

responsive design with ggs-rails

Ryan Ahearn - @rcahearn - Coshx Labs

www.nytimes.com/



Search



The New York Times

Saturday, March 30, 2013 Last Update: 4:40 PM ET

Subscribe: Digital / Home Delivery | Log In | Register Now



TRY A TIMES DIGITAL SUBSCRIPTION: 4 WEEKS FOR 99¢ [CLICK HERE](#)

Search



Follow Us



Subscribe to Home Delivery | Personalize Your Weather

HOME PAGE
TODAY'S PAPER
VIDEO
MOST POPULAR
U.S. Edition

SHOP NOW
MARCJACOBS.COM

WORLD
U.S.
POLITICS
NEW YORK
BUSINESS
DEAL BOOK
TECHNOLOGY
SPORTS
SCIENCE
HEALTH
ARTS
STYLE
OPINION

Books
Blogs
Books
Cartoons
Classifieds
Crosswords
Dining & Wine
Education
Event Guide
Fashion & Style
Home & Garden
Jobs
Magazines
Movies
Music
Obituaries
Public Editor
Real Estate
Sunday Review
T Magazine
Television
Theater
Travel
Weddings / Celebrations



The Opinion Pages

Tonight, Tonight, It's
World Is Full of Blight

By DICK CAVETTO

A certain revered
late-night talk show
had had a
millennium history.

Blow: The G.O.P.'s Diversity
Desert

• Collins: The Killer Serpent

• Nostra: The Coach Who
Fought Back
• Editorial: The Campaign to
Outlaw Abortion

BUSINESS DAY

COMMON SENSE

Why Bad Directors Aren't
Thrown Out

The track record of Hewlett-
Packard's board is bad, but
efforts to remove such
directors rarely succeed.

Vanguard

Short of
Money, Egypt
Sees Crisis in
Fuel and Food

By DAVID O'KIRKSTROCK
12:42 PM ET
The cash shortage is raising
questions about Egypt's ability
to keep importing wheat
that is essential to the food supply,
stirring fears of an economic
catastrophe.

Deal Said to Be
Reached on Guest
Worker Program

By ASHLEY PARKER and STEVEN
GREENHOUSE 2:54 PM ET

The agreement between
the nation's top business and
labor groups clears the path
for legal immigration
legislation to be introduced
when Congress returns from
its two-week recess in mid-
April.

Site of Wounded Knee Massacre Is for
Sale

By JOHN ELIGON 1:56 PM ET

The site in South Dakota of an
infamous massacre in 1890, and a
violent standoff in 1973, is once
again the subject of introspection and dispute.

Court Upholds Election Results in a
Tense Kenya

By JEFFREY GETTELMAN
3:06 PM ET

The decision eliminated the last
hurdle for Uhuru Kenyatta to take
office but it could leave Western
nations with a serious headache.

Dreams of a Harlem Jazz Rebirth

By KIA GREGORY

Although the Lenox Lounge has closed, three
jazz music lovers see opportunities to revive the
scene in Harlem.

Comments

MORE NEWS

Italian Leader Asks for Help on
Deadlock 1:42 PM ET

Egypt Orders Arrest of Satirist
11:52 AM ET

N.C.A.A. TOURNAMENT

Two Ohio State Players Join Buzzard-
Beater Club

By GREG BISHOP

ORPHAN BLACK

SERIES PREMIERE
TONIGHT 9/8c BBC AMERICA

SPORTS

Blossoming Colt Stirs Up:
Dreams Set in Kentucky

A little-known
trainer has a
leading
Kentucky
Derby
contender in
Italy's Derby, a favorite to
win the Florida Derby.

The Gnarling Feeling That
All Is Not Well

Alarmed by injuries and an
aging roster, some Yankees
fans believe they are already in
the same boat as Mets fans,
dreading the season to come.

JUST 99¢
FOR 4 WEEKS
OF A DIGITAL SUBSCRIPTION

REAL ESTATE | AUTOS | JOBS | ALL CLASSIFIEDS

NYC AUTO SHOW

Celebrating With Beer, Not

Bubbly

While New
Yorkers will use
the usual Lotto-
winner fantasies
at the auto show,
which opened to
the public on

Friday, the most important
derby run to entry-level luxury
cars and mainstream models.

