

# Useful tools pt. 1

# Length of a string

- Check how many characters is in a string

```
<?php
$myString = "Hello, world!";
$length = strlen($myString);

echo "The length of the string is: " . $length;
// Output: The length of the string is: 13
?>
```

# Accessing individual characters in string

- Like Python, you can treat a string in a variable as an array and access specific characters.

```
<?php  
$myString = "Hello";  
  
echo $myString[0]; // Outputs: H  
echo $myString[1]; // Outputs: e  
echo $myString[4]; // Outputs: o  
?>
```

# Check for Uppercase

- Use preg\_match
- Returns True is A - Z in cap is featured in the string  
false if not.

```
function hasUppercase($string) {  
    if (preg_match('/[A-Z]/', $string)) {  
        return true;  
    } else {  
        return false;  
    }  
}
```

# Check for lowercase

- Use preg\_match
- Returns True is a - z in cap is featured in the string if not.

```
function hasLowercase($string) {  
    if (preg_match('/[a-z]/', $string)) {  
        return true;  
    } else {  
        return false;  
    }  
}
```

# Check for a digit

- Use preg\_match
- Returns True if 0 - 9 is featured in the string  
false if not.

```
function hasNumber($string) {  
    // The regular expression '/[0-9]/' or '/\d/' checks for any digit  
    if (preg_match('/[0-9]/', $string)) {  
        return true;  
    } else {  
        return false;  
    }  
}
```

# If a string exists in another string

- use str\_contains to look for a substring inside another string.

```
if(str_contains($_SESSION['msg'], needle: "ERROR")){
    $msg = "<div id='error'> USER MESSAGE: ". $_SESSION['msg']. "</div>
} else {
    $msg = "<div id='umsg'> USER MESSAGE: ". $_SESSION['msg']. "</div>
}
```

# Looking for a special character

- Again use preg\_match
- It whitelists and looks for anything not in the list given (green text)

```
function hasSpecialCharacter($string) {  
    if (preg_match('/[^a-zA-Z0-9_]/', $string)) {  
        return true; // Found a character that is not a letter, number or underscore  
    } else {  
        return false;  
    }  
}
```