

# Twelve Column Grid

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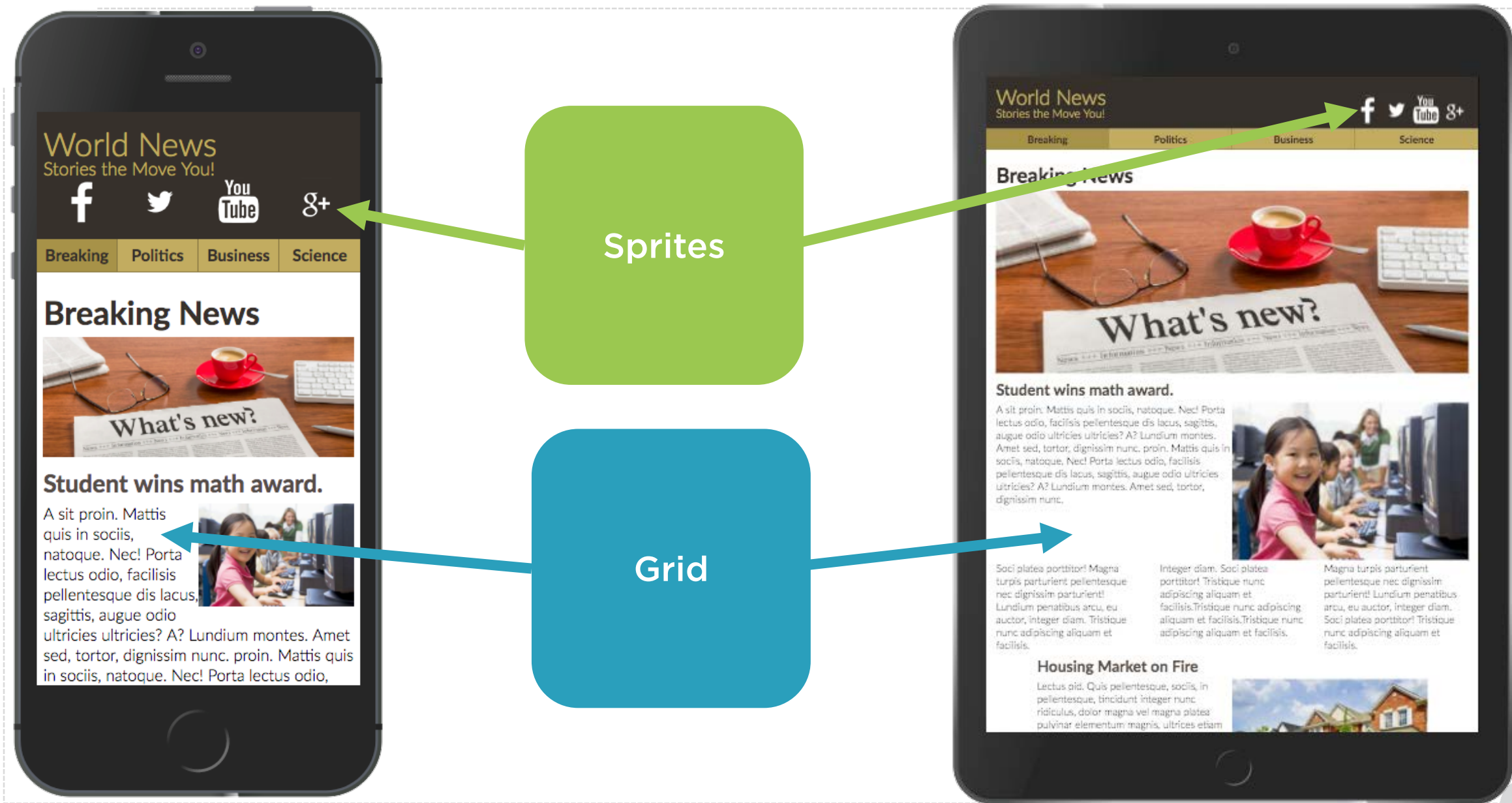


