Cel's Get Sassy Responsive Design with Foundation and Sass



Web Designer, Portland Community College @ IAMALIGRAY





About PCC Academic Programs Calendars Class Schedule Resources





Earn Your Degree or Certificate to kick-start your career or four-year degree - apply now!

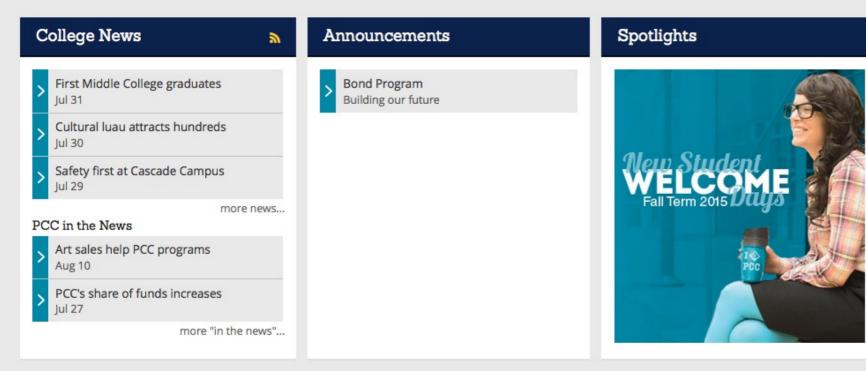
Get Job Ready in a year or less.

Enrich Your Life through non-credit Community Education classes.

Develop Your Business or Career at the CLIMB Center for Advancement.

Prepare for College with high school completion, GED, and English skill courses.

Make Opportunity Happen by supporting the PCC Foundation.



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Malik's Gateway

Earn Your Degree or Certificate to kick-start your career or four-year degree – <u>apply now!</u>

> Get Job Ready in a year or less.

Enrich Your Life through non-credit Community Education classes.

Develop Your Business or Career at the CLIMB Center for Advancement.

Prepare for College with high school completion, GED, and English skill courses.

Make Opportunity Happen by supporting the PCC Foundation.

С	ollege News	۳
>	VP of Finance finalists declared Aug 20	
>	In a league of her own Aug 18	
>	Sonnleitner joins PCC Board Aug 14	



BUT



RESPONSIVE WEBSITES THE





BUILDING A RESPONSIVE FRAMEWORK FROM SCRATCH |S|







PLAIN CSS IS A PAIN IN THE ASS SO LET'S USE



Foundation: Responsive out of the box

FOUNDATION.ZURB.COM

Learn

Develop

Support

Getting Started

Docs

Business

ZURB Foundation

Foundation

The most advanced responsive front-end framework in the world.

Download Foundation 5

★ 20.5k stargazers ¥ @ZURBfoundation

WHY USE Foundation?



- Same frame, any website with CSS/Sass
- Effortless responsiveness
- Plugins to copy/paste
- * Modular
- Accessible
- Doesn't require much testing if done correctly

FOUNDATION FOR KITTENS



- Responsive front-end framework (HTML, CSS, JS)
- Developed by ZURB, released in 2011
- Open-source, built on Sass
- Mobile-first philosophy
- Great for prototyping
- Similar: Bootstrap, Skeleton...)

FOUNDATION FOR KITTENS



Complete

Grab this version of Foundation if you want everything in the framework in simple, vanilla CSS and JS.

Essential

A simple, lighter version that includes typography, the grid, buttons, Reveal and Interchange.* *59kb (okay, plus dependencies).

Custom

Include or remove certain elements and define the size of columns, colors, font size and more.

Sass

Foundation is built using SCSS, and you can work with it in the same way. Check out the instructions on the Install documentation page.

