

## 7 月 26 日電腦教學講義 (高班)

### 1. Instructor: Alex 徐彬

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Looking for detail about this class ( you can follow the links on Emily's site as well)

→ <http://www.chinesewaytogo.org/waytogo/msclass/computer.htm>

### 2. PC Structure, terms, and data flow

2.1 PC's major hardware components:

motherboard, CPU, memory, HDD, video / sound cards, NIC, modem, monitor, keyboard, mouse

2.2 terms, jargons, ports:

Intel, AMD, P3, P4, Celeron, Pentium-M, SDRam, DDRam, Ethernet, Mhz, GHz, CD-R/RW,

DVD/DVD-R(rw, +rw, +ram), bit->byte->KB->MB->GB->..., 5400/7200/10k rpm, video memory;

Parallel, serial, PS2, usb 1.1/2.0, IEEE1394/firewire/ilink, VGA/DVI, S-video, wireless,

2.3 data flow: HDD -> Memory -> CPU -> display (via video card) on Monitor

### 3. PC maintenance

3.1 Anti-virus – Norton, update your def. file, real-time protection, watch out attachment, floppy

3.2 Disk: defrag, backup habit, be careful on installing shareware (watch out the “extra”)

3.3 Firewall: protect your PC and privacy (zone alarm)

3.4 Startup: prevent MSN/ICQ from running at start up, other app: Real, WMP, ...

3.5 Program shortcuts: grouping, delete useless shortcuts, clean desktop for more working area

### 4. Upgrade / buying new /laptop / useful app.

4.1 Upgrade: is it worthwhile to upgrade? Areas for upgrade: memory, hdd, monitor, video, mouse, ...

4.2 Buying new: brand name VS clone, desktop VS laptop, what about used?

4.3 Popular app: flashget/NT transport, **hardcopy**, NAV, zonealarm, **RealOne**, WMP classic, Nero

### 5. The Website Workshop

5.1 HTML intro. – HTML is the language used to make up web pages, it's more link tagging rather than programming. The easiest way to see the HTML and to learn good pages' codes → right mouse click on the web page you are interested in, select “view source”. Learn HTML by yourself: the free online tutorial (e.g. <http://www.htmlprimer.com>), “googling” (using Google) to find more quality tutorials.

The syntax of HTML are bunch of paired tags in < >, e.g. <html> </html>, <title></title>, nested. Web browsers, say IE, interpret the tags and display the contents in between according to the tag info.

You can use web page editor: MS FrontPage, Macromedia Dreamweaver, Homesite, Netobjects

Fusion..., and they are wyswyg. Even MS Word can generate HTML pages from your word docs.

What is bad about your web page editors? → Jumbo codes, trash tags, not all-browser friendly.

Web images: jpg, gif, bmp, image size, **image compression**. Web media: real, wmv, quicktime, flash.

5.2 Set up Rogers email accounts and free web space:

A regular plan user can have 7 email accounts and 70 MB web space in total, but you can only activate 10 MB space for each new email account – NOT 70 MB for one address !!

My case: [alexteaches@rogers.com](mailto:alexteaches@rogers.com) → <http://members.rogers.com/alexteaches/>

Rogers email: using Outlook Express / the new web email service: <http://webmail.rogers.com>

The good: large inbox, large attachment allowed. The bad: once I am no longer with Rogers??

Rogers web space: for simple static web pages, no support for programming, only a few cgi

Where and how to set up these: <https://services.rogers.com> , your primary username / password

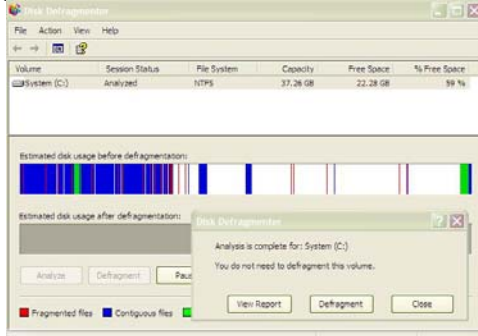
5.3 Upload your web pages:

ftp: what is ftp – file transfer protocol, your Rogers ftp account  
 command line ftp (using DOS black window), handy ftp program – **ws-ftp** lite edition (free), you can find it from [www.download.com](http://www.download.com), or from the computer section on Emily’s site, and simple instructions.  
 The default web page for each directory: index.htm, default.htm, depends on web server setup  
 Once you uploaded your web pages, **refresh** browser (**F5**) to see your work live on site

6. Homework

6.1 Use your Disk Defragmenter to analyze your drive, and use Hardcopy (you can find this program at <http://www.download.com>) to capture the result as a picture like the following.

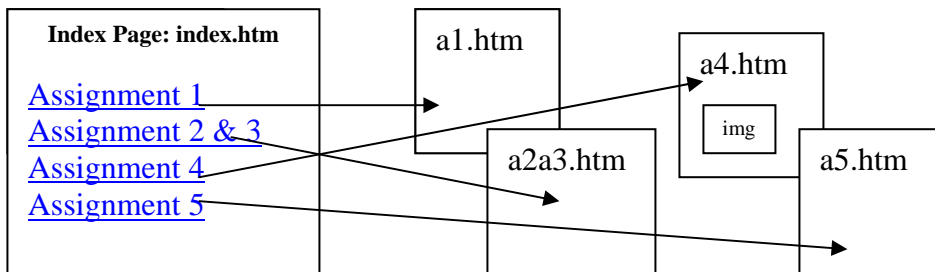
(Note: just analyze the disk, you do NOT have to defrag it. Defrag process can take a long time, say, a few hours.)



6.2 Create your Rogers email account, and web space, e.g. [alexu@rogers.com](mailto:alexu@rogers.com) and the corresponding web address should be <http://members.rogers.com/alexu>

6.3 Make an index page with links to your homework pages, and build web pages for your assignments, each assignment can take one web page for its own, or a few related assignments share one web page. Upload them to your newly-created Rogers website, and send me your web site address.

- Do not just create ONE giant web page having everything loaded on, it has to be like this:



- Assignment 4’s web page should contains the image of Disk Defragmenter analysis result captured by Hardcopy.

You can put as much extra stuff as you want onto these pages, your index page will look better with some text and images about yourself, video clips and/or embedded audio are also welcome.

Watch out the image size !

You can use any web page editor programs you prefer, but hand-coded page will receive more marks.

**Note:** if you are using Bell Sympatico, you can obtain free space as well, check out Bell Sympatico’s support site. Geocity, yahoo personal web space and other free web space sources are ok, too.

6.4 (optional) covert your favourite song from CD into mp3 (128kbps) using RealOne, and link it on assignment 4 web page.

6.5 Email me your website address to [alexteaches@rogers.com](mailto:alexteaches@rogers.com) from your **new Rogers email account**.