



# Server-Side Languages

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## Welcome to SSL Day 2!

Controllers and pretty URLs

Day 2



# Server-Side Languages

## Overview

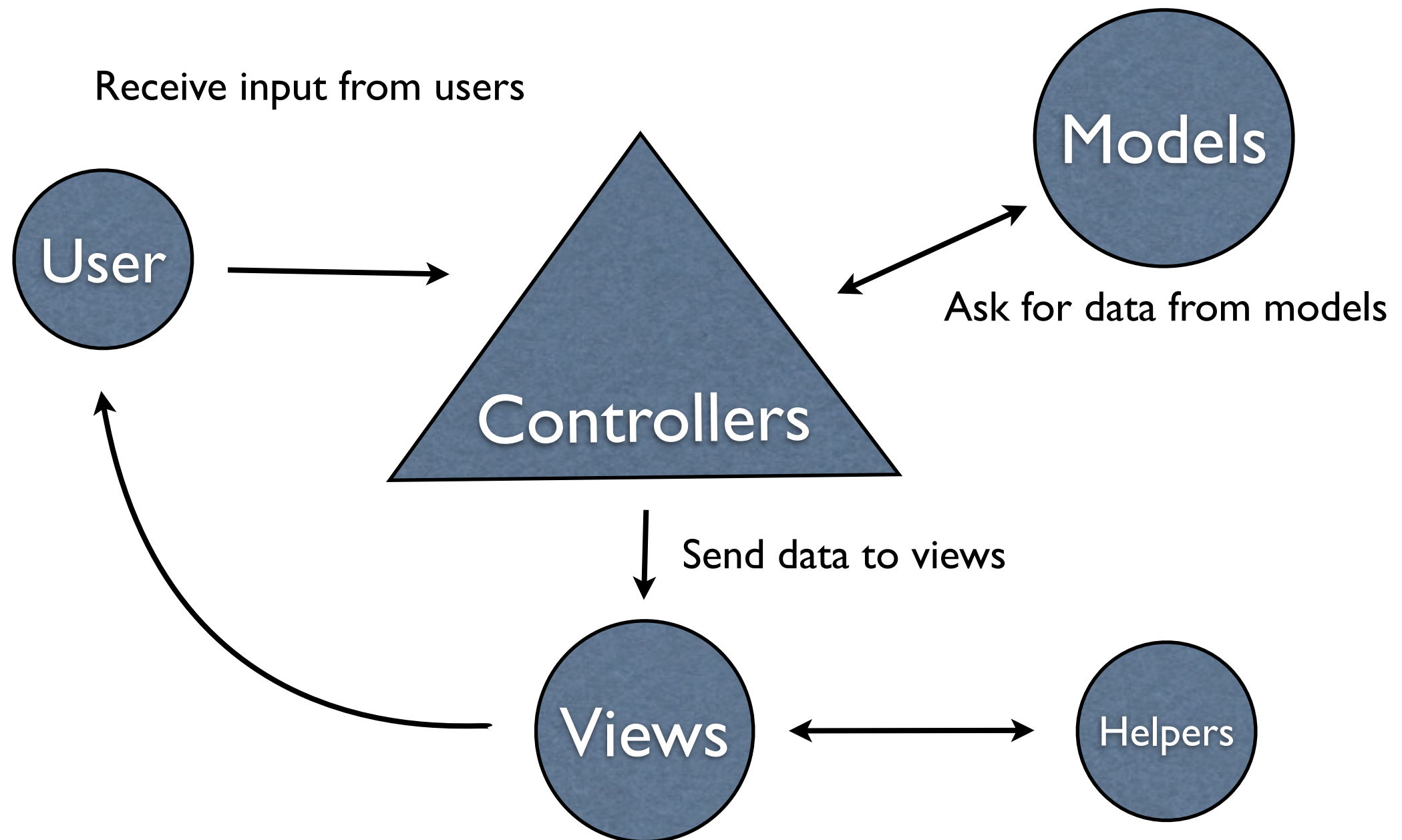
- Questions about Day 1 or Lab 1?
- Watch Screencasts
- Controllers
- URL Redirects

