BE LIKE WATER

Applying Bruce Lee's philosophy to web design
“Be formless, shapeless, like water. Now you put water into a cup, it becomes the cup. You put water into a bottle, it becomes the bottle. You put it in a teapot, it becomes the teapot. Now water can flow, or it can crash. Be water, my friend.”

—Bruce Lee
Cascading HTML style sheets -- a proposal

Håkon Wlie
howcome@info.cern.ch
10 Oct 1994

v0.92 This document describes work in progress and is incomplete as a basis for implementation. Its primary purpose is to establish guiding principles and propose a level of functionality for HTML style sheets. Comments are solicited.

Abstract

This document proposes a style sheet scheme for HTML documents. The proposed scheme provides a simple mapping between HTML elements and presentation hints. Properties like font family and window size can be suggested by the style sheet, and it can also provide logic to make presentation decisions based on the user's environment; e.g. the size of the screen or the current date.

The style sheet scheme is designed so that style sheets can be cascaded; the user/browser specifies initial preferences and hands the remaining influence over to the style sheets referenced in the incoming document. This will provide publishers with stylistic influence without resorting to page description languages.

The scheme supports visual as well as non-visual media.

Introduction

Cascading is a central feature of the <i>World Wide Web</i> (WWW) since its inception. Publishers have always wanted to control the presentation of their documents on multiple media, but until the introduction of <i>Mosaic 1.0</i> in 1992, the only way to do this was to hand-craft the document's layout with the help of a page description language.

The present document is based on the initial design of the cascading CSS scheme, which was first implemented in the <i>Mosaic 2.0</i> release. The scheme's design has been influenced by the experience of many users with all kinds of authors and has been designed in order to minimize the work involved in authoring documents for this environment.

Overview

Many of the discussions of the future at CERN and the LHC era end with the question: "Yes, but how will we ever keep track of such a large project?" This proposal provides an answer to such questions. Firstly, it discusses the problem of information access at CERN. Then, it introduces the idea of linked information systems, and compares them with less flexible ways of finding information.

It then summarizes my short experience with non-linear text systems known as "hypertext", describes what CERN needs from such a system, and discusses some of the problems we have encountered while trying to implement some of these ideas. The result is a document on the WWW, presented in the form of linked information systems, which forms the basis of this proposal.
The "Blog" layout
The “Holy Grail” layout
The “Panel” layout
“Preformations simply lack the flexibility to adapt to the ever changing”

—Bruce Lee
Let's establish a new normal
“The hardest part is changing our thinking, not our CSS”

— Jen Simmons
State of Browsers (2017)

and many more...
Feature Queries

CSS Feature Queries allow authors to condition rules based on whether particular property declarations are supported in CSS using the @supports at rule.

<table>
<thead>
<tr>
<th></th>
<th>IE</th>
<th>Edge</th>
<th>Firefox</th>
<th>Chrome</th>
<th>Safari</th>
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</tbody>
</table>

Data from caniuse.com | Retrieved from caniuse.bisofico.de
.selector {
  /* Styles that are supported in old browsers */
}

@supports (property:value) {
  .selector {
    /* Styles for browsers that support the specified property */
  }
}
Flexbox and Grid

Based on the container-child relationship
Flexbox

Provides “simple and powerful tools for distributing space and aligning content in ways that web apps and complex web pages often need.”
Flexbox browser support

CSS Flexible Box Layout Module

Method of positioning elements in horizontal or vertical stacks. Support includes all properties prefixed with `flex`, as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

