

# Web Programming

## 網際網路程式設計

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# 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



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

Home

Yahoo

Microsoft

Apple

Item One

Item Two

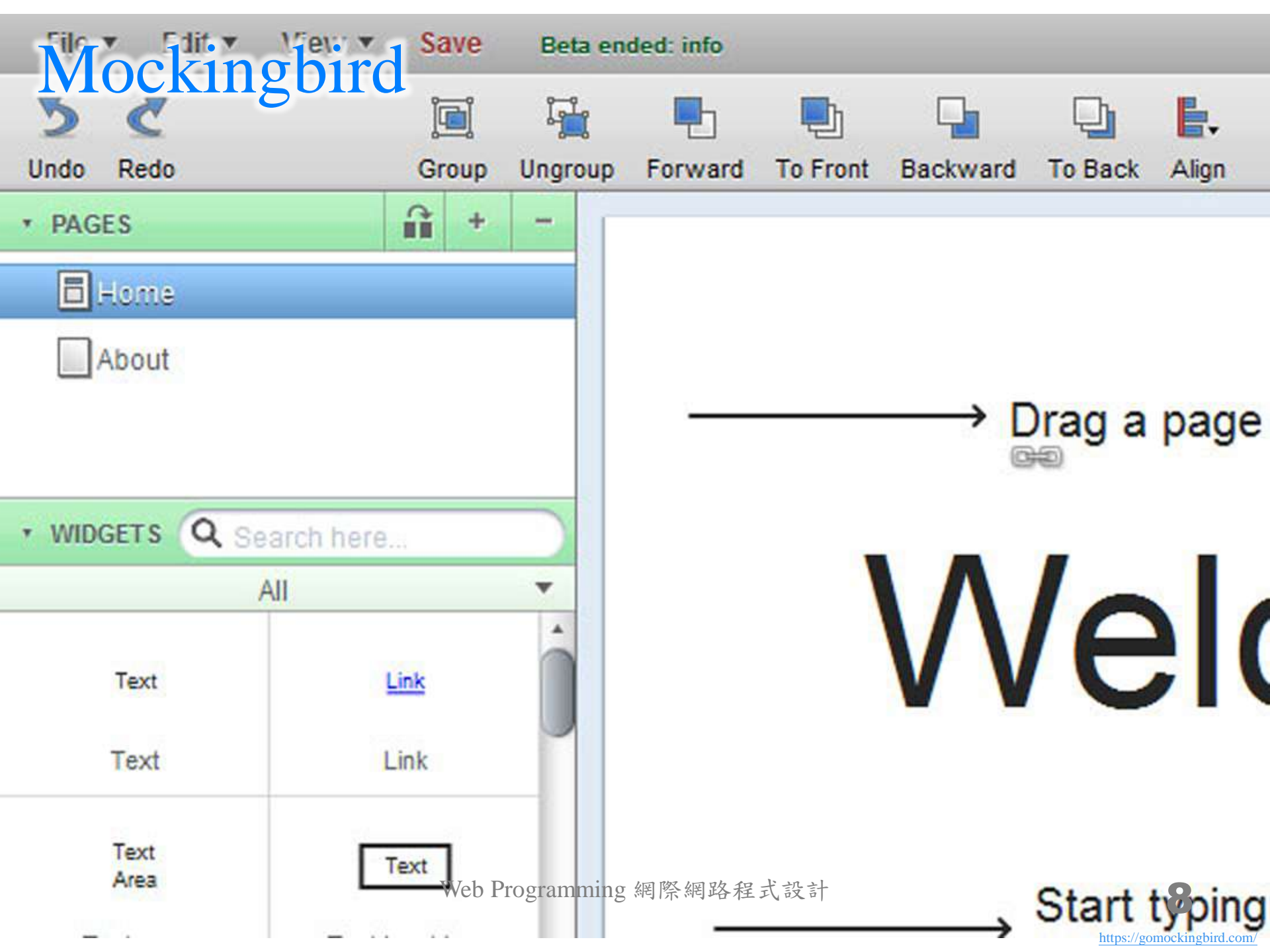
Item Three

Item Four

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



# Mockingbird



Undo Redo

Group Ungroup

Forward To Front

Backward

To Back

Align

PAGES

Home

About

WIDGETS

Search here...

