



Molecular Biomedical Informatics

分子生醫資訊實驗室

Web Programming

網際網路程式設計

# Design Pattern

## 設計模式

# Design pattern

- User interface design is getting important
  - user experience (UX, 使用者體驗)
  - Human-Computer Interface (HCI, 人機介面)
  - to stay current, you need to keep an eye on trends, new resources, and new techniques being implemented and talked about
- Looking at the solutions others have already come up with for common UI challenges
  - help you find the right existing solution
  - serve as the basis for coming up with something new and original

A close-up photograph of numerous candy canes with red and white stripes, arranged in a dense, overlapping pile. The background is a solid, vibrant red. The candy canes are curved and have a glossy finish.

Compared to visual candies, in my original syllabus, which include gradients, rounded borders and ribbons, design patterns are more fundamental and important

# Design pattern libraries

- User Interface Design Patterns
- Pattern Tap
- Patternry
- Mephobox

# Prototyping/mockup resources

## 製作原型的資源

## Untitled Page

Home

| Yahoo

| Microsoft

| Apple

Item One

Item Two

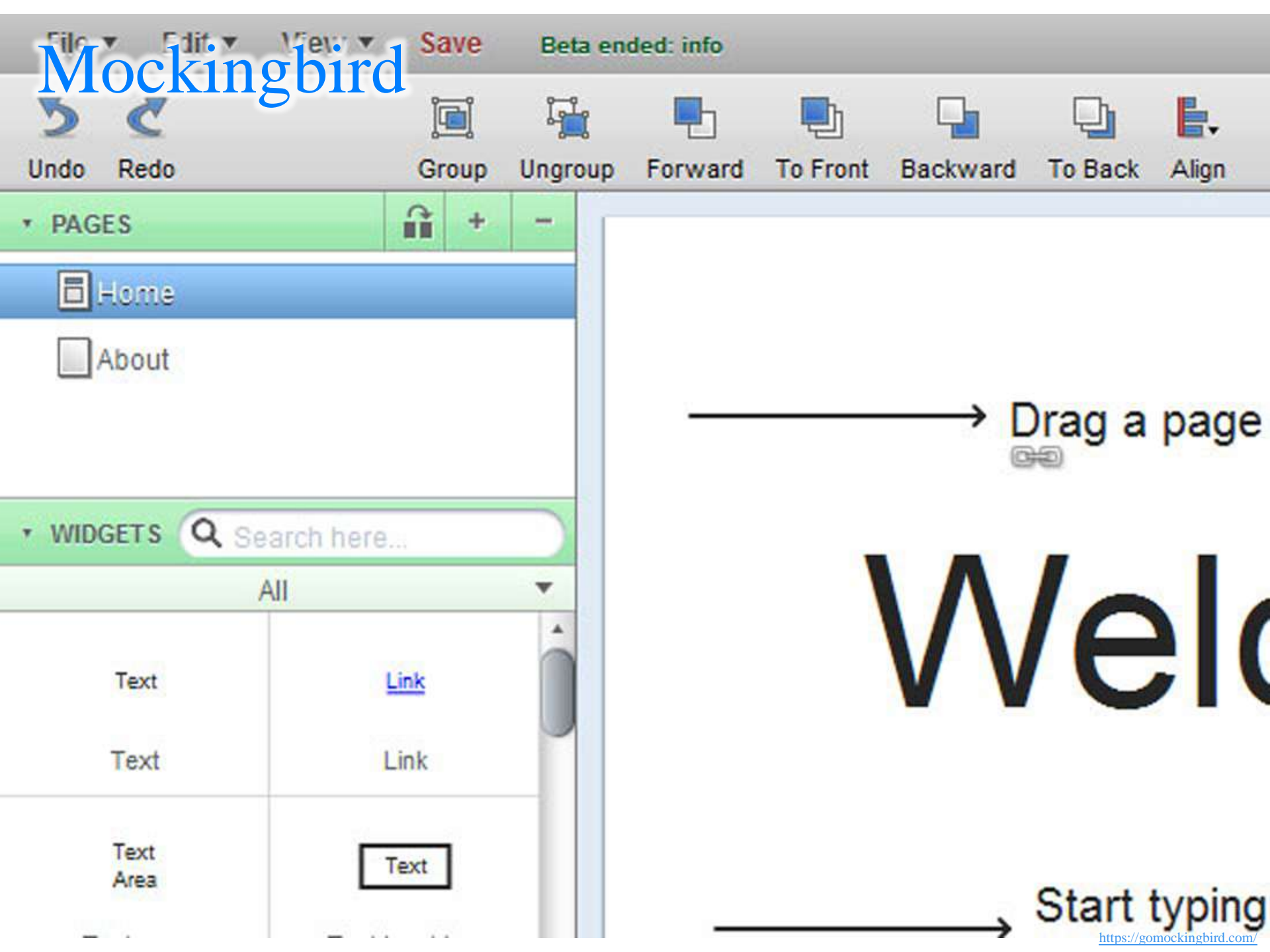
Item Three

Item Four

Name	Sex	Age
John Paul	Male	23
Chin Juan	Female	28
Klin Edwards	Male	34
Sandra Wilcox	Female	31