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</tr>
</tbody>
</table>

Global: 84.52% • 12.11% = 96.63%

Data from caniuse.com | Fetched from caniuse.bitsofps.com
Flexbox basics

```
.flex-cont1 {
    display: flex;
    //justify-content: center;
    //align-items: center;
    //flex-wrap: wrap;
}

.flex-cont1 div {
    border: 1px solid;
    //margin: auto;
}

.flex-cont1 p {
    display: none;
    border: 1px solid;
    text-align:
```
<table>
<thead>
<tr>
<th>flex</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>initial</td>
<td>flex: 0 1 auto, cannot grow but can shrink when there isn't enough space</td>
</tr>
<tr>
<td>auto</td>
<td>flex: 1 1 auto, can grow and shrink to fit available space</td>
</tr>
<tr>
<td>none</td>
<td>flex: 0 0 auto, cannot grow or shrink, AKA inflexible</td>
</tr>
<tr>
<td><code>&lt;positive-number&gt;</code></td>
<td>flex: <code>&lt;positive-number&gt;</code> 1 0, can grow and shrink, extent of growth depends on flex factor</td>
</tr>
</tbody>
</table>
Flexbox layouts (1/2)

```
.flex-cont2 ul {
  display: flex;
  flex-wrap: wrap;
}

.flex-cont2 li {
  flex: 1 0 auto;
  // border: 1px solid;
}

.flex-cont2 img {
  width: 100%;
  height: 3em;
  object-fit: cover;
  margin: 0.25em 0;
}
```
Flexbox layouts (2/2)

```css
.flex-cont3 ul {
  display: flex;
  flex-wrap: wrap;
  flex-direction: column;
  height: 100%;
}

.flex-cont3 li {
  //border: 1px solid;
  flex: auto;
}

.flex-cont3 img {
  width: 5em;
  height: calc(100% - 0.5em);
}
```
calc() and object-fit browser support

CSS3 object-fit/object-position
Method of specifying how an object (image or video) should fit inside its box. object-fit options include "contain" (fit according to aspect ratio), "fill" (stretches object to fill) and "cover" (overflow box but maintains ratio), where object-position allows the object to be repositioned like background-image does.

calc() as CSS unit value
Method of allowing calculated values for length units, i.e. `width: calc(100% - 3em)`
CSS Grid

Defines a two-dimensional grid-based layout system, optimized for user interface design
CSS Grid browser support

CSS Grid Layout

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors.

<table>
<thead>
<tr>
<th>Browser</th>
<th>IE</th>
<th>Edge</th>
<th>Firefox</th>
<th>Chrome</th>
<th>Safari</th>
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</tr>
</tbody>
</table>

Partial Support: Preditod

Global: 68.14% - 4.35% = 72.49%
“We need to translate ideas that we find in other places, not transfer them.”

—Jen Simmons
CSS grid basics

Define your grid.
Place items in the grid.
Fixed CSS grid

.container {
    display: grid;
    grid-template-columns: repeat(5, 10em);
}
Fluid CSS grid

.container {
  display: grid;
  grid-template-columns: repeat(5, 1fr);
}

[Image of shoe icons arranged in a 3x3 grid]

[Text: CSS Grids Fluid Grid]
Responsive CSS grid

```
.container {
  display: grid;
  grid-template-columns: repeat(5, minmax(10em, 1fr));
}
```
Placing grid items

grid-row and grid-column

Grid Track

Grid Cell
SINGAPORE'S VANISHED PUBLIC HOUSING ESTATES

Koh Kian Chay
Eugene Ong
But books are good only as far as a boy is ready for them. He sometimes gets away
with a little nonsense and a bit of sophomorism but it is the ophohlophina who
educate him. You send him to the dark
clues but much of his tuition comes on his
way to school, from the shop-windows.
You like the short happy and the long terms;
and the flesh-and-blood leading, in a bit way
of his own, and refuses any companionship but
of his choosing; Nicholas the grammar
and Gracie and Tom and John the red
and blues; and boys; and boys. Well, the boy is right:
and also we are fit to direct his bringing up, if
your theory leaves out the gymnastic
training.

Anthony; pitches, give and taking read, lines
and notes, an art the education, literary and
social, and those who are not. And if morons
and less; provided only the boy has resources,
and is of a noble and ingenious strain —
these will serve him less than the books.
Was Kunst häufig so harmlos macht, ist gerade ihre Selbstüber- schätzung. Der naive Glaube, alle Probleme erkennen, begreifen, subtil verfremden, interdisziplinär vernetzen und am Ende in ausstellbare Form bringen zu können, ist die eigentliche Ursache für das Krankheitsbild Irrelevanz, das viele Kunstwerke heute so schön und teuer, aber auch so weltfremd und unwissend macht. Das Projekt »Borderline« bei FACT Zollverein unternahm deshalb den Versuch, Interdisziplinarität auf den Prüfstand zu stellen. Wie viel weiß Kunst vom Leben draußen? Und was
Yang Ping
Basic overlap