Download Everything

Download Essentials

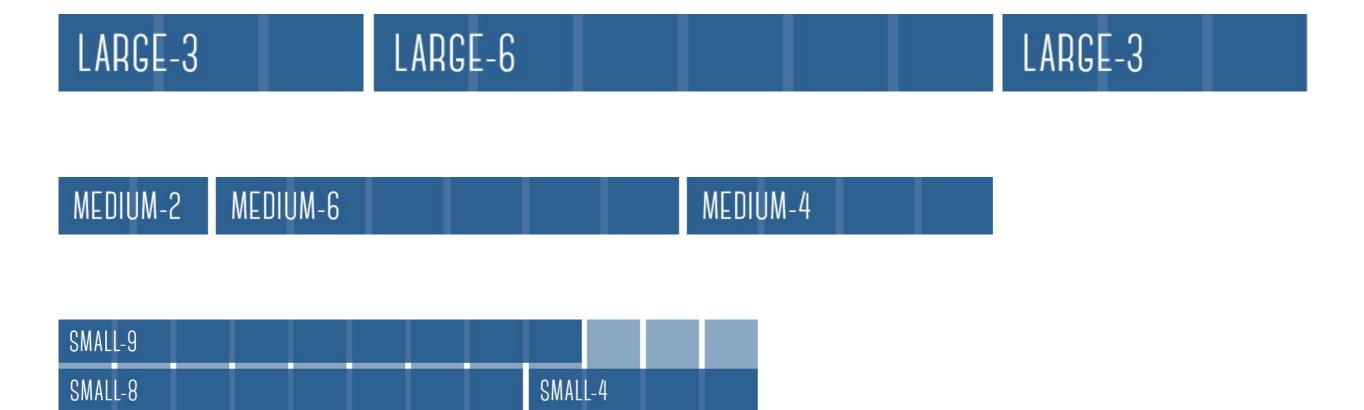
Custom Download

Install via SCSS

FOUNDATION FOR CATS - The Grid

1 <div class="row">

- 2 <div class="small-9 medium-2 large-3 columns">...</div>
- 3 <div class="small-8 medium-6 large-6 columns">...</div>
- 4 <div class="small-4 medium-4 large-3 columns">...</div>
- 5 </div>



FOUNDATION FOR CATS - The Grid

1	2	3	4	5	6	7	8	9	10	11	12
HEADE SMAI		LUMNS									
conte SMAI		DIUM-8	B.COLUN	INS						DIUM- <i>l</i>	ł
		DIUM-6				DIUM-{					

FOUNDATION FOR CATS - The Grid

```
1 <!--- HEADER --->
 2 <div class="row">
 3 <div class="small-12 columns">Header</div>
 4 </div> <!-- header .row -->
 5
 6 <!-- CONTENT & SIDEBAR -->
7 <div class="row">
 8
  <!-- CONTENT -->
 9
  <div class="small-12 medium-8 columns">
10
       Content
11
12
13
     <!-- 2 NESTED CALLOUTS --->
     <div class="row">
14
        <div class="small-12 medium-6 columns">Nested 1</div>
15
         <div class="small-12 medium-6 columns">Nested 2</div>
16
      </div> <!-- nested .row -->
17
18
     </div> <!-- content .columns -->
19
20
21
    <!-- SIDEBAR -->
     <div class="small-12 medium-4 columns">Sidebar</div>
22
23
24 </div> <!-- sidebar content .row -->
```

FOUNDATION FOR TOMCATS - The Grid

Offsets (move incomplete rows to the right)

SMALL-10 SMALL-OFFSET-2

Centered (center incomplete rows)

Source Ordering (rendered in different order than in code)

SMALL-6 SMALL-CENTERED

SMALL-5 SMALL-PULL-7 SMALL-PUSH-5

class="row collapse" removes the padding between columns

.ROW	HEADER SMALL-12.COLUMNS			
.ROW	PAGE HEADER SMALL-12.C	OLUMNS	Ea	
.ROW	CONTENT SMALL-12.COLUI	ANS	PCC	
	PLAIN TEXT	FLOATED PHOTO OR VIDEO	Th Goin cou If yo Coll coll of o alor with And Who star read	
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.ROW	NESTED 1 SMALL-12.MEDIUM-6 .COLUMNS	NESTED 2 SMALL-12.MEDIUM-6 .COLUMNS		

gin your university degree Start your career h year, 5,000 students transfer PCC With classes in more than 80 subjects, lits to four-year colleges. earn the degree or certificate you need. earn about university transfer Short-term certificates Learn about academic programs

#thinkPCCfirst

Explore your options

Not sure exactly what path you want to take? PCC can help.

- <u>Career Resource Center</u>
- Get on our mailing list

t started?	Come see us	
w New student checklist e the admissions All the steps to complete before your first day of class.	a <u>New Student Welcome Da</u>	rted? Contact us! We can guide you
	Cascade: Roberto	Rock Creek: Heidi
	Sylvania: Teresa	Southeast: Luis

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n Your Degree or Certificate

Portland Community College

Admissions /

nk PCC First

to college is the investment of a lifetime...and choosing PCC be the smartest choice you'll ever make.

re serious about finding your future, Portland Community e is ready to help you succeed. One of the top 20 community es in the country, PCC is a community unmatched in its <u>breadth</u> ortunities. Here, you can follow your passion in endless ways, side a top-notch faculty totally focused on your success, and one of the most diverse settings you'll find in the entire state. ou can do it all without going into debt for the rest of your life. ner you are beginning the first two years of your bachelor's or ng your career, PCC is the place to start. If you think you are to blaze a path to your future... think PCC first.

