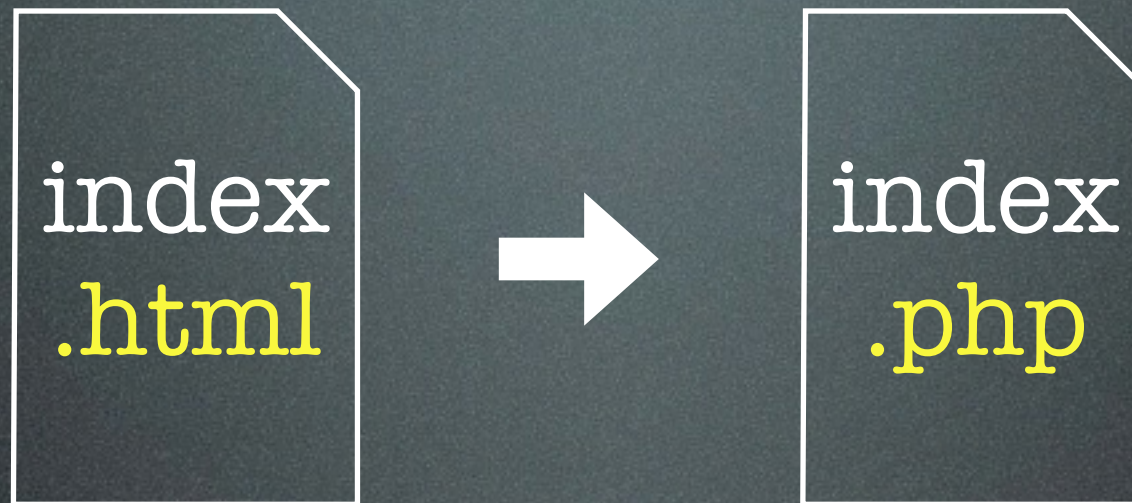# PHP

Hypertext Preprocessor

php

- designed for server-side html programming

  - but a language in its own right

- usually processes files

  - does have command-line interface

php

index .html ➡ index .php

`<?php`   `/* magical PHP awesomeness goes here! */`   `?>`

"open tag"   "close tag"

technically called Processing Instructions

php


```
<?php print 'Hello, World!'; ?>
```

"command" string literal semi-colon

"statement"

php

```php
<?php

print 'Hello, World!';
print 'Today\'s date is Monday, March 3 2014.';

?>
```

"escape sequence"

php

```php
<?php

print 'Hello, World!';
print '<br>';
print 'Today\'s date is Monday, March 3 2014.';

?>
```

php

```php
<?php

echo 'Hello, World!';
echo '<br>';
echo 'Today\'s date is Monday, March 3 2014.';

?>
```

php

```php
<?php

print 'Hello, World!';
print '<br>';
print 'Today\'s date is '.date('l, F j Y').'.';

?>
```

built-in function invocation

argument to function

string concatenation operator

php

- http://php.net/date

php exercise

- Have your Hello, World page display the current date like this:

  Monday, March the 3rd, 2014

using date()

php: conditional

```php
<?php

if (date('D') == 'Mon') {
  print '<em>I love Mondays!!!</em>';
}

?>
```

php: conditional

```php
<?php if (date('D') == 'Mon') : ?>          PHP mode

    <p>I love Mondays!!!</p>                 HTML mode

<?php else :   ?>                            PHP mode

    <p>Bleh.</p>                             HTML mode

<?php endif;   ?>                            PHP mode
```

php exercise

- using the date function have your Hello, World page

  - load a "light" css stylesheet during the morning

  - load a "dark" css stylesheet during the night.

optional arguments

- date() takes an optional argument: a timestamp

- if you don't pass that argument, date defaults to using the current time

- how could you use this?

php exercise

- using date() and strtotime() print

    In 82 days it will be _____

    with the correct answer in any format.

php

```php
<?php

print 'Hello, World!';
print '<br>';
print 'Today\'s date is '.date('l, F j Y').'.'.<br>';
print pickles pickles pickles!

?>
```

php

- errors
  - one possibility: white screen
    - find error log output
    - may have to configure PHP
  - or: error print out onscreen
    - but insecure on production

php

```php
<?php

print 'Hello, World!';
print '<br>';
print 'Today\'s date is '.date('l, F j Y').'.'.'<br>';
print 'pickles pickles pickles!';

?>
```

php

```php
<?php

print 'Hello, World!';
print '<br>';
print 'Today\'s date is '.date('l, F j Y').'.'.'<br>';
print 'pickles pickles pickles!<br>';
print '1 + 1 is '.(1 + 1);

?>
```

integer

addition
operator

expression

php

```php
<?php

print '
  Hello, World!<br>
  Today\'s date is '.date('l, F j Y').'.<br>
  pickles pickles pickles!<br>
  1 + 1 is '.(1 + 1)
;

?>
```

php

- http://php.net/error_log

php exercise

- use error_log

- figure out where it prints its argument