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# Agenda



**Image Sprites**

**Progressive Enhancement**

**Advanced SASS**

**Build the Project**



# Image Sprites

Single Graphic

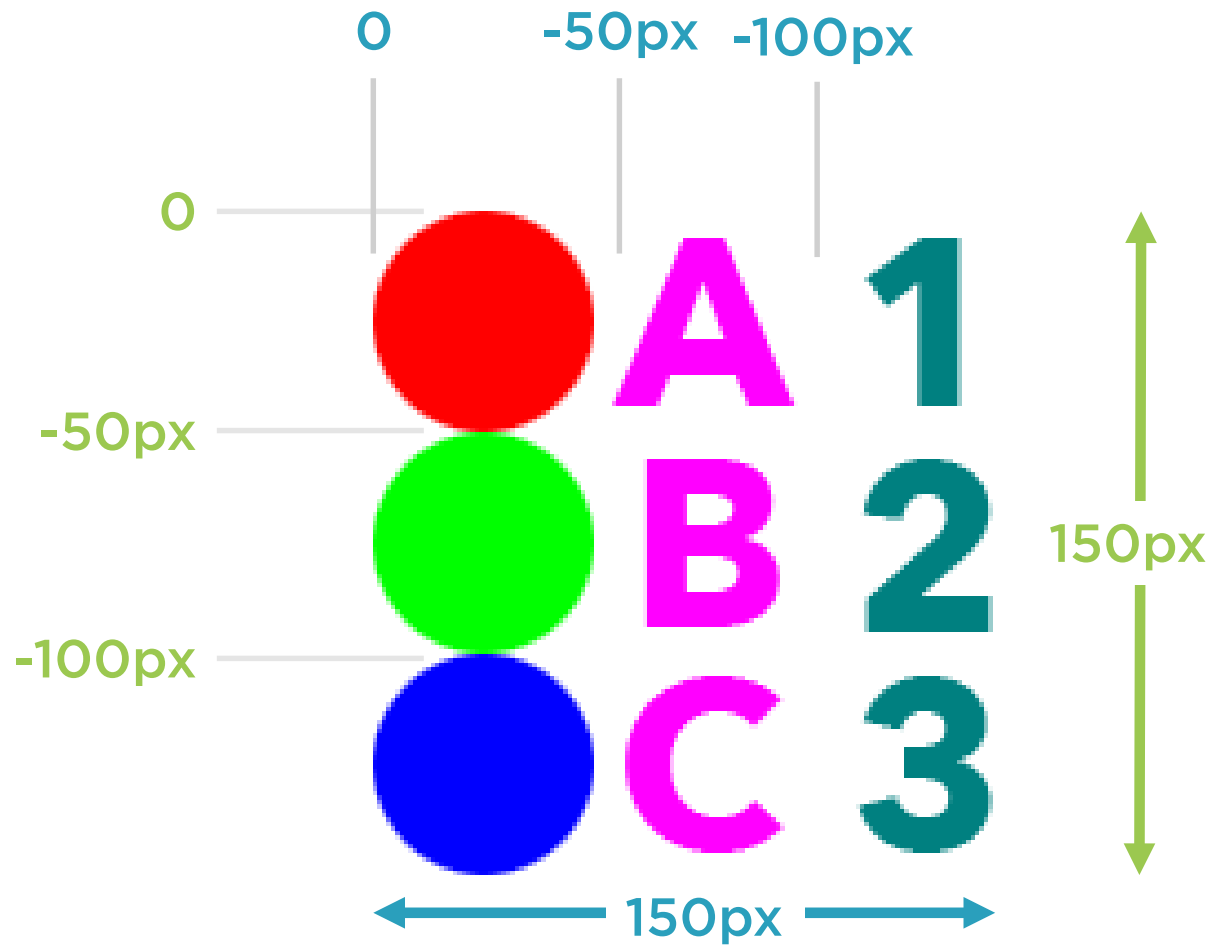
CSS Background

Anything Goes

12 > 1



# Background Positioning



# DO THE CODING

```
<ul>
  <li class="blue"></li>
  <li class="bee"></li>
  <li class="one"></li>
</ul>
```

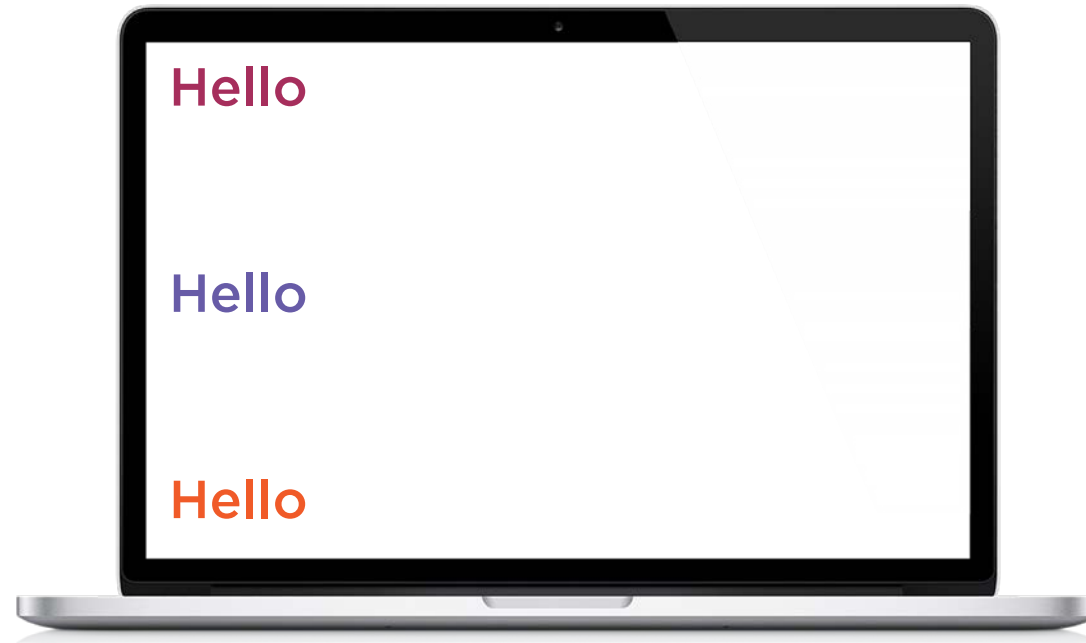
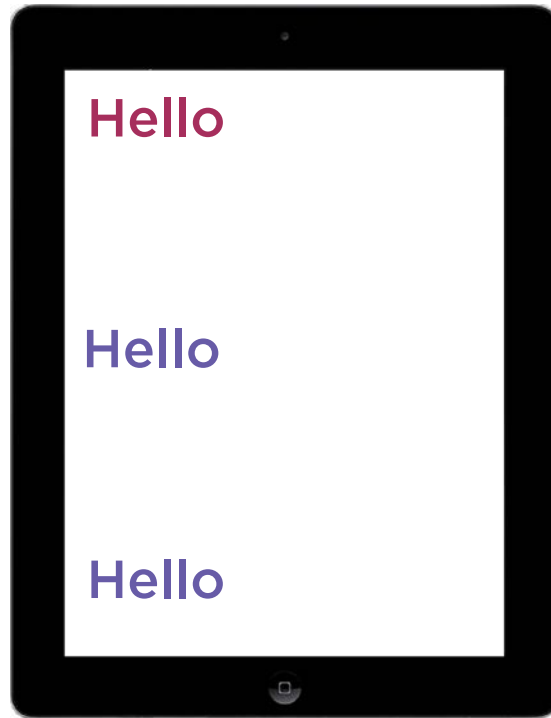
```
ul li {
  width: 50px;
  height: 50px;
  background-image: url(../images/SpritePractice.png);
  background-position: 0 0;
}
ul li.blue {background-position: 0 -100px;}
ul li.bee {background-position: -50px -50px;}
ul li.one {background-position: -100px 0;}
ul li.one:hover {background-position: -100px -50px;}
```



