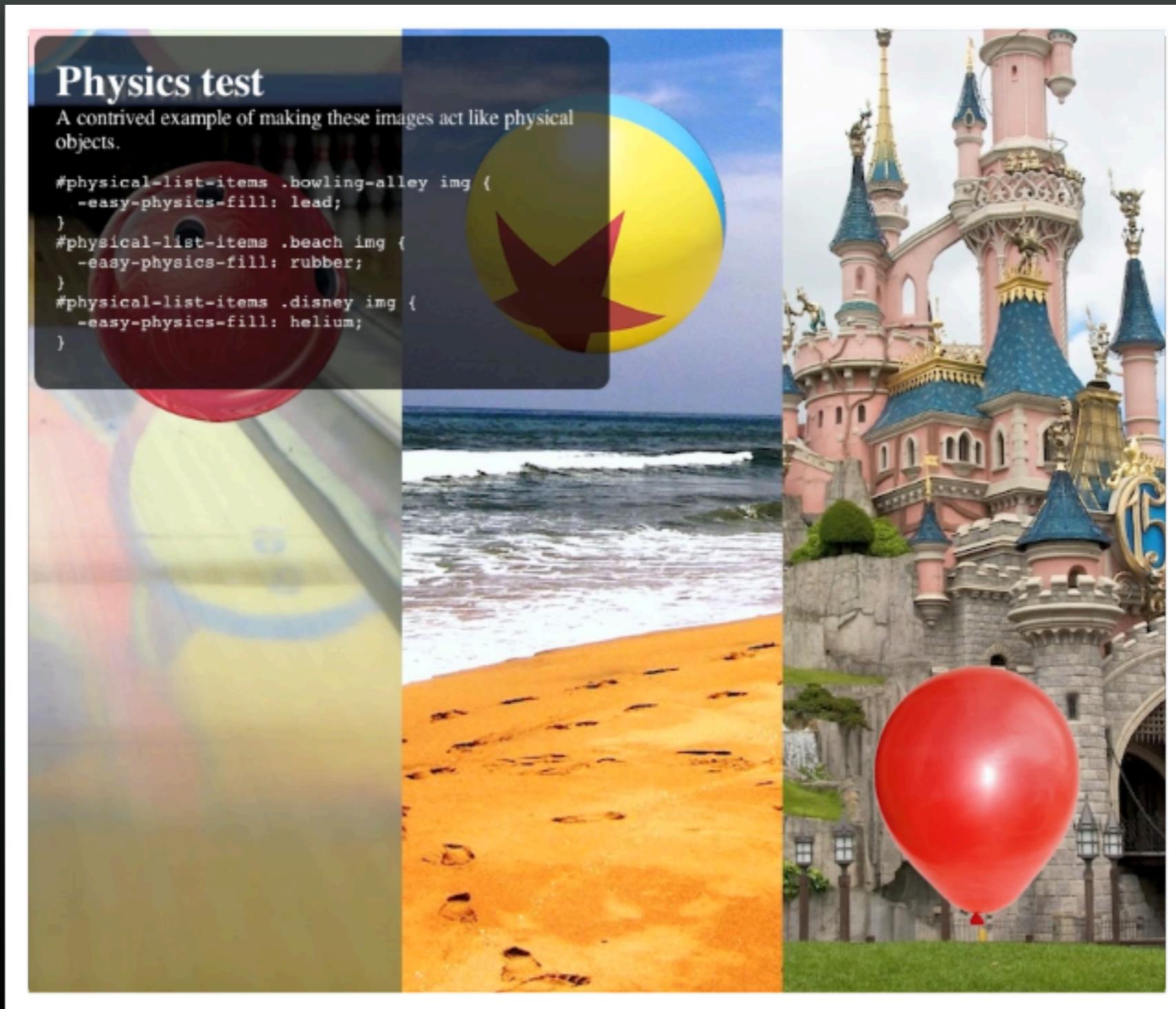
Custom  
CSS  
Parsers



Let's make  
something awesome!

I thought you'd never ask.