All

Text

Link

Text

Link

Text Area

Text

Drag a page

Welcome

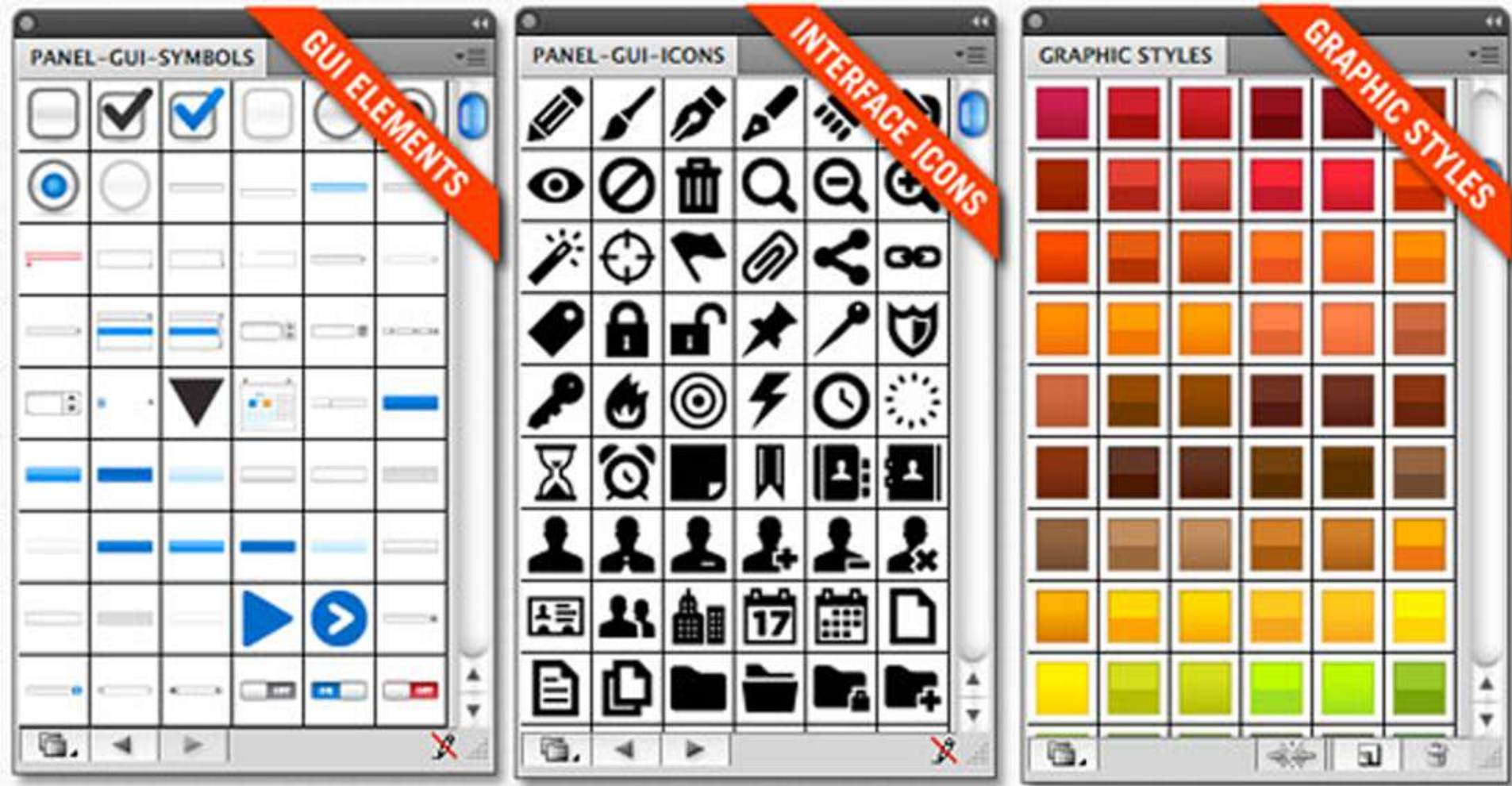
Start typing

Web Programming 網際網路程式設計

<https://gomockingbird.com/>



# UI Design Framework for Illustrator



# Android Asset Studio

## 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



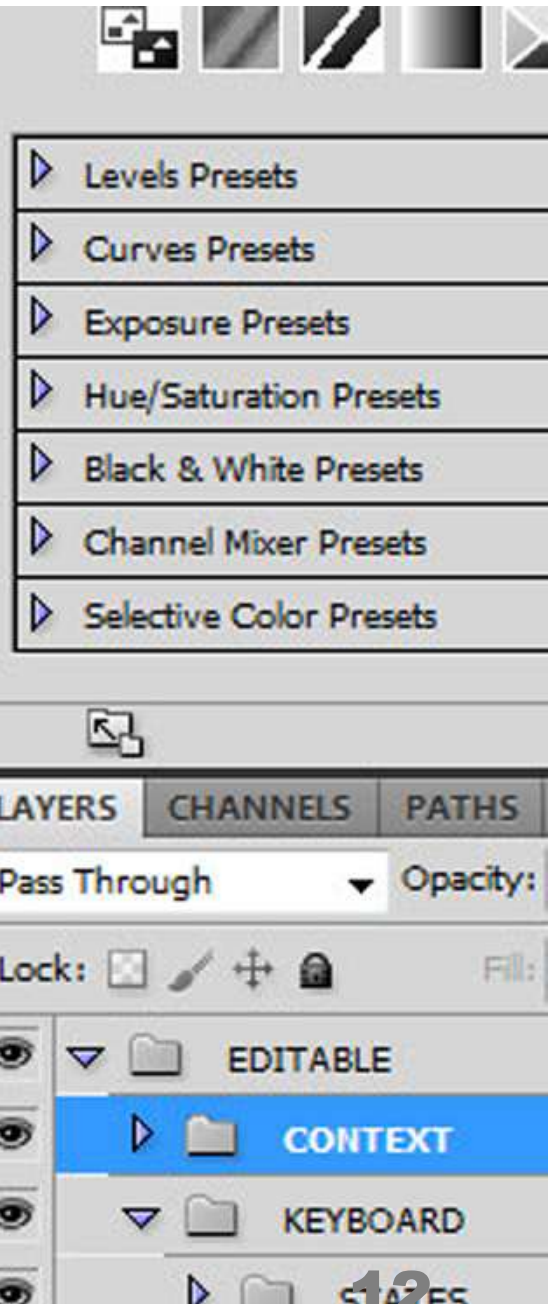
Icon Text



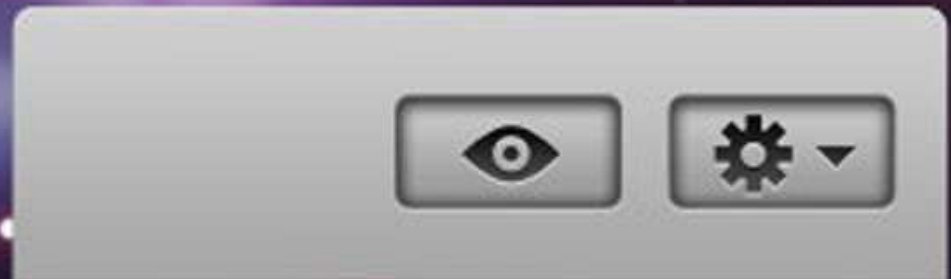
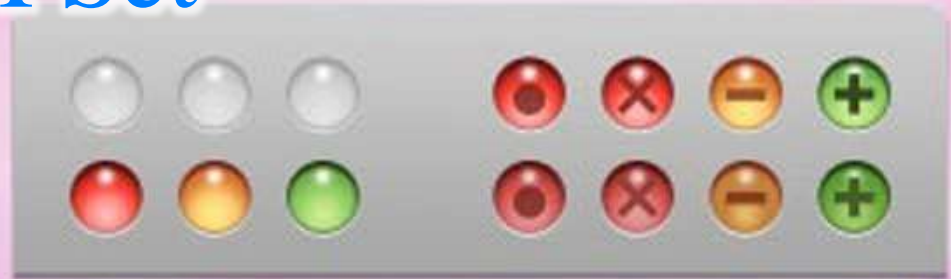
Icon Text



Icon Text



# OSX Leopard GUI Set

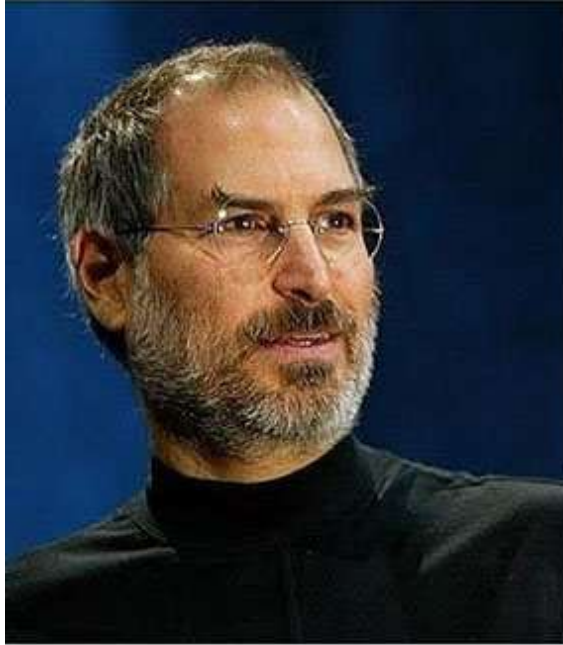


# Design pattern is **not** for web only

- 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

Become a Hipster  
Sell Stolen Ideas

Invent C  
and UNIX



Praised by Media as  
Jesus of Computing

Ignored

Without Steve Jobs (February 24, 1955 – October 5, 2011) we would have:

No iProducts  
No over expensive laptops

Without Dennis Ritchie (September 9, 1941 – October 12, 2011) we would have:

No Windows  
No Unix  
No C  
No Programs  
A large setback in computing  
No Generic-text Languages.  
We would all read in Binary..