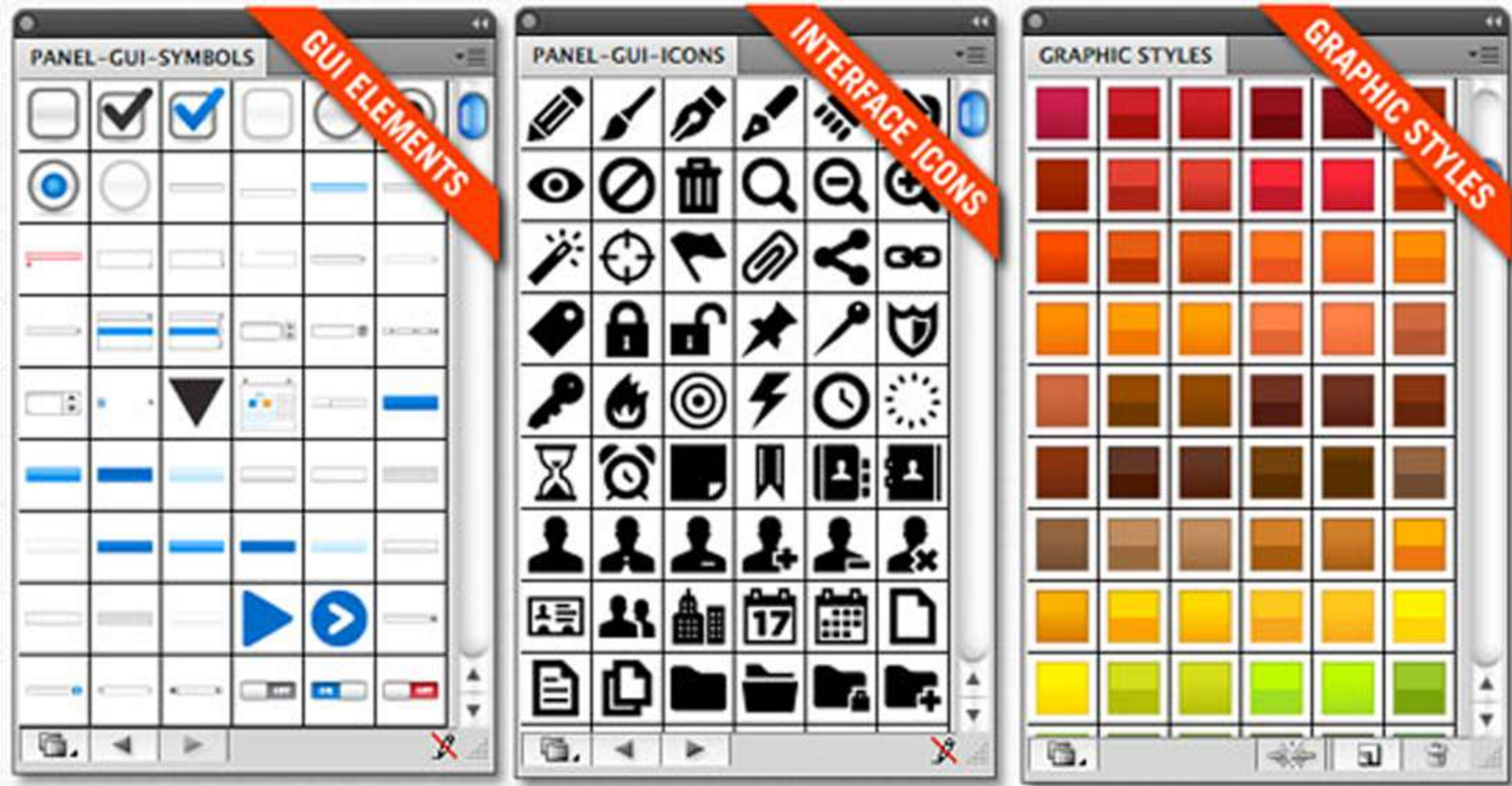


# Mockingbird





# UI Design Framework for Illustrator



# Android Asset Studio

Android Asset Studio » Icon generators » **Launcher icons**

The **launcher icon generator** will create icons that you can use in your Android application, from a variety of source images. To begin, simply enter the input details below. Output will be shown below.

Foreground

Image

Clipart

Text

Trim

Trim

Don't Trim

Padding

Foreground scaling

Crop

Center

Shape

Square

Circle

Background color



# Unique Mobile UI Design Elements





# Android UI Elements Set



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



Icon Text



- ▶ Levels Presets
- ▶ Curves Presets
- ▶ Exposure Presets
- ▶ Hue/Saturation Presets
- ▶ Black & White Presets
- ▶ Channel Mixer Presets
- ▶ Selective Color Presets



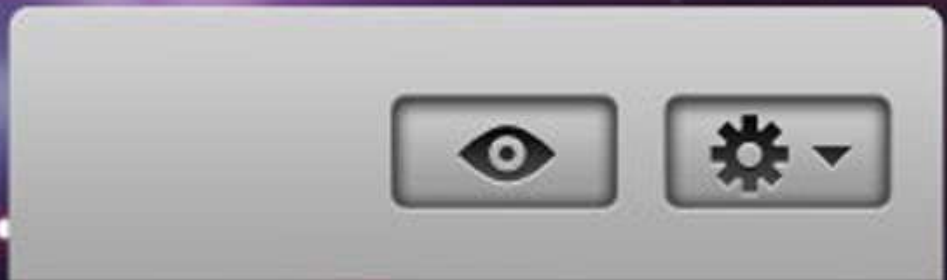
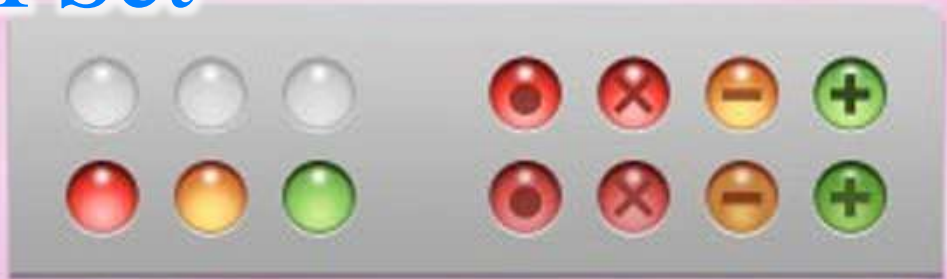
LAYERS CHANNELS PATHS

Pass Through ▼ Opacity:

Lock: Fill:

- ▶ EDITABLE
- ▶ CONTEXT
- ▶ KEYBOARD
- ▶ STATES

# OSX Leopard GUI Set



# Design pattern is not for web only

- Some handset devices (smart phones) can share similar design patterns with web sites
- Tablets are more like web sites, where the most difference is the touch screen
  - compatible screen resolutions, no hover event
  - actually touch screens could be a necessary facility for desktops in the near future
  - consider to depend on as less keyboard as possible
- Desktops, sure! Why not to learn from the most senior platform?
  - many web applications were inspired by Apple products



# THE ALL IN ONE WEB ELEMENTS KIT

HOME SERVICES BLOG PORTFOLIO STORE CONTACT

keywords to search



t-shirts | stickers | badges | dvd and cd | prints | digital goods | most popular

shopping cart is empty



## Lorem ipsum dolor sit amet

Curabitur sed sapien sed nunc cursus hendrerit sed in sapien. Aliquam ac vel quam, at volutpat ligula. Duis justo elit vestibulum a suscipit quis, congue ut sapien. Nam nec nisi lectus.

Pellentesque nec sem odio, nec suscip diam. Donec feugiat dignism nibh vitae tincidunt. Fusce ullamcorper, massa id rhoncus pulvinar, orci justo viverra sem, in sagittis dui magna eget nulla.

