Sass & Compass

薛良斌 a.k.a. hlb / 布丁

about me

自我介紹

from Taiwan

ム線

驚:人人會翻牆



People love to ask questions



job title: the father of two children

another job title: Happy Web Designer

快樂制度計師

has translated some articles in my early life

間著沒事隨著鄉人

css zen garden, a list apart, PIE, W3C Glossary...

runs a design/development company. My company's name, not a sushi shop





Rails/Perl/UI/App/Service/Consulting/...

6 people: 1 UI Designer, 1 Visual Designer, 3 F2E, 4 Programmers, 6 Managers















GFW hates me

hlb@t____r
iamhlb.com (on tumble)

Sass & Compass

better way to write/maintain CSS

write CSS to make a living

靠CSS 計生活

其實IE6 惠我良多

vendor specific property

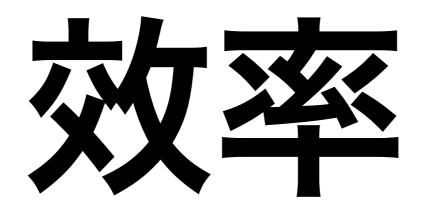
keep coding



painful



productivity



workman must first sharpen this tools if he is to do his work well

利器善事





Sass

CSS Extension

http://sass-lang.com



\$ gem install haml
\$ mv style.css style.scss
\$ sass --watch style.scss:style.css

About

Tutorial

Documentation

Blog

Try Online

Latest Release: Classy Cassidy (3.0.25)

What's New?

Sass makes CSS fun again. Sass is an extension of CSS3, adding <u>nested rules</u>, <u>variables</u>, <u>mixins</u>, <u>selector inheritance</u>, and <u>more</u>. It's translated to well-formatted, standard CSS using the command line tool or a web-framework plugin.

Sass has two syntaxes. The new main syntax (as of Sass 3) is known as "SCSS" (for "Sassy CSS"), and is a superset of CSS3's syntax. This means that every valid CSS3 stylesheet is valid SCSS as well. SCSS files use the extension .scss.

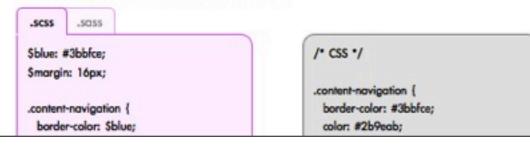
The second, older syntax is known as the indented syntax (or just "Sass"). Inspired by Haml's terseness, it's intended for people who prefer conciseness over similarity to CSS. Instead of brackets and semicolons, it uses the indentation of lines to specify blocks. Although no longer the primary syntax, the indented syntax will continue to be supported. Files in the indented syntax use the extension .5055.



- Editor Support
- Development

Variables

Use the same color all over the place? Need to do some math with height and width and text size? Sass supports variables as well as basic math operations and many useful functions.



Nesting

Sass avoids repetition by nesting selectors within one another. The same thing works with properties.