• El Cars of the Show

NEW CARS SEARCH

Select Make

Go

USED CARS SEARCH

Select Make

Enter ZIP code

Go

MORE IN AUTOMOBILES

• New Car Reviews

• Used-Car Information

• Collectible Cars

• Sell Your Car

www.time.com/time/



Search

SUBSCRIBE

TIME

Follow | Apps



SECTIONS

Get TIME magazine
on the iPad™

Go Now >>



GEORGE OURFALIAN / REUTERS

In Syria, The Mystery of a
Deadly Chemical Attack

Why Responsive?

Don't make your users zoom

```
1.  <div class="row">  
2.    <div class="span4">...</div>  
3.    <div class="span8">...</div>  
4.  </div>
```

Most Grid Frameworks ruining semantic markup

Class	Phones 767px and below	Tablets 979px to 768px	Desktops Default
.visible-phone	Visible	Hidden	Hidden
.visible-tablet	Hidden	Visible	Hidden
.visible-desktop	Hidden	Hidden	Visible
.hidden-phone	Hidden	Visible	Visible
.hidden-tablet	Visible	Hidden	Visible
.hidden-desktop	Visible	Visible	Hidden

Most Grid Frameworks ruining semantic markup

Golden Grid System

- * <http://goldengridsystem.com>
- * Joni Korpi
- * Not “The Golden Grid”
- * 18 column folding grid
- * Outer 2 columns always used as margin
- * Comes with an awesome Javascript helper



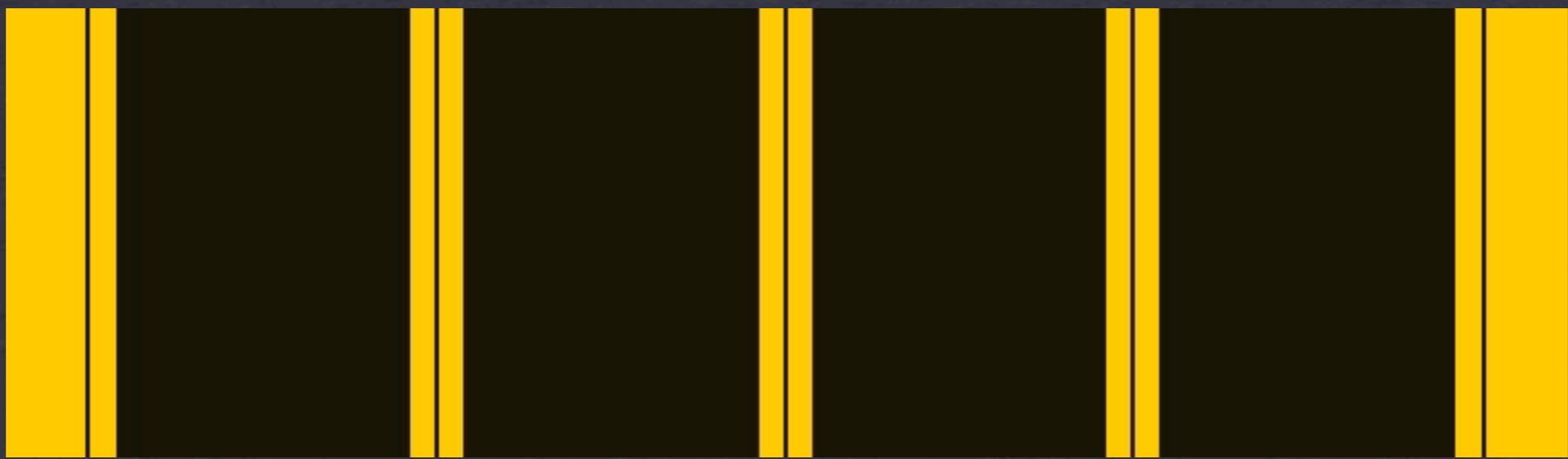
Huge Monitors

16 content columns



Normal Monitors

8 content columns



Mobile

4 content columns

ggs-rails

<https://github.com/rahearn/ggs-rails>

Usage

- * gem 'ggs-rails'
- * = javascript_include_tag 'GGS' if Rails.env.development?
- * Copy GGS reset from the website to vendor/assets/stylesheets and include in application.css

```
home.html.erb (~/software/ggs-talk/app/views/pages) - VIM
1 <article class="wrapper">
2   <h1>Our Great Content</h1>
3   <p>Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Curabitur blandit tempus porttitor.</p>
4
5   <p>Nullam id dolor id nibh ultricies vehicula ut id elit. Donec id elit non mi porta gravida at eget metus. Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis.</p>
6
7   <p>Donec sed odio dui. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum. Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo.</p>
8
9   <p>Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis. Donec sed odio dui. Maecenas faucibus mollis interdum.</p>
10 </article>
11
12 <aside class="wrapper">
13   <h2>Sidebox</h2>
14   <p>Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Sed posuere consectetur est at lobortis. Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.</p>
15 </aside>
```

app/views/pages/home.html.erb Line:1/15[6%]Col:9Buf:#1[32][0x20]