# Pointless, but possible



# Step 1: Dependencies

```
<script type="text/javascript" src="eCSStender.js"></script>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="jquery.EasyPhysics.js"></script>
```

# Step 1: Dependencies

```
// jquery.EasyPhysics.js
EasyPhysics.Balloon      = function( el ) {
    new PhysicalObject(
        el,      // element
        0,       // velocity
        -0.5,   // kinetic energy
        -0.1    // gravitational effect
    );
};

EasyPhysics.RubberBall   = function( el ) {
    new PhysicalObject( el, 0, -0.8, 0.5 );
};

EasyPhysics.BowlingBall  = function( el ) {
    new PhysicalObject( el, 1, -0.4, 0.9 );
};
```

# Step 2: Registration

```
eCSStender.register(
```

```
);
```

# Step 2: Registration

```
eCSStender.register(  
  { property: '-easy-physics-fill',  
    fingerprint: 'net.easy-designs.-easy-physics'  
  },  
  
);
```

# Step 2: Registration

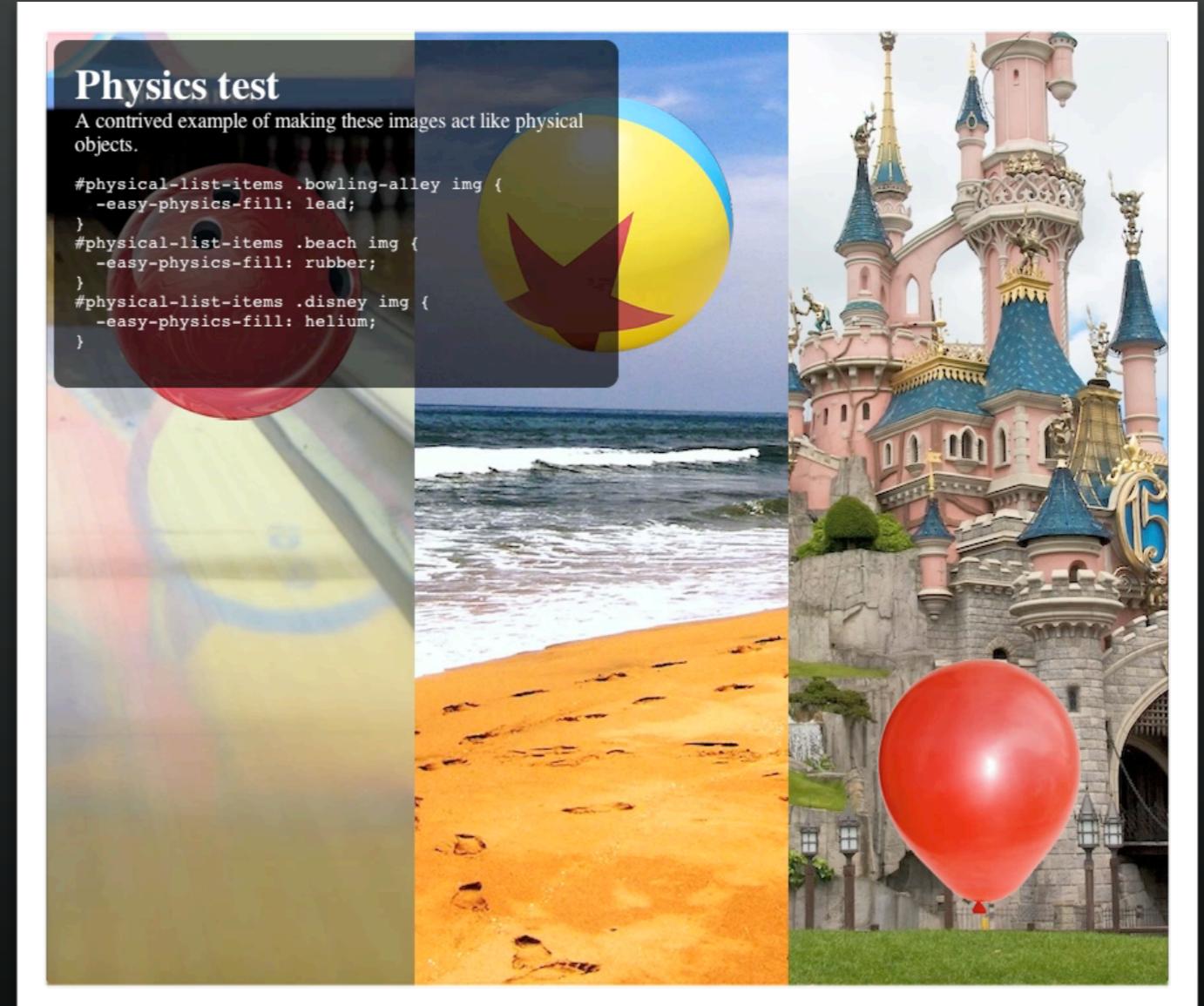
```
eCSStender.register(  
  { property: '-easy-physics-fill',  
    fingerprint: 'net.easy-designs.-easy-physics'  
  },  
  false,  
  
);
```