The Orange Issue

```css
.grid-cont2 {
    display: grid;
    grid-template-columns: repeat(9, 1.25em);
    grid-template-rows: repeat(6, 1.25em);
}

h2 {
    grid-row: 3 / 5;
    grid-column: 1 / 10;
}

.grid-cont2::before {
    grid-row: 1 / 7;
    grid-column: 1 / 7;
}

.grid-cont2::after {
    grid-row: 1 / 7;
    grid-column: 4 / 10;
}
```
Firefox Grid Inspector (1/2)

Charles Hayter's Colour Diagrams

[Image of the Firefox Grid Inspector with color diagrams and code snippets]
Flowing from fallbacks...

```css
main {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;
}

title {
  width: 100%;
}

card {
  flex: auto;
  min-width: 12em;
  height: 12em;
}
```
...into feature queries

```css
@supports (display:grid) { 
  main { 
    display: grid; 
    grid-template-columns: repeat(auto-fill, minmax(8em, 1fr)); 
    grid-auto-rows: 8em; 
  } 
  .title { 
    width: initial; 
  } 
  .card { 
    min-width: initial; 
    height: initial; 
  } 
  @media screen and (max-width: 383px) { 
    main { 
      grid-template-rows: 3em repeat(auto-fill, 8em); 
    } 
  } 
```
“They no longer ‘listen’ to circumstances; they ‘recite their circumstances’.”

—Bruce Lee
Transforms

Allows us to change the shape and position of the affected content without disrupting the normal document flow.
The Future Sound
Stadtwerkstatt Linz
06.11.15
Julian Sartorius (CH)
Exclusive Solo Show

Abby Lee Tee
Album Release
visualised by System Jaquelinde

Mehmet Acuma
Andaka
Sant Jordi a les Biblioteques 2008

22.04.08
19h
Saló de Cent de l’Ajuntament de Barcelona

Pregó de la lectura a càrrec d’Alessandro Baricco
# 2D transform functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>rotate( &lt;angle&gt; )</code></td>
<td>Performs a 2D rotation by the angle specified around the element's origin</td>
</tr>
<tr>
<td><code>translate( &lt;translation-value&gt; [, &lt;translation-value&gt;] )</code></td>
<td>Performs a 2D translation in the specified X and Y directions</td>
</tr>
<tr>
<td><code>skew( &lt;angle&gt; [, &lt;angle&gt;] )</code></td>
<td>Performs a 2D skew by the angles specified</td>
</tr>
<tr>
<td><code>scale( &lt;number&gt; [, &lt;number&gt;] )</code></td>
<td>Performs a 2D scale operation by the scaling vector specified</td>
</tr>
</tbody>
</table>
Diagonal text with rotate()
ORAN MOR

14 NOVEMBER 2012

SNARKY PUPPY

FEDERATION OF THE DISCO PIMP

WEST

SIBYL STORER

DIRECTED BY ROBERT WISE

JEROME ROBBINS

NATALIE WOOD

RUSSELL MOORE

TAMLYN EWING

RITA MORENO

GEORGE CHAKIRIS
NEW DIRECTIONS IN
PORTUGAL
AIRES MATEUS – BROTHERS OF INVENTION

PORTUGAL'S IMPRESSIVE CULTURAL AND CREATIVE POTENTIAL WAS FIRST REVEALED TO THE WORLD OF MODERN ARCHITECTURE BY ÁLVARO SIZA. IN HIS WAKE, A NEW GENERATION OF ARCHITECTS IS EMERGING THAT INCLUDES MANUEL AND FRANCISCO AIRES MATEUS. THEIR WORK IS BOTH STRONGLY INTERNATIONAL AND ROOTED IN ITS PARTICULAR PLACE.

BY EDWIN CATTERER. PHOTOGRAPHY BY DANIEL MALVEAUX.

Manuel and Francisco Aires Mateus are brothers who, after studying architecture at the University of Lisbon, decided to work together in 1980. Their practice is a reflection of their shared interest in the work of Álvaro Siza, and they have since established a reputation for designing buildings with a strong sense of place. Their projects are characterized by a careful consideration of both form and function, and they are often inspired by the local context in which they are located.

