



# PHP Cheat Sheet - by [HTMLCheatSheet.com](#)

## Basics

### Editor

```

1 <?php
2 $i = "World!";
3 echo "Hello " . $i;
4
5 // This is a comment
6 $prime = array(2,3,5,7,11);
7 for( $i = 0; $i < 5; $i += 1) {
8     echo "\n" . $prime[$i];
9 }
10
11 function add($a, $b) {
12     return $a + $b;
13 }
14 echo "\n30 + 7 = " . add(30, 7);
15 ?>
```

### Loops

#### For Loop

```
// For loop count to 10
for( $i = 0; $i < 10; $i += 1) {
    echo $i . "\n";
}
```

#### Foreach Loop

```
// Declare an array
$arr = array("tesla", "bmw", "audi");
// Loop through the array elements
foreach ($arr as $element) {
    echo "$element ";
}
```

#### While Loop

```
// Declare a number
$i = 10;
// Counting down to 0
while ($i >= 0) {
    echo $i . "\n";
    $i--;
}
```

#### Do-While Loop

```
$i = 10;
// Counting back to 0
do {
    echo $i . "\n";
    $i--;
} while ($i >= 0);
```

### Useful Links

[PHP.net](#)
[PHP Compiler Online](#)
[MS Copilot](#)
[Stack Overflow](#)
[DEV .to](#)
[PHP The Right Way](#)

#### Hello World!

```
<?php
$i = "World!";
echo "Hello ".$i;
?>
```

#### Comments

```
<?php
// One liner

# another one liner

/* This is
a multiline
comment
*/
?>
```

#### Defining Functions

```
function sayHello() {
    echo "Hello!";
}
sayHello(); // Outputs: Hello!
```

#### Variables

```
$i = 1;
$pi = 3.14;
$stringName = "value";
$names = array("John", "Jane", "Jack");
var_dump($names);
```

#### var\_dump

Dumps information about a variable.

```
$a = array(1, 2, array("a", "b", "c"));
var_dump($a);
```

#### Objects

```
class foo {
    function do_foo() {
        echo "Doing foo.";
    }
}
$bar = new foo;
$bar->do_foo();
```

#### Escaping characters

```
echo "\n"; //New line
```

Line feed	\n
Carriage return	\r
Horizontal tab space	\t
Vertical tab	\v
Escape characters	\e
Form (page or section separator)	\f
Backslash	\\\
Dollar sign	\\$
Single quote	\'
Double quote	\\"

## Operators

[Buy Scripts from CodeCanyon](#)[SitePoint](#)[PHP Builder](#)[Reddit r/PHP](#)[Tutorials Point](#)[Geeks For Geeks](#)[PHP Classes](#)[phpMyAdmin](#)[PHP Beautifier](#)

## Conditions ☰

### If statement

```
if (condition) {
    // execute this if condition is true
}
```

### If - Else

```
if (condition) {
    // do this if condition is true
} else {
    // do this if condition is false
}
```

### If - Elself - Else

```
if (condition) {
    // code if condition is true
} elseif (condition2) {
    // condition is false and condition2 is true
} else {
    // if none of the conditions are met
}
```

### Switch Statement

```
switch (n) {
    case a:
        //code to execute if n=a;
    break;
    case b:
        //code to execute if n=b;
    break;
    case c:
        //code to execute if n=c;
    break;
    // more cases as needed
    default:
        // if n is neither of the above;
}
```

### Ternary

Variable = (Condition) ? (Statement1) : (Statement2);

```
$result = condition ? value1 : value2;
```

Is the same as:

```
if (condition) {
    $result = value1;
} else {
    $result = value2;
}
```

## Functions 🐾

### Parameters

```
function greet($name) {
    echo "Hello " . $name;
}
greet("John");
// Outputs: Hello John
```

Hover your mouse for explanation.

$\$x + \$y$	Addition
$\$x - \$y$	Subtraction
$\$x * \$y$	Multiplication
$\$x / \$y$	Division
$\$x \% \$y$	Modulus
$\$x ** \$y$	Exponentiation

### Assignment

$x = y$	$x = y$
$x = x + y$	$x += y$
$x = x - y$	$x -= y$
$x = x * y$	$x *= y$
$x = x / y$	$x /= y$
$x = x \% y$	$x \% = y$

### Comparison

$\$x == \$y$	Equal
$\$x === \$y$	Identical
$\$x != \$y$	Not equal
$\$x <> \$y$	Not equal
$\$x !== \$y$	Not identical
$\$x > \$y$	Greater than
$\$x < \$y$	Less than
$\$x >= \$y$	Greater than or equal to
$\$x <= \$y$	Less than or equal to
$=++\$x$	Pre-increment
$\$x++$	Post-increment
$--\$x$	Pre-decrement
$\$x--$	Post-decrement