# Progressive Enhancement



```
<div class="plum purple orange">  
Hello  
</div>
```



```
.plum {color: plum}  
.purple {color: purple}  
.orange {color: orange}
```



Lets open our text editor and take a look at this in a browser.  
I have created the plumb class in the small scss and increased the font size.  
I have created the purple class in the medium scss and  
the orange class in the large scss.  
Now we create the division and assign the class of plumb and it is plumb on all  
screens  
When we add the other two, it changes color on each different screen.  
This is the principle we will use for our 12 column grid





# SASS Loops

```
@for $i from 1 through 12 {  
  h1{font-size: $i;}  
}
```

```
main h1 {  
  font-size: 1; }  
main h1 {  
  font-size: 2; }  
main h1 {  
  font-size: 3; }  
main h1 {  
  font-size: 4; }  
main h1 {  
  font-size: 5; }  
main h1 {  
  font-size: 6; }  
main h1 {  
  font-size: 7; }  
main h1 {  
  font-size: 8; }  
main h1 {  
  font-size: 9; }  
main h1 {  
  font-size: 10; }  
main h1 {  
  font-size: 11; }  
main h1 {  
  font-size: 12; }
```



# SASS Variables (review)

```
ul li a {  
  display: block;  
  text-align: center;  
  font-weight: $boldWeight;  
  padding: .5rem 0;  
  color: $primaryColor;  
  text-decoration: none;  
  transition: background 0.75s ease, color 0.75s ease;  
} // end anchors  
ul li.active a {  
  background-color: darken( $secondaryColor, 10% );  
} // end active  
ul li a:hover {  
  color: $secondaryColor;  
  background-color: $primaryColor;  
} // end hover
```

```
$primaryColor: #302b27;  
$secondaryColor: #baa256;  
$fontColor: #dce2eb;
```

```
$defaultFont: 'Lato', sans-serif;  
$normalWeight: 300;  
$boldWeight: 700;
```

```
$gutter: 2%;  
$gutterdbl: (2 * $gutter);
```



# SASS Math

SASS

CSS

`.photowidth: (960/3);`

`.photowidth: 320;`

`.photowidth: (960/3)+px;`

`.photowidth: 320px;`

`.photowidth: (960/3) * 1px;`

`.photowidth: 320px;`

`.photowidth:(960/3)-(960*.02);`

`.photowidth: 300.8;`

`.photowidth:round((960/3)-(960*.02));`

`.photowidth: 301;`

`.photowidth:round((960/3)-(960*.02))*1px;`

`.photowidth: 301px;`



# SASS Interpolation

**#{ }**

@for \$x from 1 through 3 {

\$y: \$x\*10%;

**.photo-#{ \$x }** {width: \$y; float: right;}

}



**.photo-1** {width: 10%; float: right;}

**.photo-2** {width: 20%; float: right;}

**.photo-3** {width: 30%; float: right;}

# Coding Time



photos



snippets.txt



Social Icons.psd



socialSprites.png



SpritePractice.png



SpritePractice.psd



start



# Summary



**Image Sprites**

**Progressive Enhancement**

**Advanced SASS**

**Build the Project**





Introduction

Twelve Column Grid

**CSS Shapes**

Flexbox

CSS Grids

Music Player