They died in the same year and the same month but it seems only few notice the death of Dennis Ritchie compared to Steve Jobs.

Web Programming 網際網路程式設計



# 今年似乎不少名人辭世



# 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 hendrent 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 dignisim nibh vitae lincidunt. Fusce ullamcorper, massa id rhoncus pulvinar, oro 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... Web Programming 網際網路程式設計

START SEARCH

START SEARCH

Tabbed Message

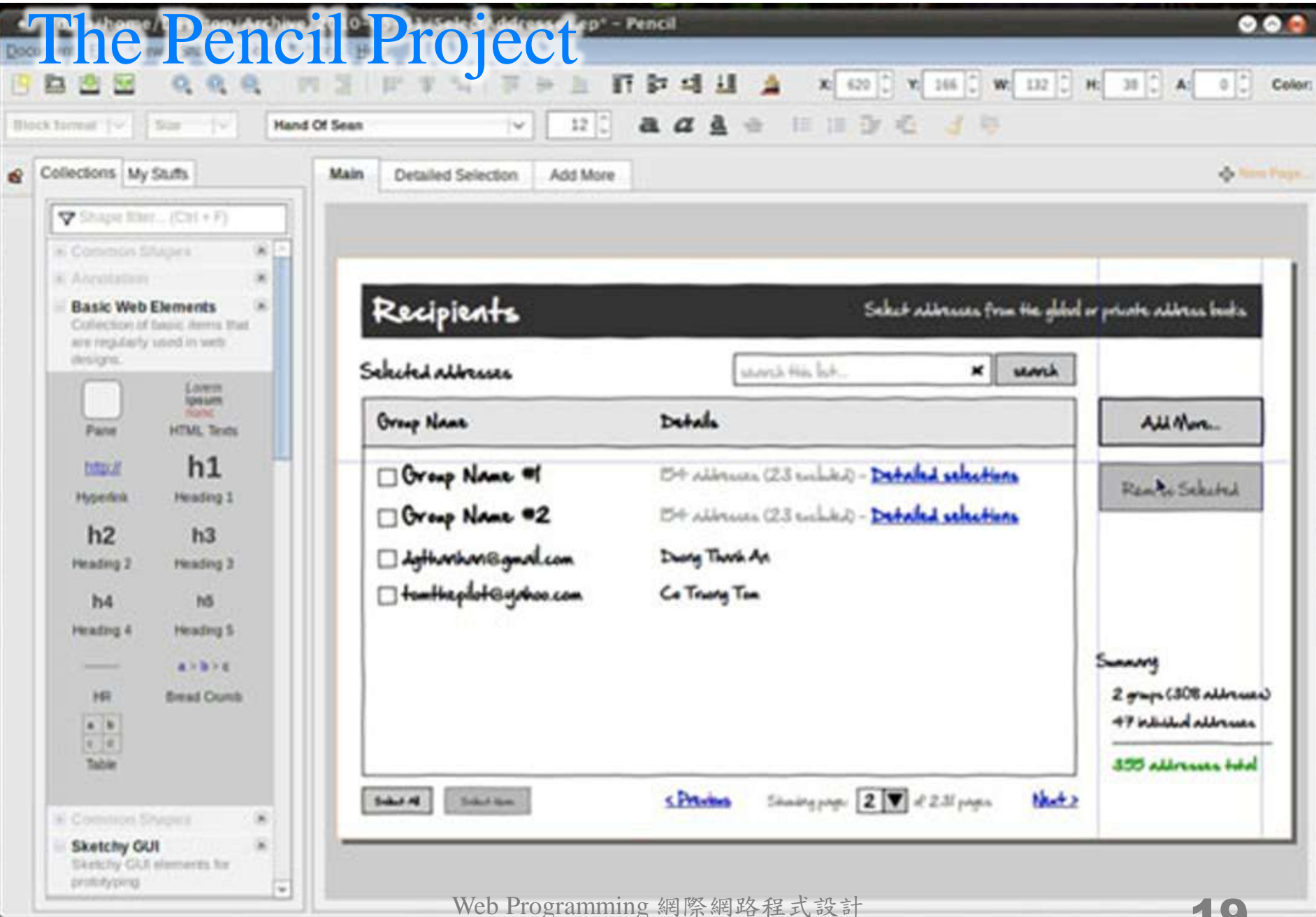
17  
Lorem ipsum dolor sit amet, consectetur.



