



Computer Science S-75

Building Dynamic Websites

Harvard Summer School
<https://www.cs75.net/>

Lecture 1: PHP

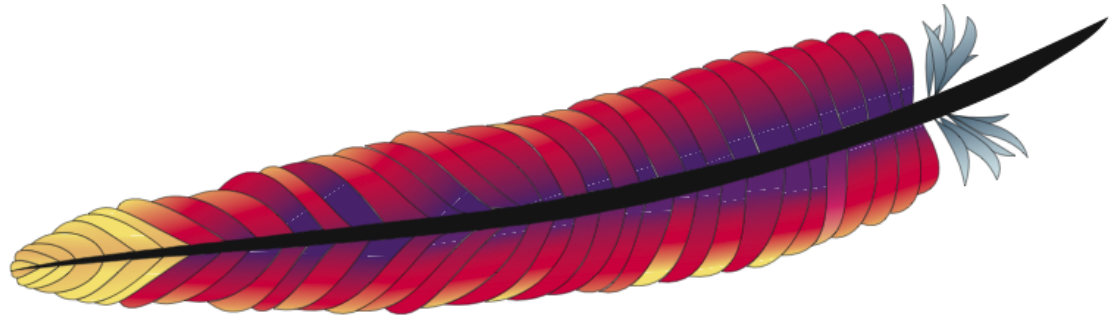
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HTTP



Apache

<http://httpd.apache.org/docs/2.2/>



Apache

```
# www.cs75.net
<VirtualHost *:80>
    CustomLog logs/www.cs75.net-access_log common
    DocumentRoot /home/cscie75/srv/www/www.cs75.net/html
    ErrorLog logs/www.cs75.net-error_log
    ServerAdmin help@cs75.net
    ServerAlias cs75.net
    ServerName www.cs75.net
</VirtualHost>
<VirtualHost *:443>
    CustomLog logs/www.cs75.net-access_log common
    DocumentRoot /path/to/htdocs
    ErrorLog logs/www.cs75.net-error_log
    ServerAdmin dmalan@harvard.edu
    ServerAlias cs75.net
    ServerName www.cs75.net
    SSLCertificateChainFile /path/to/gd_bundle.crt
    SSLCertificateFile /path/to/cs75.crt
    SSLCertificateKeyFile /path/to/cs75.key
    SSLEngine on
</VirtualHost>
```

mod_rewrite

```
RewriteEngine On
```

```
RewriteCond %{HTTP_HOST} !^www\.cs75\.net [NC]
```

```
RewriteRule (.*) https://www.cs75.net/$1 [R=301,L]
```

http://httpd.apache.org/docs/2.2/mod/mod_rewrite.html

CS50 Appliance



XAMPP

- Linux, Mac OS, Solaris, Windows
- Apache
- MySQL
- PHP
- Perl



Forms

- Text Fields
`<input name="email" type="text" />`
- Password Fields
`<input name="password" type="password" />`
- Hidden Fields
`<input name="id" value="123" />`
- Checkboxes
`<input checked="checked" name="remember" type="checkbox" />`
- Radio Buttons
`<input name="gender" type="radio" value="F" />`
`<input name="gender" type="radio" value="M" />`
- Drop-Down Menus
`<select name="state">`
 `<option value=""></option>`
 `<option value="MA"></option>`
 `<option value="NY"></option>`
`</select>`
- Text Areas
`<textarea name="comments"></textarea>`

Forms



PHP

<http://us3.php.net/manual/en/>



suPHP

<http://www.suphp.org/>





<?php

<http://us2.php.net/manual/en/langref.php>

Variables

“A valid variable name starts with a letter or underscore, followed by any number of letters, numbers, or underscores.”

Types

- boolean
- integer
- float
- string

- array
- object

- resource
- NULL

- mixed
- number
- callback



References

<http://us2.php.net/manual/en/language.references.php>

Superglobals

- `$_COOKIE`
- `$_ENV`
- `$_FILES`
- `$_GET`
- `$_POST`
- `$_REQUEST`
- `$_SERVER`
- `$_SESSION`



Arrays

<http://us2.php.net/array>

Loops

- `for`
- `while`
- `do ... while`
- `foreach`



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