# Step 2: Registration

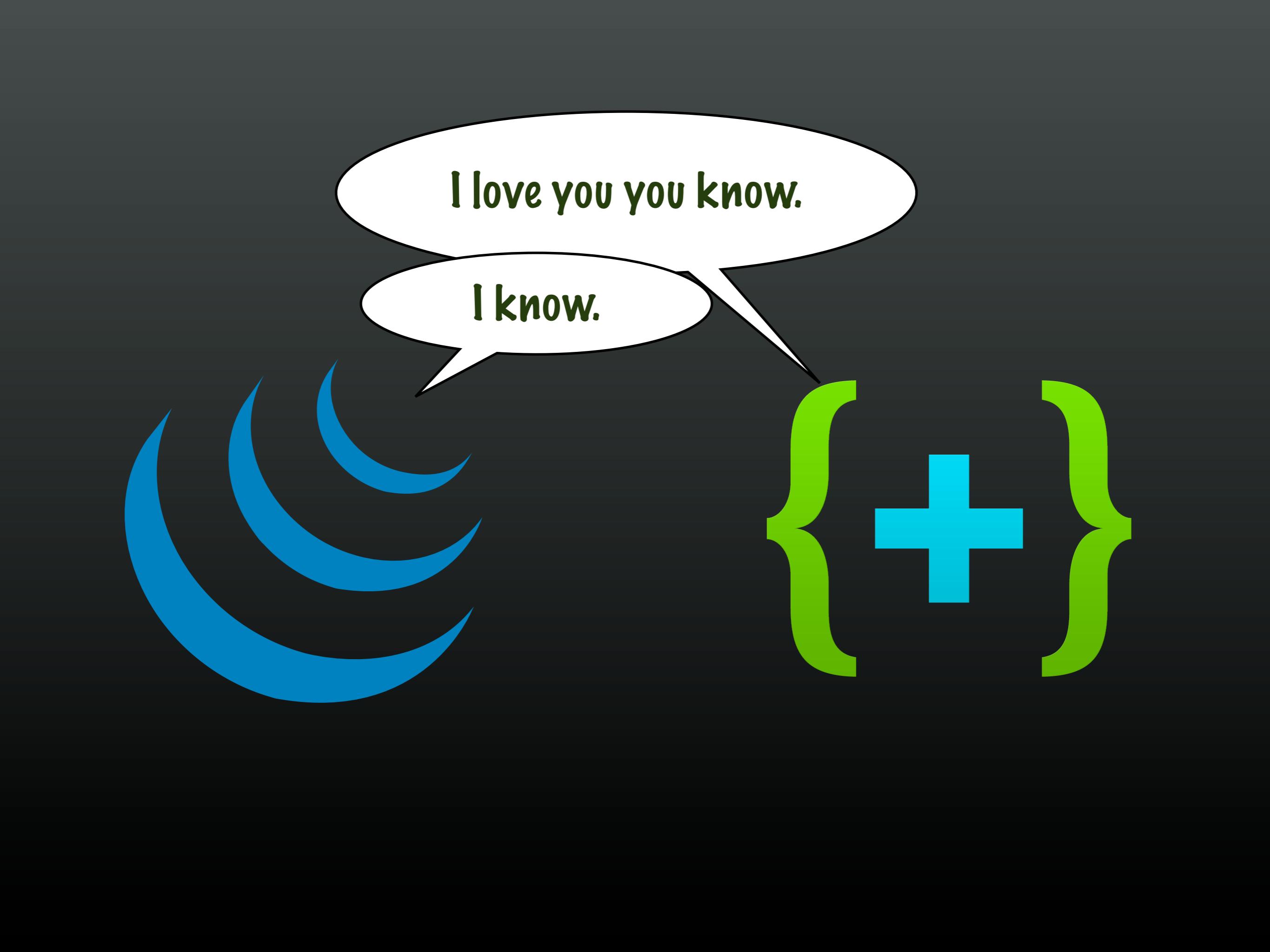
```
eCSStender.register(  
  { property: '-easy-physics-fill',  
    fingerprint: 'net.easy-designs.-easy-physics'  
  },  
  false,  
  function( selector, properties ){  
    var $el = $(selector);  
    switch ( properties['-easy-physics-fill'] )  
    {  
      case 'helium':  
        new EasyPhysics.Balloon( $el );  
        break;  
      case 'rubber':  
        new EasyPhysics.RubberBall( $el );  
        break;  
      case 'lead':  
        new EasyPhysics.BowlingBall( $el );  
        break;  
    }  
  });
```