# 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 and Wufoo

# Some frameworks include them

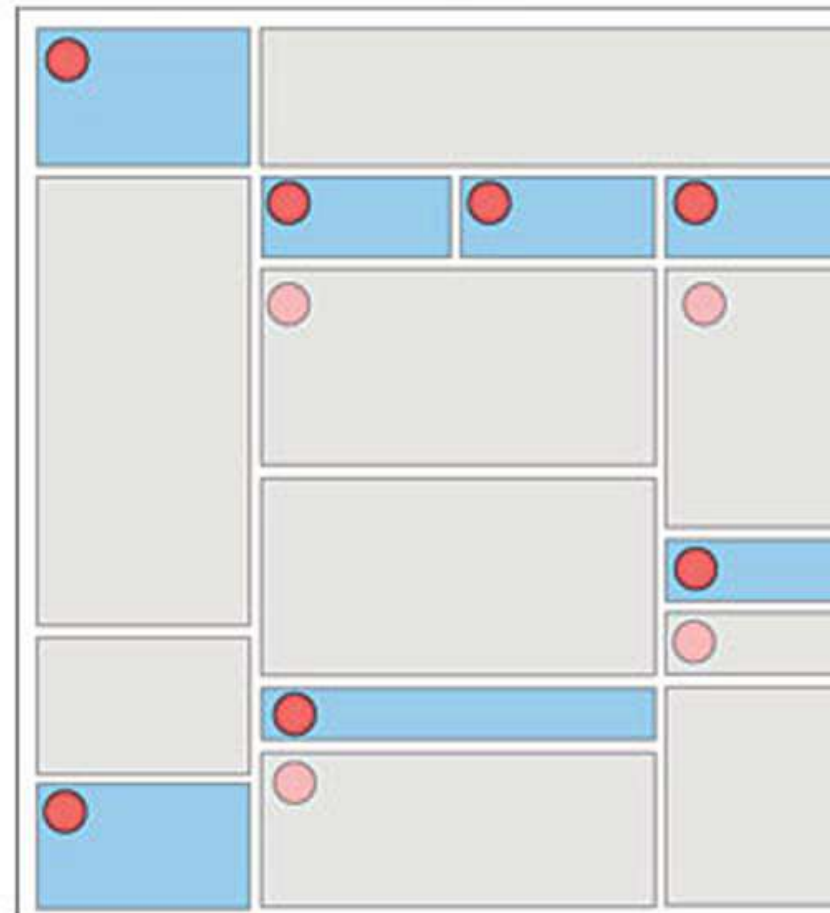
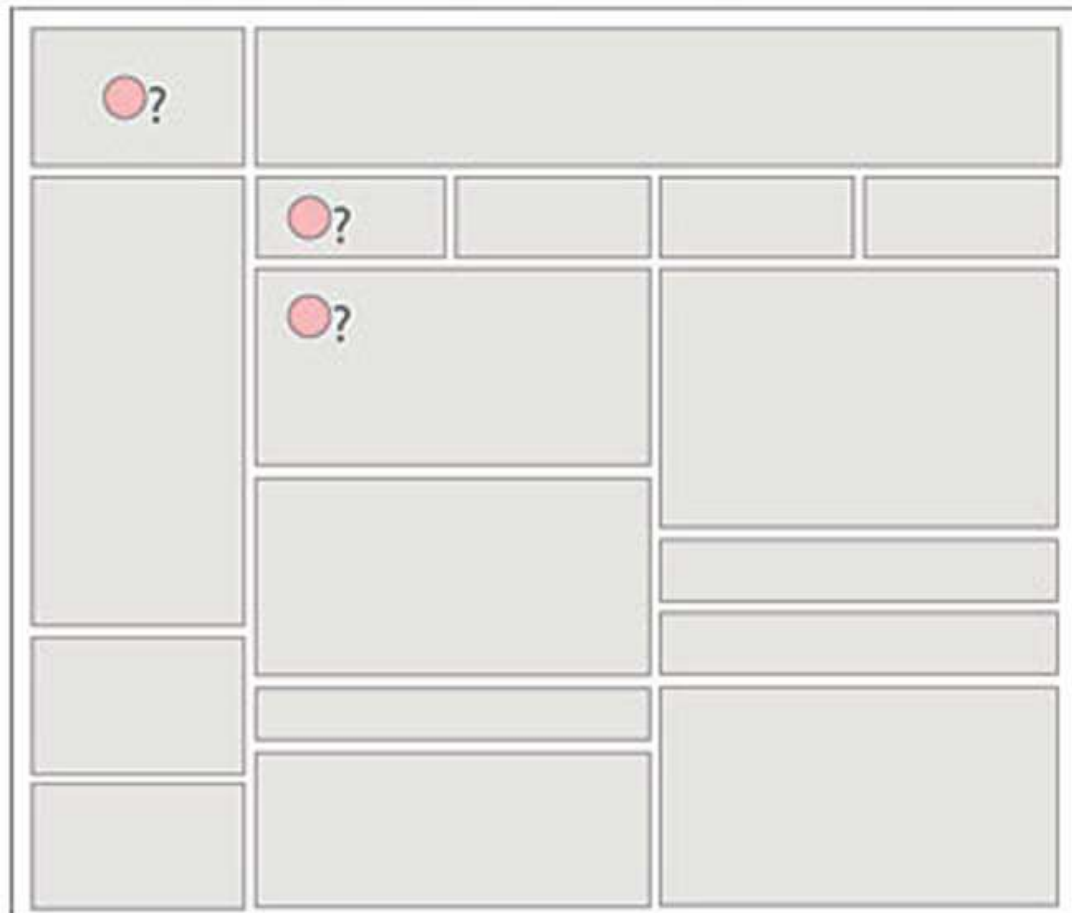
- Foundation
- DHTMLX
- Dojo
- ZK
- jQTouch
- Scripty 2
- Echo 3
- Midori

