



Molecular Biomedical Informatics  
分子生醫資訊實驗室

Web Programming  
網際網路程式設計

# Layout 排版

# Progressive Enhancement / 漸進增強

- Start from the most trivial techniques, then complicate it
- Release early, release often
  - such as the god damn philosophy of the Facebook upgrade
- A simple stratification
  - layer one: clean and reasonable HTML that focuses on content
  - layer two: CSS that focuses on visual candies
  - layer three: JavaScript that focuses on usability
- More complicated stratification could include color scheme, internationalization, ...

# An example

Progressive Enhancement: What It Is, And How To Use It?

# The first layer

- Use `<ol>`, since this is used for setting order
- Use `<input>` with suitable `name` attribute
- Use `<label>` with suitable `for` attribute to connect with `<input>`
- Use `<fieldset>` for segmentation
- Use `<form>` to wrap all materials

Order of Navigation

1. Homepage Change the order for Homepage
2. Contact Us Change the order for Contact Us
3. About Us Change the order for About Us
4. Latest News Change the order for Latest News

# The second layer

- Use `position` attribute to remove `<label>` from normal flow
- Use negative `margin-left` to make `<label>` invisible while preserving the syntax, which is very important in accessibility
  - such as screen reading for blind users
- Remove numbers of `<ol>` to prevent confusion
- Adjust the widely used attributes, `background`, `color`, `margin` and `padding`, to make the page look beautifer
- Use `:hover` to achieve some basic dynamic effects

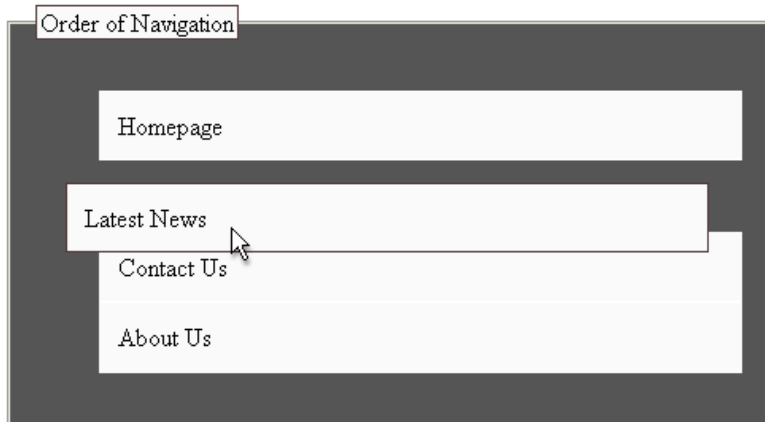
Order of Navigation

Homepage	<input type="text" value="1"/>
Contact Us	<input type="text" value="2"/>
About Us	<input type="text" value="3"/>
Latest News	<input type="text" value="4"/>

Save new order

# The third layer

- Hide `<input>` since we have a completely different user experience
- Change `value` attributes whenever the order is changed



# Fixed vs. fluid

## 固定與流動



# Fixed vs. fluid

- Fixed layout usually depends on a wrapper element with an absolute width
- In a fluid (or liquid) layout, all element widths are relative (using % or em)
- Fixed vs. Fluid vs. Elastic Layout: What's The Right One For You?

960px

The diagram illustrates a fixed-width layout of 960 pixels. It is divided into three vertical columns. The leftmost column is 520 pixels wide. The two columns on the right are each 200 pixels wide. There are 20 pixel gaps between the columns. A dashed line at the top indicates the total width of 960 pixels.

520px

200px

200px

20px

90%

50%

20%

20%

5%

# Web design with fixed width

## ■ Pros

- easy to design
- guarantee identical in different browsers
- no need to consider `min-width`, `max-width`, ... attributes

## ■ Cons

- usually leave a large empty space, which violate some balance/design principles such as “divine proportion” and “Rule of Thirds”
- the hateful horizontal scroll bar in small screens
  - a new trend is the `Media Queries` technology in `CSS3`
  - [The Wall is Redesigned](#)
- watch out the background image repeats in big screens

showcase for graphic designer  
gustavo rodriguez

let it fly,  
high as a kite...  
[read more](#)

## Welcome!!

Hello! and welcome to my online portfolio... take a look around!



Alizee



A Swan



Fantasy Island



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[The Ugly Duckling](#)

[Hispanos por la Paz](#)

[The Tree of Ages](#)

## Tags

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it's all  
about  
colours  
& pixels.

**COLOURPIXEL.**

**here&there.**

01 October'08

Folks, After a long hiatus, we have bloomed again...

This version is fresh and ethnic, colorful and chic. Drop by and get drenched in color!

Your feedback is always appreciated....

hello, I am Nag, a Designer  
from Hyderabad, India  
good in web, print,  
identity, branding &  
user interface design.

**contact.**

I have a holistic approach to creativity. My designs are analytical, expressive, curious and oft sensual.