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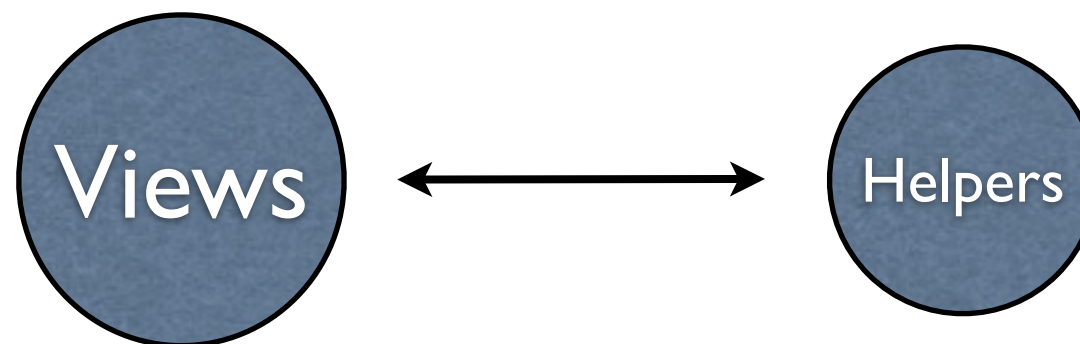
## MVC





# Server-Side Languages

## Helpers



The helper class constructs HTML for the views.



# Server-Side Languages

## Responding to the URI in PHP

```
<?php

if (empty($_GET["controller"])) {
    $con = 'home';
} else {
    $con = $_GET["controller"];
}

if ($con == 'home') {
    include "controllers/home.php";
    $controller = new Home();
    $controller->get($_GET);
} else if ($con == 'utilities') {
    include "controllers/utilities.php";
    $controller = new Utilities();
    $controller->get($_GET);
} else if ($con == 'user') {
    include "controllers/user.php";
    $controller = new User();
    $controller->get($_GET);
}

?>
```

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## Top of the PHP Home controller

```
<?php

/*
    This is our main interface for the user
    for handling the displaying of static pages
*/

require_once 'models/view.php';

class Home {
    function get($pairs, $data = '') {

        if (empty($pairs['action'])) {
            $action = 'home';
        } else {
            $action = $pairs['action'];
        }

        $view_model = new View();
        $view_model->getView("header");
    }
}
```

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# Server-Side Languages

## Responding to the URI in python

```
#!/usr/bin/python

import cgi

pairs = cgi.FieldStorage()

if 'controller' not in pairs:
    con = 'home'
else:
    con = pairs.getvalue('controller')

if con == 'home':
    from controllers.home import Home
    Home().get(pairs)
elif con == 'news':
    from controllers.news import News
    News().get(pairs)
elif con == 'user':
    from controllers.user import User
    User().get(pairs)
else:
    # default
    from controllers.home import Home
    Home().get(pairs)
```

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# Server-Side Languages

## Top of the python home.py controller

```
#!/usr/bin/python

from models.view import View

class Home():
    def get(self, pairs, data={}):

        if 'action' not in pairs:
            action = 'home'
        else:
            action = pairs.getvalue('action')

        view_model = View()
        view_model.print_header()
        view_model.get_view("header", data)
        view_model.get_view("navbar", data)

        if action == 'home':
            view_model.get_view('home', data)
        elif action == 'contact':
            view_model.get_view('contact', data)
```

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# Server-Side Languages

## Making nicer URLs

Add to .htaccess in your root web directories

```
RewriteEngine On  
RewriteRule ^([a-z]+)/([a-z]+)$ /index.py?controller=$1&action=$2
```

/etc/apache2/extra/http-vhosts.conf

```
<VirtualHost *:80>  
    DocumentRoot "/Users/tbsmith/Sites/python.ssl1304.com"  
    DirectoryIndex index.py  
    <Directory /Users/tbsmith/Sites/python.ssl1304.com>  
        Options +FollowSymLinks  
    </Directory>  
    AddHandler cgi-script .py  
    ServerName python.ssl1304.com  
    ErrorLog "/var/log/apache2/ssl1304-python-error_log"  
    CustomLog "/var/log/apache2/ssl1304-python-access_log" common  
</VirtualHost>
```