C is ready to help you...

ady to get

Apply nov Complete form to ge



.ROW	HEADER SMALL-12.COLUMNSNESTED NAVIGATION SMALL-12.MEDIUM-8.MEDIUM-0FFSET-4.COLUMNS1			1 <	! HEADER>
.ROW	PAGE HEADER SMALL-12.C	12.COLUMNS			<pre>div class="row"> <div class="small-12 columns" id="sitewide-header"></div></pre>
.ROW	CONTENT SMALL-12.COLU			4 5 6 7 <	<h1>Logo</h1> <div class="small-12 medium-8 medium-offset-4 columns">(nav)</div> #sitewide-header /div> row
	PLAIN TEXT	FLOATED PI	AOTO OR VIDEO	8 9 < 10 < 11 12 13 14 < 15 16 <	<pre>! PAGE HEADER> div class="row"> <div class="small-12 columns" id="page-header"> <h2>Page Header</h2> </div> <!-- #page-header--> /div> <!-- #page-header--> /div> <!--row--> ! CONTENT> div class="row"> <div class="small-12 columns" id="content"></div></pre>
.ROW	NESTED 1 SMALL-12.MEDIUM-4 .COLUMNS	NESTED 2 SMALL-12.MEDIUM-4 .COLUMNS	NESTED 3 SMALL-12.MEDIUM-4 .COLUMNS	20 21 22 23 24 25 26 27 28 29 30 31	<pre> Lorem ipsum dolor sit amet. </pre> <pre></pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pr< td=""></pr<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
.ROW	NESTED 1 SMALL-12.MEDIUM-6 .COLUMNS	NESTED 2 SMALL-12. .COLUMNS	MEDIUM-6	38 39 <	<pre><div class="small-12 medium-6 columns"><h3>Nested 1</h3></div> <div class="small-12 medium-6 columns"><h3>Nested 2</h3></div> <!--row--> <!-- #content--> /div> <!-- #content--> /div> <!--row--> <div class="row"> <div class="small-12 columns">(footer)</div></div></pre>
.ROW	FOOTER SMALL-12.COLUM	NS		42 <	/div> row

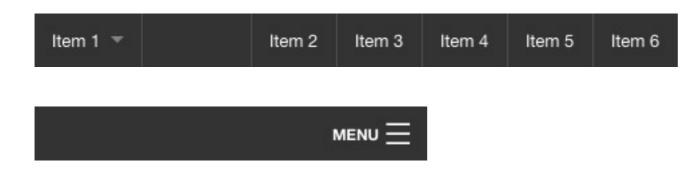
CONFUSED? TEMPLATES!

FOUNDATION.ZURB.COM/TEMPLATES.HTML



FOUNDATION FOR CATS - Navigation

☆ Top-bar



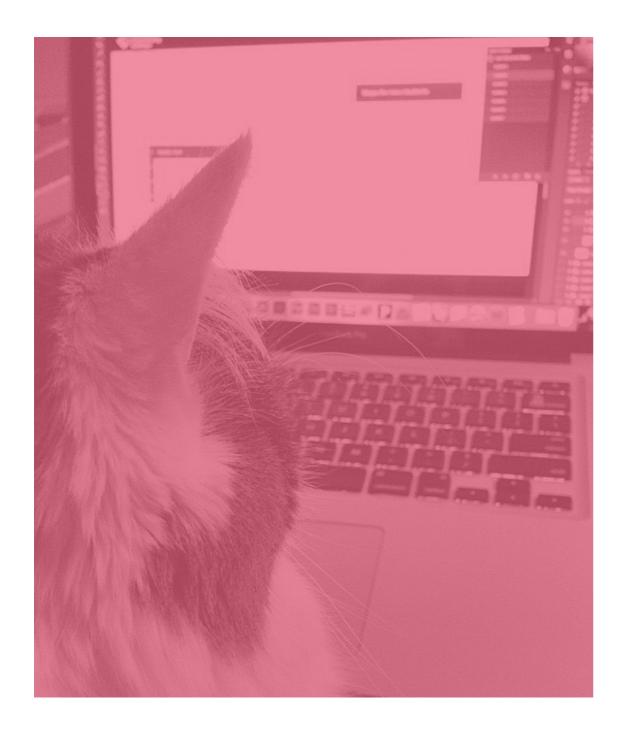
- Tons of features like buttons, dropdowns, search bars, stick-to-top
- …and Foundation offers 7 other types of responsive navigation menus