# Pointless, but possible

```
.bowling-alley img {  
  -easy-physics-fill: lead;  
}  
.beach img {  
  -easy-physics-fill: rubber;  
}  
.disney img {  
  -easy-physics-fill: helium;  
}
```

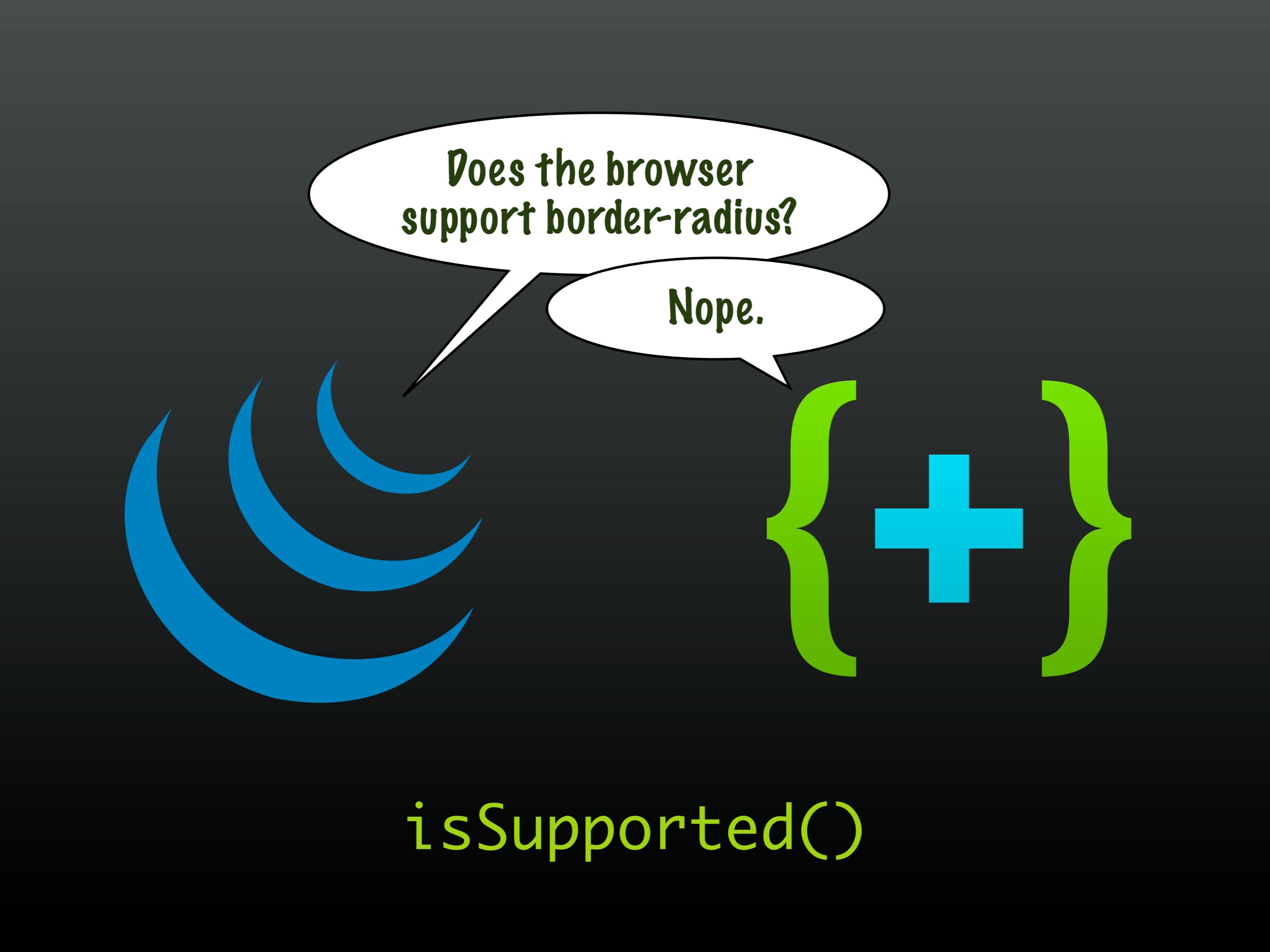


<http://ecsstender.org/demos/physics/>



I love you you know.

I know.



Does the browser  
support border-radius?

Nope.



isSupported()

# isSupported()

```
eCSStender.isSupported(  
  'property',  
  'visibility: hidden'  
);  
// true  
  
eCSStender.isSupported(  
  'property',  
  'foo: bar'  
);  
// false
```

