

PHP Similar to Java

within $\langle \quad \rangle$ brackets

$$\$varname = value;$$

```
echo $varname; & print
```

Arrays

- `$arr = [val, val2, val3];`
- `$first = $arr[0];`
- `$arr[3] = new-val;`
- `print-r($arr);` ← recursively prints array
- `count($arr);` ← tells length of arr
- `$first = reset($arr);` ← returns 1st item
(resets iterator ptr)
- `$end = end($arr);` ← returns last item

Stacks / Queues - use arrays as stacks / q's

```
$stuck = [1, 2, 3];
```

```
array - push ($stack, value);
```

array.pop(\$stack);

array-merge (Bar1, Bar2); ← concatenate

array.slice (arr, 3, 2)
 n # of items
 does not return

array-splice [0, 1, 2, 3, 4, 5] → gives 3, 4
↑
removes segment

- Arrays actually are ordered maps
↳ keys & values
- \$hash = ["key" => "value", ...] ;
on
- \$hash ["key"] = "value" ;
- if (array-key-exists ("key", "value") { ... }
- array-keys (\$hash); ← returns array of keys

Strings

```
$S = "string" ;  
$S1 = "hello $S" ;  
$S2 = $S . " " . $S1 ;  
                    ← concatenates
```

```
strlen( $S ); ← len  
$e2 = substr ( $S , strlen( $S ) - 3 ) ;  
                    ← only gives last 3 letters
```

```
$list = explode( " , " , $word );  
                    ← basically split at , → creates 1:1:1
```

→ back the

`$word = implode(" ", $list);` ^{opposite}

for loops

- `for ($i = 0; $i < count($arr); $i++) { ... }`
(similar to `++`)
- `foreach ($array as $var) { echo $var }`
- `foreach ($hash as $name => $val) { ... }`

while loop

- `while ($counter < 10) { ... }`
- can use `break/continue`

functions

- `function name ($param) { ... }`
 `return $val;`
}
- `name ($param_val);`
- loading other php files:
 `include ("filename.php")`
 : can call funct from file

Objects / Classes

- PHP object-oriented

- class Student {

// constructor

public function __construct(\$f-n, \$l-n) {

\$this->first-name = \$f-n;

\$this->last-name = \$l-n;

}

public function say-name() {

echo \$this->first-name . " " . \$this->last-name;

}

}

\$alex = new Student("Alex", "Jones");

\$alex->say-name();

- members - vars that belong to object

Inheritance

- class MathStudent extends Student { ... }

can use
methods from

- public - can use outside class
- private - cannot

Exceptions

• try { ...

 } catch (Exception e) {

 echo "Exception"

 } finally { ... } ← run after try/catch regardless

• if (some bool) {

 echo "Right" }

causes fatal error

else {

 throw new Exception("bad");

}