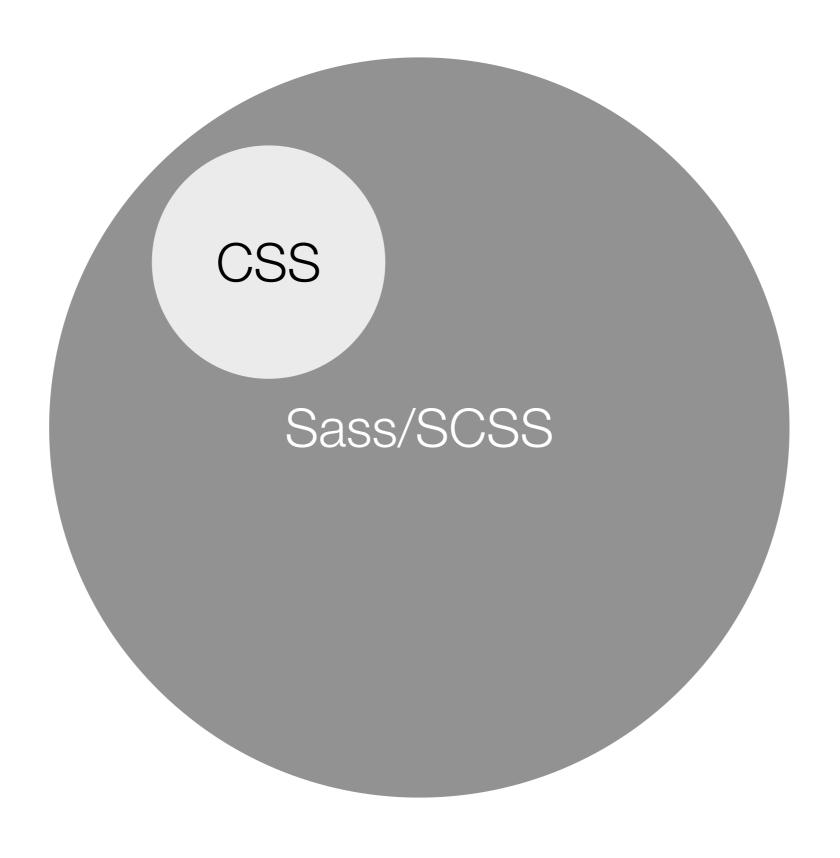
```
.scss .sass

table.hl {
  margin: 2em 0;
  td.ln {
   text-align: right;
  }
```

/* CSS */
table.hl {
margin: 2em 0;
}

3.1.alpha

Superset



兩種語法

Sass/SCSS

SCSS

跟 CSS 長得一模一樣

```
$blue: #3bbfce;
$margin: 16px;
.content-navigation {
  border-color: $blue;
  color:
    darken($blue, 9%);
.border {
  padding: $margin / 2;
  margin: $margin / 2;
  border-color: $blue;
```

\$blue: #3bbfce

\$margin: 16px

Sass

舊語法 更愉快的 indented syntax 對設計師來說很難學:(

```
.content-navigation
border-color: $blue
color:
    darken($blue, 9%)
```

.border

padding: \$margin / 2

margin: \$margin / 2

border-color: \$blue

DRYDon't Repeat Yourself

Variables 變數 Nesting 巢狀 Mixins 混合 Selector Inheritance

選擇符繼承

Variables 變數

Variables 變數

```
$blue: #3bbfce;
$margin: 16px;
```

```
#sidebar {
    border: 1px solid #000;
    a {
        font-size: 1.2em;
    }
}
```

```
#sidebar {
    border: 1px solid #000;
}
#sidebar a {
    font-size: 1.2em;
}
```

```
#sidebar {
    border: 1px solid #000;
    a {
        font-size: 1.2em;
        text-decoration: none;
        &:hover {
            text-decoration: underline;
                        &: parent reference
```

```
#sidebar {
    border: 1px solid #000;
#sidebar a {
    font-size: 1.2em;
    text-decoration: none;
#sidebar a:hover {
    text-decoration: underline;
```

```
#sidebar {
    border: 1px solid #000;
    a {
        font-size: 1.2em;
        text-decoration: none;
        .ie6 & {
            zoom: 1; // IE MUST DIE
```

```
#sidebar {
    border: 1px solid #000;
#sidebar a {
    font-size: 1.2em;
    text-decoration: none;
.ie6 #sidebar a {
    zoom: 1;
```

```
body {
    background: url(...), url(...), url(...);
    .no-multiplebgs & {
        background: url(...);
    }
}
```

modernizr http://www.modernizr.com/

```
@mixin rounded($radius) {
    -moz-border-radius: $radius;
    -webkit-border-radius: $radius;
    -o-border-radius: $radius;
    border-radius: $radius;
}
```

```
.box {
   @include rounded(8px);
```

```
.box {
    -moz-border-radius: 8px;
    -webkit-border-radius: 8px;
    -o-border-radius: 8px;
    border-radius: 8px;
}
```

