

The easy way to install Ruby on Windows

This is a self-contained Windows-based installer that includes the Ruby language, an execution environment, important documentation, and more.

[Download](#)[Add-ons](#)[Downloads](#)[RubyInstallers](#)[!\[\]\(d3102649f02e825ddb76dc3de0190154_img.jpg\) Ruby 2.0.0-p247](#)[!\[\]\(4b7a79268f6ba26c1471d4232fffa85a_img.jpg\) Ruby 2.0.0-p247 \(x64\)](#)[!\[\]\(95b425611cbd2b8716a140cf67c81822_img.jpg\) Ruby 1.9.3-p448](#)[!\[\]\(b4eeff342f60cc7bcd67d869b4fedca2_img.jpg\) Ruby 1.8.7-p374](#)

請先至
<http://rubyinstaller.org>
下載 Ruby 並安裝。

[GET DEVELOPMENT KIT?](#)

Down this page, several and *different* versions of Development Kits (DevKit) are listed. Please download the right one for your version of Ruby:

- Ruby 1.8.6 to 1.9.3: tdm-32-4.5.2

SASS & COMPASS

資訊系統訓練班 233 期



今日介紹

- * SASS (SCSS 檔)
 - * 更好寫的 CSS。
- * Compass
 - * 函式庫
 - * 套件管理
- * Bootstrap-sass
 - * 用 SASS 寫的前端框架 Bootstrap

CSS 好多重複。

```
#top-bar {  
    height: 92px;  
    overflow: auto;  
}  
  
#top-bar h1{  
    width: 124px;  
    height: 92px;  
    background: url(..../images/logo.png) center center no-repeat;  
  
    color: transparent;  
    font: 0/0 a;  
    text-shadow: none;  
    float: left;  
}  
  
#top-bar ul{  
    margin: 53px 0 0 45px;  
    float: left;  
    list-style: none;  
}
```

```
.seriousError {  
    border: 3px #f00;  
    background-color: #fdd;  
}  
  
.inputError {  
    border: 1px #f00;  
    background-color: #fdd;  
}
```

```
.seriousError {
    border: 3px #f00;
    background-color: #fdd;
}

.inputError {
    border: 1px #f00;
    background-color: #fdd;
}
```

```
.seriousError, .inputError {
    border-color: #f00;
    background-color: #fdd;
}

.seriousError {
    border-width: 3px;
}

.inputError {
    border-width: 1px;
}
```

```
.seriousError {  
    border: 3px #f00;  
    background-color: #fdd;  
}  
  
.inputError {  
    border: 1px #f00;  
    background-color: #fdd;  
}
```

```
.seriousError, .inputError {  
    border-color: #f00;  
    background-color: #fdd;  
}  
  
.seriousError {  
    border-width: 3px;  
}  
  
.inputError {  
    border-width: 1px;  
}
```

可能會忘記 .inputError 的樣式
在前面曾經設定過

```
.shadows {  
    -moz-box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;  
    -webkit-box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;  
    box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;  
}
```

```
.shadows {
    -moz-box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;
    -webkit-box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;
    box-shadow: 0px 4px 5px #666666, 2px 6px 10px #999999;
}

.shadows-invert {
    -moz-box-shadow: 0px -4px 5px #666666, 2px -6px 10px #999999;
    -webkit-box-shadow: 0px -4px 5px #666666, 2px -6px 10px #999999;
    box-shadow: 0px -4px 5px #666666, 2px -6px 10px #999999;
}
```

SASS

兩種語法：SASS 與 SCSS (Sassy CSS)

SCSS 語法為 CSS 的擴充。

SASS

附檔名：.scss

Variables Nesting

@extend @include

Variables (變數)

```
$header-height: 40px;

.header{
    position: fixed;
    top: 0;
    left: 0;
    width: 100%
    height: $header-height;
}

.contents{
    padding-top: $header-height;
}
```

Nesting

```
#top-bar {  
    height: 92px;  
    overflow: auto;  
}  
  
#top-bar h1{  
    width: 124px;  
    height: 92px;  
    background: url(..../images/logo.png);  
  
    color: transparent;  
    font: 0/0 a;  
    text-shadow: none;  
    float: left;  
}  
  
#top-bar ul{  
    margin: 53px 0 0 45px;  
    float: left;  
    list-style: none;  
}
```

```
#top-bar {  
    height: 92px;  
    overflow: auto;  
  
    h1{  
        width: 124px;  
        height: 92px;  
        background: url(..../images/logo.png);  
  
        color: transparent;  
        font: 0/0 a;  
        text-shadow: none;  
        float: left;  
    }  
  
    ul{  
        margin: 53px 0 0 45px;  
        float: left;  
        list-style: none;  
    }  
}
```

@extend

```
.seriousError, .inputError {  
    border-color: #f00;  
    background-color: #fdd;  
}
```

```
.seriousError {  
    border-width: 3px;  
}
```

```
.inputError {  
    border-width: 1px;  
}
```

```
%error {  
    border-color: #f00;  
    background-color: #fdd;  
}
```

```
.seriousError {  
    @extend %error;  
    border-width: 3px;  
}
```

```
.inputError {  
    @extend %error;  
    border-width: 1px;  
}
```

@include

```
@mixin box-shadow($shadows...) {  
  -moz-box-shadow: $shadows;  
  -webkit-box-shadow: $shadows;  
  box-shadow: $shadows;  
}  
  
.shadows {  
  @include box-shadow(0px 4px 5px #666, 2px 6px 10px #999);  
}  
.shadows-invert {  
  @include box-shadow(0px -4px 5px #666, 2px -6px 10px #999);  
}
```