# isSupported()

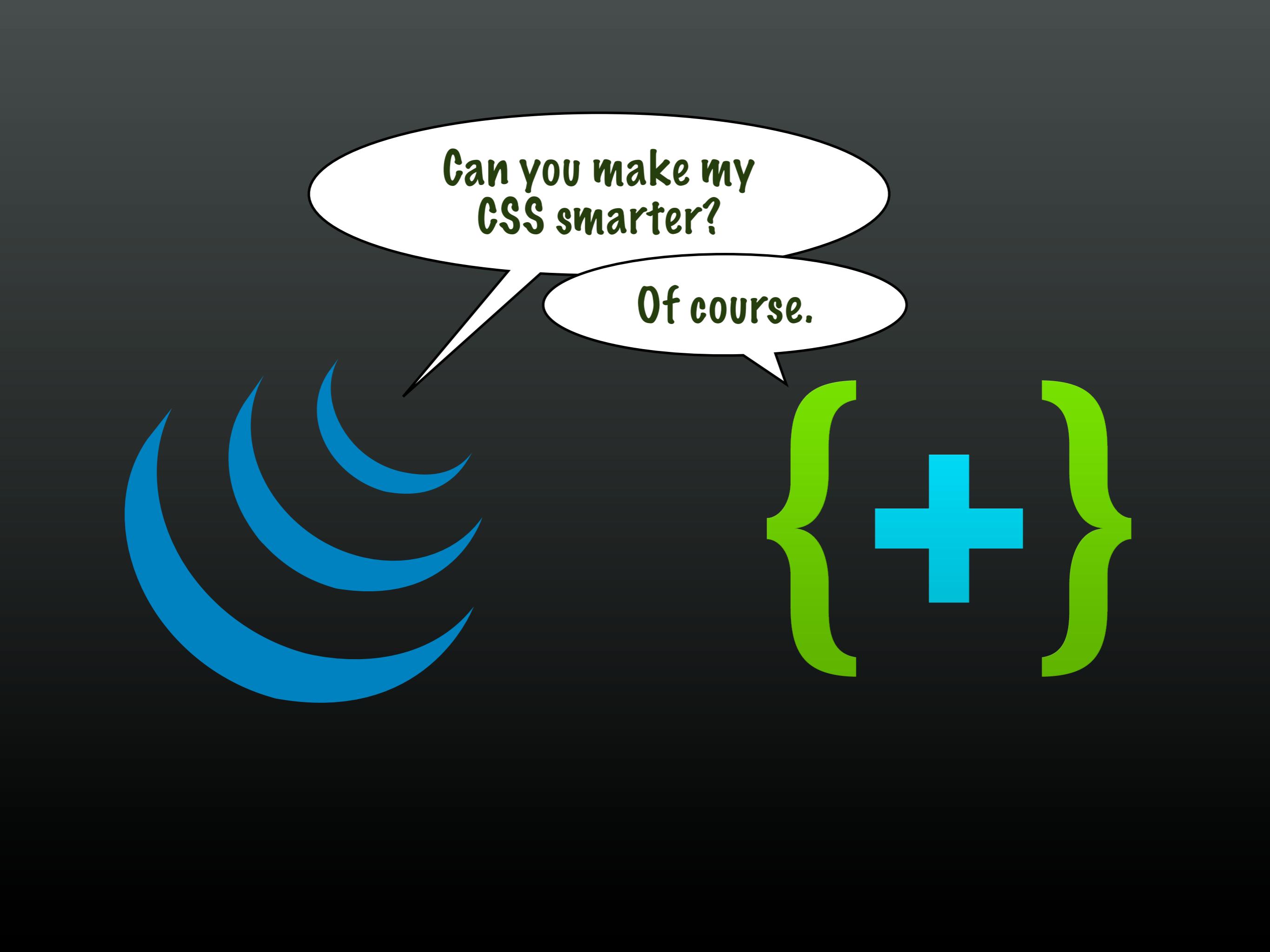
```
eCSStender.isSupported(  
  'property',  
  'visibility',  
  'hidden'  
);  
// true  
  
eCSStender.isSupported(  
  'property',  
  'color',  
  ['#000000', 'black', 'rgb(0,0,0)']  
);  
// true
```

# isSupported()

```
var
el = document.createElement('b'),
html = document.createElement('p');
html.appendChild(el);

eCSStender.isSupported(
  'selector',
  'p b',
  html,
  el
);
// true

eCSStender.isSupported(
  'selector',
  'p ?? b',
  html,
  el
);
// false
```



Can you make my  
CSS smarter?

Of course.

# Inline style sucks...

```
<div style="display: none;">  
  <p>Some content</p>  
</div>
```

# ...don't do it!

```
<div style="display: none;">  
  <p>Some content</p>  
</div>
```

# makeUniqueClass()

```
(function(){
  var
    e      = eCSStender,
    the_class = e.makeUniqueClass(),
    the_regex = /:checked/,
    classify = function() {
      var
        inputs = document.getElementsByTagName('input'),
        i      = inputs.length;
      while ( i-- ) {
        if ( inputs[i].checked ) {
          e.addClass( inputs[i], the_class );
        } else {
          e.removeClass( inputs[i], the_class );
        }
      }
    };
  // ...
})();
```

excerpt from :checked CSS3 Selectors extension

[github.com/easy-designs/eCSStender.CSS3-selectors.js](https://github.com/easy-designs/eCSStender.CSS3-selectors.js)

# embedCSS()

```
eCSStender.embedCSS(  
  'p { color: red; }',  
  'screen',  
  false  
);  
// embeds the rule set in a  
// screen-specific stylesheet immediately
```

# applyWeightedStyle()

```
eCSStender.applyWeightedStyle(  
  el, { 'visibility': 'hidden' }, 10 );  
// el now has visibility: hidden set  
// with a specificity of 10  
  
eCSStender.applyWeightedStyle(  
  el, { 'visibility': 'visible' }, 1 );  
// el is not set to visible because  
// the specificity is not high enough  
  
eCSStender.applyWeightedStyle(  
  el, { 'visibility': 'visible' }, 10 );  
// el is now “visible” because the specificity  
// is equal to the prior specificity  
  
eCSStender.applyWeightedStyle(  
  el, { 'visibility': 'hidden' }, 100 );  
// el is now “hidden” again because the  
// specificity is greater than the prior one
```