ADD TO CART

BUY NOW

SHOP FOR  
SIMILAR

ADD TO CART

BUY NOW

ADD TO CART

BUY NOW

ADD TO CART

BUY NOW

ADD TO CART

BUY NOW

ADVANCED SEARCH

Product Name

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris sit amet congue sem, euismod magna. In feugiat luctus, elit erat cursus ipsum, in ultricies

Web Programming 網際網路程式設計

START SEARCH

START SEARCH

Tabbed Message

Lorem ipsum dolor sit amet, consectetur

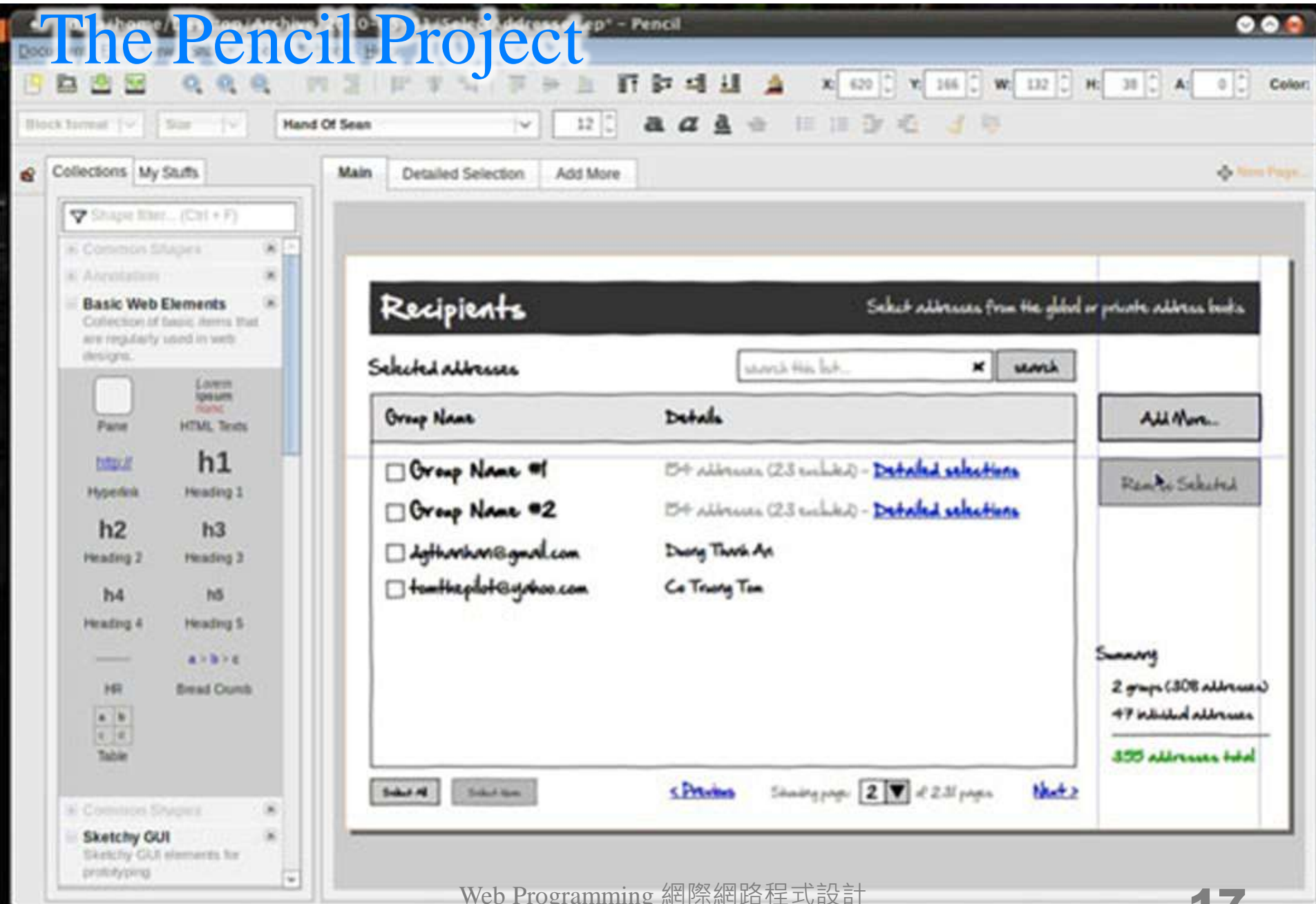