FOUNDATION FOR CATS - Visibility



- Show/hide by screen size
- Orientation detection
- Touch detection
- Show/hide for screen readers
- Skip links, .show-for-focus
- Show/hide for print

FOUNDATION FOR CATS - Media



- Block grid
- 📽 Slider
- Lightbox, modal
- 📽 Flex video

Sass = Syntactically Awesome Style Sheets

SASS-LANG.COM





Sass is the most mature, stable, and powerful professional grade CSS extension language in the world.

Current Release: Selective Steve (3.4.15)

Release Notes Fork on Github

CSS COMPATIBLE

Sass is completely compatible with all versions of CSS. We take this compatibility seriously, so that you can seamlessly use any available CSS libraries.

FEATURE RICH

Sass boasts more features and abilities than any other CSS extension language out there. The Sass Core Team has worked endlessly to not only keep up, but stay ahead.

MATURE

Sass has been actively supported for over 8 years by its loving Core Team.

INDUSTRY APPROVED

Over and over again, the industry is choosing Sass as the premier CSS extension language.

LARGE COMMUNITY

Sass is actively supported and developed by a consortium of several tech companies and hundreds of developers.

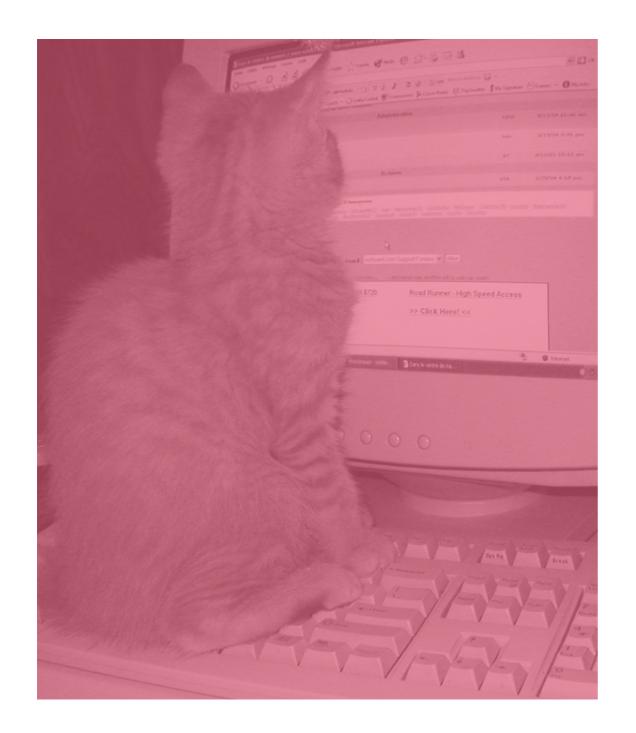
FRAMEWORKS

There are endless number of frameworks built with Sass. Compass, Bourbon, and Susy just to name a few.



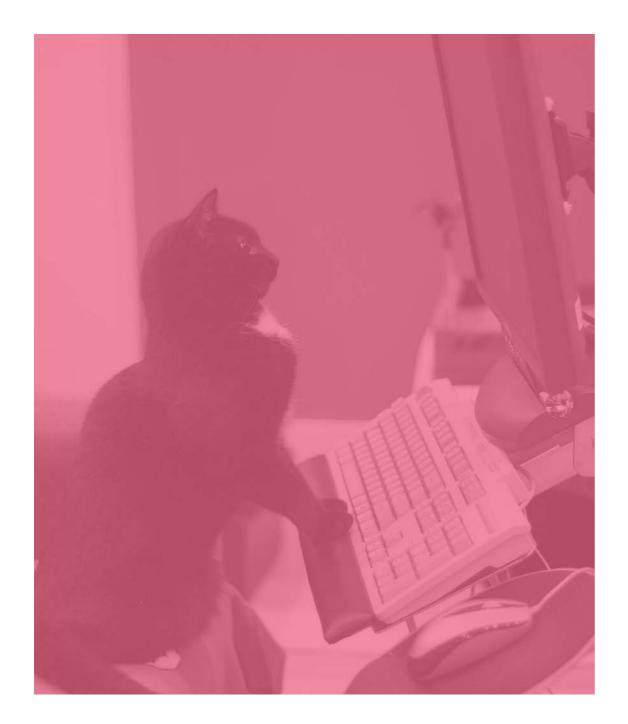
WHY USE Sass

SASS FOR KITTENS



- Designed by Hampton Catlin in 2006
- Coded in Ruby, open-source
- Extends CSS to provide features available in traditional programming languages
- 📽 .sass vs .scss
- Scout app (no command line)
- SassMeister
- (Similar: CoffeeScript, LESS)