小結



小結

很難寫

css 檔

引用

html 檔

<link href=".....">

小結

很難寫

css 檔

引用

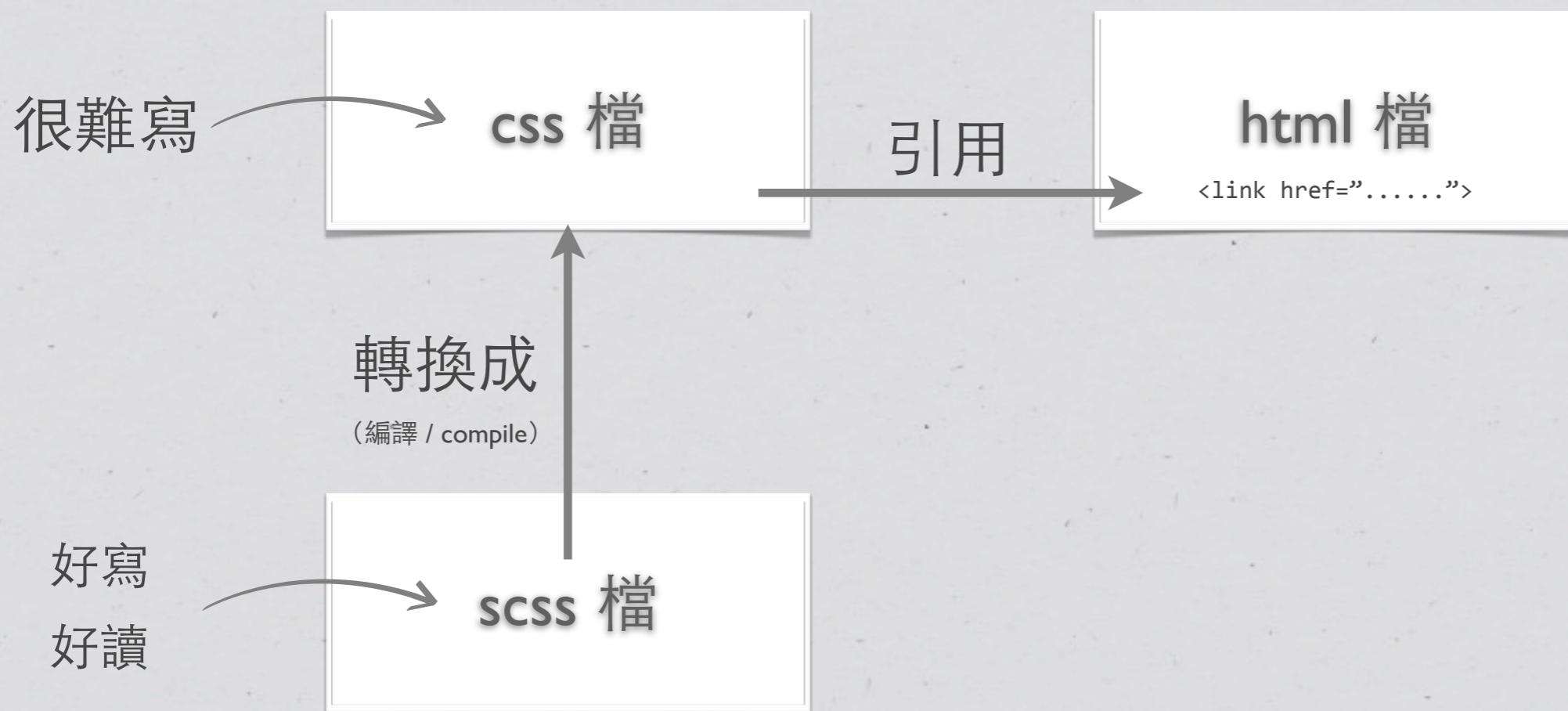
html 檔

<link href=".....">

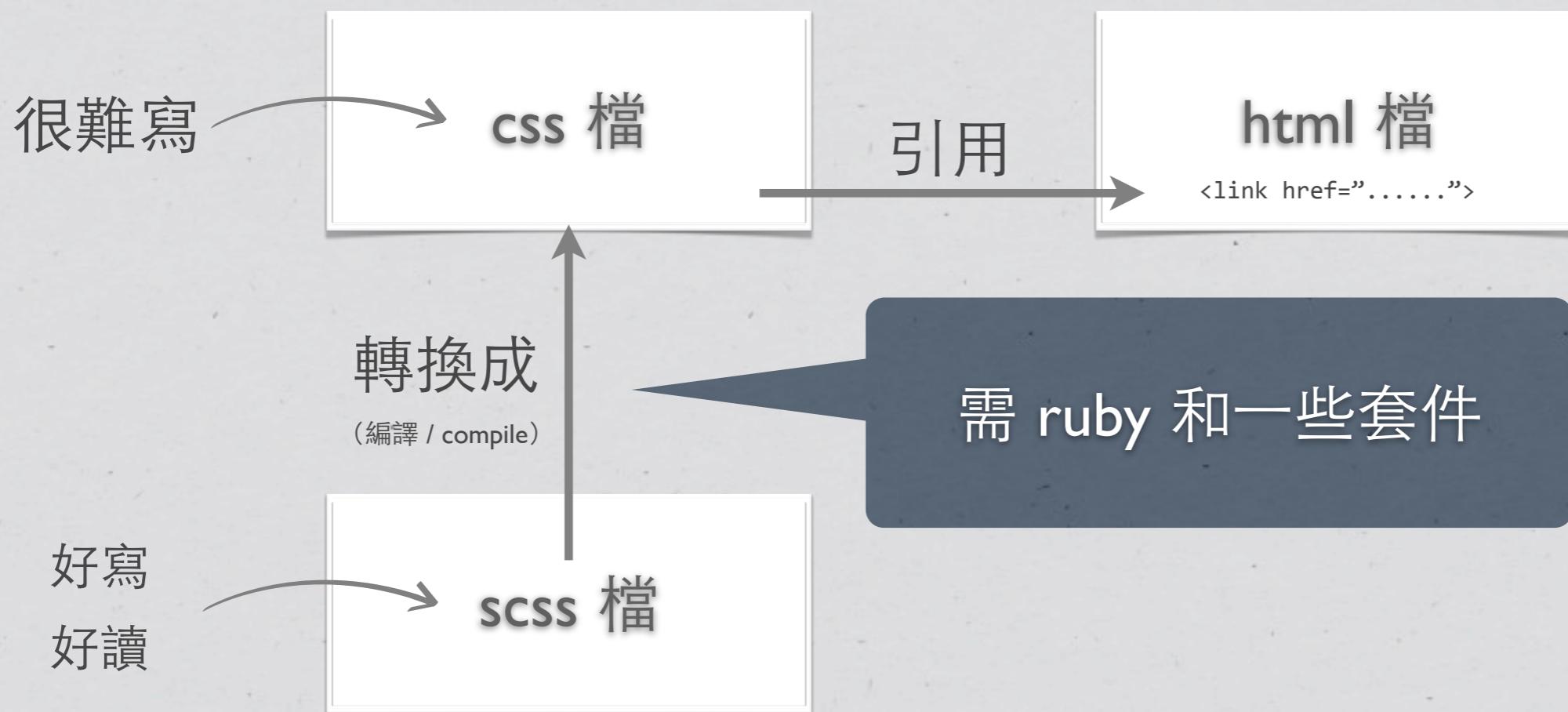
好寫
好讀

scss 檔

小結



小結



來裝 RUBY 與套件吧

更多名詞

* Ruby

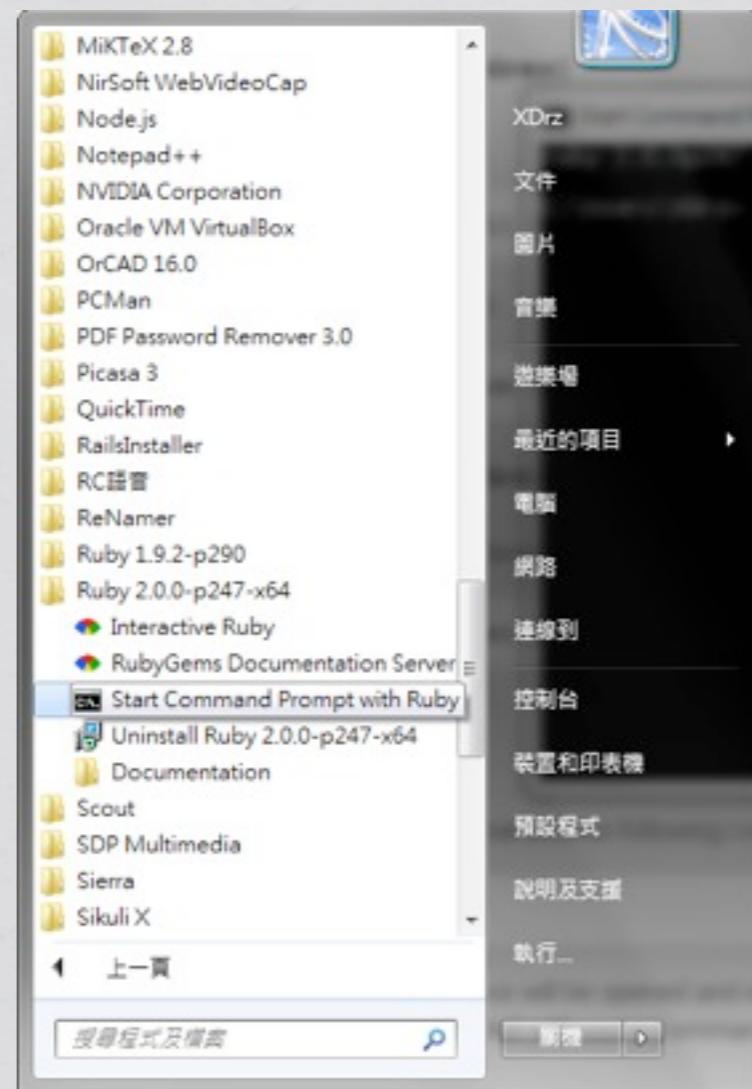
- * 某程式語言，SCSS 編譯器用 Ruby 寫。
- * .SCSS 需要 Ruby 才能轉換成 CSS。

* gem

- * Ruby 的套件管理程式

安裝 Ruby (Windows)

- * Ruby Installer 一直按下一步
- * 從開始功能表找到
Start Command Prompt with Ruby



安裝 Ruby (其他OS)

- * Mac : 內建有 Ruby , 用內建的。
- * Ubuntu/Debian : 推薦用 rvm 安裝 , 但會 compile 很久 ; 趕時間可以用 `sudo apt-get install ruby1.9.1`