Their latest project, the Casa dos Sonhos, is a striking example of their architectural prowess. The house is located in the heart of Lisbon and was completed in 2003. It features a series of interconnected volumes that are organized around a central courtyard, creating a sense of intimacy and privacy.

The use of local materials and techniques is also a hallmark of their work. They are committed to using sustainable building practices and have been recognized for their efforts in this regard. Their commitment to the principles of architecture is evident in the quality of their work, which has earned them international acclaim.

Despite their success, the Aires Mateus brothers remain dedicated to their craft and continue to push the boundaries of what is possible in architecture. Their work is a testament to the power of imagination and innovation, and they continue to inspire a new generation of architects across the world.
## Transforms browser support

### CSS3 2D Transforms
Method of transforming an element including rotating, scaling, etc. Includes support for `transform` as well as `transform-origin` properties.

<table>
<thead>
<tr>
<th></th>
<th>IE</th>
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<tr>
<td>Support</td>
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</table>

Data from caniuse.com | Embed from caniuse.bitsofco.de

Global: 94.1% + 0% = 94.10%

### CSS3 3D Transforms
Method of transforming an element in the third dimension using the `transform` property. Includes support for the `perspective` property to set the perspective in z-space and the `backface-visibility` property to toggle display of the reverse side of a 3D-transformed element.

<table>
<thead>
<tr>
<th></th>
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Data from caniuse.com | Embed from caniuse.bitsofco.de

Global: 90.04% + 3.64% = 93.68%
I'm no Justin Bieber. I go to Aroma to get coffee, and the paper rolls me to ballet class. I drink one or two coffees a day. I think that's bad, but I have worse habits. I just gave up smoking, because I was deadly ill and couldn't fit the smoke in my busy. While I'm on my way... 

**EVERGREEN**

elry bit by bit, I've been starting up my own little green movement. I've stopped using the plastic bags at the supermarket. I use my plastic carry-away container and try not to use the disposables. 

**EVERGREEN**

Very bit by bit, I've been starting up my own little green movement. I've stopped using the plastic bags at the supermarket. I use my plastic carry-away container and try not to use the disposables. 

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Very bit by bit, I've been starting up my own little green movement. I've stopped using the plastic bags at the supermarket. I use my plastic carry-away container and try not to use the disposables.
THE TROUBLE WITH

When the price of oil soared to the 1970s, governments around the world were elated at the increase in revenue. The price of crude oil shot from $3 per barrel in the summer of 1971 to $13 per barrel in 1974, and the resulting boon to oil-producing nations' coffers was a source of widespread optimism. Governments in the Middle East, Latin America, and Africa, already flush with oil wealth, were now even more powerful. The newfound political and economic clout of oil-rich nations was a source of great pride for many government officials and a cause for concern for others.

With oil prices stabilizing after the 1974-1975 sharp decline, the world found itself in a new era of energy abundance. Oil became a commodity, and its price was subject to fluctuations in the global market. This new reality posed challenges for governments and companies alike. Oil-rich nations needed to find ways to diversify their economies and reduce their dependence on oil exports. However, the task was not an easy one, and many countries struggled to adapt to this new era of energy uncertainty.

Across the Middle East, oil exporting countries faced the challenge of finding new sources of revenue. In some cases, this meant investing in industries other than oil, such as manufacturing and tourism. However, many countries were also faced with the reality that oil wealth would eventually dry up, and they had to plan for the future.

The Gulf states, in particular, were faced with the challenge of finding new sources of income. The Gulf is home to some of the world's largest oil reserves, and its governments have traditionally relied on oil exports for their income. However, the region is also home to a rapidly growing population, and the need for new sources of revenue is keen.

In the end, the Gulf states found ways to diversify their economies and reduce their dependence on oil exports. However, the process was not an easy one, and many governments faced difficult decisions along the way. The Gulf states' experience is a testimony to the challenges of adapting to a world in which oil wealth is no longer guaranteed. It is a lesson for governments around the world, who must find ways to adapt to a rapidly changing global economy.
CSS Shapes

Defines properties to control the geometry of an element’s float area
Basic shapes

Lollipop marshmallow lemon drops jujubes muffin fruitcake bonbon. Muffin carrot cake bear claw sweet roll tiramisu chocolate jelly beans toffee sweet roll. Biscuit candy sweet sweet powder tart bear claw. Tiramisu jelly beans apple pie donut topping dessert lemon drops gummies halvah.


