

PHP Part 4

Intro to PHP

EGR 223 - SE Approach to HCI

HW 11 Due before next class

- For this exercise, list 10 cities in the world that you would like to visit.
- Create an array with the 10 cities of your choice.
 - 1) Print these values separated by commas, using a loop to iterate over the array.
 - 2) Sort the array, then print the values, again using a loop.
 - 3) Use `array_push()` to add 1 more city in the array and print out all the cities in reverse order
 - 4) Use `in_array("string", $array)` to check if the city "Van" is in your array. If it is, print "Yay!", else print "Huh?"
 - 5) Use `implode` to convert the array to a string delimited by "^", then print out the string.
 - 6) Use `explode` to convert the string from #5 back to an array and print it out using a loop.

HW 11 Due before next class

- 7) Put all of the above inside your blog
 - Create a new entry and add some verbiage
 - One output per line (6 lines total)
- 8) Change your **blog.php** to use a separate file for **menu.html** and separate file for **footer.html**
 - Then use **PHP include** to bring in the menu and footer to your blog page

TÜRKİYE SİYASİ HARİTASI



Today's Topic

- PHP File Functions

2 Ways of Reading Files

contents of foo.txt	file("foo.txt")	file_get_contents("foo.txt")
Hello how are you? I'm fine	array("Hello\n", #0 "how are\n", #1 "you?\n", #2 "\n", #3 "I'm fine\n" #4)	"Hello\n how are\n you?\n \n I'm fine\n"

- ❑ `file` returns lines of a file as an array
- ❑ `file_get_contents` returns entire contents of a file as a string

Reading/writing an entire file

```
# reverse a file
$text = file_get_contents("poem.txt");
$text = strrev($text);
file_put_contents("poem.txt", $text);
```

PHP

- `file_get_contents` returns entire contents of a file as a string
- `file_put_contents` writes a string into a file, replacing any prior contents

Appending to a file

```
# add a line to a file
$new_text = "P.S. ILY, GTG TTYL!~";
file_put_contents("poem.txt", $new_text, FILE_APPEND);
```

PHP

old contents

Roses are red,
Violets are blue.
All your base,
Are belong to us.

new contents

Roses are red,
Violets are blue.
All your base,
Are belong to us.
P.S. ILY, GTG TTYL!~

The `file` function

```
<?php
# display lines of file as a bulleted list
$lines = file("todolist.txt");
foreach ($lines as $line) {
?>
    <li> <?= $line ?> </li>
<?php
}
?>
```

PHP

- `file` returns the lines of a file as an array of strings
 - each string ends with `\n`
 - does not show newline when viewing the page, but shows newline when viewing the source
 - to strip the `\n` off each line, use optional second parameter:

```
$lines = file("todolist.txt", FILE_IGNORE_NEW_LINES);
```

PHP

Unpacking an array: `list`

```
list($var1, ..., $varN) = $array;
```

PHP

```
$values = array("homer", "45", "m", "96");  
...  
list($username, $age, $gender, $iq) = $values;
```

PHP

- the `list` function accepts a comma-separated list of variable names as parameters
- use this to quickly "unpack" an array's contents into several variables
- a convenience, so you can refer to `$username` instead of `$values[0]`, etc.

Fixed-length files, `file` and `list`

```
Homer Simpson  
(800)123-1234  
111-222-3333
```

contents of file `personal.txt`

```
list($name, $phone, $ssn) = file("personal.txt");  
PHP
```

- reads the file into an array of lines and unpacks the lines into variables
- Need to know a file's exact length/format

Recall Splitting/joining strings

```
$array = explode(delimiter, string);  
$string = implode(delimiter, array);
```

PHP

```
$classString = "CS 380 01";  
$classArray = explode(" ", $classString);  
              # ("CS", "380", "01")  
$classString = implode("...", $classArray);  
              # "CSE...380...01"
```

PHP

- `explode` and `implode` convert between strings and arrays

Example explode

```
Harry Potter, J.K. Rowling  
The Lord of the Rings, J.R.R. Tolkien  
Dune, Frank Herbert
```

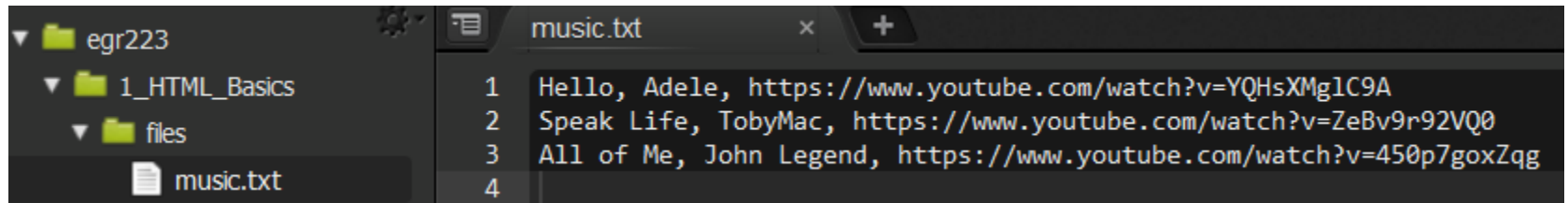
contents of input file books.txt

```
<?php foreach (file("books.txt") as $book) {  
    list($title, $author) = explode(",", $book);  
?>  
    <p> Book title: <?= $title ?>, Author: <?= $author ?> </p>  
<?php  
}  
?>
```

PHP

HW 12 Due Before Next Class

- 1) Create a text file called "music.txt" with 3 of your favorite songs with this format:
 - Name of song, Singer, Link to youtube



- 2) In your **blog.php**, create an HTML output (new blog entry) that will read the file and list the 3 songs in an ordered list.
- 3) Each song must have a link to youtube to play the song
 1. [Hello by Adele](https://www.youtube.com/watch?v=YQHsXMg1C9A)
 2. [Speak Life by TobyMac](https://www.youtube.com/watch?v=ZeBv9r92VQ0)
 3. [All of Me by John Legend](https://www.youtube.com/watch?v=450p7goxZqg)