# As flexible as possible

```
function embed( selector, properties, medium )
{
  var style_block = '', prop;
  for ( prop in properties )
  {
    if ( eCSStender.isInheritedProperty( properties, prop ) ) {
      continue;
    };
    style_block += prop + ':' + properties[prop] + ';';
  }
  if ( style_block != EMPTY )
  {
    eCSStender.embedCSS(
      selector + '{' + style_block + '}', medium
    );
  }
}
```

excerpt from CSS3 Selectors extension

[github.com/easy-designs/eCSStender.CSS3-selectors.js](https://github.com/easy-designs/eCSStender.CSS3-selectors.js)

# As flexible as possible

```
function inline( selector, properties, medium, specificity ) {  
  if ( medium != 'screen' ){ return; }  
  try {  
    var  
    $els = $( selector ),  
    i    = $els.length;  
    while ( i-- ) {  
      eCSStender.applyWeightedStyle( $els[i], properties, specificity );  
    }  
    $els = null;  
  } catch(e) {  
    // throw new Error( LIB_ERROR + selector );  
  }  
}
```

excerpt from **CSS3 Selectors extension**

[github.com/easy-designs/eCSStender.CSS3-selectors.js](https://github.com/easy-designs/eCSStender.CSS3-selectors.js)

# As flexible as possible

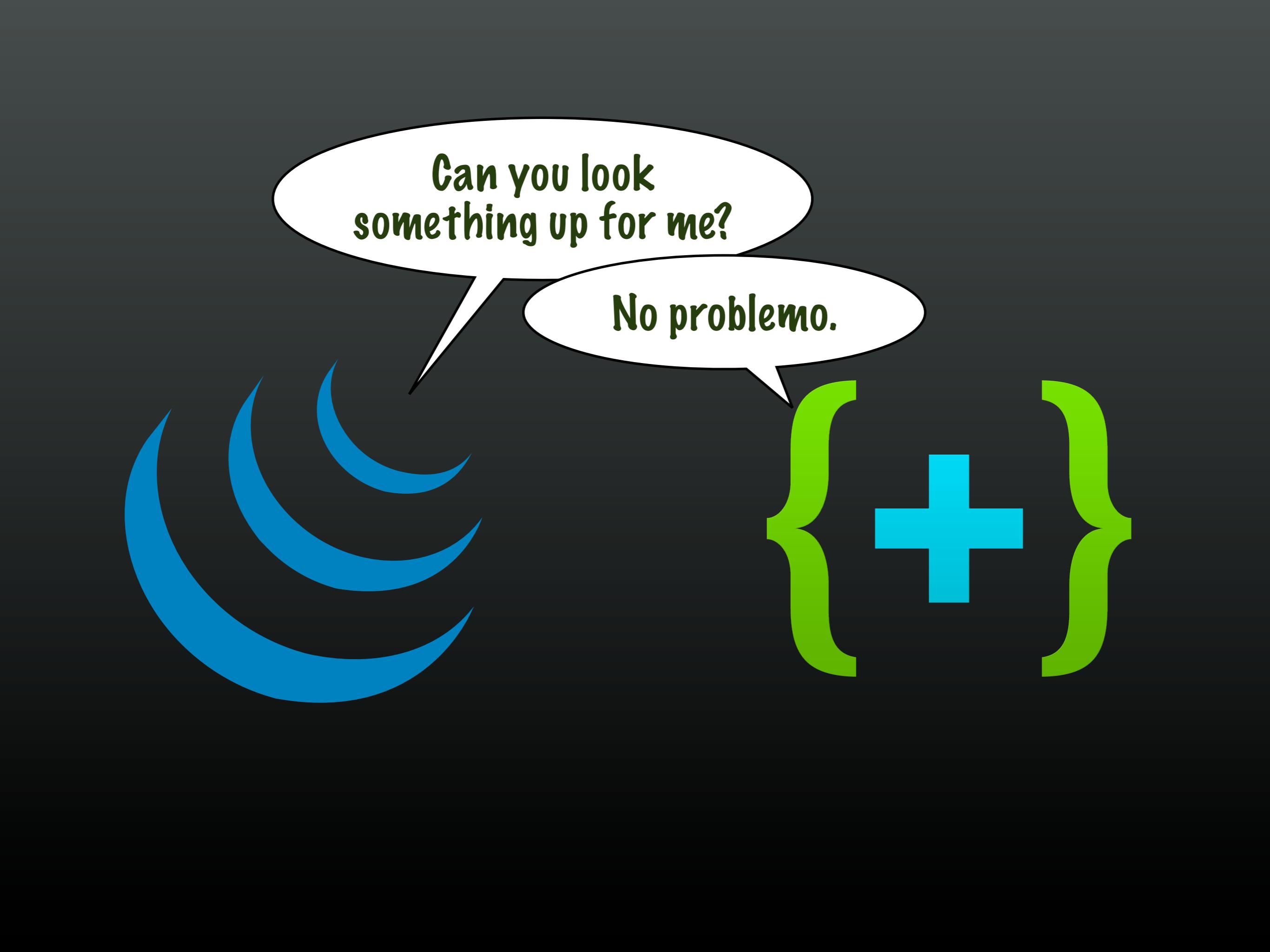
```
eCSStender.register(  
  // ...  
  function( selector, properties, medium, specificity ) {  
    var  
      calc = 'p:nth-child(2n+1)',  
      d = div.cloneNode(true),  
      p = para.cloneNode(true),  
      func = inline;  
    d.appendChild( p );  
    // embedding is the way to go  
    if ( ( eCSStender.isSupported( 'selector', 'p:nth-child(odd)' , d, p ) &&  
          ! eCSStender.isSupported( 'selector', calc, d, p ) ) &&  
        selector.match( /:nth-child\(\s*(?:even|odd)\s*\)/ ) != null ) ||  
      eCSStender.isSupported( 'selector', calc, d, p ) ) {  
      func = embed;  
    }  
    func( selector, properties, medium, specificity );  
    return func;  
  });
```

