as told by Stephen Hay at Fronteers 2017

A Ghost Story

of CSS

@stephenhay





A Christmas Carol in Prose, Being a Ghost-Story of Christmas

# Ghost of CSS Past







Photo by Alper Çuğun: https://www.flickr.com/photos/alper/1403915234/

-





## AARGGH! My left hand is gone!

Photo by Alper Çuğun: https://www.flickr.com/photos/alper/1403915234/

-





Photo by Bart: https://www.flickr.com/photos/acbo/1470718525/











**Stephen Hay** @stephenhay

CSS. Best one gets on a slide in my @FronteersConf deck.

8:01 PM - 2 Oct 2017



# Show me some CSS you used 10 years ago, compared with how you'd do it with today's

 $\sim$ 



Stuart Robson @StuRobson · Oct 2 Replying to @stephenhay @FronteersConf

(still works by the looks of it too)

**▼#document** v<html> head>...</head> nav\_r2\_c1\_f2.gif')"> v ▼ ▼ == \$0 v ▼<div align="right"> ▼ ▶ ... </div> td height="42">... <div align="center"></div> </body> </html> </frame> > <frame name="mainFrame" src="Main.htm">...</frame> </frameset>



the only thing I got that's old, is more like 16 years ago :-O

v <frameset rows="97,354\*" frameborder="NO" border="0" framespacing="0" cols="\*"> 

 $\checkmark$ 

v <body bgcolor="#CCFFCC" text="#0000000" onload="MM\_preloadImages('nav/</pre>

<img src="Images/logo.gif" width="346" height="18" align="top">





Replying to @StuRobson @FronteersConf

### That's HTML, my friend.

8:08 PM - 2 Oct 2017



 $\sim$ 



Stuart Robson

Replying to @stephenhay @FronteersConf

### I need another drink.

8:08 PM - 2 Oct 2017









Replying to @stephenhay

## Looking back more like 15 years it was apparently all in-line CSS for me 😎

56 ▼	<pre><div <="" id="menu_about" pre="" style="position:absolu"></div></pre>
57 ▼	<table border="0" cellpaddi<="" cellspacing="0" th=""></table>
58 ▼	
59 ▼	<pre><font <="" color="#333333" face="arial" pre="" size="1"></font></pre>
60	<font color="black">What is this?</font> 
61	
62	Text
63	
64	<font color="black">Who am I then?</font> <b< th=""></b<>
65	
and the second second	

```
Text<br>
```

```
<br>>
```

```
</font>
```

```
</div>
```

### 8:12 PM - 2 Oct 2017

**Follow**  $\sim$ 

te; top:126px; left:60px; visibility:visible; z-index:3"> ng="0" width="275">

<a href="mailto:mike@redvolume.com" style="text-decoration:none">mike@redvolume.com</a>



Alex Morris @aexmo

Replying to @stephenhay @FronteersConf

# thing

9:53 PM - 2 Oct 2017





Stuart Robson @StuRobson

Replying to @aexmo @stephenhay @FronteersConf

### then back to float: left;

am I right.

10:24 PM - 2 Oct 2017





Samia Ruponti @Snowbell1992

Replying to @stephenhay @FronteersConf

### Transparent pngs for rounded corners, anyone? There's a zoom trick too, but I'm too sleepy to remember what it did.

8:48 PM - 2 Oct 2017





Replying to @stephenhay @FronteersConf

didn't exist yet.



5:09 PM - 3 Oct 2017



 $\sim$ 

## I found this in a stylesheet named ie6.css. It's from 2010, when I used tabs and BEM



Wim van lersel @banaan666

Replying to @hdv @stephenhay @FronteersConf

## Isn't that one of those hasLayout hacks? Aarrrghhhhhhh the nightmares are coming back to me

10:02 PM - 3 Oct 2017

## Follow ~





Figure 19-5. This rounded box is made of a 9-cell table with four graphics for corners





 $\sim$ 

mikemartin604

Follow

mikemartin604 Remember where you came from.

maidenskull Gross ;)

chuckbergeron spacer.gif





 $\sim$ 

Figure 19-5. This rounded box is made of a 9-cell table with four graphics for corners





**Rik Schennink** @rikschennink

Replying to @stephenhay @FronteersConf

2005: Magic numbers, absolute positioning, id's, basically (ab)using divs to create a table layout. Nowadays it's all flexbox/grid > fluid.