15



# iPad GUI Set



# The Pencil Project



# Feedback tools

- Concept Feedback

- post your designs and concepts and get free feedback from the design community

- Landing Page Optimization

- get feedback from real people on your landing page's 5-second impression

- Questionnaire systems such as Google Docs, Wufoo and Typeform

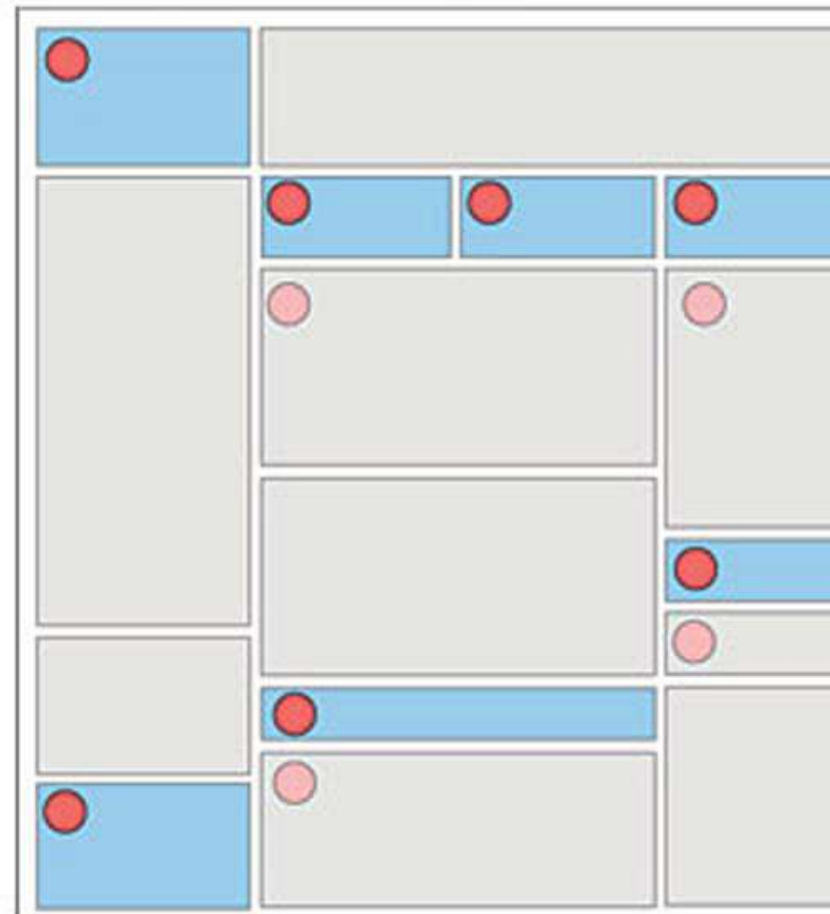
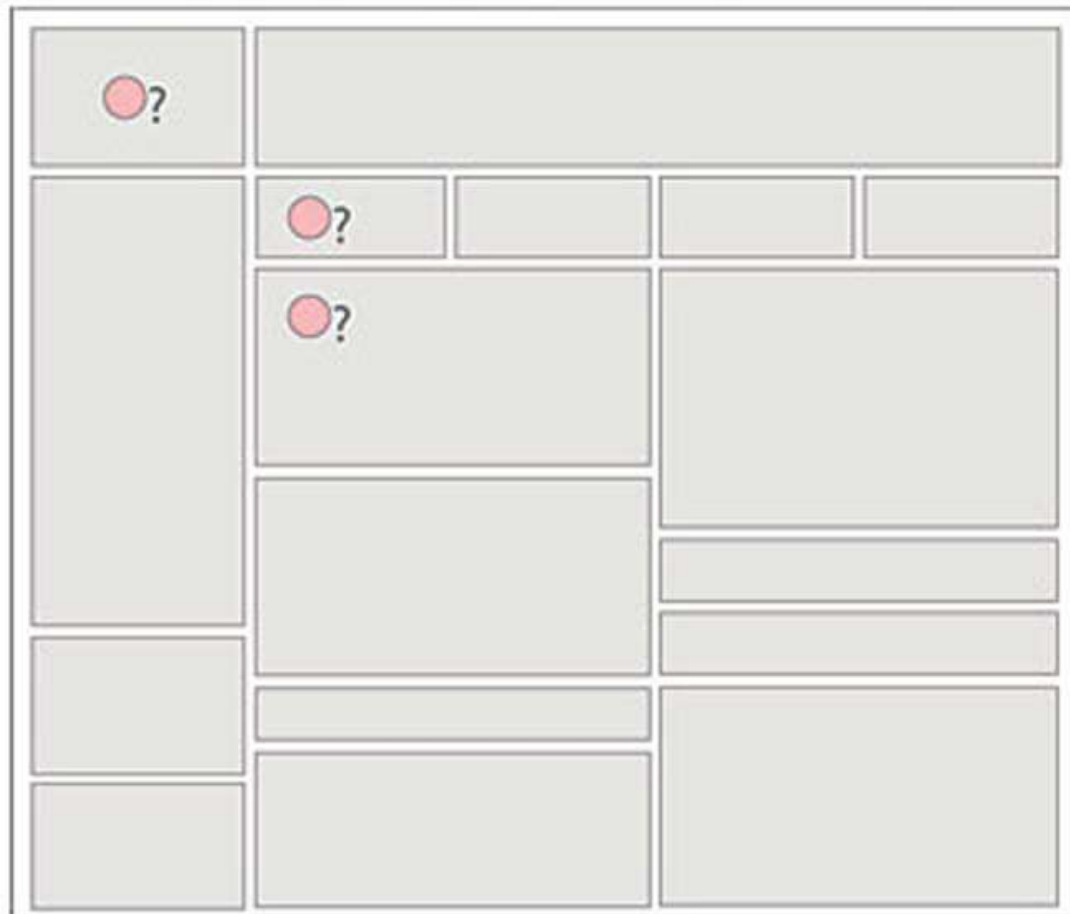
# Some frameworks include them