安裝 compass gem

* `gem update --system`

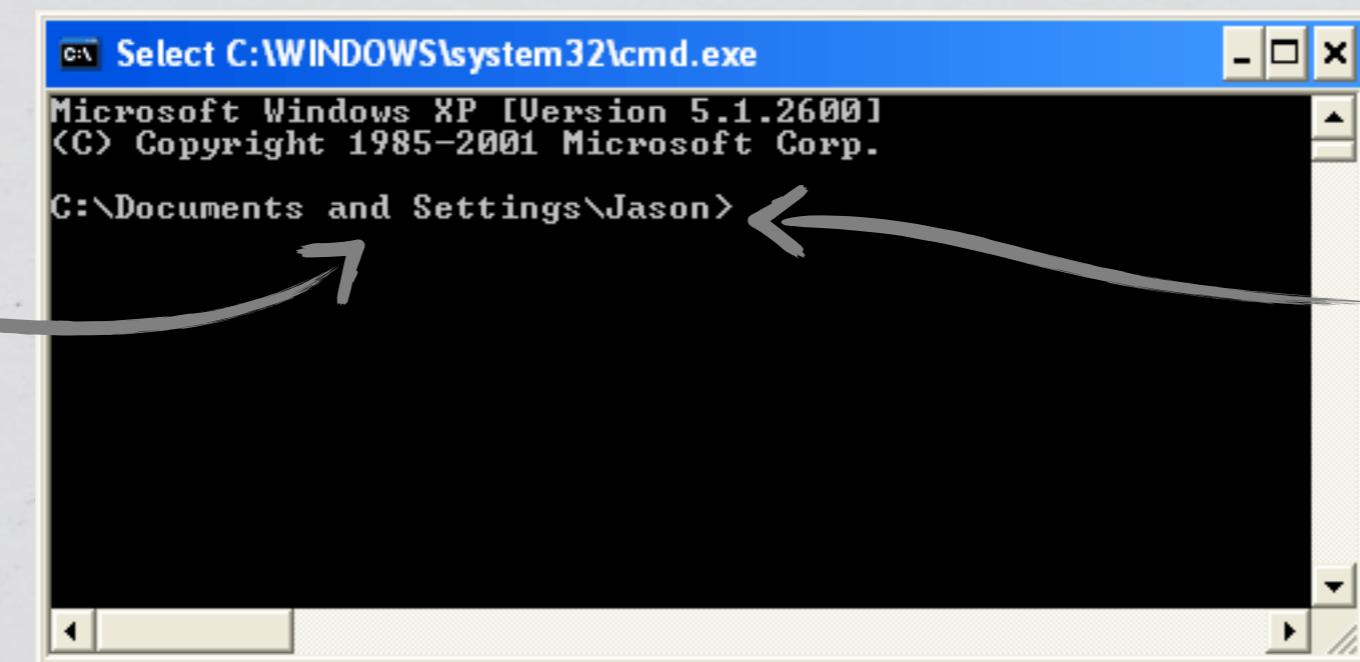
* 更新一下套件管理程式本身

* `gem install compass`

* 安裝 compass（之後會用到），SASS 會被一併安裝

提示命令字元小教學

當前資料夾
(當前目錄)

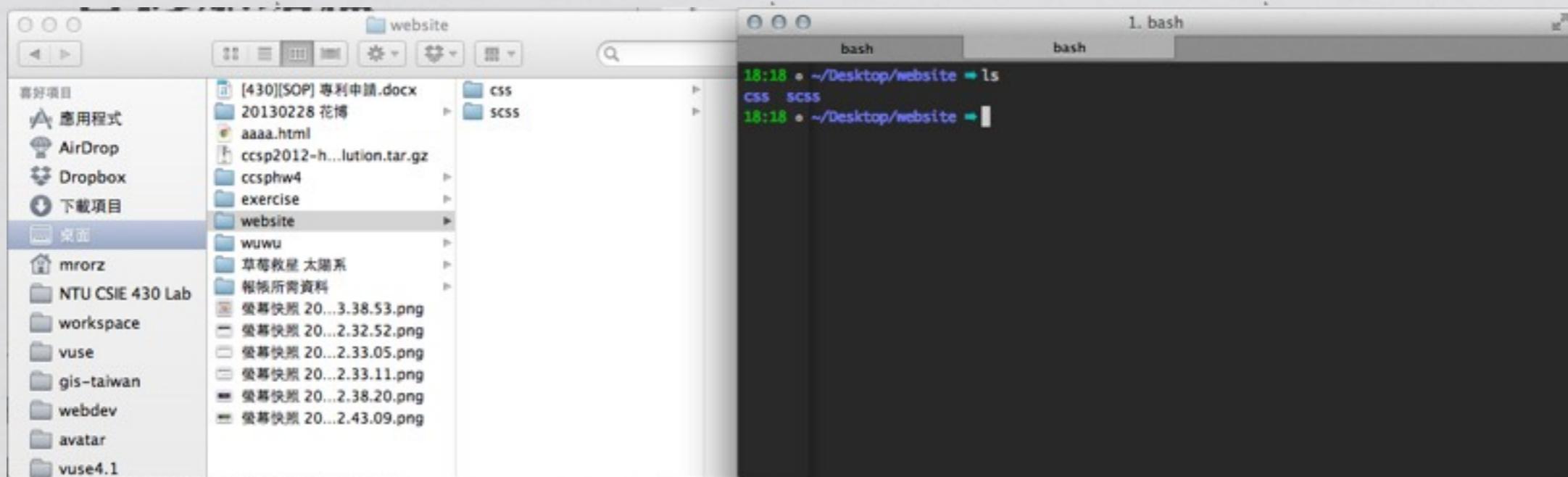


這裡可以打字

* **cd** : 切換當前資料夾 (change directory)