very important

Inheritance 繼承

```
.feedback {
  border: 3px solid black;
  .icon { background-image: url(/images/
feedback.png); }
.warning {
  @extend .feedback;
  border-color: red;
  background-color: lighten(red, 30%);
  .icon { background-image: url(/images/
warning.png); }
```

```
.feedback, .warning {
  border: 3px solid black; }
  .feedback .icon, .warning .icon {
    background-image: url(/images/
feedback.png); }
.warning {
  border-color: red;
  background-color: #ff9999; }
  .warning .icon {
    background-image: url(/images/warning.png); }
```

```
.error {
    @extend .feedback;
    border-color: red;
    background-color: lighten(red, 30%);
    .icon { background-image: url(/images/error.png); }
}
```

```
.feedback, .warning, .error {
  border: 3px solid black; }
  .feedback .icon, .warning .icon, .error .icon {
    background-image: url(/images/
feedback.png); }
.error {
  border-color: red;
  background-color: #ff9999; }
  .error .icon {
    background-image: url(/images/error.png); }
```

more!

@import

@import "reset.scss";
@import "fonts.css";

math 數學

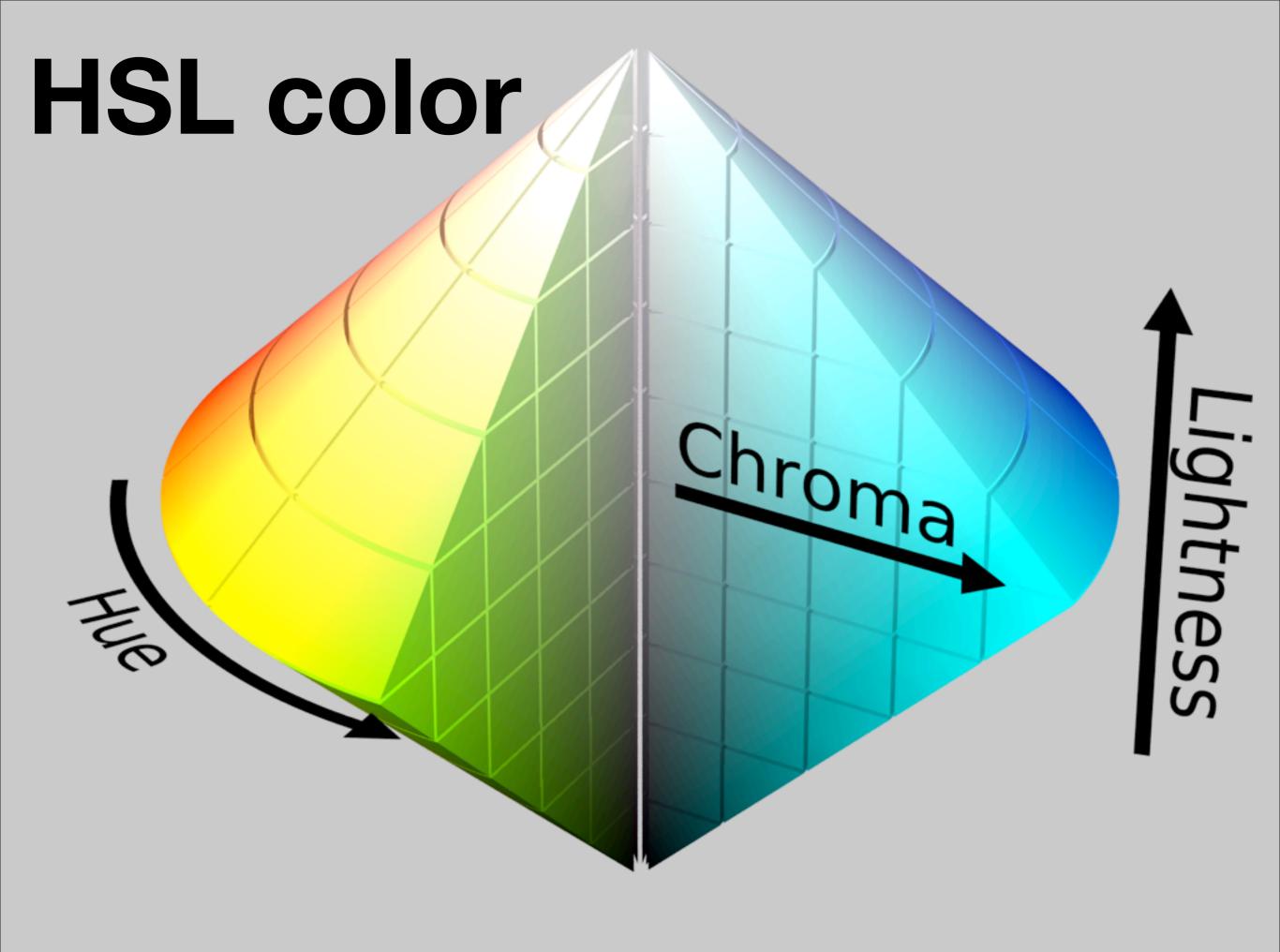
```
height: 50px / $ratio;
width: 20em * $ratio;
font-size: 1in + 2.2cm + 100mm + 3pc;
```

