

PHP (Part 2)

ICS4U - Mr. Emmell

Array Indices!

Arrays do not have to have sequential indices (0,1,2,etc...)

```
Ex: $myArr = [];
$myArr[3] = 42;
$myArr[12] = 100;
print_r($myArr);
```

```
Array
(
        [3] => 42
        [12] => 100
)
```

There are NO OTHER indices other than these two.

echo \$myArr[0]; // would throw an error

Array Indices!

Arrays do not even need NUMERIC indices!

```
$myArr = [];
$myArr['Kiwis'] = 5;
$myArr['Apples'] = 20;
$myArr['Sour Grapes'] = 42;
print_r($myArr);
```

Array Indices!

- Both of these can be defined by creating the array with key=>value pairs:
 - O key refers to the index
 - O value refers to the value at that index

```
$myArr = array(3=>42,12=>100);
```

```
$myArr = array("Kiwis"=>5,"Apples"=>20,"Sour Grapes"=>42);
```



The wonderful 'foreach' loop

You can even ask it to tell you what the indexes are:

```
foreach($fruit as $kind => $quant) {
        echo "You have $quant $kind\n";
}
```

```
Fruit Array
(
    [kiwi] => 20
    [oranges] => 12
    [apples] => 9
    [bananas] => 42
)
```

Output
You have 20 kiwi
You have 12
oranges
You have 9 apples
You have 42
bananas

The problem with quotes
The problem with quotes How would we echo the following string:

<input type="number" name="var1" id="var1"/>

It uses double quotes! The echo function <u>also</u> uses double quotes...

echo "<input type="number" name="var1" id="var1"/>";

The problem with quotes...

How would we echo the following string:

<input type="number" name="var1" id="var1"/>

It uses double quotes! The echo function also uses double quotes...

echo "<input type="number" name="var1" id="var1"/>";

echo will think that it only needs to print out <input type= and then the rest will error.

Two solutions

- Escape the quotes you want to actually print out
 O echo "<input type=\"number\" name=\"var1\" id=\"var1\"/>";
- Switch to single quotes where possible
 O echo "<input type='number' name='var1' id='var1'/>";
- Sometimes you will need to use both approaches!

File I/O with PHP

Mostly the same as C, which is nice!

Process is the same:

- Open the file (fopen)
- Use that open file to read/write
- Close the file (fclose)

File I/O Examples:

```
$file = fopen("myfile.csv","r"); //only use "r" or "a" for the upcoming assignment
```

// ... do some stuff

fclose(\$file);

File I/O Examples (fputcsv):

File I/O Examples (fgetcsv):

```
How about reading?
$lineArr = fgetcsv($file);

or
while ($lineArr = fgetcsv($file)) {
         print_r($lineArr);
}
```