CSS Grid

e-Portfolio by Friedrich Schmierer for Software Engineering Class, Ms. Berkling

Prerequisite

- Have a Browser (Firefox recommended)
- Clone my repository from

https://github.com/schmiefri/e-Portfolio-CSS-Grid

Content

- Layouts of the Past
- Clean Markup
- The Grid
- Practice

Layouts of the Past

- 90's Table Layouts
- Div Soup
- HAVE YOU HEARD OF FLEXBOX??

→ Breaking Markup for Layouting

Clean Markup – The Problem

This is hard to maintain:

```
w<div id="content-arrow" class="container">
   ::before
 ▶ <div class="row">....</div>
 w<div class="row">
    ::before
   w<div class="related-content related-content-subhome clear">
      ::before
    ▼<div class="col-sm-12 col-lg-8 related-content-tile"
      clickable"> 🗔
      w<div class="col-sm-6 col-md-5 col-lg-6 pic">
         kimg extractmetadata="1" src="/fileadmin/ processed
         /csm Fungiplex-Candida-Real-Time-PCR-
         Kit 275px 1253acfc83.jpg" alt="Fungiplex Candida Real Tim
         PCR Kit 275px" title="Fungiplex Candida Real Time PCR Kit
         275px" srcset="/fileadmin/_processed_/csm_Fungiplex-
         Candida-Real-Time-PCR-Kit_275px_82bfa568cf.jpg 2x"
         width="297" height="297">
      w<div class="col-sm-6 col-md-7 col-lg-6 txt txt-ext">
```

Clean Markup – Motivation

- Divs for layouting get out of hand
- CSS Frameworks are easy, but confusing
- Accessibility becomes weird

Clean Markup – Motivation

```
<!DOCTYPE html>

⊟ <div id="page" class="container-12 clear-block">
      <div id="page-heading" class="grid-12"> </div>

⊟ <div id="column-left" class="grid-12">

□ <div id="content" class="clear-block">
            □ <div id="content-inner" class="clear-block">

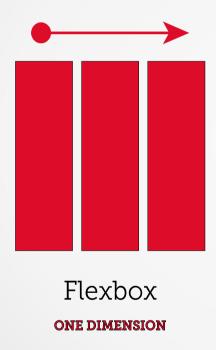
□ <div id="front-top-left" class="grid-4 alpha">
                □ <div id="front-top-left-inner">
                  <h2>
                      Use Drupal to build everything from persor
                      >Drupal is free, flexible, robust and const
                    ± 
                    </div>
                  </div>
               </div>
              # <div id="front-top-middle" class="grid-4">
              H <div id="front-top-right" class="grid-4 omega">
              H <div id="front-bottom-left" class="grid-6 alpha">
```

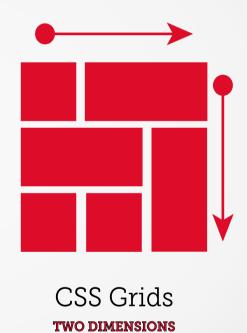
Clean Markup – Better Ways

```
▶ <header role="banner">(...)</header>
▼<main id="main" role="main">
 <<section class="o-hero page-home">
  ▼<div class="o-hero content o-content-container o-two-columns v--
    inverse">
    w<header class="o-hero header">
       <h1 class="o-hero header headline">Where Work Happens</h1>
      ▶ (...)
      </header>
    ▶ <div class="o-hero illustration bg-home"> (...) </div>
    </div>
  </section>
 ▶ <section class="o-section v--lighter-gray">(···) </section>
 \( \section \) class="o-section c-cta c-cta--signup u-hide-on-print">(\overline{\pi})
  </section>
 </main>
```

The Grid

• Can do 2D!





The Grid – Consequences

You Don't Need To Mutilate Your Markup For Layouting Purposes Anymore. This Is Great!

The Grid – Basics

- Affects direct descendants
- Can have relative dimensions
- Grids inside of grids inside of grids...
- Define columns, rows, and areas

The Grid – How To Use

- Define parent as display: grid;
- Define columns with

```
grid-template-columns: foo(px|fr|%|em);
```

Define rows with

```
grid-template-rows: bar(px|fr|%|em);
```

Define Areas with

The Grid – How To Use

Assign children with

```
grid-row: foo/bar;
grid-column: foo/bar;
grid-area: baz;
```

The Grid – Examples

• (Browser Session)

Practice – Back to Bruker.com

Go to bruker.com and replicate this area:



Bruker Introduces Additional Key Products for Diagnosis and Susceptibility Testing of Invasive Fungal Diseases (IFD)

News Oct 06, 2017 Bruker Introduces Software Package for Layer Analysis with XTrace Micro-XRF on Electron Microscopes

Read full news article

Aug 07, 2017



Bruker Announces the New D8 DISCOVER Plus X-ray Diffraction (XRD) System with TXS-HE and ATLAS Goniometer



Watch Bruker Webinars -Live and On-Demand Bruker Launches the timsTOF™ Pro Mass Spectrometer to Enable the Revolutionary PASEF