HTML

Suggested Prerequisite:
• Working on Athena

Instructor:

Athena® Training Group

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What this course will cover

• Some WWW basics
• What is HTML?
• Setting up a homepage
• Structure of an HTML document
• Elements of HTML:
  • Separators
  • Headers
  • Lists
  • Other text styles
  • URLs and links
• Style Tips
• Development Tips
• How to Learn More

This course assumes that you:
• know how to use a Web browser
• can edit files on your Athena account
**World-Wide Web: the Basics**

- The **World-Wide Web** (WWW) is a universe of information in pages. Each page:
  - is an individual document
  - can contain text, pictures, links to other pages, pictures, sounds, video clips, Java applets, etc.
  - is stored as a separate file

- Browse from one page to another via “**hypertext links**”

- **Web Browser**: user’s application for viewing web-pages. The browser handles user requests for documents: determines which host machine to contact, which documents to request, and displays the received documents.

- **Web Server**: the other end of the connection, receives incoming requests and sends back the requested documents.

- Web Browsers and Servers communicate over the **Internet**, primarily using **Hyper-Text Transfer Protocol** (HTTP), “the native language of the Web.”
Web pages are formatted using a special language called HTML, stands for “Hyper-Text Markup Language” -- a set of mark-up commands (“tags”) added to the ordinary text of Web documents.

HTML lets you include:

- Organized text
- Headings
- Lists
- Links to other WWW pages
- Key-word and indexing info for search engines
- Fill-out Forms
- Pictures, Maps, Other Graphics
- “Clickable” Image-Maps
- Audio and Video files
- Animations
- Java “applets”
- other new features... as the Web continues to evolve
Getting Started

Make sure you have a ~/www directory and check its permissions:

```
  athena% cd ~/www

  athena% fs la
  Access list for . is
  Normal rights:
     system:expunge ld
     system:authuser rl
     system:anyuser rl
     joeuser r!idwka
```
If you don’t have a ~/www

```
athena% cd ~/www
www: No such file or directory.
athena% cd; mkdir www
athena% fs la www
access list for www is
Normal rights:
  system:expunge ld
  system:anyuser l
  joeuser rldwka
athena% fs sa www system:anyuser read
athena% fs la www
  Access list for www is
  Normal rights:
    system:expunge ld
    system:anyuser r1
    joeuser rldwka
```

Make sure to give `system:anyuser` ‘read’ permissions for ~/www and any sub-directories you create under it.

Directory permissions are explained in the Working on Athena minicourse.
Your web-site begins at your home page
Name it ~/www/index.html

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Why index.html?

When the user specifies a directory:

most browsers automatically look for a file in that directory named index.html

Otherwise users would see this:

What are some advantages and disadvantages of visitors seeing your ~/www directory?
Example Home Page

The World of Joe A. User

Some text about my thoroughly interesting life, how to find me, and what I'm up to.

I've just started this page, so there will be more here soon.

How to reach me:

- **My home**: I'm a brother of [Alpha Delta Phi](mailto:alpheg@alum.mit.edu). My number there is 617-555-1899.
- **My campus office**: is Room N42-336. The phone is 617-253-9999 (from campus phones: x3-9999), and the address is:
  
  MIT N42-336
  77 Mass Ave
  Cambridge, MA 02139

- **On-line**: Write to me at eigens@mit.edu.
- **My job**: When I'm not logged in, I've probably at my wonderful job. The number there is 617-555-3141, but unless it's an emergency, please don't call me there.

Other Stuff

The house is fielding a 40-Min Superbowl team this season. I'll probably be starting at right Outside Groove, so I'm practicing my Chilean accent.

Here's what our chapter web-site says about our Literary competition:

"As part of our commitment to maintain the literary tradition of the fraternity, the Lambda Phi chapter hosts the Henry Leib Memorial Literary Competition in the fall of each academic year. All MIT students are eligible to enter."

---

Last update: Sun Sep 1 17:17:31 EDT 2002
<mailto:joeuser@web.mit.edu>

Note that since Joe is a fictional character, he doesn't mind making his home phone number and address public.

Since you are not, you might.
Example Home Page: source

<HTML>
<HEAD>
<TITLE>Joe User’s Pages: Homepage</TITLE>
</HEAD>
<BODY BGCOLOR="#FFFFFF" TEXT="#000033">

<IMG SRC="Pix/me-at6.gif" ALT="Me at age 6" ALIGN=right HSPACE=20 VSPACE=8>

<H1>The World of Joe A. User</H1>

Some text about my thoroughly interesting life, how to find me, and what I’m up to.