# Dive into some design patterns

## 深入一些設計模式



# Page grids



# Vertical navigation bar

## Front Page

This is where it all begins

## Our Portfolio

Let us show you our work

## Who We Are

Get to know us a little better

## What We Do

A rundown of our services

## Contact Us

How to get in touch with us

What does th

Work

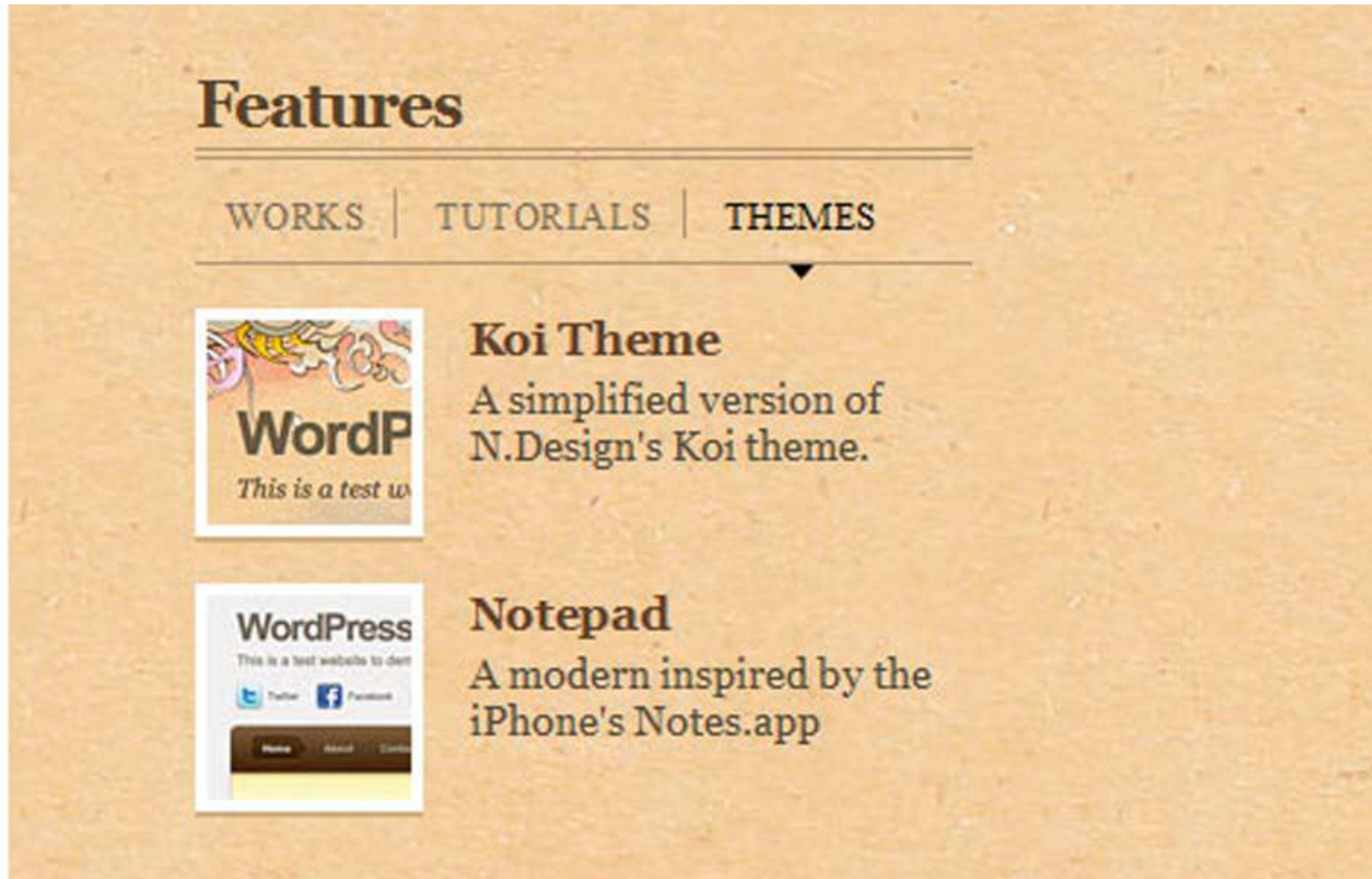


Endes

# Horizontal navigation bar



# Tabs



# Breadcrumbs

## 麵包屑

The screenshot displays the NASA website's navigation and content areas. At the top left is the NASA logo. To its right are navigation buttons for HOME, NEWS, and MISSIONS. Below these are links for 'Log In To MyNASA' and 'Sign Up'. A yellow-bordered box highlights the breadcrumb trail: NASA Home > News & Features > News Topics > Aeronautics. On the left, a 'News & Features' sidebar includes a 'News Topics' dropdown menu with options: Shuttle & Station, Moon & Mars, Solar System, and Sun-Earth System. On the right, a 'Latest Features' section lists three news items: 'Kentucky Students Join Chat with NASA Pilot', 'NASA Dryden Receives 'New' F-15Ds', and 'X-48B Resumes Flight Tests at NASA Dryden', with a date of 09.21.10.

