Week 8

This Week

- HTML
- Chmod
- Forms
- PHP
- mySQL

HTML

- HyperText Markup Language
- Used to format contents of web pages.

HTML

- 'Tags' enclose regions of page.
  - Each beginning tag has an ending tag.
  - In general, close most recently opened first.
- 'Tags' may have 'attributes'.
  - Attributes are like parameters for a tag.

<tag attribute="value">

Stuff.

</tag>

chmod

- Used to restrict access to files and directories accessible via the internet.

- Permissions assigned by setting three octal values which correspond to permissions to 'read', 'write', or 'execute'.

- User, Group, and World have distinct permissions.

Forms

- Allow input of different forms on a web page.
- 'Inputs' include:
  - Checkboxes
  - Radio buttons
  - Text boxes
  - Submit buttons
- Information from forms may be 'submitted' and sent to another page for use.

CSS

- CSS: Cascading Style Sheets
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- Specifically formats different types of elements
- May be included in separate file or in-lined

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CSS

- 'style' attributes allow for formatting of tag contents using CSS.
- Examples:

  align: center

  font-size: small

  color: blue

  display: block

CSS

- Can also define formatting in an external .css file which is linked in.

Format

Selector (name of tag)

{

  declarations;

}

PHP

- PHP: PHP Hypertext Preprocessor

- When accessed, dynamically generates a webpage which it then outputs to browser.

- PHP code enclosed in <? ?> tag.

PHP

C	PHP
Compiled	Interpreted
Strongly-typed	Loosely-typed

mySQL

- SQL – Structured Query Language

- Database software which allows us to store a collection of data as 'entries' containing a set of distinct 'fields' containing values.

- Databases contains tables, which contain rows, which contain fields.

mySQL

- INSERT
  - Insert a new entry.

- DELETE
  - Remove an existing entry.

- SELECT
  - Select one or more entries.

- UPDATE
  - Update the fields of an existing entry.

mySQL

WARNING: It is *always* important to 'escape' the contents of any string passed by the user which is to be included in a database query.

"INSERT INTO students VALUE ('<user string>');"

What could possibly go wrong?

mySQL