I’ve just started this page, so there will be more here soon.

How to reach me:

UL

LI My home: I’m a brother of Alpha Delta Phi. My number there is 617.555-1832.
LI My campus office is Room N42-336. The phone is 617.253-9999 (from campus phones: x3-9999), and the address is:
PRE
MIT N42-336
77 Mass Ave
Cambridge, MA 02139
</PRE>
LI On-line: Write to me at &lt;A HREF="mailto:joeuser@mit.edu">joeuser@mit.edu</A>&gt;
LI My job: When I’m not logged in, I’m probably at my wonderful job. The number there is 617.555-3141, but unless it’s an emergency please don’t call me there.
</UL>

Other Stuff

IMG SRC="Squamish/squamish1b.jpg" WIDTH=200 ALIGN=left HSPACE=24 VSPACE=8

The house is fielding a 43-Man Squamish team this season. I’ll probably be starting at right Outside Grouch, so I’m practicing my Chilean accent.

BR clear=all

Here’s what our chapter web-site says about our Literary Competition:

!-- Remember to add the dates for this year’s literary competition -->

BLOCKQUOTE
"As part of a commitment to maintain the literary tradition of the fraternity, the Lambda Phi chapter hosts the Henry Leeb Memorial Literary Competition in the fall of each academic year. All MIT students are eligible to enter."
</BLOCKQUOTE>

HR

last update: Sun Sep 9 17:16:53 EDT 2002

&A HREF="mailto:joeuser@mit.edu">joeuser@mit.edu</A>&gt;
Structure of the HTML Document

HTML

HEAD

TITLE

BODY

Every HTML document should have a Head, including the Title, and a Body.
The Main Parts

Notice the “tags” that begin and end each part.
Tags

• Tags can be “container” tags or “empty” tags.
  
  • **container** tags are paired, to open and close the region of text they affect:

    `<tag-name>tag region</tag-name>`

    `<title>Catalina Bar & Grill: Summer 2002 Music</title>`
    `<h1>Joe A. User’s Homepage</h1>`

  
  • **empty** tags don’t enclose a specific text area, and don’t have a close tag:

    `<tag-name>
    <hr>
    <br>
    <img ...>`

  
  • Tags are not case-sensitive, so these:

    `<HEAD> <Head> <head>`

    ...are all the same.

  
  • Container tags: Be sure to close and nest them properly:

    `<head><title>A Snappy Title</title></head>`

    not:

    `<head><title>A Snappy Title</head></title>`

Tags are also called “elements”
The Head Section

HEAD section is between <HEAD>...</HEAD> tags.

The HEAD section can contain:

• TITLE tags -- every web page should have a title

• META tags -- optional, contain information about the page.
The TITLE Tag

• Put the document’s title in <title> </title>.
• Browsers will display title.
• Short and descriptive, something that makes sense even out the context of your web-site.
• Don’t include HTML commands in the title.

• Good titles:
  <title>Joe User’s pages: A poem about my job</title>
  <title>A Page About Freemasonry: Guestbook</title>
  <title>WBUR-90.9 fm: Program Listings</title>

• Not-so-good titles:
  <title>some more stuff</title>
  <title>Introduction</title>
  <title>Joe’s <a href="wow.html">Clever</a> page</title>
META Tags

```html
<META name="type" content="values">
```

**META** tags are optional. Use them for document meta-information, info about the document. A common use is to provide information for web search-engines such as Lycos, AltaVista, Yahoo, etc.

Example:
(from http://web.mit.edu/dryfoo/Masonry/)

```html
<META name="description" content="The first Masonry page on the Internet. Information about Freemasonry for both members and curious non-members. A Guestbook, History, pointers to other Masonic sites, info about how to join.">
```

```html
<META name="keywords" content="mason, freemason, masonry, freemasonry, masonic, fraternal, fraternity, lodge, master mason, fellowcraft, fellow craft, entered apprentice">
```

```html
<meta name="author" content="Gary L. Dryfoos">
```

More about META at http://www.utoronto.ca/webdocs/HTMLdocs/NewHTML/meta.html
The Body Section

• The **BODY** is for the content of the document.

• **BODY** section is between `<BODY>...</BODY>` tags.

• Text in the **BODY** without any tags would be seen as One Big Paragraph, because...

• ...Browsers **ignore** whitespace (linebreaks, blank lines, tabs, extra spaces).