math 數學

```
.container {
    width: $num-columns * $grid-unit + ($num-columns - 1) * $grid-gutter
}
```

color functions

hsl, hsla, darken, saturate, complement, grayscale, mix, ...



@media (latest)

responsive web design

@media

```
@media screen {
    .sidebar {
        width: 300px;
        float: left;
        @media (max-width: 480px) {
            width: auto;
            float: none;
```

@media

```
@media screen {
  .sidebar {
    width: 300px;
    float: left; }
  @media screen and (max-width: 480px) {
    .sidebar {
      width: auto;
      float: none; }
```

@if, @else @for, @while, @each @function

move 無痛轉移

sass-convert -F css -T scss your.css new.scss

move 無痛轉移

sass-convert -F css -T scss -R your_css_folder

watch

sass --watch sass_folder:css_folder

Output Style 輸出樣式

nested, expanded, compact, compressed

```
Style ▼ Layout DOM

.index_action ul li a {
    display: block;
    padding: 0.4em;
    text-decoration: none;
}

a:hover {
    color: black;
}

a {
    color: #000099;
    text-decoration: underline;
}

*

Index.sass (line 26)

| index.sass (line 26)
|
| typography.sass (line 18)
| typography.sass (line 95)
```

debug_info

FireSass

https://addons.mozilla.org/en-US/firefox/addon/firesass-for-firebug/

Firefox 4: https://addons.mozilla.org/en-US/firefox/addon/firesass-for-firebug/versions/

and more!

https://github.com/nex3/sass/tree/master/doc-src/

Rails 3.1 uses SCSS by default

Rails 3.1内建SCSS

-2011/4/13

How to Install? Google it.

安裝說明

這份簡報不存在這種東西 Google It





Sass/Less Comparison

https://gist.github.com/674726



Compass

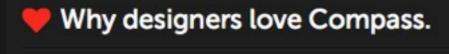
stylesheet authoring framework

http://compass-style.org/ http://beta.compass-style.org/





Compass is an open-source CSS Authoring Framework.



- Experience cleaner markup without presentational classes.
- 2. It's chock full of the web's best reusable patterns.
- 3. Developing a personal framework is simple.
- 4. Compass mixins make CSS3 easy.
- Download and create extensions with ease.

Compass uses Sass.

Sass is an extension of CSS3 which adds nested rules, variables, mixins, selector inheritance, and more. Sass generates well formatted CSS and makes your stylesheets easier to organize and maintain.