**NASA**

**HOME**      **NEWS**      **MISSIONS**

> Log In To MyNASA | > Sign Up

NASA Home > News & Features > News Topics > Aeronautics

**News & Features**

▼ News Topics

- Shuttle & Station
- Moon & Mars
- Solar System
- Sun-Earth System

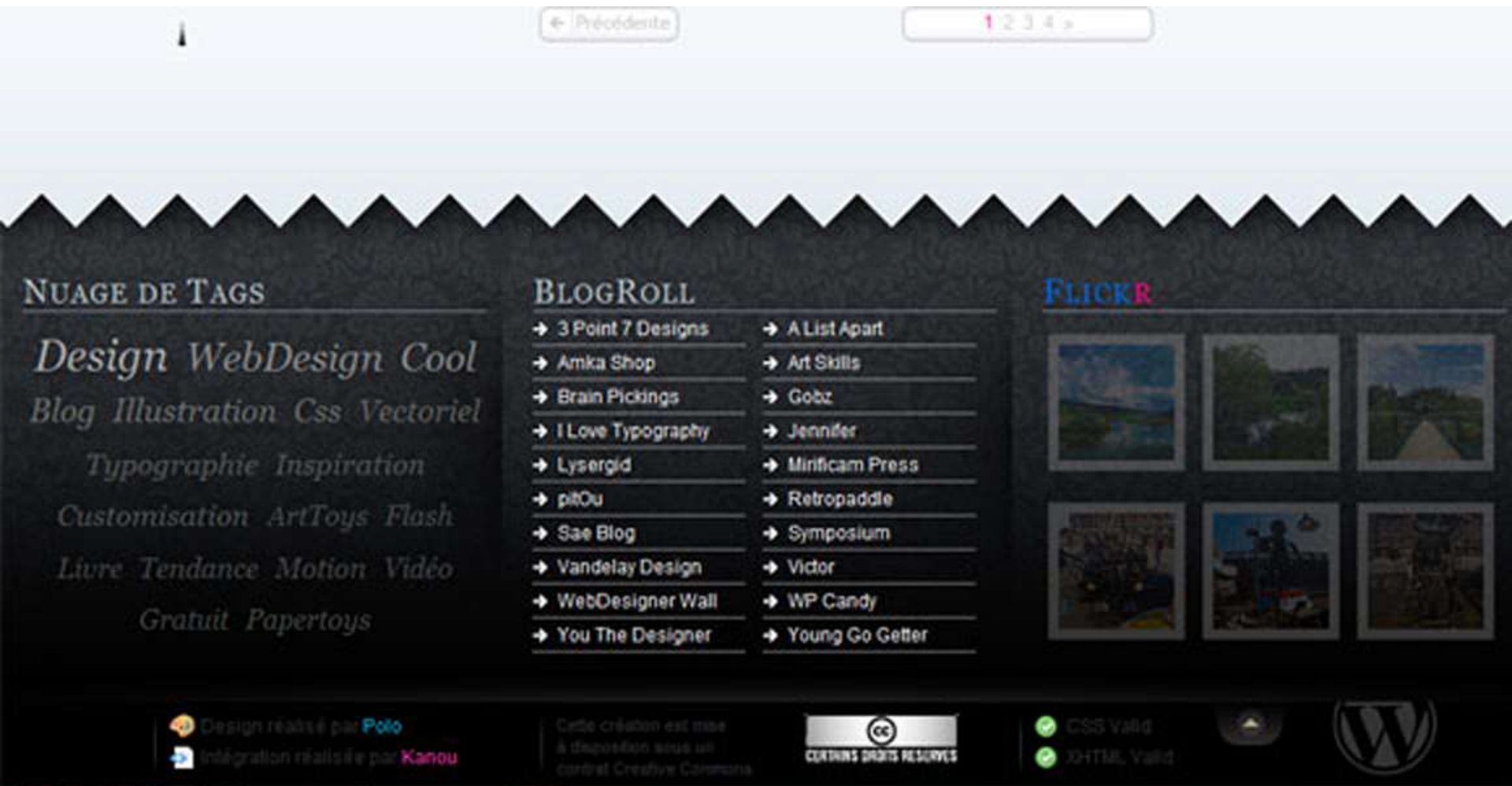
**Latest Features**

- ||| Kentucky Students Join Chat with NASA Pilot
- ||| NASA Dryden Receives 'New' F-15Ds
- ||| X-48B Resumes Flight Tests at NASA Dryden

09.21.10



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

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

ALERTS		Change your alerts	Set up mobile delivery
! US Bank - Savings charged you Maintenance Fee of <b>\$4.00</b> .	SEP 24		
! US Bank - Credit charged you Overdraft Protection Fee of <b>\$10.00</b> .	SEP 22		
! Check 166 for <b>\$255.00</b> 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	\$4 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	-\$10		\$10	\$0 left

# Form wizard

精靈



(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

IA

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