• Tags used to break up **BODY** text include:
  - paragraphs `<p>...</p>`
  - line-breaks `<br>`
  - line-rules `<hr>`
  - headers `<h1>...</h1>  `<h2>...</h2> ... etc.
  - pre-formatted text `<pre>...</pre>`
The BODY tag

<BODY attribute="value">

<BODY BGCOLOR="#FFFFFF" TEXT="#000033">

OPTIONAL: a number of over-all text attributes can be set in the BODY tag, including the color of text, background, and links.

Colors are specified with two hex-digits each for Red, Green, and Blue. Eg:

#FFFFFF = white
#000000 = black
#000033 = very dark blue
#A0C0A0 = pale green

It’s better to pick a simple set of readable colors and stick with them. For more complicated page design, use Cascading Style Sheets.

Bad use of color is the most common cause of UUGWPS!*

*Ugly Unreadable Godawful Web Page Syndrome
Tags to Break Up Body Text

```html
<P>... </P> -- Paragraph
<br> -- Line Break
<HR> -- Horizontal Rule

• `<p>` Paragraph`/p>`  Most browsers show a new paragraph by leaving a blank line. Some also indent each new paragraph.

```html
<p>Some text about my <em>thoroughly interesting</em> life, how to find me, and what I’m up to.</p>
<p>I’ve just started this page, so there will be more here soon.</p>
```

Some text about my thoroughly interesting life, how to find me, and what I’m up to.

I’ve just started this page, so there will be more here soon.

• Line Break `<br>` -- Means “break the line, but don’t start a new paragraph”.

• Horizontal Rule `<hr>` -- Inserts a line across the page.

```html
<em>last update: Sun Sep 9 17:16:53 EDT 2002</em> <br>
&lt;A HREF="mailto:joeuser@mit.edu">joeuser@mit.edu</A>&gt;
```

last update: Sun Sep 9 17:16:53 EDT 2002
<joeuser@mit.edu>
<H1>The World of Joe A. User</H1>

Some text about my <EM>thoroughly interesting</EM> life, how to find me, and what I’m up to.

I’ve just started this page, so there will be more here soon.

<H2>How to reach me:</H2>

Use Headers to divide text into sections, sub-sections, etc.

<H1>Level 1 header</H1>
<H2>Level 2 header</H2>
<H3>Level 3 header</H3>
<H4>Level 4 header</H4>
<H5>Level 5 header</H5>
<H6>Level 6 header</H6>
Lists

Three types of lists:

• `<ol>...</ol>`
  “ordered list” --- numbered

• `<ul>...</ul>`
  “unordered list” --- bulleted

• `<dl>...</dl>`
  “definition list” --- items with descriptions
Ordered List

The Digits alphabetically:

<ol>
<li> eight</li>
<li> five</li>
<li> four</li>
<li> nine</li>
<li> one</li>
<li> seven</li>
<li> six</li>
<li> three</li>
<li> two</li>
<li> zero</li>
</ol>

The Digits alphabetically:

1. eight
2. five
3. four
4. nine
5. one
6. seven
7. six
8. three
9. two
10. zero

li = “list item”
Unordered List

<h3>The Inca Rulers</h3>
<ul>
<li>Manco Capac</li>
<li>Sinchi Roca</li>
<li>Lloque Yupanqui</li>
<li>Mayta Capac</li>
<li>Capac Yupanqui</li>
<li>Inca Roca</li>
<li>Yahuar Huacac</li>
<li>Vuiracocha Inca</li>
<li>Pachacuti Inca Yupanqui</li>
<li>Topa Yupanqui</li>
<li>Huayna Capac</li>
<li>Huascar / Atahuallpa</li>
</ul>

The Inca Rulers

- Manco Capac
- Sinchi Roca
- Lloque Yupanqui
- Mayta Capac
- Capac Yupanqui
- Inca Roca
- Yahuar Huacac
- Vuiracocha Inca
- Pachacuti Inca Yupanqui
- Topa Yupanqui
- Huayna Capac
- Huascar / Atahuallpa
The 2000 Ig Nobel Prize Winners

**PSYCHOLOGY**
David Dunning of Cornell University and Justin Kreuger of the University of Illinois, for their modest report, "Unskilled and Unaware of It: How Difficulties in Recognizing One’s Own Incompetence Lead to Inflated Self-Assessments." [Published in the Journal of Personality and Social Psychology, vol. 77, no. 6, December 1999, pp. 1121-34.]

**LITERATURE**
Jasmuheen (formerly known as Ellen Greve) of Australia, first lady of Breatharianism, for her book "Living on Light," which explains that although some people do eat food, they don’t ever really need to.

**BIOLOGY**

**PHYSICS**
Andre Geim of the University of Nijmegen (the Netherlands) and Sir Michael Berry of Bristol University (UK), for using magnets to levitate a frog and a sumo wrestler. [REFERENCE: "Of Flying Frogs and Levitrons" by M.V. Berry and A.K. Geim, European Journal of Physics, v. 18, 1997, p. 307-13.]

---

**Definition List**