- Foundation
- DHTMLX
- Dojo
- ZK
- jQTouch
- Scripty 2
- Echo 3
- Midori

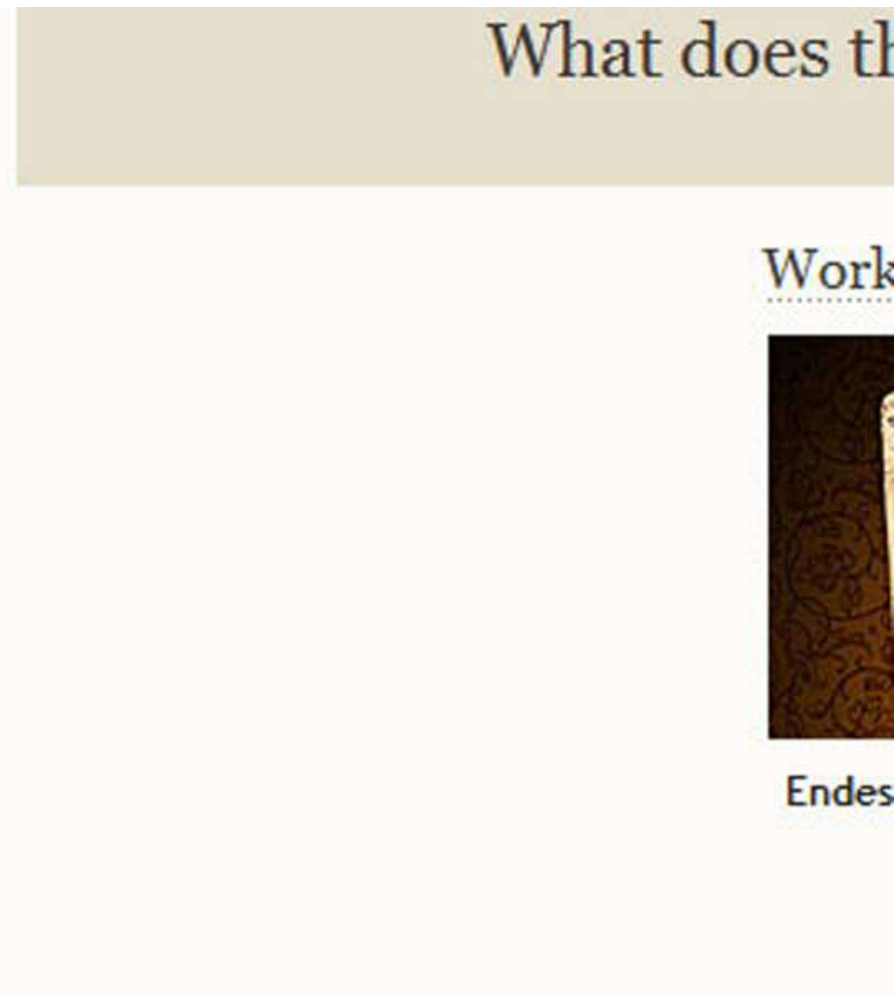
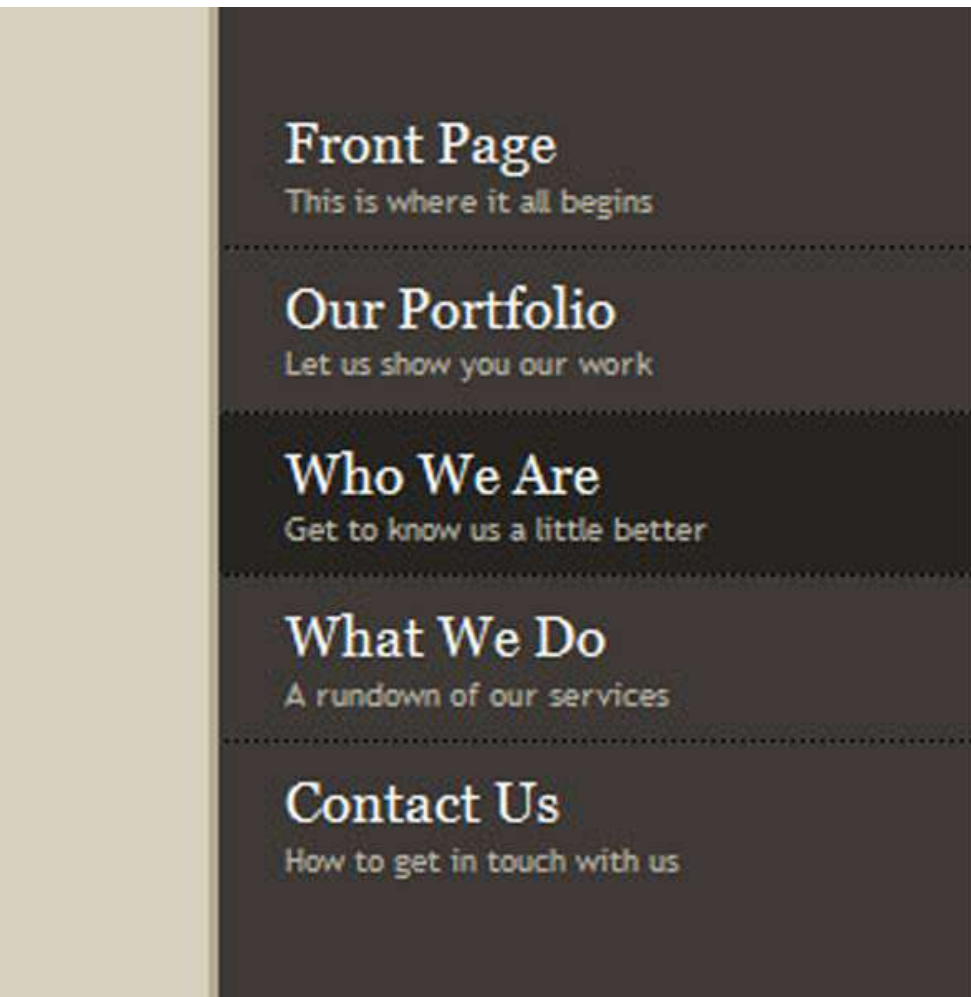
# Dive into some design patterns