SASS FOR KITTENS



How Sass works

SCSS / SASS SASS COMPILER ,CSS

SASS FOR CATS - Partials

Folder structure

- CSS
 - base
 - _colors.scss
 - _global.scss
 - __mixins.scss
 - _typography.scss
 - components
 - __callouts.scss
 - class-schedule.scss
 - _forms.scss
 - _tabs.scss
 - layout
 - _footer.scss
 - header.scss
 - _media-queries.scss
 - __sidebar.scss

style.scss

@import "base/colors", "base/global",
"base/mixins", "base/typography";

@import "components/callouts",
"components/forms", "components/tabs";

@import "layout/footer", "layout/header",
"layout/media-queries", "layout/sidebar";

SASS FOR CATS - Nesting

Sass

1	. header	• {
2	bac	:kground:#e1e1e1;
3	wid	ith: 100%;
4	pł	
5		<pre>font-size:12px;</pre>
6		a {
7		color:#0088a4;
8		<pre>text-decoration:none;</pre>
9		&:hover {
10		color:#333;
11		<pre>text-decoration:underline;</pre>
12		}
13		}
14	}	
15	ul	li {
16		<pre>padding:0 10px;</pre>
17		&.emphasis {
18		color:#9e0c0f;
19		}
20	}	
21	}	

1	.header {
2	<pre>background:#e1e1e1;</pre>
3	width: 100%;
4	}
5	.header p {
6	<pre>font-size:12px;</pre>
7	}
8	.header p a {
9	color:#0088a4;
10	<pre>text-decoration:none;</pre>
11	}
12	<pre>.header p a:hover {</pre>
13	color:#333;
14	<pre>text-decoration:underline;</pre>
15	}
16	.header ul li {
17	<pre>padding:0 10px;</pre>
18	}
19	<pre>.header ul li.emphasis {</pre>
20	color:#9e0c0f;
21	}

SASS FOR CATS - Variables

Sass

1	<pre>\$background:#elele1;</pre>
2	\$link:#0088a4;
3	<pre>\$link-hover:#333;</pre>
4	
5	.header {
6	background: \$background;
7	width: 100%;
7 8	p {
9	<pre>font-size:12px;</pre>
10	a {
11	color:\$link;
12	<pre>text-decoration:none;</pre>
13	&:hover {
14	color:\$link-hover;
15	<pre>text-decoration:underline;</pre>
16	}
17	}
18	}

1	.header {
2	<pre>background:#elele1;</pre>
3	width: 100%;
4	}
5	.header p {
6	<pre>font-size:12px;</pre>
7	}
8	.header p a {
9	color:#0088a4;
10	<pre>text-decoration:none;</pre>
11	}
12	.header p a:hover {
13	color:#333;
14	<pre>text-decoration:underline;</pre>
15	}

SASS FOR CATS - Mixins

Sass

```
@mixin border-radius($radius) {
 1
      -webkit-border-radius: $radius;
 2
         -moz-border-radius: $radius;
 3
         -ms-border-radius: $radius;
 4
 5
              border-radius: $radius;
   }
 6
 7
 8
    .button {
        @include border-radius(10px);
 9
10
   }
11
    .callout {
12
13
        @include border-radius(5px);
14 }
```

1	.button {	
2	-webkit-border-radius:	10px;
3	-moz-border-radius:	10px;
4	-ms-border-radius:	10px;
5	border-radius:	10px;
6	}	
7		
8	.callout {	
9	-webkit-border-radius:	5px;
10	-moz-border-radius:	5px;
11	-ms-border-radius:	5px;
12	border-radius:	5px;
13	}	62 60

SASS FOR CATS - Mixins

Sass

1	<pre>@mixin button(\$background, \$text, \$width) {</pre>	
2	background: \$background;	
3	<pre>// Sass can lighten and darken colors</pre>	
4	<pre>border-bottom:2px solid darken(\$background, 10%);</pre>	
5	color:\$text;	
6	padding:10px;	
7	width:\$width;	
8	}	
9		
10	.submit-btn {	
11	<pre>@include button(\$blue, \$gray, 50%);</pre>	1
12	}	1
13		1
14	.callout-btn {	1
15	<pre>padding:0; // won't override mixin</pre>	1
16	<pre>@include button(#123456, #light-gray, 100%);</pre>	1
17	<pre>padding:0; // will override mixin</pre>	1
18	}	1