```html
<h2>The 2000 Ig Nobel Prize Winners</h2>
<dl>
  <dt>PSYCHOLOGY</dt>
  <dd>David Dunning of Cornell University and Justin Kreuger of the University of Illinois, for their modest report, “Unskilled and Unaware of It: How Difficulties in Recognizing One’s Own Incompetence Lead to Inflated Self-Assessments.” [Published in the Journal of Personality and Social Psychology, vol. 77, no. 6, December 1999, pp. 1121-34.]</dd>

  <dt>LITERATURE</dt>
  <dd>Jasmuheen (formerly known as Ellen Greve) of Australia, first lady of Breatharianism, for her book “Living on Light,” which explains that although some people do eat food, they don’t ever really need to.</dd>

  <dt>BIOLOGY</dt>

  <dt>PHYSICS</dt>
  <dd>Andre Geim of the University of Nijmegen (the Netherlands) and Sir Michael Berry of Bristol University (UK), for using magnets to levitate a frog and a sumo wrestler. [REFERENCE: “Of Flying Frogs and Levitrons” by M.V. Berry and A.K. Geim, European Journal of Physics, v. 18, 1997, p. 307-13.]</dd>
</dl>
```

**dt** — “definition term”

**dd** — “definition description”
Pre-formatted

<pre>...</pre>

- preserves all linebreaks and whitespace (except tabs)
- browser will use a fixed-width font.
- tags are interpreted as usual.

From Tom Lehrer’s “The Elements Song”

There’s antimony, arsenic, aluminum, selenium, And hydrogen, and oxygen, and nitrogen, and rhenium, And nickel, neodymium, neptunium, germanium, And iron, americium, ruthenium, uranium, Europrium, zirconium, lutetium, vanadium, And lanthanum, osmium, astatine, radium, And gold, and protactinium, and indium, and gallium, And iodine, and thorium, and thulium, and thallium...

From Tom Lehrer’s “The Elements Song”

There’s antimony, arsenic, aluminum, selenium, And hydrogen, and oxygen, and nitrogen, and rhenium, And nickel, neodymium, neptunium, germanium, And iron, americium, ruthenium, uranium, Europrium, zirconium, lutetium, vanadium, And lanthanum, osmium, astatine, radium, And gold, and protactinium, and indium, and gallium, And iodine, and thorium, and thulium, and thallium...

Note that the <a href>... is interpreted properly, as a link.
For displaying extended quotations. Will begin on a new line. Most browsers will show as indented.

The First Committee

On Independence Day, 1776 a committee was created to design a seal for the new American nation. The committee’s members were Benjamin Franklin, Thomas Jefferson, and John Adams, with Pierre Du Simitiere as artist and consultant[1]. Of the four men involved, only Benjamin Franklin was a Mason, and he contributed nothing of a Masonic nature to the committee’s proposed design for a seal.

Du Simitiere, the committee’s consultant and a non-Mason, contributed several major design features that made their way into the ultimate design of the seal: ‘the shield, E Pluribus Unum, MDCCCLXXVI, and the eye of providence in a triangle.’[2] The eye of providence on the seal thus can be traced, not to the Masons, but to a non-Mason consultant to the committee.

The Second and Third Committees

The single eye was a well-established artistic convention for an ‘omniscient Ubiquitous Deity’ in the medallic art of the Renaissance. Du Simitiere, who suggested using the symbol, collected art books and was familiar with the artistic and ornamental devices used in Renaissance art.”[3] This was the same cultural iconography that eventually led Masons to add the all-seeing eye to their symbols.

The Second and Third Committees

Note the indentation from the surrounding text.
Style Commands

Style commands tell the browser to highlight text.

For emphasized text (usually appears as italic):

```html
<em>some text</em>
```

Some text about my thoroughly interesting life, how to find me, and what I’m up to.

For strongly emphasized text (usually appears as bold):