#header {
position: absolute;
top: Opx;
left: Opx;
width: 677px;
height: 88px;
padding-left: 82px;
padding-top: 30px;
background-image: url(
background-repeat: no-
z-index: 3;
3

### 9:07 AM - 3 Oct 2017







JulezRulez @JulezRulez · Oct 3 Replying to @wnas @stephenhay and 2 others link="#FFFF00" vlink="#C0C0C0">

Translate from Dutch









Wilfred Nas @wnas · Oct 3

Replying to @petervangrieken @stephenhay and 2 others

<font color="pink"><b>yahoo</b></font></font>

Translate from Dutch





# $\sim$ oh ja, ik heb een oudere gevonden: <body bgColor="#0000FF" text="#FFFFFF" М $\sim$ nope, vroeger was het nog veel mooier. <font size="14px">



### @import url("layout.css"); @import url("layoutpresentation.css"); @import url("text.css"); @import url("print.css") print;

Maarten Brouwers @murb · Oct 3

Replying to @stephenhay @FronteersConf

Not much has changed :)

```
C 23
        1 . 16
@import 'settings.fonts.scss'; -
@import 'settings.orgname.scss';-
@import 'elements.scss';-
@import 'objects.card.scss'; -
@import 'objects.card-group.scss'; -
@import 'objects.meta.scss'; -
@import 'objects.panel.scss'; -
@import 'objects.visualized.scss'; -
@import 'objects.warnings.scss';-
@import 'components.aside.scss';-
@import 'components.breadcrumbs.scss';-
@import 'components.callout.scss'; -
@import 'components.forms.scss';-
@import 'components.header.scss'; -
@import 'components.hero.scss'; -
@import 'components.list.infinite.scss'; -
@import 'components.pagehead.scss'; -
@import 'components.tabs.scss'; -
@import 'components.top-bar.scss'; -
@import 'components.user-area.scss';
aimport 'components.viewer.scss':
```

Maarten Brouwers @murb · Oct 3

Replying to @stephenhay @FronteersConf Not much has changed :)





**Robert Jan Verkade** @verkade

Replying to @stephenhay @FronteersConf

Dit is van 10 jaar geleden...

#functies #sf-zoek form{ /\* IE5/Mac hack \*/ width:13em; /\*\\*/width:auto;/\*\*/

Translate from Dutch

3:14 PM - 3 Oct 2017





**Robert Jan Verkade** @verkade

Replying to @stephenhay @FronteersConf

Dat zou ik nu anders schrijven...

.search { width:auto

**Translate from Dutch** 

3:17 PM - 3 Oct 2017





@jameswillweb



# CSS Hacks



**Robert Jan Verkade** @verkade

Replying to @stephenhay @FronteersConf

Dit is van 10 jaar geleden...

#functies #sf-zoek form{ /\* IE5/Mac hack \*/ width:13em; /\*\\*/width:auto;/\*\*/

Translate from Dutch

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didn't exist yet.



5:09 PM - 3 Oct 2017



 $\sim$ 

## I found this in a stylesheet named ie6.css. It's from 2010, when I used tabs and BEM

# Ingenuity

Keep in mind that background images only show in the available "doorway" of the element to which they're applied (content area + padding). The two images are anchored to the outside corners of their respective elements. The visible portions of these background images fit together inside the doorway to form a tab-like shape:



If the tab is forced to a larger size, the images slide apart, filling a wider doorway, revealing more of each image:



https://alistapart.com/article/slidingdoors

# "Rounded corners"



## My two cents on roundedcorner markup

🕓 March 16, 2006 👘 🖕 Design, Web

(2009-10-22: This is an old article, I would say deprecated, and you really shouldn't be doing things this way, with the border-radius property being supported in various forms in most current browsers.)

(2006-04-18: The demo has been updated and expanded upon.)