## 深入一些設計模式

# Page grids



# Vertical navigation bar





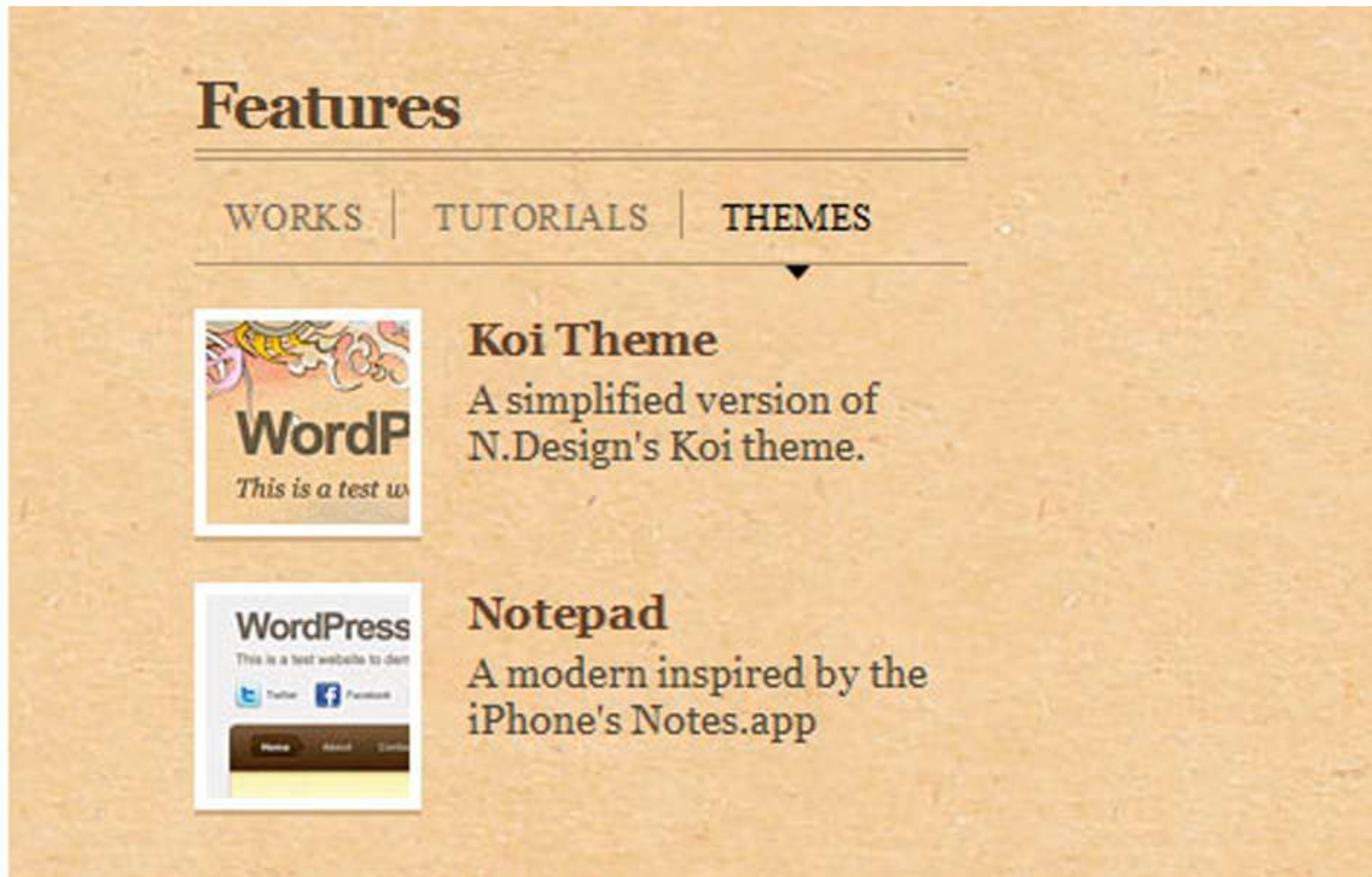
# Horizontal navigation bar





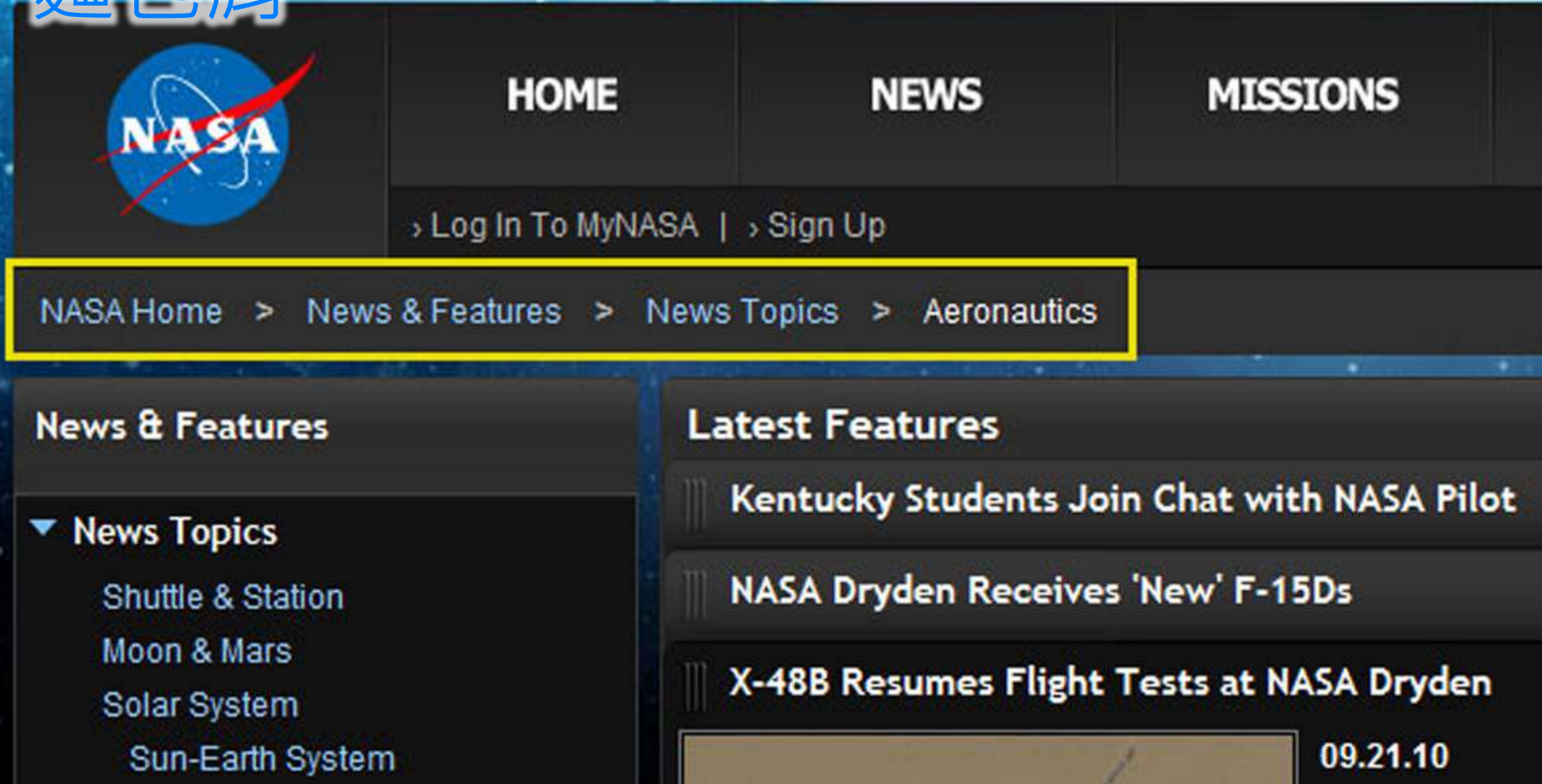
Any difference between the above two?

