Molecular Biomedical Informatics

Web Programming

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

<table>
<thead>
<tr>
<th>Order of Navigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Homepage</td>
</tr>
<tr>
<td>2. Contact Us</td>
</tr>
<tr>
<td>3. About Us</td>
</tr>
<tr>
<td>4. Latest News</td>
</tr>
</tbody>
</table>

Save new order
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 beautifier
- Use `:hover` to achieve some basic dynamic effects
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

520px

200px

200px

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

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

Recent Posts
- Best of the Best CSS Websites!!
- What a mesh...
- The Ugly Duckling
- Hispanics por la Paz
- The Tree of Ages

Tags
- age alizee animal awarded beautiful color CSS fantasy Featured flower fun hispanos Illustration island latinamerica light mesh no old paz peace shapes swan tree vector weapon website weed

That's what we do... and then some. We merge form and function in every project, whether it be a beautiful website or cutting edge business cards. It's rare to find a design company that not only provides that extra graphical edge, but also has expertise in interface design, content presentation, standardized web coding, and search engine optimization... That's what sets Corvus Design Studio apart from the rest...
hello, I am Nag, a Designer from Hyderabad, India. Good in web, print, identity, branding & user interface design.

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...

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....

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nag@colourpixel.com
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http://www.colourpixel.com/
Trend of fixed width design

- Screens are bigger
  - Browser Display Statistics
  - NetMarketShare
- Centralized
  - margin: 0 auto;
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…
Handcrafted pixels & text from Salem, Massachusetts.

LATEST FROM THE NOTEBOOK

**April 17**

**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).

**April 13**

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

**What's Coming in Firefox 3.5**
Turns out, Firefox 3.1 is being renamed as Mozilla 3.5 and lots of the new stuff that's being added. I'm particularly excited about this release for further progressive cross-browser compatibility.
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Twitshirt
Wearable tweets, from the fine folks at Airbag Industries. Soon.
Large Resolution
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Smaller Resolution

Web Programming 網際網路程式設計

http://www.blossomgraphicdesign.com/
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>`
  - `#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
Any Questions?
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.