1	.submit-btn {
2	background:#0088a1;
3	<pre>border-bottom:2px solid #0288a1;</pre>
4	color:#333;
5	padding:10px;
6	width:50%;
7	}
8	
9	.callout-btn {
10	background:#123456;
11	<pre>border-bottom:2px solid #234567;</pre>
12	color:#d1d1d1;
13	<pre>padding:0;</pre>
14	width:100%;
15	}

SASS FOR CATS - Mixins

Sass

```
1 have f
    @mixin transition($args...) {
 1
 2
      -webkit-transition: $args;
 3
         -moz-transition: $args;
          -ms-transition: $args;
 4
 5
           -o-transition: $args;
 6
              transition: $args;
7
   }
8
9
    .box {
        width:10%;
10
        @include transition(width 0.3s ease);
11
12
        &:hover {
13
            width:12%;
14
15
            @include transition(width 2s linear 1s);
        }
16
17
    }
18
    .color-changer {
19
        background-color: #000;
20
21
        @include transition(background-color 0.5s ease);
22
        &:hover {
23
            background-color: #333;
24
25
        }
26 }
                                                             30 }
```

1	v	.box {
2		width:10%;
3	~	-webkit-transition: width 0.3s ease;
4	v	<pre>-moz-transition: width 0.3s ease;</pre>
5	v	<pre>-ms-transition: width 0.3s ease;</pre>
6	v	<pre>-o-transition: width 0.3s ease;</pre>
7		<pre>transition: width 0.3s ease;</pre>
8		}
9		
10	v	.box:hover {
11		width:12%;
12	v	-webkit-transition: width 2s linear 1s;
13	v	<pre>-moz-transition: width 2s linear 1s;</pre>
14	v	<pre>-ms-transition: width 2s linear 1s;</pre>
15	v	<pre>-o-transition: width 2s linear 1s;</pre>
16		transition: width 2s linear 1s;
17		}
18		
19		
20	v	.color-changer {
21		<pre>background-color: #000;</pre>
22	v	-webkit-transition: background-color 0.5s ease;
23	v	<pre>-moz-transition: background-color 0.5s ease;</pre>
24	v	<pre>-ms-transition: background-color 0.5s ease;</pre>
25	v	<pre>-o-transition: background-color 0.5s ease;</pre>
26		<pre>transition: background-color 0.5s ease;</pre>
27	~	}
28	¥	.color-changer:hover {
29		<pre>background-color: #333;</pre>
30		}

SASS FOR TOMCATS - Advanced

Sass

```
Compiled CSS
```

1	article {	1 article {
2	float: left;	<pre>2 float: left;</pre>
3	width: 600px / 960px * 100%;	3 width: 62.5%;
4	}	4 }
5		5
6	aside {	6 aside {
7	float: right;	<pre>7 float: right;</pre>
8	width: 300px / 960px * 100%;	8 width: 31.25%;
9	}	9 }

Other Math Operations

```
1 p {
2 font: 10px/8px; // Plain CSS, no division
3 $width: 1000px;
4 width: $width/2; // Uses a variable, does division
5 width: round(1.5)/2; // Uses a function, does division
6 height: (500px/2); // Uses parentheses, does division
7 margin-left: 5px + 8px/2px; // Uses +, does division
8 }
```

SASS FOR TOMCATS - Advanced

Expressions

```
$type: monster;
 1
2 p {
 3
      @if $type == ocean {
        color: blue;
 4
      } @else if $type == matador {
 5
        color: red;
 6
 7
      } @else if $type == monster {
        color: green;
 8
      } @else {
 9
        color: black;
10
      }
11
   }
12
```

Custom Functions

```
1 $grid-width: 40px;
2 $gutter-width: 10px;
3
4 @function grid-width($n) {
5 @return $n * $grid-width + ($n - 1) * $gutter-width;
6 }
7
8 #sidebar { width: grid-width(5); }
9
10 // compiles to #sidebar { width: 240px; }
```

```
14 //font size - converts px to em
15 @function em($pixels, $context: $base-size) {
16 @return #{$pixels/$context}em
17 }
```

…and much more – check out sass-lang.com



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