```html
<strong>some text</strong>
```

My job: When I’m not logged in, I’m probably at my wonderful job. The number there is 617.555-3141, but unless it’s an emergency, please don’t call me there.

Style commands don’t specify the kind of highlight. The browser decides how to display the text.
Comments

You can put comments into your document. The browser won’t display them.

<!-- Text of a comment -->

Example:

<<P>Here’s what <a href="http://adp.mit.edu/">our chapter web-site</a> says about our Literary Competition:</P>

<!-- Remember to add the dates for this year’s literary competition -->

<BLOCKQUOTE>As part of a commitment to maintain the literary tradition of the fraternity, the Lambda Phi chapter hosts the Henry Leeb Memorial Literary Competition in the fall of each academic year. All MIT students are eligible to enter."</BLOCKQUOTE>

---

You can use comments to make notes to yourself, or to anyone who views the document as HTML source.
About Links: URL

Every document on the Web has its own unique URL ("Uniform Resource Locator") -- its address, used to find the document:

```
protocol://host/path/file[#anchor]
```

- **protocol** = type of service required to access the file, usually http
- **host** = name of host computer
- **path** = directory path to file
- **file** = name of file to access
- **anchor** = (optional) name of specific point within the HTML file

Examples:

- http://www.rawilson.com/
- http://www.web.mit.edu/dryfoo/Masonry/

- **Relative URL** -- a path name relative to the current file.

Examples

- nightwork.html
- Pix/me-at6.gif
- ../Public/casey.html
- #rev.bacon.note
About Links: Including a Link

To include a link in your document:

```html
<a href="URL">link</a>
```

where:

- **URL** = URL of file
- **link** = highlighted linking text

The link is what you click on, the URL is where it takes you. Eg.

```html
<li><strong>My home:</strong> I’m a brother of <a href="http://adp.mit.edu/">Alpha Delta Phi</a>. My number there is 617.555–1832.</li>
```

- **My home**: I’m a brother of Alpha Delta Phi. My number there is 617.555–1832.
About Links: In-Line Image

Include an image on the document page

```html
<IMG SRC= "image-URL" [ALT= "alt-text"]>
```

where:

- **image-URL** = URL of graphic file to insert
- **alt-text** = text to display on text-only browsers

Example:

```html
<IMG SRC="Pix/me-at6.gif" ALT="Me at age 6" 
     ALIGN=right HSPACE=20 VSPACE=8>
<H1>The World of Joe A. User</H1>
...
```

The World of Joe A. User

Some text about my thoroughly interesting life, how to find me, and what I’m up to.

I’ve just started this page, so there will be more here soon.

How to reach me:

- **My home**: I’m a brother of Alpha Delta Phi. My number there is 617.555.1632.
- **My campus office**: is Room N42-336. The phone is 617.253-9999 (from campus phones: x3-9999), and the address is:

---

**ALIGN**, **HSPACE**, and **VSPACE** are optional attributes that can be used with the **IMG** tag.
About Links: Anchor

A link can point to a specific place within a document. Mark that place with an anchor.

\[ \text{A \text{NAME=}} \text{“anchor-name”} \text{>anchor-text</A>} \]

where:

- **anchor-name** = Name of the anchor that links can point to.
- **anchor-text** = The visible text at the anchor’s location.

Setting the anchor “rogrouch”:

```html
<p>The game of Squamish is played on a 5-sided field known as a Flutney. The two teams line up at opposite sides of the Flutney and play seven Ogres of fifteen minutes each -- unless it rains, in which case they play eight Ogres.

<p>The defending <a name="rogrouch">right Outside Grouch</a> signals that he is ready to hurl the Pritz by shouting, "Mi Tio es infermo, pero la carretera es verde!" -- a wise old Chilean proverb that means, "My Uncle is sick, but the highway is green!"

Note that the anchor text is not specially marked in any way.
A link to the “rogrouch” anchor from another page:

A link to the anchor from within the same page:

Selecting either link will take you to the anchor.

©43-Man Squamish is COPYRIGHT Mad Magazine.
<HTML>
<HEAD>
<TITLE>Joe User's Pages: Homepage</TITLE>
</HEAD>
<BODY BGCOLOR="#FFFFFF" TEXT="#000033">

<H1>The World of Joe A. User</H1>

Some text about my thoroughly interesting life, how to find me, and what I'm up to.

I've just started this page, so there will be more here soon.

How to reach me:

- **My home:** I'm a brother of Alpha Delta Phi. My number there is 617.555-1832.
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  MIT N42-336  
  77 Mass Ave  
  Cambridge, MA 02139

- **On-line:** Write to me at &lt;A HREF="mailto:joeuser@mit.edu">joeuser@mit.edu</A>&gt;
- **My job:** When I'm not logged in, I'm probably at my wonderful job. The number there is 617.555-3141, but unless it's an emergency, please don't call me there.

Other Stuff

The house is fielding a 43-Man Squamish team this season. I'll probably be starting at right Outside Grouch, so I'm practicing my Chilean accent.