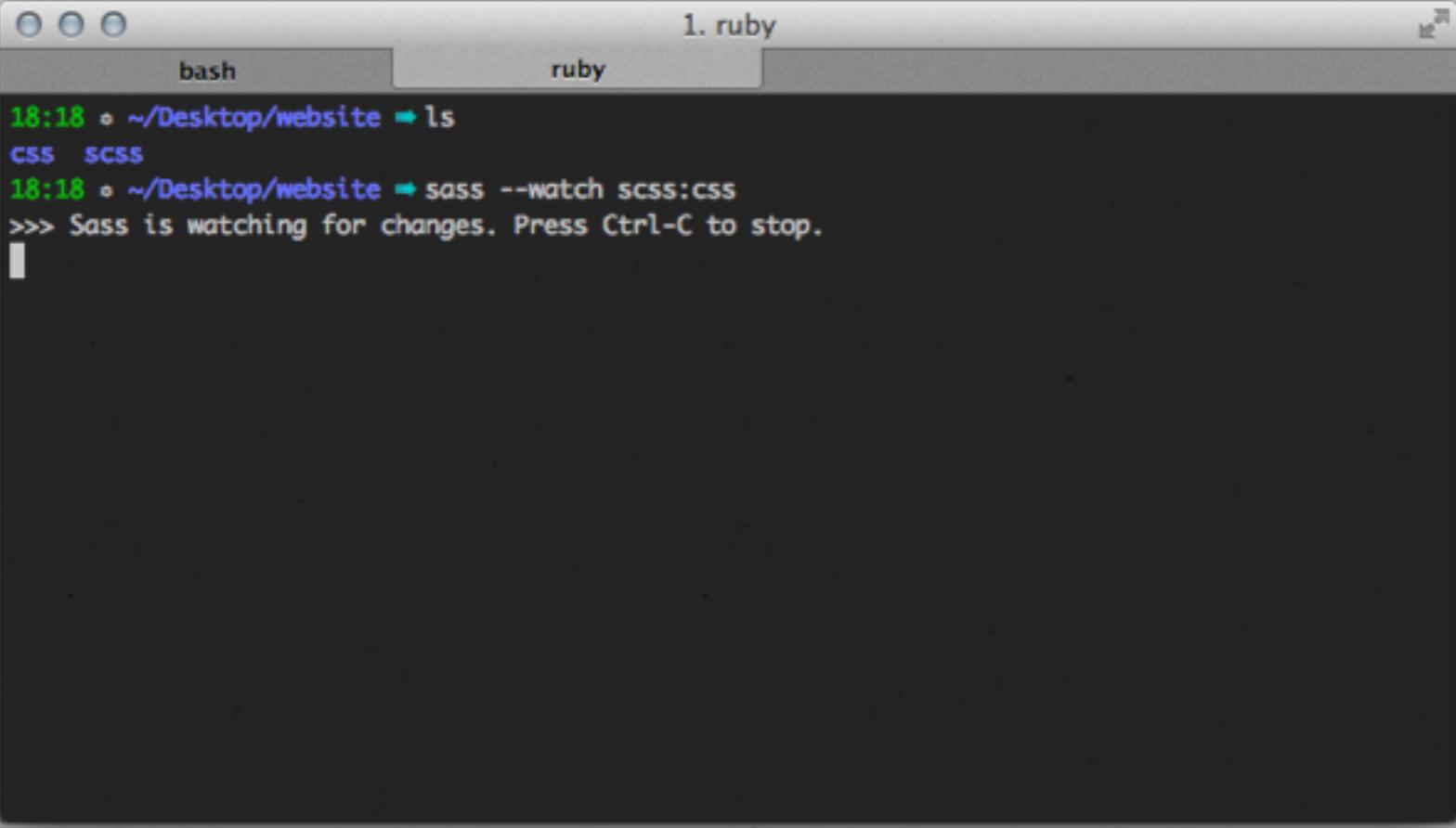
* **dir** : 列出目前資料夾內容

資料夾結構



- * 蓋兩個資料夾
 - * SCSS 資料夾：擺放 SCSS 檔
 - * CSS 資料夾：擺放編譯過後的 CSS 檔。

自動監聽 SCSS 變更



A screenshot of a terminal window titled "1. ruby". The window has two tabs: "bash" and "ruby", with "ruby" currently active. The terminal output shows:

```
18:18 ~/Desktop/website ➔ ls
CSS SCSS
18:18 ~/Desktop/website ➔ sass --watch scss:css
>>> Sass is watching for changes. Press Ctrl-C to stop.
```

* sass --watch SCSS輸入資料夾:CSS輸出資料夾

SCSS 練習時間

開始之前

- * 確認資料夾結構
- * `sass --watch scss:css`

Hello world!

```
$color: black;  
  
.hello-world{  
  color: $color;  
}  
  
```

下載範例包

* [https://dl.dropboxusercontent.com/u/3813488/
train/h1b-scss.zip](https://dl.dropboxusercontent.com/u/3813488/train/h1b-scss.zip)

Variables

- * 可以做加減乘除
 - * variables_5. scss
- * 顏色變數有特殊 function 可以操作
 - * color_1. scss

Nesting

- * 基本 Nesting
 - * nested_1. scss
 - * “&” symbol
 - * nested_4. scss

@extend

* %placeholder

- * 假的 Selector，名字不會出現在 CSS 裡。
- * extend_4. scss

@include

* @mixin 定義一個 Mixin (類似函數的東西)

* @include 來使用 Mixin

* mixin_1.scss

* mixin_2.scss

I. 至 RubyInstaller 官網下載 Ruby 2.0.0

The screenshot shows the RubyInstaller for Windows Downloads page. At the top, there's a logo for RubyInstaller for Windows and navigation links for About, Download, Help, and Contribute. Below that, a large blue header says "Downloads". Underneath, there are two main sections: "RubyInstallers" and "Archives»". The "RubyInstallers" section lists several Ruby versions with their icons. The "Archives»" section has a heading "WHICH DEVELOPMENT KIT?" and a note about downloading the right DevKit for your Ruby version. It also lists three specific DevKit versions.