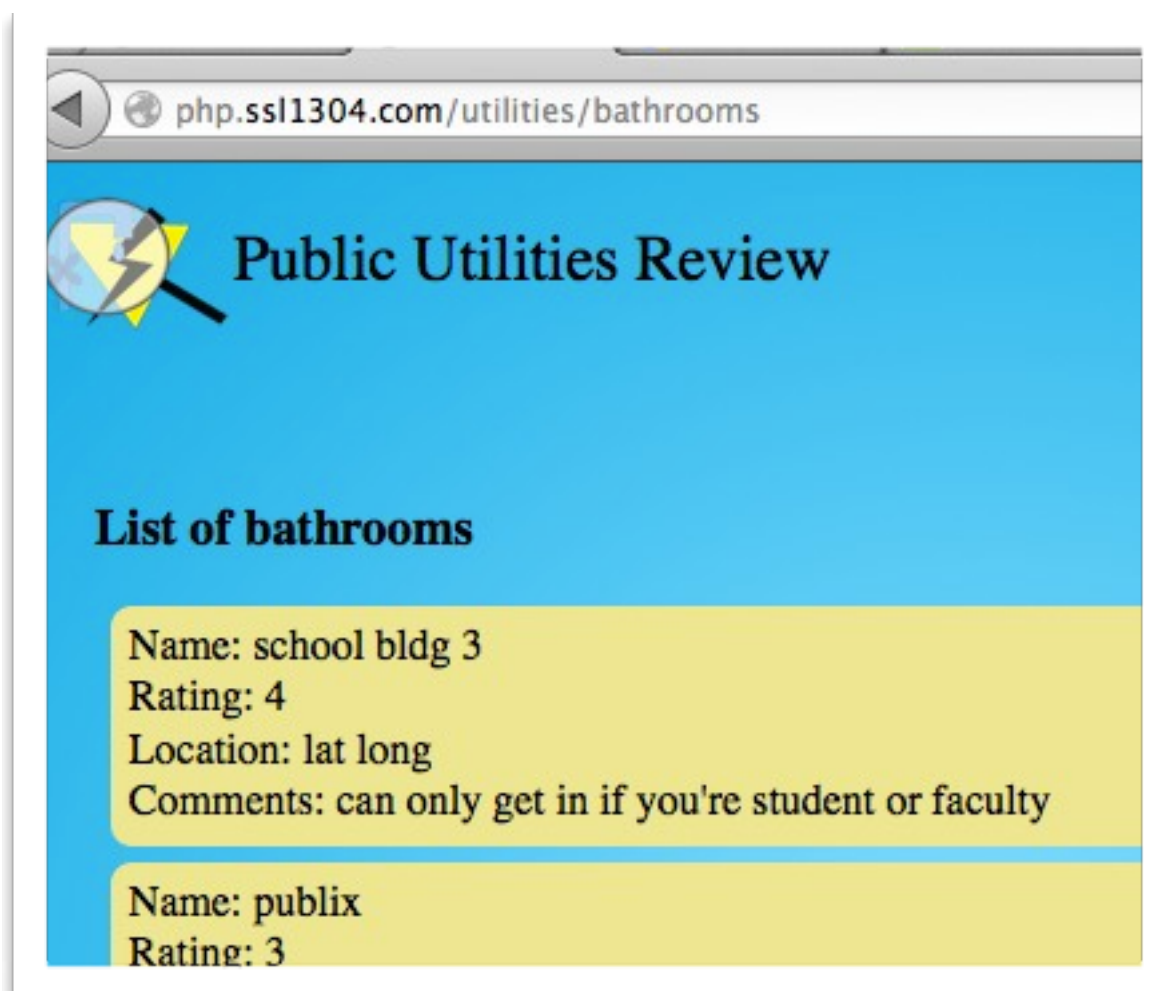
Add this:

Restart  
apache!



# Server-Side Languages

## Pretty URL Test





# Server-Side Languages

## Best Practices for URL SEO

- Number of words  $\leq 3$
- Use hyphens to separate words
- No weird characters

[example.com/category-keyword/primary-keyword](#)



# Server-Side Languages

## Lab 2: Using controllers and pretty URLs

- Add controllers to your two websites
- Rewrite your URLs for readability and SEO
- Make a screencast tour of your code

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