excerpt from :checked CSS3 Selectors extension

[github.com/easy-designs/eCSStender.CSS3-selectors.js](https://github.com/easy-designs/eCSStender.CSS3-selectors.js)

# addRules()

```
var style = eCSStender.embedCSS(  
  'p { color: red; }',  
  'screen',  
  false  
);  
  
// ...  
  
eCSStender.addRules(  
  style,  
  'p { color: blue; }'  
);
```



Can you look  
something up for me?

No problemo.

# lookup()

```
var matches = eCSStender.lookup(  
  {  
    selector: 'h1',  
    specificity: { min: 0, max: 2 }  
  },  
  '*'  
);  
// looks for rules where the  
// selector includes an h1 and the  
// specificity is between 0 and 2  
// e.g.  
// [ { medium: 'all'  
//   selector: 'h1',  
//   specificity: 1  
//   properties: { color: 'red' }  
// }, ... ]
```

# elementMatchesSelector()

```
if ( eCSStender.elementMatchesSelector( el, 'div:last-child' ) )
{
    // do something with the div
}
else
{
    // element wasn't what we were looking for
}
```

# matchMedia()

```
if ( eCSStender.matchMedia( 'screen and (max-width=1024)' ) )
{
  // screen might be a tablet
}
```

# getCSSValue()

```
if ( eCSStender.getCSSValue( element, 'display' ) == 'none' )  
{  
    // element is currently hidden  
}
```





Help make me better!

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Fork: [github.com/easy-designs/eCSStender.js](https://github.com/easy-designs/eCSStender.js)  
Discuss: [groups.google.com/group/ecsstender](https://groups.google.com/group/ecsstender)

# CSS & eCSStender

by Aaron Gustafson

Slides available at

<http://slideshare.net/AaronGustafson>

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**More on eCSStender:**

<http://eCSStender.org>

@eCSStender

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