**OpenWeb Programming Sandbox**

A place for learning and playing around with the OpenWeb technology stack

Brian Abbott, March, 2017

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# Overview

The craft of Web Client Application Programming is, indeed, the order of our new age as Programmers or, at least the current order. Programming as a craft, as an art, has heavily evolved. To stay modern, to stay relevant, I believe that any professional programmer working today who, as any programmer has to, wants to craft the application environments of tomorrow, must have an intimate familiarity with the art of “Web Client Application Programming”, its associated techniques, technologies, and programming models.

## The Modern Web – A post-apocalyptic view

The War was fought and, the web won. In this post-apocalyptic world, the web is not just a place for people to host their blogs or, the tech that we use to develop store fronts in, it is the one and only Client Node Application Side Programming, Presentation, Application Programming Technology. The war was fought, and the web won. Frameworks and Technologies such as Flash, Adobe Air, WPF, Silverlight, JavaFX, Java Applets, all have fallen by the wayside in favor of a highly advanced, capable web programming model, one capable of accessing the hardware and performing Native device operations such as accessing the GPU, Filesystem, OS Threads, etc. which is the fundamental component of transformation between a incapable web, for presentation purposes only in non-serious or semi-serious applications to, one that is initially on par and, now in fact, more advanced and powerful then those original frameworks, developed in the 2000s as a means to a rich client side experience. The primary point of this is that, staring perhaps in 2008, a true convergence occurred and, the Web became not only the premiere but, in fact the only path to programming modern client application environments. And, in point, even though there is some false or overstated truth to that, it is without a doubt the general ethos of the perspective that the engineering community has taken. React.Native is a good example of this notion.

## Focus of Exploration and Discovery

* Web Primary Stack
  + HTML/HTML5
  + JavaScript
  + Cascading Style Sheets (CSS)
* Web Standards (Really web-client-application standards)
  + Web Sockets
* Stack/Techniques
  + MEAN

# Web Primary Technology Stack

## HTML

## JavaScript

## Cascading Style Sheets

### All CSS Standards, Drafts, etc.

Title, level, Dates, Current Status

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Type (Spec, Note, etc.) | Important Dates | Current Status |
| Cascading Style Sheets, level 1 | W3C Recommendation | 17 Dec 1996 Revised 11 Apr 2008 |  |
| Cascading Style Sheets (CSS) Snapshot 2007 |  |  |  |
| Cascading Style Sheets (CSS) Snapshot 2010 |  |  |  |
| CSS Snapshot 2015 |  |  |  |
| CSS Snapshot 2017 |  |  |  |

CSS Print Profile, W3C Working Group Note 14 March 2013

### Core CSS Standards and Revisions

* Cascading Style Sheets, level 1 (1996)
* Cascading Style Sheets (CSS) Snapshot 2007
* Cascading Style Sheets (CSS) Snapshot 2010
* CSS Snapshot 2015, W3C Working Group Note, 13 October 2015
* CSS Snapshot 2017, W3C Working Group Note, 31 January 2017

#### Cascading Style Sheets (CSS) Snapshot 2007

#### Cascading Style Sheets (CSS) Snapshot 2010

#### CSS Snapshot 2015, W3C Working Group Note, 13 October 2015

#### CSS Snapshot 2017, W3C Working Group Note, 31 January 2017

### Primary CSS Features, CSS 3 and on

* Consolidate list of features goes here

### Code Examples, outcomes

### W3C Standards, Recent, Upcoming, Work in Progress

CSS Color Module Level 3

<https://www.w3.org/TR/css3-color/>

CSS Namespaces Module Level 3

<https://www.w3.org/TR/css3-namespace/>

Selectors Level 3

<https://www.w3.org/TR/selectors/>

Cascading Style Sheets Level 2 Revision 1 (CSS 2.1 Specification)

<https://www.w3.org/TR/CSS2/>

* CSS Box Alignment Module Level 3
* CSS Fill and Stroke Module Level 3
* CSS Image Values and Replaced Content Module Level 4
* CSS Containment Module Level 1

Sta­ble drafts Sta­tus Up­com­ing ℹ⃝

CSS Backgrounds and Borders Level 3 CR PR ℹ⃝

CSS Conditional Rules Level 3 CR CR ℹ⃝

CSS Multi-column Layout CR CR ℹ⃝

CSS Values and Units Level 3 CR PR ℹ⃝

CSS Cascading and Inheritance Level 3

#### CSS Box Alignment Module Level 3, W3C Working Draft, 7 April 2017

#### CSS Fill and Stroke Module Level 3, W3C First Public Working Draft, 13 April 2017

#### CSS Image Values and Replaced Content Module Level 4, W3C Working Draft, 13 April 2017

#### CSS Containment Module Level 1

### CSS Resources

#### Web Sites dedicated to CSS

<https://cssday.nl/2017>

# Resources

## Books

### HTML

### JavaScript

### CSS

### Frameworks and Techniques