Here's what our chapter web-site says about our Literary Competition:

"As part of a commitment to maintain the literary tradition of the fraternity, the Lambda Phi chapter hosts the Henry Leeb Memorial Literary Competition in the fall of each academic year. All MIT students are eligible to enter."

Last update: Sun Sep 9 17:16:53 EDT 2002

 &lt;<A HREF="mailto:joeuser@mit.edu">joeuser@mit.edu</A>&gt;
</BODY>
</HTML>

Looks easy now, doesn't it?
Create a file like this, save it in your ~/www, and use it to start your HTML files.

Give your files a uniform appearance.
Change “Joe User” to your name, of course.
**Job Flow**

1. Use Emacs to Create and Edit file (with `.html` extension).
2. Save the file.
3. Look at file in the browser (remember to reload the file after making changes).
   - Check appearance.
   - Check all links.
4. Lather, Rinse, Repeat.
5. Publicize:
   - Tell your friends.
   - Add `<meta>` tags so that search engines will find and list you.
   - Write to maintainers of other pages with similar interests; tell them about your page and give its URL; ask them to add a link to it.
Development Tips: Working in Private

• Your files don’t have to be publicly viewable while in development.

• Don’t put them into ~/www until they’re ready -- your files can be anywhere in your locker.

• To preview files that aren’t in ~/www, point the browser to a private file. In Netscape:

  File -> Open Page...

  ![Image of Netscape File Open Page dialog box]

  Enter the World Wide Web location (URL) or specify the local file you would like to open:

  /mit/joouser/Privacy

  Choose File...

  Open In Navigator  Open In Composer  Clear  Cancel

• Then Choose File
Style Tips: A Suggestion

Not-so-good:

```
<P><a href="nightwork.html">Click here</a> for a poem about my wonderful job.</P>
```

Click here for a poem about my wonderful job.

Better:

```
<P>Here is <a href="nightwork.html">a poem</a> about my wonderful job.</P>
```

Here is a poem about my wonderful job.

Why?
Home Page -- Lynx

Me at age 6

The World of Joe A. User

Some text about my thoroughly interesting life, how to find me, and what I'm up to.

I've just started this page, so there will be more here soon.

How to reach me:

* My home: I'm a brother of Alpha Delta Phi. My number there is 617.555-1032.
* My campus office: is Room N42-336. The phone is 617.253-9999 (from campus phones: x3-9999), and the address is:

MIT N42-336
77 Mass Ave
Cambridge, MA 02139

* On-line: Write to me at <joeuser@mit.edu>
* My job: When I'm not logged in, I'm probably at my wonderful job.
  The number there is 617.555-3141, but unless it's an emergency, please don't call me there.

Other Stuff

[INLINE]

The house is fielding a 43-Man Squash team this season. I'll probably be starting at right Outside Grouch, so I'm practicing my Chilean accent.

Here's what our chapter web-site says about our Literary Competition:

"As part of a commitment to maintain the literary tradition of the fraternity, the Lambda Phi chapter hosts the Henry Leeb Memorial Literary Competition in the fall of each academic year. All MIT students are eligible to enter."

-----------------------------------------------

Last update: Sun Sep 9 17:16:53 EDT 2002
<joeuser@mit.edu>

Commands: Use arrow keys to move, '?' for help, 'q' to quit, '<-' to go back.
Arrow keys: Up and Down to move, Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

A "click here" wouldn't make much sense to people using this browser!

Notice that Lynx users have no clue what the [INLINE] image is. Remember to use the ALT attribute with in-line images.
**Style Tips: Structure vs. Appearance**

HTML was developed for describing the structure of a document, not its appearance.

HTML is not a WYSIWYG application. Trying to get a page to appear exactly as you want --- specifying fonts, spaces, colors, etc. --- will not always work. Page will look different with different browsers and monitors.

For more about style and philosophy of HTML:

http://web.mit.edu/is/help/html/philosophy.html
http://web.mit.edu/is/help/html/tips.html

A better way to control the appearance of your web-pages is with Cascading Style Sheets:

http://web.mit.edu/is/isnews/v17/n05/170508.html
Development Tips: Emacs HTML mode

There's an html-mode in Emacs that can really speed up your development. html-mode starts automatically when you FIND a file with extension .htm or .html.