I need rounded corners for a design I'm working on. A discussion of why I need them is pointless (I know they're trendy, but in this case they can be considered defining visual elemonte ( ) However an examination of how to implement them is quite interacting

### Buy my Book



The book discusses why web design workflow is the way it is, the challenges relating to responsive design, and presents a different view on current processes and deliverables.
```
<div class="rounded">
    <div class="boxhead">
        <h2>This is a header</h2>
    </div>
    <div class="boxbody">
       This is the body.
   </div>
</div>
                        div_boxhead h2 {
                         }
                         .boxhead {
                         }
                         .boxbody {
                         }
                         .rounded {
```

## background: url("rounded.png") top left no-repeat;

background: url("rounded.png") top right no-repeat;

background: url("rounded.png") bottom right no-repeat;

background: url("rounded.png") bottom left no-repeat; width: 30%; /\* could be whatever you want, as long as your image is large enough \*/



### Haystack rounded corners demo

### Keeping it simple.

Only one image is used: a transparent rectangle with (inverted) white rounded corners (see "rounded.png"), so that you can simply call the background-color you like for each box without having to use separate images. This has the disadvantage that the corners are not as smooth as they could be.

Remember, the extent to which the box can extend vertically or horizontally will depend on the height and width of the image. That's the price we pay for single-image simplicity. For this example, I used 2000x2000px. That's 6kB, but acceptable since the cached image would be used for every rounded box on the page or site.

Take a look at the <u>CSS</u> for this page.

### Making it smooth.

For smooth corners, you'll have to wait for sufficient PNG-24 support in common browsers, or if you know the color you'll be using, make a separate image for each color, each image with the corners anti-aliased to their respective background-color. With separate images, you'll need to hook each to a separate class or ID.



### CSS3 Border-radius (rounded corners) 🖹 - CR

Method of making the border corners round. Covers support for the shorthand border-radius as well as the long-hand properties (e.g. border-top-left-radius)











Stephen Hay . Fronteers, Amsterdam . 20091105



Photo courtesy of Kenn W. Kiser, morgueFile.com



# CSS3-Grid (Microsoft) CSS3-Flexbox (Mozilla) CSS3-Layout (W3C)

```
<div id="parent">
</div>
#parent {
    display: box;
    #child3 {
        box-flex: 1;
        }
```

First child Second child Third child

box-orient: horizontal;

# 

The global layout for A List Apart: layout-in-a-tweet

1:03 AM Oct 22nd from web



stephenhay Stephen Hay









# Media queries and responsive design



### **Responsive Web Design**

by Ethan Marcotte · May 25, 2010 Published in CSS, Layout & Grids, Mobile/Multidevice, Responsive Design, Interaction Design

"The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must 'accept the ebb and flow of things.'"

### @MEDIA MOBILISM AND (YEAR: 2011)



# A CLOSER LOOK AT MEDIA QUERIES BY STEPHEN HAY

# Design systems and components



# Walls Come Tumbling Down London, June 2009

© 2009 FOR SHAMELESS SELF-PROMOTIONAL USE ONLY. NOT FOR RESALE

A NEWLY RECORDED VERSION BROUGHT TO YOU BY PUBLIC DEMAND

Andy Clarke Stuff and Nonsense



PAGES TO COMPONENTS TO SYSTEMS

# Developer tools

### Fronteers 2017

Home

Schedule

Sessions

Speakers

Live Transcription

Venues

Workshops

FrontCheers 💫

Jam Session



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### Fronteers Conference 2017: October 5-6, Amsterdam

Fronteers Conference is one of Europe's premiere conferences on front-end web development, organised in Amsterdam yearly since 2008. This year will see the **10th** anniversary edition of our single-track community-driven conference, which will take place in the beautiful Pathé Tuschinski theatre on Thursday and Friday, October 5-6, 2017. We also host a set of full-day front-

### ▶ <div id="container">...</div> ▶<script>...</script> </body> </html> html.js-enabled body#fronteers-nl Styles Event Listeners DOM Breakpoints Properties Filter :hov .cls + element.style { margin border body { fronteers.css?v=2016:7 padding font-size: 13px; background: > I transparent; font-family: sans-serif; html, body { fronteers.css?v=2016:3 \_\_\_\_\_ color: ##363636; Filter html, body, h1, fronteers.css?v=2016:1 h2, h3, h4, h5, background-attach... h6, blockquote, pre, code, p, ul, ol, background-clip li, dl, dt, dd, form, fieldset, legend, background-color label, div, span, table, tr, th, td { background-image margin:▶0; background-origin padding: ► 0; background-positi... background-positi... body { user agent stylesheet background-repeat... display: block:

Elements Console Sources Network >>

<!DOCTYPE html>

▶ <head>...</head>

<html lang="nl" class="js-enabled">

..▼<body id="fronteers-nl"> == \$0









# Preprocessors







# Functionally Cool Style Sheets

# Functionally Cool Style Sheets



A lot has happened in 10 years.