Ruby Version	DevKit Version
Ruby 2.0.0-p247	Ruby 1.8.6 to 1.9.3: tdm-32-4.5.2
Ruby 2.0.0-p247 (x64)	Ruby 2.0.0: mingw64-32-4.7.2
Ruby 1.9.3-p448	Ruby 2.0.0 x64 (64bits): mingw64-64-4.7.2
Ruby 1.8.7-p374	

2. 安裝 (一直按 next 即可)

3. 打開 Start Command Prompt with Ruby

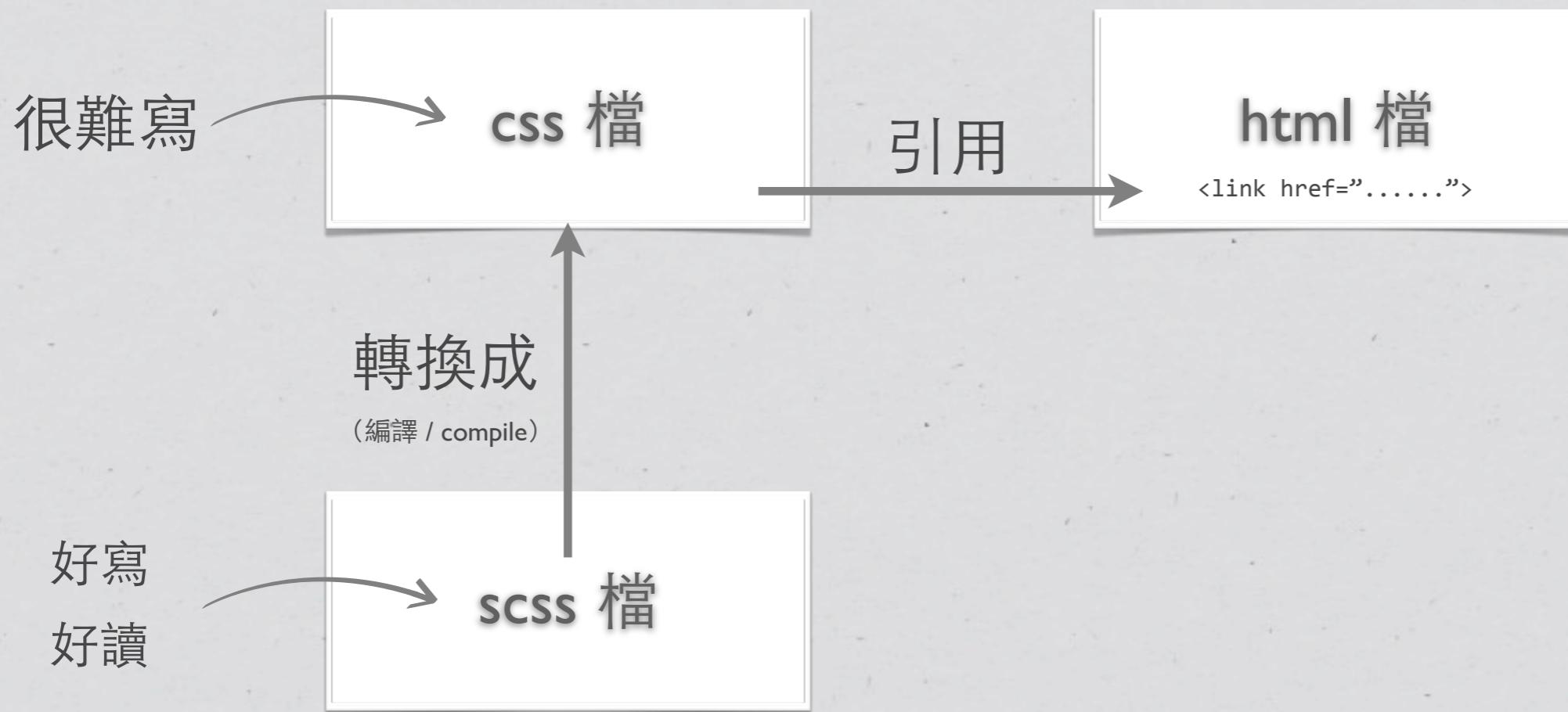
4. 依序執行下列指令：

gem update --system

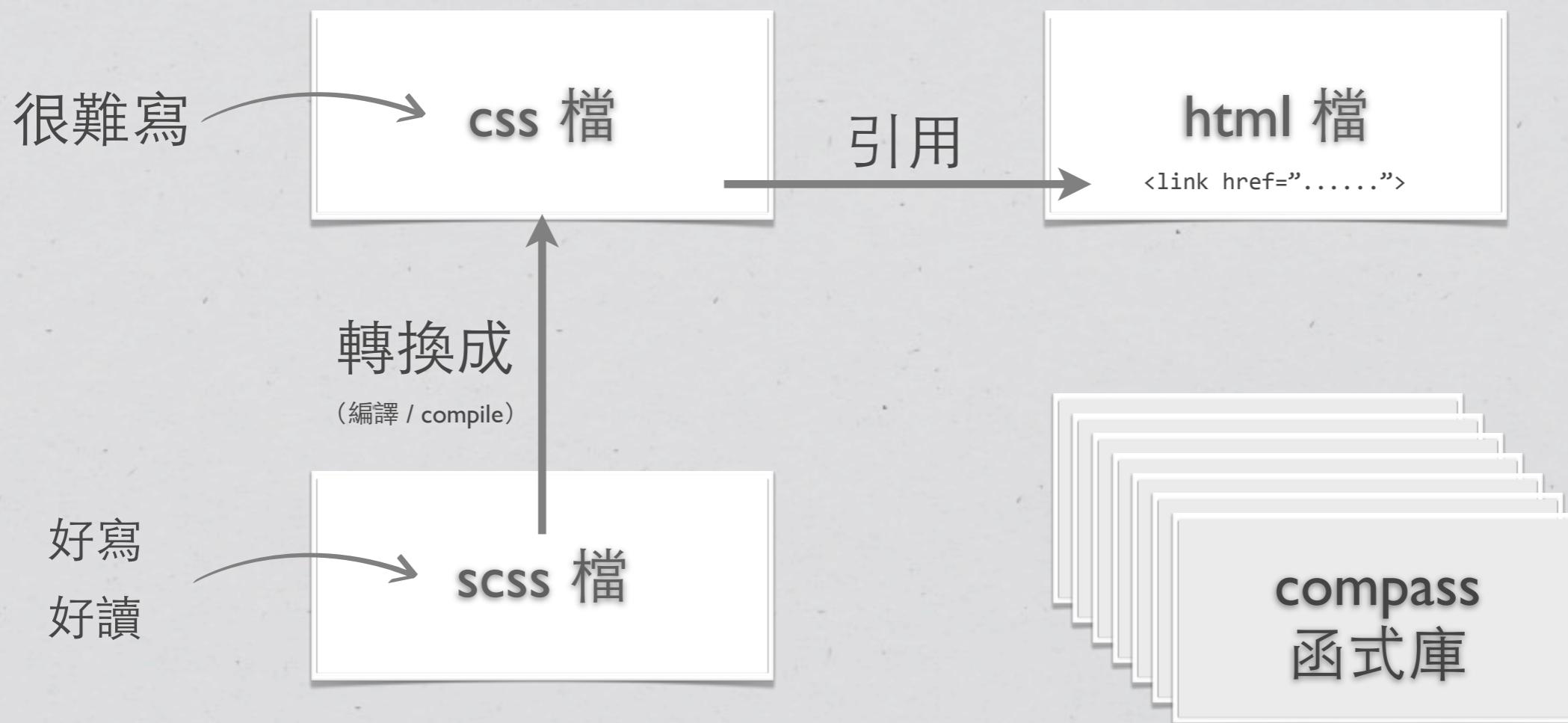
gem install compass

COMPASS

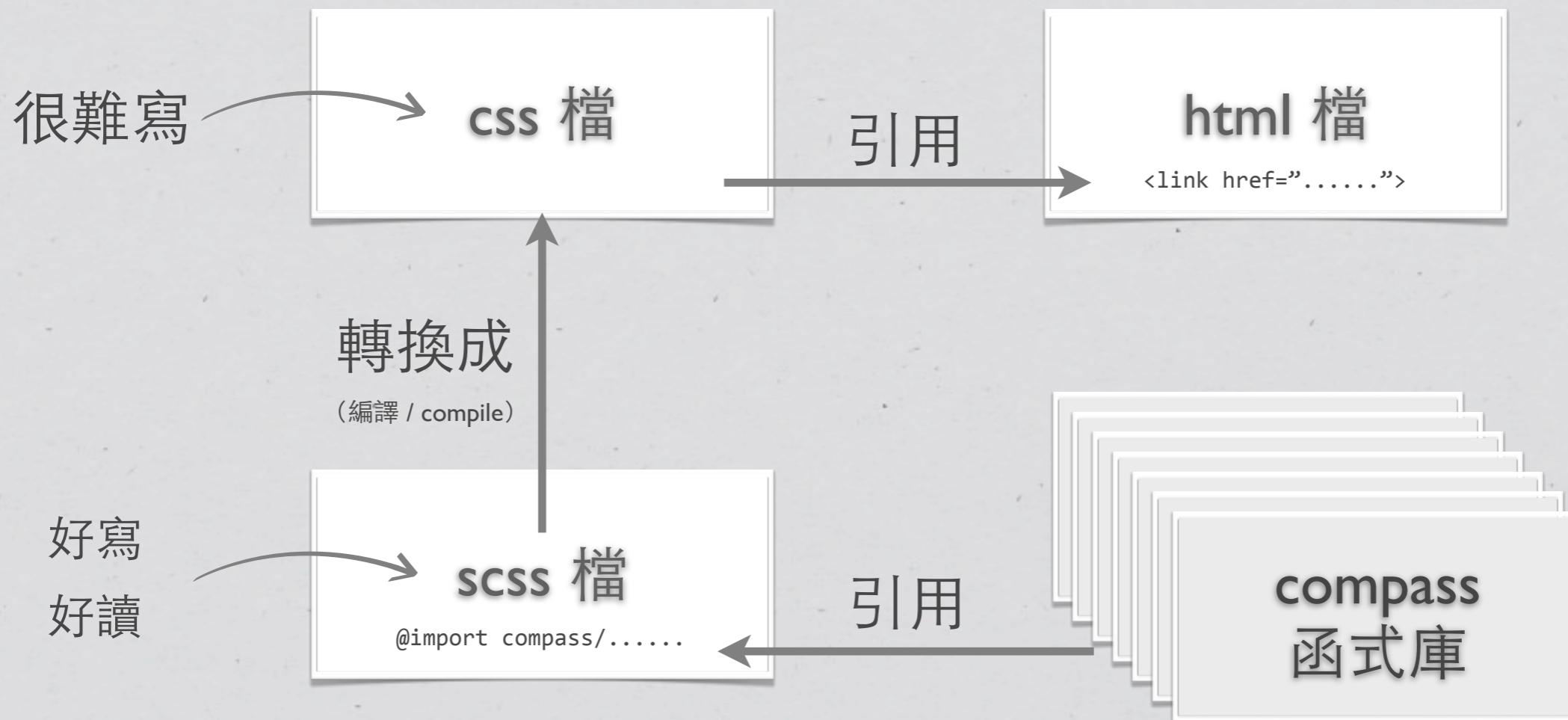
架構



架構



架構



Compass 專案

- * 除函式庫外，compass 會依照設定檔來管理專案
- * compass create 專案名稱
- * compass watch

Compass 專案結構與設定

- * 檔案結構
- * 設定檔：config.rb
 - * 檔案結構
 - * CSS 樣式
 - * 輸出行號與否

為何要設定檔案路徑？

- * Compass 可以找得到檔案
- * 產生正確路徑 `image-url()`
- * 讀取圖片寬高 `image-width()`、`image-height()`

COMPASS 練習時間

開始之前

- * 確認資料夾結構
- * compass watch

CSS3

css3_3. SCSS

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

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

clearfix

css3_1. scss

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

```
section {  
    overflow: hidden;  
    *zoom: 1;  
}  
  
.evil {  
    *zoom: 1;  
}  
  
.evil:after {  
    content: " ";  
    display: table;  
    clear: both;  
}
```

image-width/height

* 找一張圖片來試試。

BOOTSTRAP-SASS

BOOTSTRAP 的客製化

Customize and download

Download Bootstrap or customize variables, components, JavaScript plugins, and more.