Type C-h m from within the mode to see its features:

key..............binding
---..............-------
C-c..............Prefix Command
...
C-c C-v...........browse-url-of-buffer
C-c C-s...........html-autoview-mode
C-c C-c...........Prefix Command
C-c C-j...........html-line
C-c RET...........html-paragraph
C-c 1............html-headline-1
C-c 2............html-headline-2
C-c 3............html-headline-3
C-c 4............html-headline-4
C-c 5............html-headline-5
C-c 6............html-headline-6
C-c 8............sgml-name-8bit-mode
C-c ?............sgml-tag-help
C-c DEL...........sgml-delete-tag
C-c C-d...........sgml-delete-tag
C-c <right>......sgml-skip-tag-forward
C-c C-f..........sgml-skip-tag-forward
C-c <left>......sgml-skip-tag-backward
C-c C-b..........sgml-skip-tag-backward
C-c C-a..........sgml-attributes
C-c C-t..........sgml-tag
C-c C-n..........sgml-name-char
C-c TAB..........sgml-tags-invisible
C-c C-c i........html-image
C-c C-c n........html-name-anchor
C-c C-c h........html-href-anchor
C-c C-c l........html-list-item
C-c C-c c........html-checkboxes
C-c C-c r........html-radio-buttons
C-c C-c u........html-unordered-list
C-c C-c o........html-ordered-list
C-c C-c -........html-horizontal-rule

There are other HTML modes. You can copy and try either of these:
/mit/minidev/Public/Share/html-mode and
/mit/minidev/Public/Share/html-helper-mode
Development Tips: HTML Validation

There are a number of on-line HTML validation sites:

http://validator.w3.org/
The W3C HTML Validation Service (wcs recommended)

http://ejk.cso.uiuc.edu/cgi-bin/weblint
“Web Lint” picks the “lint” off of your HTML code.

http://www.htmlhelp.com/tools/validator/
WDG HTML Validator

http://www.w3.org/People/Raggett/tidy/
Clean up your Web pages with HTML TIDY

Want more? Try a Google.com search for html validator
How to Learn More

**Books:** There are lots of them. Especially so-called “guides” to sites on the WWW -- but the Web changes so rapidly they’re probably out of date before they’re published. Be careful.

**URLs:**

Electronic Publishing at MIT Using HTML

   [http://web.mit.edu/is/help/html/](http://web.mit.edu/is/help/html/)

Publishing on the WWW

   [http://web.mit.edu/cwis/publishing.html](http://web.mit.edu/cwis/publishing.html)

(Both contain extensive lists of articles and info.)

**Other Pages:** Look at other peoples’ pages:

   **View ➔ Page Source**

   to see how they use various features of HTML.
What Now?

• Make your own homepage.

• Put a template file in your ~/www for your future pages. Give all your pages a uniform look.

• If you have a particular hobby or interest, start saving information about it to share via your pages. (Note: keeping your own list of bookmarks to relevant sites will be useful for you, but the Web probably doesn’t need another page that’s merely just list of pointers to other people’s lists of pointers to other people’s... you’ll see.)


• Have fun.
**Athena: First Course (1st Course)**
Our new introduction to the Athena academic computing environment: what you can do on Athena, your account, finding help, and other basics. Also includes E-mail, Zephyr, WebSIS, and Residential Computing.
Suggested pre-requisites: None

**Working on Athena: Files and Unix (Working)**
Files, directories, setting permissions, job control, and more. What every new user should know about Unix, Athena’s operating system.
Suggested pre-requisites: 1st Course

**Latex (Latex)**
An introduction to Latex, a widely-used text formatter, used for converting a text file into an attractive, professional-looking document. It is a powerful and flexible program, with the capability to typeset many foreign characters and very complex mathematical text.
Suggested pre-requisites: 1st Course, Working

**FrameMaker (Frame)**
FrameMaker is a powerful word-processing and document-preparation package now available on Athena.
Suggested pre-requisites: 1st Course, Working

**Latex for your Thesis (Latex Ths)**
Using the Latex text formatter to produce a fully-featured thesis that meets all MIT format requirements.
Suggested pre-requisites: Latex, some Latex experience

**FrameMaker for your Thesis (Frame Ths)**
FrameMaker, with a special template, can be used to produce an MIT thesis that meets all Institute formatting requirements.
Suggested pre-requisites: Frame, some FrameMaker experience

**HTML: Making a WWW Home Page (HTML)**
Covers the basic features of HTML (“Hyper-Text Mark-up Language”) the language of the World-Wide Web, as well as the steps needed to post your own Web page on Athena.
Suggested pre-requisites: 1st Course, Working

**Information Resources on Athena (Info Res.)**
A survey of the communications, help, and other resources available on Athena.
Suggested pre-requisites: 1st Course, Working