Multiple backgrounds, animations, transitions, filters, variables, calc(), more selectors, etc.

# Ghost of CSS Present







source: HTTP Archive



source: HTTP Archive

# Fighting against CSS



Stuart Robson @StuRobson · Oct 2 Replying to @stephenhay @FronteersConf

(still works by the looks of it too)

**▼#document** v<html> head>...</head> nav\_r2\_c1\_f2.gif')"> v ▼ ▼ == \$0 v ▼<div align="right"> ▼ ▶ ... </div> td height="42">... <div align="center"></div> </body> </html> </frame> > <frame name="mainFrame" src="Main.htm">...</frame> </frameset>



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 $\checkmark$ 

v <body bgcolor="#CCFFCC" text="#0000000" onload="MM\_preloadImages('nav/</pre>

<img src="Images/logo.gif" width="346" height="18" align="top">



## CSS is painful

CSS is a critical piece of the frontend toolkit, but it's hard to Most approaches to styling inside components rely on inline manage, especially in large projects. Styles are written in a styles, which are limiting. Atomic CSS, like inline styles, offers single-purpose units of style, but applied via *classes*. This global scope, which is narrowed through complex selectors. allows for the use of handy things such as media queries, Specificity issues, redundancy, bloat, and maintenance can become a nightmare. And modular, component-based projects contextual styling and pseudo-classes. The lower specificity of only add to the complexity. Atomic CSS enables you to style classes also allows for easier overrides. And the short, directly in your components, avoiding the headache of predictable classnames are highly reusable and compress managing stylesheets. well.

### Style with class

https://acss.io/

### example

// config object 'custom': { 'brandColor': '#0280ae', 'columnWidth': '20px' }

### example

Lorem ipsum </div>



<div class="Pos(a) Bgc(brandColor) W(columnWidth) H(90px)"></div> <div class="C(brandColor) BdB Bdc(brandColor) Mstart(columnWidth) P(</pre>

https://acss.io/

# What problem are we solving?

# 50 lies programmers believe, #20

CSS can be "object-oriented" or "functional" rather than a declarative rules language with a moderately complex inheritance model.

https://tommorris.org/posts/9317
## We seem to want CSS to be a programming language.



## Our concerns have shifted from techniques to processes.

# Ghost of CSS Yet to Come





# Ghost of CSS Yet to Come





The basics are in place. Layout (Responsive) Images Colour Typography Motion

## www.w3.org/Style/ CSS/current-work

## will be more frequently used as design tools.

CSS and developer tools

### Here's the real challenge:

## from processes to people.

Respect and collaboration.

From techniques to processes,



## We need to remember that all of this is by people, for people, and about people.

# All of the real problems are people problems.

So many talks by these folks where the old as fuck!

### whole argument is premised on what the web "is." You don't get to define it just cuz you



So many talks by these folks where the old as fuck!

Someone on Twitter, demonstrating skilful debate and formidable social prowess.

### whole argument is premised on what the web "is." You don't get to define it just cuz you



Someone on Twitter, demonstrating skilful debate and formidable social prowess.

### whole argument is premised on what the web "is." You don't get to define it just cuz you



Yoav Weiss @yoavweiss

#### Replying to @yoavweiss @sleevi\_ and 2 others

#### Anyway, I declare myself victor of this thread and going to celebrate my victory in a boat ride around Amsterdam!

5:48 PM - 4 Oct 2017







## Try this: defend your opponent's position and see what you learn from it.

## Learn from each other. Keep it fun!

## 10 years of Fronteers talks







I declare myself the victor of this conference and I'm going to celebrate in Amsterdam.



#### @stephenhay