Brilliant people use Compass, including these wildly talented folks:







powered by Sass

0.11.beta.7

just released in 2011/4/16

Blueprint, 960gs, HTML5 Boilerplate, YUI reset/base/grids, ...

code snippets, frameworks & best practices

框架的框架

meta framework

Helper 輔助函式 Extension 擴充套件 Project Context 專 案環境

Helpers

clearfix

```
@import "compass";
section {
    @include clearfix;
.evil {
    @include pie-clearfix;
```

```
section {
  overflow: hidden;
 *zoom: 1; }
.evil {
  *zoom: 1; }
  .evil:after {
    content: "\0020";
    display: block;
    height: 0;
    clear: both;
    overflow: hidden;
    visibility: hidden; }
```

CSS3

```
@import "compass";
.linear {
    @include background(linear-gradient(top left,
#333, #0c0));
}
```

```
.linear {
    background: -webkit-gradient(linear, 0% 0%,
100% 100%, color-stop(0%, #333333), color-stop
(100%, #00cc00));
    background: -moz-linear-gradient(top left,
#333333, #00cc00);
    background: linear-gradient(top left,
#333333, #00cc00); }
```

CSS3

```
@import "compass";

.box {
    @include border-radius(8px);
    @include box-shadow(
        rgba(#ccc, 0.5) 3px 3px 5px
    );
}
```

```
.box {
  -moz-border-radius: 8px;
  -webkit-border-radius: 8px;
  -o-border-radius: 8px;
  -ms-border-radius: 8px;
  -khtml-border-radius: 8px;
  border-radius: 8px;
  -moz-box-shadow: rgba(204, 204, 204, 0.5) 3px
3px 5px;
  -webkit-box-shadow: rgba(204, 204, 204, 0.5)
3px 3px 5px;
  -o-box-shadow: rgba(204, 204, 204, 0.5) 3px 3px
5px;
  box-shadow: rgba(204, 204, 204, 0.5) 3px 3px
5px; }
```

support

```
@import "compass";
$experimental-support-for-microsoft: false;
$experimental-support-for-opera: false;
$experimental-support-for-khtml: false;
.box {
    @include border-radius(8px);
    @include box-shadow(
      rgba(#ccc, ∅.5) 3px 3px 5px
    );
```

```
.box {
  -moz-border-radius: 8px;
  -webkit-border-radius: 8px;
  -o-border-radius: 8px;
  -ms-border-radius: 8px;
  -khtml-border-radius: 8px;
  border-radius: 8px;
  -moz-box-shadow: rgba(204, 204, 204, 0.5) 3px
3px 5px;
  -webkit-box-shadow: rgba(204, 204, 204, 0.5)
3px 3px 5px;
  -o-box-shadow: rgba(204, 204, 204, 0.5) 3px 3px
5px;
  box-shadow: rgba(204, 204, 204, 0.5) 3px 3px
5px; }
```

```
.box {
  -moz-border-radius: 8px;
  -webkit-border-radius: 8px;
  border-radius: 8px;
  -moz-box-shadow: rgba(204, 204, 204, 0.5) 3px
3px 5px;
  -webkit-box-shadow: rgba(204, 204, 204, 0.5)
3px 3px 5px;
  box-shadow: rgba(204, 204, 204, 0.5) 3px 3px
5px; }
```

and lots more

http://beta.compass-style.org/reference/compass/

Extensions by Communities 社群提供的擴充套件

fancy-buttons



blueprint/960/yui/ html5boilerplate/oocss/...

search "compass" on GitHub

personal framework

個人框架

http://beta.compass-style.org/help/tutorials/extensions/

Assets 資源

```
config.rb:images_dir = "images"
           css_dir = "stylesheets"
@import "compass";
.logo { background-image: image-url
("logo.png"); }
.add-btn { background-image: image-url("icons/
add.png");}
.delete-btn { background-image: image-url("icons/
delete.png");}
```

```
logo { background-image: url( ../images/
logo.png?1293690225'); }
.add-btn { background-image: url('../images/
icons/add.png?1142171296'); }
.delete-btn { background-image: url('../images/
icons/delete.png?1142171530'); }
```

```
config.rb:http_path = "/"
    relative_assets = false
```

```
.logo { background-image: url('/images/logo.png?
1293690225'); }
.add-btn { background-image: url('/images/icons/add.png?1142171296'); }
.delete-btn { background-image: url('/images/icons/delete.png?1142171530'); }
```

```
config.rb:http_images_path = "http://imag.es/"
    relative_assets = false
```

```
.logo { background-image: url('http://imag.es/
logo.png?1293690225'); }
.add-btn { background-image: url('http://imag.es/
icons/add.png?1142171296'); }
.delete-btn { background-image: url('http://
imag.es/icons/delete.png?1142171530'); }
```

```
.logo { background-image: inline-image
("logo.png"); }
```

```
.logo { background-image: url('data:image/
png;base64,Gdj8RfU...'); }
```