**Serious Emacs (Ser. Emacs)**
The text editor introduced in First Course has many useful features not covered in that course. This course is a must for anyone who uses Emacs more than an hour or two each week.
Suggested pre-requisites: 1st Course, Working, Emacs tutorial (on-line), some Emacs experience

**Customization on Athena (Dotfiles)**
Intended for the intermediate-level Athena user, this course will discuss the Athena login sequence and the user-configuration files (dotfiles) that affect it, as well as changes the user can make to those and other files to customize their working environment.
Suggested pre-requisites: 1st Course, Working, some Athena experience

**Math Software Overview (MSO)**
A survey of major mathematics and graphing packages available on Athena.
Suggested pre-requisites: 1st Course, Working

**Matlab (Matlab)**
An interactive program for scientific and engineering numeric calculation. Applications include: matrix manipulation, digital signal processing, and 3-dimensional graphics.
Suggested pre-requisites: 1st Course, Working

**Xess (Xess)**
a powerful and easy-to-learn spreadsheet, with a full range of mathematical, statistical, matrix, and string functions. It will be useful for scientific and engineering computations, as well as to general and financial users.
Suggested pre-requisites: 1st Course, Working

**Maple (Maple)**
A mathematics program that can perform numerical and symbolic calculations, including formal and numerical integration, solving algebraic or transcendental systems and differential equations, and series expansion and matrix manipulation. It also has extensive graphics capabilities.
Suggested pre-requisites: 1st Course, Working (or other X Windows) experience

For schedules, etc. see [http://web.mit.edu/minidev/](http://web.mit.edu/minidev/)
Do you think that your teaching and presentation skills are important for a technical career? As a minicourse instructor, you can improve them.

If you:

• Can explain technical topics clearly, or want to learn how,
• Are comfortable using Athena, and want to learn more about it,
• Need to add some teaching experience to your resume,
• Are an MIT student -- grad or undergrad...

...then we would like to talk with you.

As an Athena minicourse instructor you will:

• Present Athena minicourses during Orientation week, IAP, and each semester. Our yearly schedule is on-line at web.mit.edu/minidev/
• Earn money, including a paid training period, and
• Improve your teaching skills.

Prior Teaching Experience is NOT Required

To request an application, or more information, please visit http://web.mit.edu/minidev/Recruit/
Minicourse Questionnaire (cont’d)

Please fill out this side of the page AFTER taking the minicourse.

(please circle one in each row)

5. How was the instructor’s pace? 
   Too SLOW 1 3 5 3 1 Too FAST

6. How difficult was the course material? 
   Too EASY 1 3 5 3 1 Too HARD

7. How well did you understand the instructor? 
   POORLY 1 2 3 4 5 PERFECTLY

8. How well did the instructor answer questions? 
   POORLY 1 2 3 4 5 PERFECTLY

9. Did you have any questions you didn’t ask? 
   If yes, why not? ________________________________

10. Was any topic not covered that you had expected to learn in this course? 
    If so, what topic? ______________________________

11. Why did you take this course? (check one) 
    ❑ General Interest
    ❑ Required for a course. (Which? ________________________ )
    ❑ To be able to do something. (What? ________________________ )

12. Besides Athena, how much computer experience do you have? 
    (None) 1 2 3 4 5 (Lots)

13. How often have you used Athena in the past? (check one) 
    ❑ never
    ❑ a few times
    ❑ once a week
    ❑ several times a week
    ❑ daily

14. How would you estimate your knowledge of the subject of this course... 
    ...Before taking it? (None) 1 2 3 4 5 (Lots)
    ...After taking it? (None) 1 2 3 4 5 (Lots)

15. Additional comments:
Minicourse Questionnaire

Please fill out this side of the page BEFORE the class begins.

Minicourse Instructor: _________________________ Today’s Date: _____________

1. MIT status (circle one): 1 2 3 4 G Faculty Staff Other

2. Is this your first Athena minicourse? (circle one): YES NO

3. If No, check (✓) those you have already taken:

- Athena: First Course
- Working on Athena
- Word processing Options
- EZ
- Latex
- Latex Thesis
- FrameMaker
- FrameMaker Thesis
- Other (please specify): _________________________

4. How did you find out about THIS minicourse? (only ONE answer, please)

- Orientation (“Hitchhiker’s”) Guide
- Athena Orientation packet
- Advertisement in The Tech
- Advertisement in Voo Doo
- Flyers/Poster in hallways
- Poster in an Athena cluster
- Friend told me
- Professor or TA recommended
- Description in previous minicourse
- Other (please specify): _________________________