Gummi bears apple pie chupa chups jelly pie halvah pastry sweet. Cookie dessert sweet roll icing cheesecake macaroon wafer cheesecake. Toffee lemon drops apple pie fruitcake sweet roll chocolate cake jelly bear claw jelly. Donut tiramisu chocolate cake sesame snaps marshmallow tootsie roll candy canes cheesecake cotton candy.

Cake powder croissant lollipop cotton candy tiramisu lollipop tiramisu. Cookie candy canes gummies jujubes bonbon fruitcake ice cream gingerbread. Marzipan toffee carrot cake marshmallow danish cupcake jelly-o.

Lee Jun-fan (李振藩), known professionally as Bruce Lee, was a Hong Kong and American actor, film director, martial artist, martial arts instructor, philosopher and founder of the martial art Jeet Kune Do. He is widely considered by commentators, critics, media, and other martial artists to be one of the most influential martial artists of all time.
showcase CSS shapes’ capabilities. Point is, with CSS shapes, it’s totally possible to have text wrap around Beyoncé’s elbow.

To be honest, the W3C spec is not that easy to understand, so here’s my attempt at explaining it in plain English. A prerequisite for applying a CSS shape property to an element is that the element must be floated. It doesn’t work on non-floated elements.

If the browser you’re using right now supports CSS shapes, you should see text wrapping nicely around the image of Bruce Lee, otherwise you’ll just see the standard rectangular column of text. (Hint: Try using Chrome or Safari)

There are 4 basic shape functions you can use to define an element’s shape, in other words, how you want the text to flow around your element. In addition to that, you can also extract a shape from images with an alpha channel.
Writing-mode

Defines CSS features to support for various international writing modes
建水方言

我曰曰，你曰曰。

富人曰發財大，貧人曰善業。

處處曰嘻哈哈，此地曰嘻嘻。

地曰大地，天曰天空。

日曰日日，月曰月月。

父曰父頭，母曰母頭。

祖父曰阿伯，祖母曰阿婆。
“How did we all get here today? The choices we made, the sheer force of our will, something like that? Here's another answer... the winds of fate. Random coincidence, some unseen hand just pushing us along. Destiny.”
Vertical headers

- PGHK stories
- Slim waist no good?
- Han-na, han-naa
- Why build this site?
- Not yet k-ouk

Have a story? Send it in!
Building for cross-browser compatibility

This is the third post of a multi-part series about developing the brand identity for Wismut Labs.
Vertical navigation

Without roots. Everywhere.
The CSS Layout Workshop

Learn CSS layout with straightforward and practical examples. A course designed to remove layout confusion for good!

Does this sound familiar?

"I love designing a site, but then find I have to compromise the design when it comes to building it with CSS."

"My approach to building layouts is to try things, reload and see what happens."

"I use a framework to do my layouts. I'd love to know what it is really doing under the hood."

"Once I get my CSS working I'm afraid to make changes in case it all falls apart again!"

"I've never really understood why margins collapse."

https://thecssworkshop.com/

Study of Writing Modes

Return of the 1990s

Other Experiments

Test of hr and br

http://labs.jensimmons.com/
A long list of references

- CSS Isn’t Black Magic
- Six Layout Myths Busted
- List of CSS properties, both proposed and standard
- CSS Inheritance, The Cascade And Global Scope: Your New Old Worst Best Friends
- History of Flexbox
- 11 things I learned reading the flexbox spec
- Deep Dive into Grid Layout Placement
- CSS Grid Layout and positioned items
- Powerful New Additions to the CSS Grid Inspector in Firefox Nightly
- There are maps for these territories
<table>
<thead>
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</table>
“True observation begins when one is devoid of set patterns, and freedom of expression occurs when one is beyond systems.”

—Bruce Lee
Thank you!

http://www.chenhuijing.com

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