# Tabs



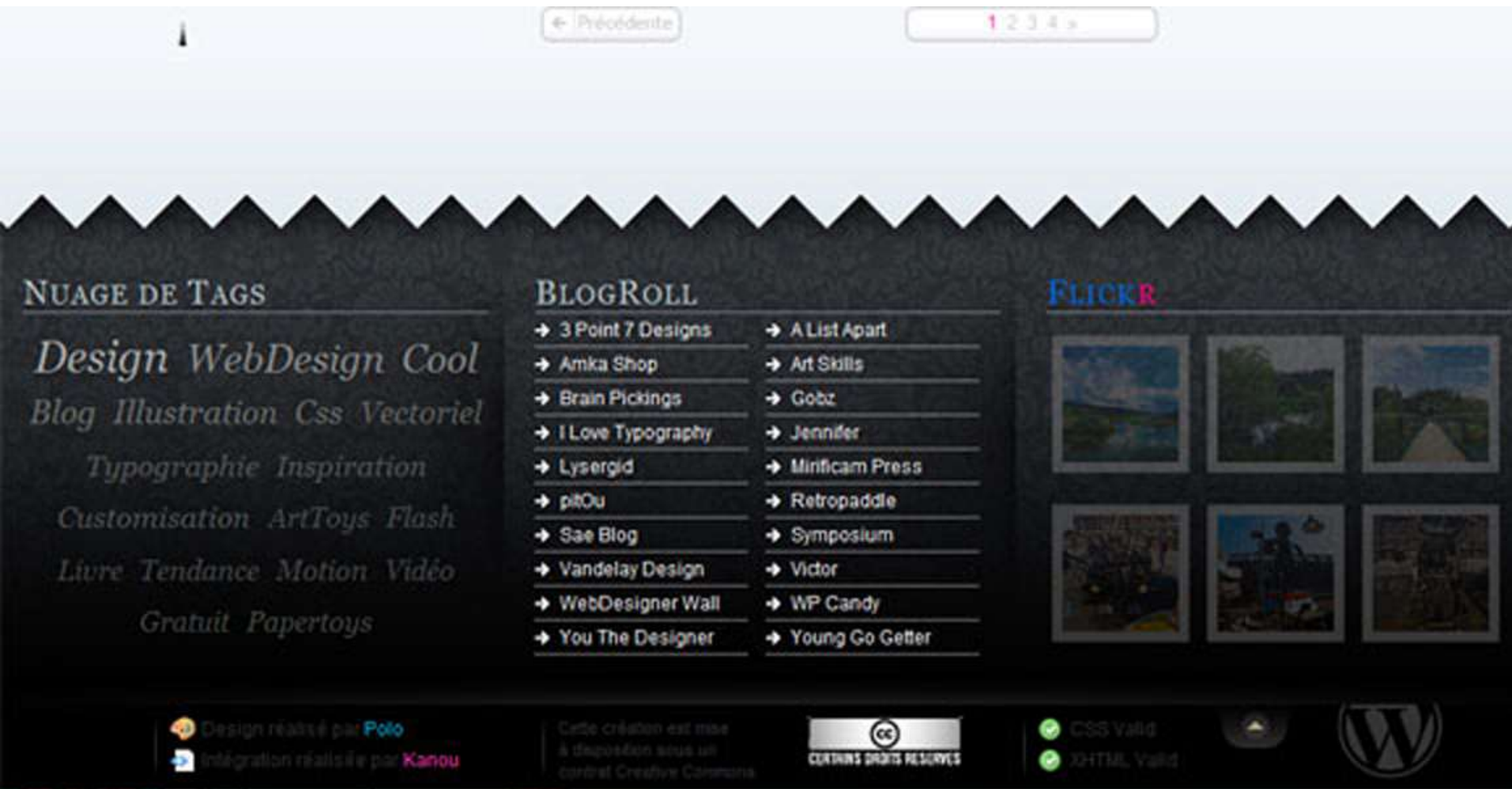
# Breadcrumbs

## 麵包屑





# Content footer



# Pagination

there will help you improve your graphic design skills in Adobe Photoshop. And sincere t  
designers and developers whose articles are featured in this review. We respect and a  
contributions to the design community, folks!

[Read more...](#)

1 2 3 4 5 6 7 8 9 10 [next »](#)

Categories

Information

Content

C

# Lazy registration

ies  
tos.

otos with unlimited storage  
share with friends  
favorite Social Network

## Sign Up

It's free and anyone can join!

Full Name

Your Email

New Password

By clicking Sign Up, you are consenting to our [Terms of Use](#) and the receipt of email newsletters and account updates from Slide. [Privacy Policy](#)












**Sign Up**



# Information dashboard

## 儀表板

Get your most possible info, your accounts are now updating... this will only take a moment.


ACCOUNTS		Update	Edit
▼  Cash	\$1.25		
US Bank Spending	\$5.23 4 days ago		
PayPal PayPal Balance	\$0.00 3 days ago		
US Bank Savings	-\$3.98 4 days ago		
▶  Credit Cards	-\$235.00		
▶  Loans	-\$10,470.09		
▶  Investments	\$0.00		
▶  Property	\$0.00		

ALERTS		Change your alerts	Set up mobile delivery
!	US Bank - Savings charged you Maintenance Fee of \$4.00.	SEP 24	
!	US Bank - Credit charged you Overdraft Protection Fee of \$10.00.	SEP 22	
!	Check 166 for \$255.00 has cleared your US Bank - Spending account.	SEP 21	

BUDGET SEPTEMBER 2010				
	0%	100%	BUDGET	OVER?
Total	-\$259		\$465	\$724 left
Mortgage & Rent	-\$170		\$255	\$425 left
Clothing		\$61	\$65	\$3 left
Utilities	-\$100		\$50	\$150 left
Hair		\$35	\$35	\$0 left
Coffee Shops	-\$25		\$30	\$55 left
Pet Food & Supplies	-\$40		\$20	\$60 left
Insurance	-\$30		\$10	\$40 left


# Form wizard

## 精靈

 WE LOVE TO PRINT







[\(0\)](#) | [Manage your orders](#)




[Products](#) [Designs](#) [Ready Made](#) [Blog](#) [Help](#) [About](#)

 You are designing some Business Cards from €48.05

1. Design cards 2. Add text 3. Choose paper 4. Check preview & add to cart

Choose a template and input your contact details.

Change template  Colour  Reverse colours  Font **Modern** Alignment   

[Add image or logo](#)  Zoom   [Clear image](#)