Source

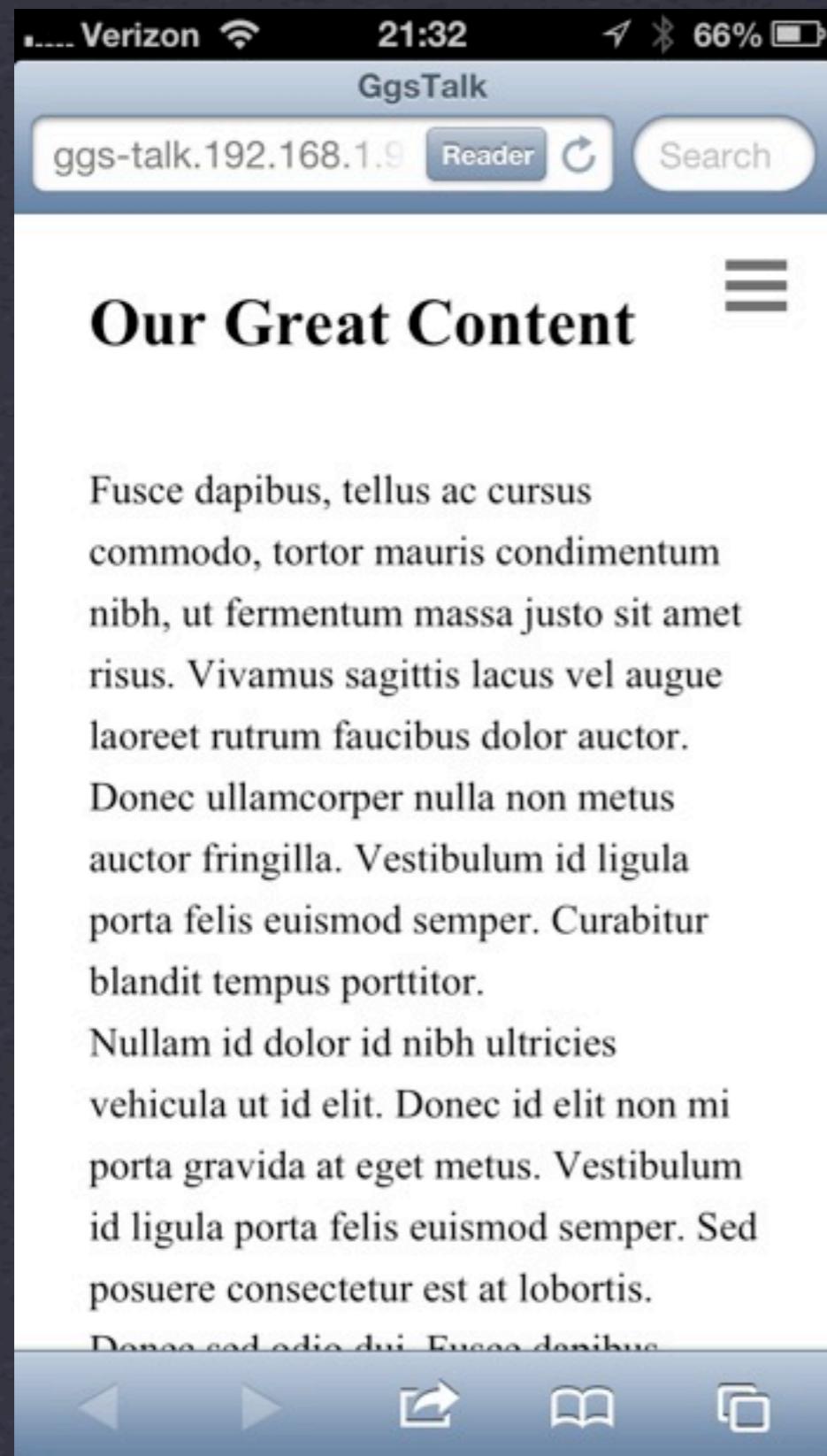


A screenshot of a VIM editor window titled "pages.css.scss (~/software/assets/stylesheets) - VIM1". The code editor displays the following SCSS code:

```
1 @import "ggs";
2
3 article, aside {
4   @include ggs-margin-width;
5 }
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
```

The status bar at the bottom of the editor shows the file name, line number, and syntax error information: "<css.scss Line:22/38[57%]Col:1Buf:#1[0][0x0] [Syntax: line:0 (3)]".