Incoming email for web apps,
get started in minutes and
scale effortlessly.

ads via Carbon

1. Choose components >
2. Select jQuery plugins >
3. Customize variables >
4. Download >

1. Choose components

[Toggle all](#)

Scaffolding

- Normalize and reset
- Body type and links
- Grid system
- Layouts

Base CSS

- Headings, body, etc
- Code and pre
- Labels and badges
- Tables
- Forms
- Buttons
- Icons

Components

- Button groups and dropdowns
- Navs, tabs, and pills
- Navbar
- Breadcrumbs
- Pagination
- Pager
- Thumbnails
- Alerts
- Progress bars
- Hero unit
- Media component

JS Components

Miscellaneous

- Wells
- Close icon
- Utilities
- Component animations

Responsive

- Visible/hidden classes
- Narrow tablets and below (<767px)
- Tablets to desktops (767-979px)
- Large desktops (>1200px)
- Responsive navbar

[1. Choose components](#)[2. Select jQuery plugins](#)[3. Customize variables](#)[4. Download](#)[Reset to defaults](#)

3. Customize variables

Scaffolding

@bodyBackground

@white

@textColor

@grayDark

Links

@linkColor

#08c

@linkColorHover

darken(@linkColor, 15%)

Colors

@blue

#049cdb

@green

#46a546

@red

#9d261d

@yellow

#ffc40d

Typography

@sansFontFamily

'Helvetica Neue', Helvetica, Arial, f

@serifFontFamily

Georgia, 'Times New Roman', Times, se

@monoFontFamily

Menlo, Monaco, 'Courier New', monospa

@baseFontSize

14px

@baseFontFamily

@sansFontFamily

@baseLineHeight

20px

@altFontFamily

@serifFontFamily

@headingsFontFamily

inherit

@headingsFontWeight

bold

@headingsColor

inherit

Form states & alerts

@warningText

#c09853

@warningBackground

#fcf8e3

@errorText

#b94a48

@errorBackground

#f2dede

@successText

#468847

@successBackground

#dff0d8

@infoText

#3a87ad

@infoBackground

#d9edf7

Navbar

@navbarHeight

40px

- [1. Choose components >](#)
- [2. Select jQuery plugins >](#)
- [3. Customize variables >](#)
- [4. Download >](#)

3px

@inputDisabledBackground

@grayLighter

@formActionsBackground

#f5f5f5

@btnPrimaryBackground

@linkColor

@btnPrimaryBackgroundHighlight

darken(@white, 10%)

4. Download

[Customize and Download](#)

What's included?

Downloads include compiled CSS, compiled and minified CSS, and compiled jQuery plugins, all nicely packed up into a zipball for your convenience.

Customize and download

Download Bootstrap or customize variables, components, JavaScript plugins, and more.



Incoming email for web apps,
get started in minutes and
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ads via Carbon

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4. Download >

1. Choose components

[Toggle all](#)

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3. Customize variables

Scaffolding

@bodyBackground

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Links

@linkColor

#08c

@linkColorHover

darken(@linkColor, 15%)

Colors

@blue

#049cdb

@green

#46a546

@red

#9d261d

@yellow

#ffc40d

Typography

@sansFontFamily

'Helvetica Neue', Helvetica, Arial, f

@serifFontFamily

Georgia, 'Times New Roman', Times, se

@monoFontFamily

Menlo, Monaco, 'Courier New', monospa

@baseFontSize

14px

@baseFontFamily

@sansFontFamily

@baseLineHeight

20px

@altFontFamily

@serifFontFamily

@headingsFontFamily

inherit

@headingsFontWeight

bold

@headingsColor

inherit

Form states & alerts

@warningText

#c09853

@warningBackground

#fcf8e3

@errorText

#b94a48

@errorBackground

#f2dede

@successText

#468847

@successBackground

#dff0d8

@infoText

#3a87ad

@infoBackground

#d9edf7

Navbar

@navbarHeight

40px

- [1. Choose components >](#)
- [2. Select jQuery plugins >](#)
- [3. Customize variables >](#)
- [4. Download >](#)

3px

@inputDisabledBackground

@grayLighter

@formActionsBackground

#f5f5f5

@btnPrimaryBackground

@linkColor

@btnPrimaryBackgroundHighlight

darken(@white, 10%)

4. Download

[Customize and Download](#)

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聰明些的辦法



參數設定



Bootstrap 樣式

融合
編譯 (?)



自定樣式 Bootstrap

使用 bootstrap-sass

- * 先安裝 bootstrap-sass gem 套件（一次性）
 * `gem install bootstrap-sass`
- * 建立 compass 專案（每個網站一次即可）
 * `compass create 專案名稱 -r bootstrap-sass --using bootstrap`
- * `compass watch` （工作前打這個）

variables.scss

- * 套用下面 HTML，改 _variables.scss 看效果
- * <http://getbootstrap.com/examples/carousel/>

特別感謝

- * 薛良斌前輩 (h1b) 提供 SCSS 範例
- * <https://gist.github.com/h1b/6076665>
- * <http://iamh1b.com/about>