e.g. Name ☐ **Bold**

e.g. Position ☐

e.g. Phone ☐

e.g. Email ☐

e.g. Website ☐

# Auto-complete/auto-suggest

自動完成

Please select your country

e|



ECUADOR



EGYPT



EL SALVADOR



EQUATORIAL GUINEA



ERITREA

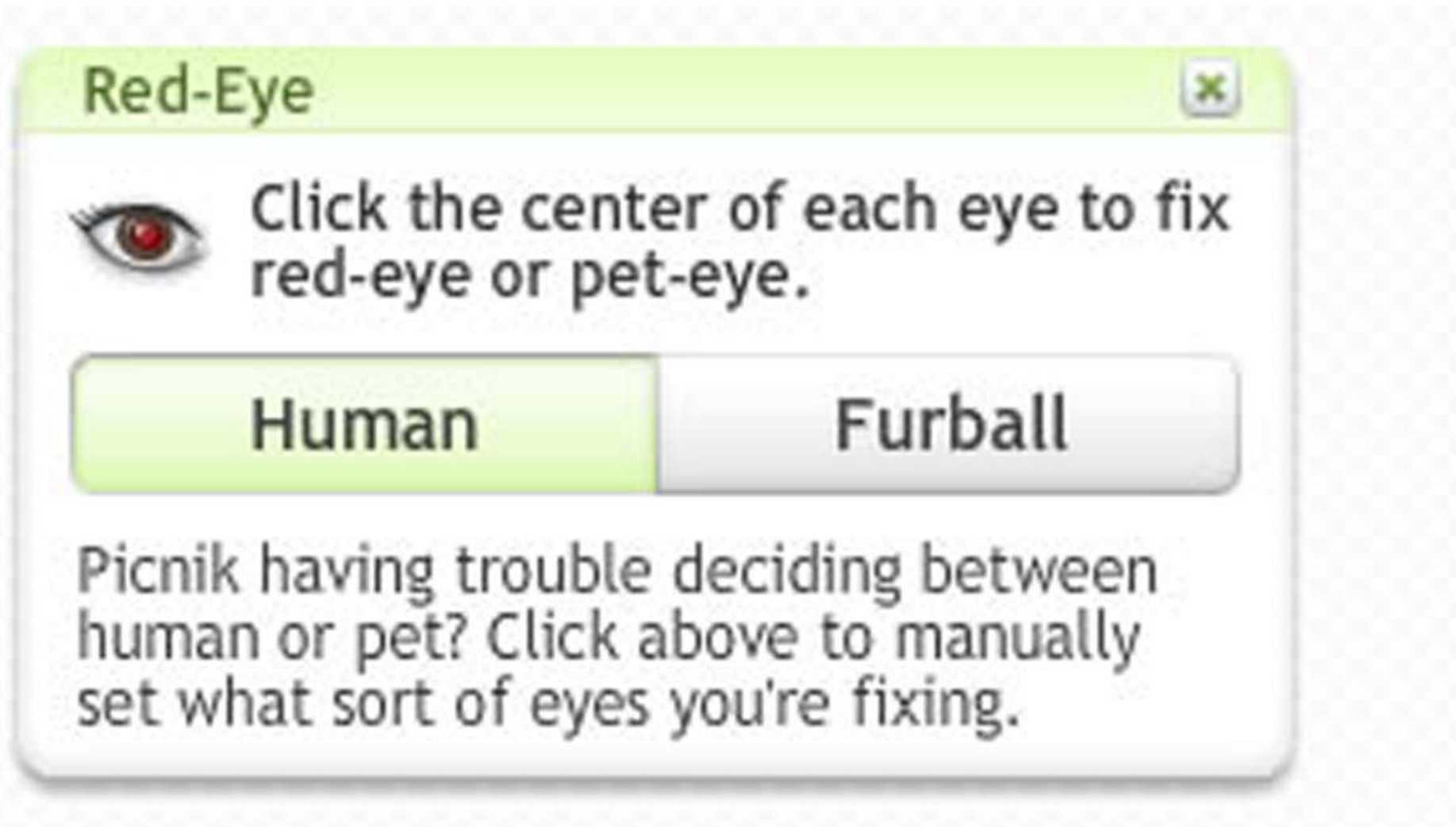


ESTONIA

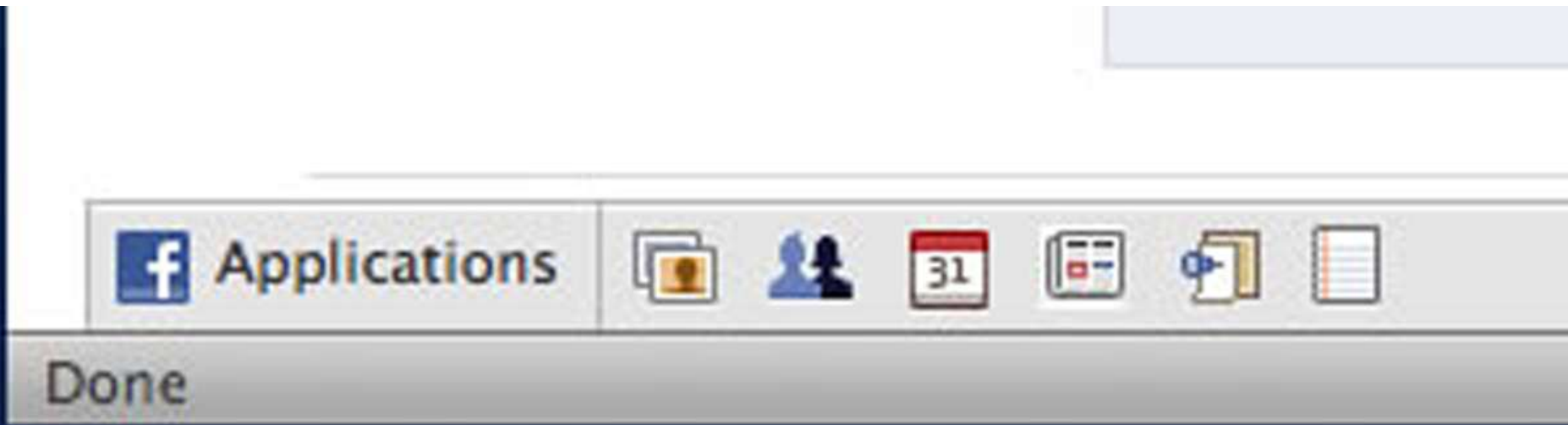


ETHIOPIA

# Dialog



# Floating footer



# Progress indicator

Loading Sample Data



# Rating



2. Rating: **3.2/5** (15 votes cast) Thanks for v





# Scoped search

Everything ▼

 Search

## Search:

☒ Everything

☐ Updates

☐ Photos

☐ Videos

☐ Audio

# Visual candies

- Back to visual candies, they are more like answering the question “how to make xxx more beautiful?”
- For example, you decided to use a horizontal navigation bar, just [Google “horizontal navigation bar web showcase”](#) and you will find [Navigation Menus: Trends and Examples](#)
  - the exact name is not important as Google is so smart
  - that’s why you need to first know which design patterns are already developed and used



## Style vs. quality

There are many ways to improve the quality of your web site. But, it's your responsibility to decide the style. Sometimes, “low quality” is also a kind of style.



Any Questions?

# Today's assignment

## 今天的任務



# Enhance the user experience

- Re-think about your user interface (widgets, transitions...) and refine those not so reasonable and those having better solutions available. Please (re-)design all pages of your site. If you have no preference of above-mentioned patterns, please add a modal dialog to show some News of your site.
- Reference
  - [40+ UI Design Tools and Resources](#)
  - [15 UI Design Patterns Web Designers Should Keep Handy](#)
  - [43 Essential Controls for Web Applications](#)
- Your web site (<http://merry.ee.ncku.edu.tw/~xxx/cur/>, ex9) will be checked not before 23:59 12/2 (Sun). You may send a report (such as some important modifications) to [me](#) in case I did not notice your features.

# Appendix

## 附錄

# Two modern patterns

- Many teams used [maps](#)
  - is it a design pattern? sure, of course you can count it in
  - [MigrationsMap.net](#) is developed for the author to learn and have fun with HTML5 technologies
  - Knowing the dependent technologies is also helpful for us
    - [Raphael.js](#), [Color Brewer](#), [Hasher.js](#) and [Modernizr](#)
- Another fancy UI that I will use in my future web sites
  - [jQuery.fracs](#) determines the fraction of an HTML element that is currently in the viewport, as well as the fraction it takes of the complete viewport and the fraction of the area that might possibly be visible