Mobile First



Four Column Layout

Our Great Content

Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Curabitur blandit tempus porttitor.

Nullam id dolor id nibh ultricies vehicula ut id elit. Donec id elit non mi porta gravida at eget metus. Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis.

Donec sed odio dui. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum. Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo.

Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis. Donec sed odio dui. Maecenas faucibus mollis interdum.

Sidebox

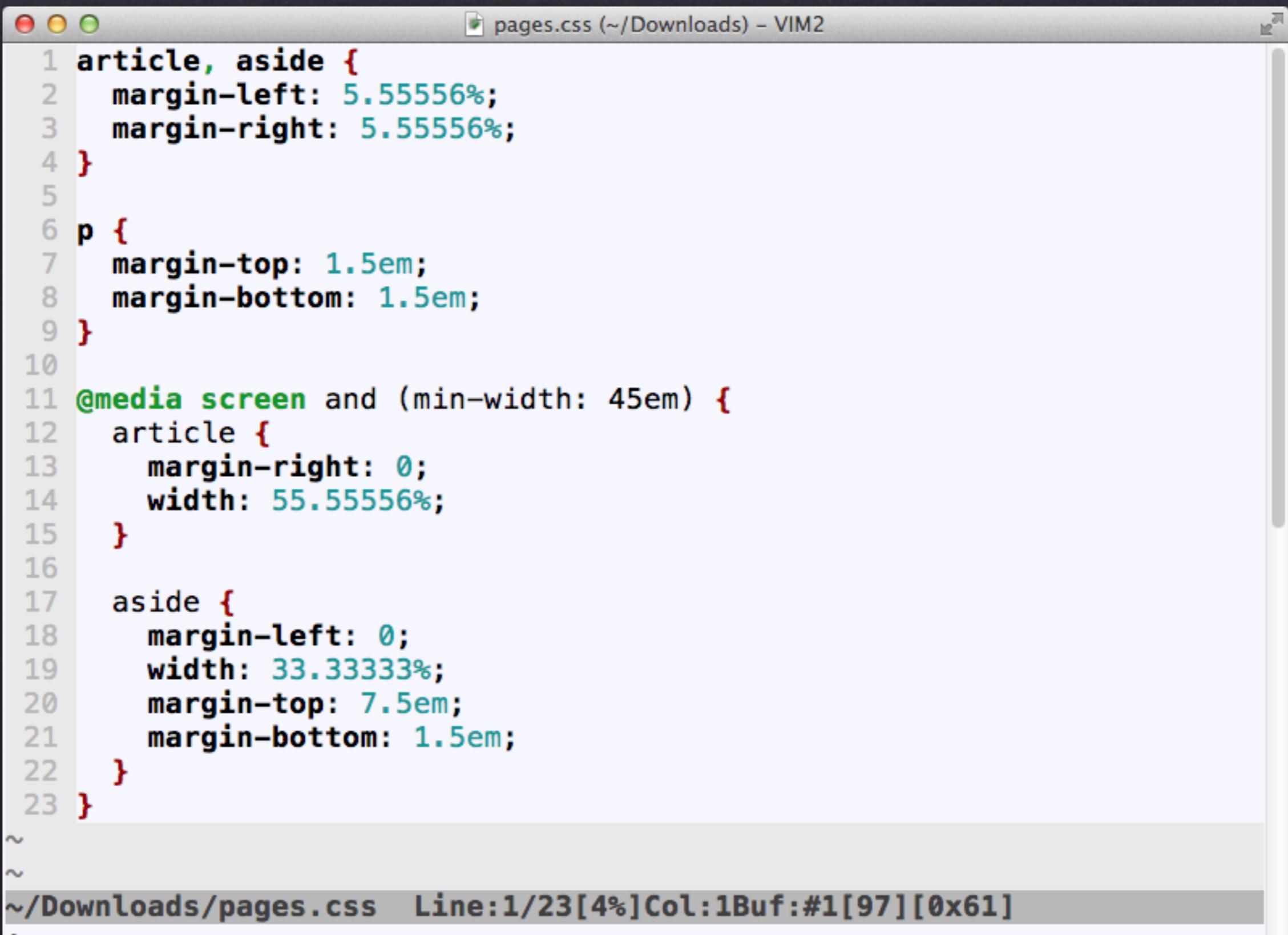
On the Desktop

```
2 @import "ggs";
3
4 article, aside {
5   @include ggs-margin-width;
6 }
7
8 p {
9   @include ggs-margin-height(1, 1);
10}
11
12 @include ggs-8-columns {
13   article, aside {
14     float: left;
15   }
16
17   article {
18     margin-right: 0;
19     @include ggs-width(10);
20   }
21
22   aside {
23     border: 1px solid #555;
24     @include border-radius;
25     margin-left: 0;
26     @include ggs-width(6);
27     @include ggs-margin-height(5, 1);
28   }
29 }
```