Hyderabad, India is my Shangri-la and available for exciting work....

email :  
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**offerings.**

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User Interface (UI) Design & Clickable Prototypes

Concepts Presentations

# Trend of fixed width design

- Screens are bigger

- Browser Display Statistics

- NetMarketShare

- Centralized

- margin: 0 auto;

February 2006	800×600	1024×768
<a href="http://www.Apple.com">www.Apple.com</a>	✓	✗
<a href="http://www.Microsoft.com">www.Microsoft.com</a>	✓	✗
<a href="http://www.Yahoo.com">www.Yahoo.com</a>	✓	✗
<a href="http://www.YouTube.com">www.YouTube.com</a>	✓	✗
February 2007	800×600	1024×768
<a href="http://www.Apple.com">www.Apple.com</a>	✓	✗
<a href="http://www.Microsoft.com">www.Microsoft.com</a>	✗	✓
<a href="http://www.Yahoo.com">www.Yahoo.com</a>	✓	✗
<a href="http://www.YouTube.com">www.YouTube.com</a>	✗	✓
February 2008	800×600	1024×768
<a href="http://www.Apple.com">www.Apple.com</a>	✗	✓
<a href="http://www.Microsoft.com">www.Microsoft.com</a>	✗	✓
<a href="http://www.Yahoo.com">www.Yahoo.com</a>	✗	✓
<a href="http://www.YouTube.com">www.YouTube.com</a>	✗	✓



# Web design with fluid width

## ■ Pros

- users somehow have the control on the width
- the percentage of empty space is relatively right, which means beautifier
- prevent horizontal scroll bar

## ■ Cons

- designers cannot 100% control what users see
- need to provide multiple dimensions for materials such as images and videos
  - again, use the [Media Queries](#) technology in CSS3
  - [The Wall is Redesigned](#)
- if your web site has poor content but your users have big screens...



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## Handcrafted pixels & text from Salem, Massachusetts.

APRIL 17

### LATEST FROM THE NOTEBOOK

#### ☞ Tweetie for Mac

I've been loving atebits' Twitter iPhone client, Tweetie, for a few weeks now (late adopter). On Monday they're releasing a desktop version, and from the preview video it certainly looks excellent (and unique).

#### ☞ Twitshirt

Wearable tweets, from the fine folks at **Airbag Industries**. Photo of my beta-tested shirt coming soon.

APRIL 13

#### ☞ What's Coming in Firefox 3.5

Turns out, Firefox 3.5 is being renamed "SeaMonkey" due to all the new stuff that's being added. I'm particularly excited about this release for further progressive

### RECENT WORK



Wikiraak  
Visual Design



Kogae Amoeba  
Redesign

### OUR PROJECTS



IconShoppe  
Icons to go



Foamer  
Who do you owe?

# Large Resolution





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### ∞ [Twitshirt](#)

Wearable tweets, from the fine folks at Airbag Industries. Photo Programming 網際網路程式設計 2009.

## RECENT WORK



[Wikirank](#)  
Visual Design



[Rogue Amoeba](#)  
Redesign

## OUR PROJECTS



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Icon Design



[Frames](#)

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- Web Design Checklist*
- The Design Process*
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# Large Resolution





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# Smaller Resolution

*Web Design Checklist*

*Web Design Process*

*Business Cards*

# Trend in fluid width design

- Simplify the design, since it is too hard to control
- Use `min-width` and `max-width` for the smallest control
- Don't use... or use an alternative, elastic layout
- Special Interest Group on Molecular Biomedical Informatics

# Simple three-column layout

- Float

- `<div id="left">Left</div>`  
`<div id="mid">Middle</div>`  
`<div id="right">Right</div>`  
`<div class="clear"></div>`
- `#left, #mid, #right { float: left; }`  
`.clear { clear: both; }`

- The main column is not floating

- `<div id="left">Left</div>`  
`<div id="right">Right</div>`  
`<div id="mid">Middle</div>`
- `#left { float: left }`  
`#right { float: right }`  
`#mid { padding-left: 200px; width: 760px; }`

# Grid/網格

- The beauty of alignment, rhythm
- 960 Grid System
  - Four Kitchens's Presentations on SlideShare
- There are many other frameworks
  - Bootstrap, from Twitter
  - 10 Promising CSS Framework That Worth A Look
- The vertical rhythm, even harder
  - Compose to a Vertical Rhythm
  - line-height (行距), margin and padding (留白), font-size 字體大小) and border (邊框)
  - Web Programming



# Framework/框架

- A web page usually comprises of several elements such as header (頁首), content and footer (頁尾). A header may contain logo and navigation bar; while content may contain sidebar.
- Building every web site usually spends a considerable time on these fundamental structures. Thus, here comes framework, which provides commonly used template to prevent starting from scratch
- Cons
  - for large flexibility, some class of id are not semantic where, for example, header could become `container_16`
  - a disciplinal environment may throttle ideas

# Use graphics software to layout

- Create a Fantastic Landing Page for Your Next Product Using Photoshop
- Actually, there are many people do this
  - 45 Step-by-Step Tutorials on Web Design with Photoshop
- But this requires one more step
  - Convert Your Product Landing Page From PSD to HTML [Very Detailed]
  - it is the meal ticket of many people



# Re-align rather than re-design

Good Designers Redesign, Great Designers Realign

Process of Redesigning N.Design

The Wall is Redesigned



# Today's assignment

## 今天的任務

# Re-design (re-align) your web site

- According to today's class, re-think the use of border, font-size, line-height, margin and padding. Consider grid systems and frameworks. Finish all pages required of your site.
- Reference
  - [Good Designers Redesign, Great Designers Realign](#)
  - [Process of Redesigning N.Design](#)
  - [The Wall is Redesigned](#)
  - [960 Grid System](#)
  - [Four Kitchens's Presentations on SlideShare](#)
  - [Bootstrap, from Twitter](#)
- Your web site (<http://merry.ee.ncku.edu.tw/~xxx/cur/>, ex6) will be checked not before 23:59 11/11 (Sun). You may send a report (such as some important modifications) to [me](#) in case I did not notice your features.