Please select your country

自動完成

e|



ECUADOR



EGYPT



EL SALVADOR



EQUATORIAL GUINEA



ERITREA



ESTONIA

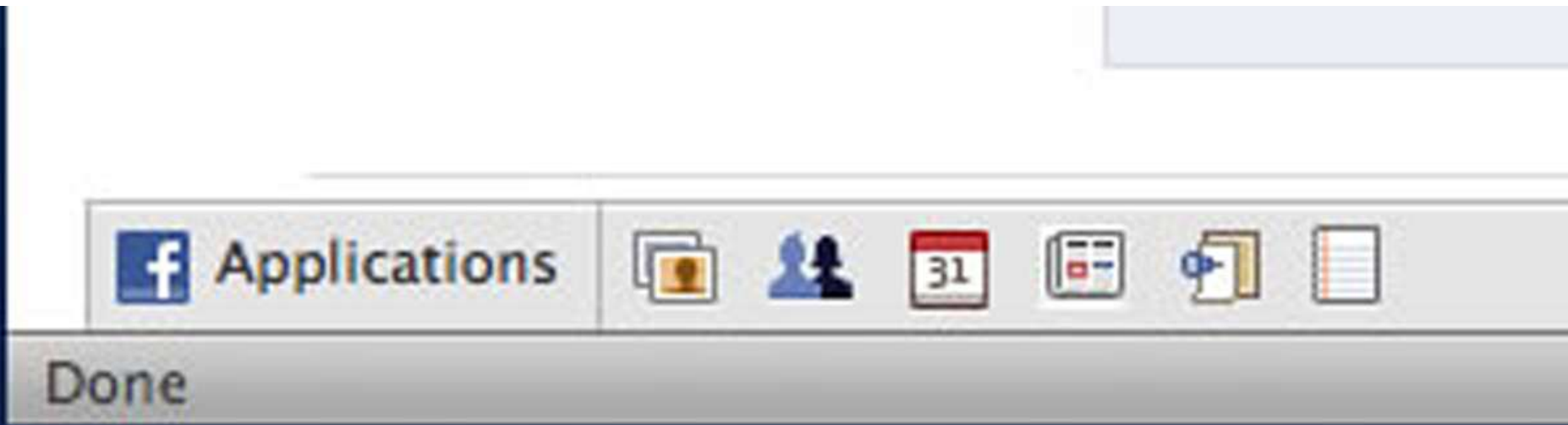


ETHIOPIA

# 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

ery day. [Join the party](#)

*People*

**Information**

lean-Jac...

# 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.





# 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 modify or add at least one facility. If you have no candidate to improve, 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](#)
- Remember to send snapshots to TA and explain your progress (and how to test it) via email, in your homepage or, even better, in a modal dialog
- Darby will check your web site at 23:59 11 Dec (Sun)

# 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

# News of this week

- The results and my responses of the course questionnaire have been released
- There are more contests
  - 2012全國大專校院開放軟體創作競賽
  - 2012微軟潛能創意盃
  - 台灣網路創業生死戰接受報名中
- Another web business
  - SaveBar省省吧
- Some comments to the head- and job-hunt





Too shy