<ts/pages.css.scss Line:29/29[100%]Col:1Buf:#1[125][0x7D] [Syntax: line:0 (3)]

Full SCSS

media queries with SASS mixins and blocks



A screenshot of a VIM2 window on a Mac OS X desktop. The title bar reads "pages.css (~/Downloads) – VIM2". The code editor contains the following CSS:

```
1 article, aside {
2     margin-left: 5.55556%;
3     margin-right: 5.55556%;
4 }
5
6 p {
7     margin-top: 1.5em;
8     margin-bottom: 1.5em;
9 }
10
11 @media screen and (min-width: 45em) {
12     article {
13         margin-right: 0;
14         width: 55.55556%;
15     }
16
17     aside {
18         margin-left: 0;
19         width: 33.33333%;
20         margin-top: 7.5em;
21         margin-bottom: 1.5em;
22     }
23 }
```

The status bar at the bottom shows the file path " ~/Downloads/pages.css ", line information "Line:1/23[4%]", column "Col:1", buffer number "Buf:#1", character "97", and memory address "[0x61].

Generated CSS

A screenshot of a web browser window titled "GgsTalk" with the URL "ggs-talk.dev/". The main content area features a large heading "Our Great Content" followed by three blocks of placeholder text (Lorem ipsum). To the right is a sidebar with a title "Sidebox" and two blocks of placeholder text.

Our Great Content

Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Curabitur blandit tempus porttitor.

Nullam id dolor id nibh ultricies vehicula ut id elit. Donec id elit non mi porta gravida at eget metus. Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis.

Donec sed odio dui. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum. Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo.

Sidebox

Præsent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Præsent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Sed posuere consectetur est at lobortis. Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus.

Easier reading

The screenshot shows a web browser window with the title "GgsTalk" and the URL "ggs-talk.dev/". The page content is organized into four columns defined by vertical gridlines. The first column contains three paragraphs of Latin placeholder text. The second column contains two paragraphs of Latin placeholder text. The third column contains one paragraph of Latin placeholder text. A fourth column on the right is labeled "Sidebox" and also contains one paragraph of Latin placeholder text.

Our Great Content

Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Curabitur blandit tempus porttitor.

Nullam id dolor id nibh ultricies vehicula ut id elit. Donec id elit non mi porta gravida at eget metus. Vestibulum id ligula porta felis euismod semper. Sed posuere consectetur est at lobortis.

Donec sed odio dui. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum. Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo.

Sidebox

Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Maecenas sed diam eget risus varius blandit sit amet non magna. Sed posuere consectetur est at lobortis. Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Cum sociis natoque penatibus et magnis dis

With gridlines



A screenshot of a VIM window displaying SCSS code. The file is named 'functions.scss' located on the desktop. The code defines two mixins: 'ggs-8-columns' and 'ggs-column', and one function 'ggs-lineheight'. The 'ggs-8-columns' mixin creates a media query for screens with a minimum width of \$ggs-8-column-breakpoint, containing a block of content. The 'ggs-column' function calculates a percentage value based on a multiplier and an out-of value. The 'ggs-lineheight' function calculates a line height based on a multiplier and \$ggs-em. The status bar at the bottom shows the file path, line count (14/17), column count (82%), buffer number (Buf:#1), and memory address (0x6E).

```
functions.scss (~/Desktop) – VIM
```

```
1 @mixin ggs-8-columns {  
2   @media screen and (min-width: $ggs-8-column-breakpoint) {  
3     @content;  
4   }  
5 }  
6  
7  
8 // Used by ggs-width and ggs-margin-width mixins  
9 @function ggs-column($multiplier, $out_of: 18) {  
10   @return (100% * $multiplier / $out_of);  
11 }  
12  
13  
14 // Used by ggs-margin-height mixin  
15 @function ggs-lineheight($multiplier) {  
16   @return #{$ggs-line * $multiplier / $ggs-em}em;  
17 }
```

```
~/Desktop/functions.scss Line:14/17[82%]Col:34Buf:#1[110][0x6E]
```

Internal Building Blocks

Questions?

<https://github.com/rahearn/ggs-talk>