Image Sprites

http://beta.compass-style.org/help/tutorials/spriting/

advanced: http://beta.compass-style.org/reference/compass/helpers/sprites/

image sprites

```
@import "compass/utilities/sprites";
@import "icons/*.png";
@include all-icons-sprites;
```















image sprites

```
@import "compass/utilities/sprites";
@import "icons/*.png";
@include all-icons-sprites;
```

















create project

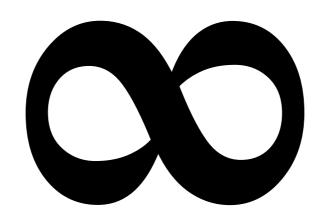
compass create project_name

watch

compass watch

compile

compass compile



wonderful

大棒了

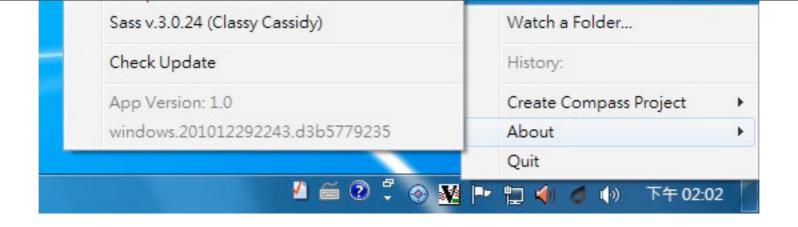
don't want to use CLI

拒絕用命行列



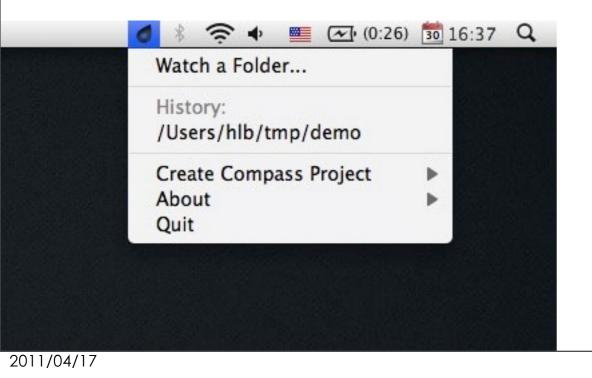


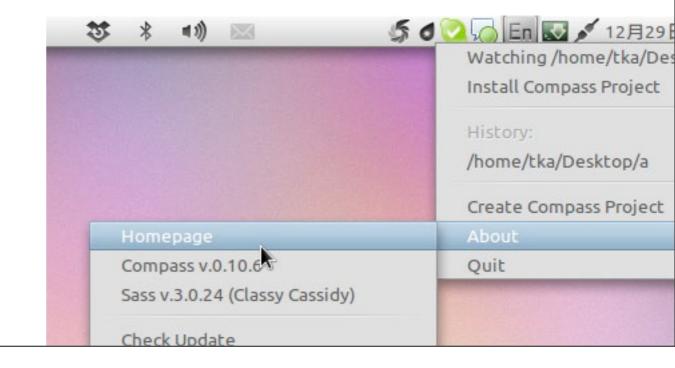
http://compass.handlino.com





GUI runs in Mac/Windows/Linux by Handlino Inc.







source code is open on GitHub



binary costs \$7 (30% goes to UMDF)

Let's start using it



Thank you

故詩指教



這份投影片的文字部分(含備忘稿)以創用 CC 姓名標示-非商業性-相同方式 分享 2.5 台灣授權條款授權,請參考完整授權條款。「姓名標示」部分請標註 「薛良斌 http://iamhlb.com」。