***Grids With Flexbox Grid***

**Grids**

**Things You Should Know**

* the Grid Fluid system is one of the more simple and important systems
  + columns wrap to the next line as the browser width decreases
    - Bootstrap and the 960 Grid Layout leverage this

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**Flexbox Intro**

**Things You Should Know**

* Flexbox is a powerful layout tool that will fill available space by expanding and shrinking elements
* learn more at [Flexbox Grid](http://flexboxgrid.com/)

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**Flexbox Container**

**Things You Should Know**

* Flexbox allows you to add the value of flex to the display rule which tells the browser to ignore the width and force the elements inside the container to even distribute
  + by using the flex-wrap rule set to wrap the elements will maintain their size while trying to use the space available
  + important to note that floating is not being used here at all
* learn more at [Flexbox Grid](http://flexboxgrid.com/)

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**Flex Item**

**Things You Should Know**

* Flex Item allows you to control the order in which your elements are displayed – often reordering of elements happens in responsive
  + this can be controlled by adding an order attribute to the css
* learn more at [Flexbox Grid](http://flexboxgrid.com/)

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**Deconstructing a Flexbox Layout**

**Things You Should Know**

* Flex Item allows you to control the order in which your elements are displayed – often reordering of elements happens in responsive
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***Flexbox Grid***

**Responsive**

Responsive modifiers enable specifying different column sizes, offsets, alignment and distribution at xs, sm, md & lg viewport widths.

<div class="row">

<div class="col-xs-12

col-sm-8

col-md-6

col-lg-4">

<div class="box">Responsive</div>

</div>

</div>Bottom of Form

**Fluid**

Percent based widths allow fluid resizing of columns and rows.

.col-xs-6 {

flex-basis: 50%;

}

**Simple Syntax**

All you need to remember is row, column, content.

<div class="row">

<div class="col-xs-12">

<div class="box">12</div>

</div>

</div>

**Offsets**

Offset a column

<div class="row">

<div class="col-xs-offset-3 col-xs-9">

<div class="box">offset</div>

</div>

</div>

**Auto Width**

Add any number of auto sizing columns to a row. Let the grid figure it out.

<div class="row">

<div class="col-xs">

<div class="box">auto</div>

</div>

</div>

**Nested Grids**

Nest grids inside grids inside grids.

<div class="row">

<div class="col-xs">

<div class="box">

<div class="row">

<div class="col-xs">

<div class="box">auto</div>

</div>

</div>

</div>

</div>

</div>

**Alignment**

Add classes to align elements to the start or end of a row as well as the top, bottom, or center of a column

**.start-**

<div class="row start-xs">

<div class="col-xs-6">

<div class="box">

start

</div>

</div>

</div>

**.center-**

<div class="row center-xs">

<div class="col-xs-6">

<div class="box">

start

</div>

</div>

</div>

**.end-**

<div class="row end-xs">

<div class="col-xs-6">

<div class="box">

end

</div>

</div>

</div>

Example

<div class="row center-xs end-sm start-lg">

<div class="col-xs-6">

<div class="box">

All together now

</div>

</div>

</div>

**.top-**

<div class="row top-xs">

<div class="col-xs-6">

<div class="box">

top

</div>

</div>

</div>

**.middle-**

<div class="row middle-xs">

<div class="col-xs-6">

<div class="box">

center

</div>

</div>

</div>

**.bottom-**

<div class="row bottom-xs">

<div class="col-xs-6">

<div class="box">

bottom

</div>

</div>

</div>

**Distribution**

Add classes to distribute the contents of a row or column.

**.around-**

<div class="row around-xs">

<div class="col-xs-2">

<div class="box">

around

</div>

</div>

<div class="col-xs-2">

<div class="box">

around

</div>

</div>

<div class="col-xs-2">

<div class="box">

around

</div>

</div>

</div>

**.between-**

<div class="row between-xs">

<div class="col-xs-2">

<div class="box">

between

</div>

</div>

<div class="col-xs-2">

<div class="box">

between

</div>

</div>

<div class="col-xs-2">

<div class="box">

between

</div>

</div>

</div>

**Reordering**

Add classes to reorder columns.

**.first-**

<div class="row">

<div class="col-xs-2">

<div class="box">

1

</div>

</div>

<div class="col-xs-2">

<div class="box">

2

</div>

</div>

<div class="col-xs-2 first-xs">

<div class="box">

3

</div>

</div>

</div>

**.last-**

<div class="row">

<div class="col-xs-2 last-xs">

<div class="box">

1

</div>

</div>

<div class="col-xs-2">

<div class="box">

2

</div>

</div>

<div class="col-xs-2">

<div class="box">

3

</div>

</div>

</div>

**Reversing**

**.reverse**

<div class="row reverse">

<div class="col-xs-2">

<div class="box">

1

</div>

</div>

<div class="col-xs-2">

<div class="box">

2

</div>

</div>

<div class="col-xs-2">

<div class="box">

3

</div>

</div>

</div>

Bottom of Form