### Logical

$! \$x$	Not
$\$x \text{ and } \$y$	$\$x \&& \$y$ And
$\$x \text{ or } \$y$	$\$x    \$y$ Or
$\$x \text{ xor } \$y$	Xor

### String

$\$s1 . \$s2$	Concatenation
$\$s1 .= \$s2$	Concatenation assignment

### Arrays

$\$x + \$y$	Union
$\$x == \$y$	Equality
$\$x === \$y$	Identity
$\$x != \$y$	Inequality
$\$x <> \$y$	Inequality
$\$x !== \$y$	Non-identity

## Arrays ☰

### Indexed arrays

```
$colors = array("Red", "Green", "Blue");
echo $colors[0]; // Outputs: Red
```

### Associative arrays

**Default Parameters**

```
function greet($name = "Visitor") {
    echo "Hello, " . $name;
}
greet(); // Outputs: Hello, Visitor
```

**Return Values**

```
function add($a, $b) {
    return $a + $b;
}
$result = add(3, 5);
// $result is 8
```

**Variable Scope**

```
$number = 10;
function multiplyByTwo() {
    global $number;
    $number *= 2;
}
multiplyByTwo();
echo $number; // Outputs: 20
```

**Anonymous Functions**

```
$greet = function($name) {
    echo "Hello, " . $name;
};
$greet("Alice"); // Outputs: Hello, Alice
```

**Built-in Functions**

Built-in functions for various tasks, such as string manipulation, array handling, file operations etc..

- String:** strlen(), str\_replace(), substr()
- Array:** array\_merge(), array\_pop(), array\_keys()
- Math:** abs(), ceil(), floor()
- Date:** date(), strtotime(), mktime()
- File:** fopen(), fwrite(), fread()

**PHP Forms** **\$\_GET**

It's used for retrieving data from URL parameters (query string).

```
// URL: html16.com?x=1&y=2
$x = $_GET['x']; // $x will be 1
```

**\$\_POST**

Used for retrieving data from form submissions via HTTP POST method.

```
$username = $_POST['username'];
// Variable will contain the value entered in the
Sent through form.php
```

```
<form method="post" action="form.php">
    <input type="text" name="username">
    <input type="submit">
</form>
```

**\$\_REQUEST**

A general-purpose array that combines \$\_GET, \$\_POST, and \$\_COOKIE.

Example for the same HTML as above:

```
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_REQUEST['username'];
```

```
$age = array("Peter" => 35, "Ben" => 37, "Joe" => 39);
echo $age['Peter']; // Outputs: 35
```

**Multidimensional arrays**

```
$students = array(
    "John" => array("Math" => 123, "Science" => 115),
    "Jane" => array("Math" => 789, "Science" => 856)
);
echo $students['John']['Math']; // Outputs: 123
```

**Array Functions**

Hover your mouse for explanation

array\_change\_key\_case, array\_chunk, array\_column  
array\_combine, array\_count\_values, array\_diff  
array\_diff\_assoc, array\_diff\_key, array\_diff\_uassoc,  
array\_diff\_ukey, array\_fill, array\_fill\_keys, array\_filter  
array\_flip, array\_intersect, array\_intersect\_assoc,  
array\_intersect\_key, array\_intersect\_uassoc,  
array\_intersect\_ukey, array\_key\_exists, array\_keys,  
array\_map, array\_merge, array\_merge\_recursive,  
array\_multisort, array\_pad, array\_pop, array\_product  
array\_push, array\_rand, array\_reduce, array\_replace  
array\_replace\_recursive, array\_reverse, array\_search  
array\_shift, array\_slice, array\_splice, array\_sum,  
array\_udiff, array\_udiff\_assoc, array\_udiff\_uassoc,  
array\_uintersect, array\_uintersect\_assoc,  
array\_uintersect\_uassoc, array\_unique, array\_unshift  
array\_values, array\_walk, array\_walk\_recursive, arsort,  
asort, compact, count, current, each, end, extract,  
in\_array, key, krsort, ksort, list, natcasesort, natsort,  
next, prev, range, reset, rsort, shuffle, sort, usort,  
uksort, usort

**Predefined Variables** **\$GLOBALS**

They can be accessed from any scope. Variables in the outermost scope are automatically global and can be used inside functions. To use a global variable within a function you must either declare it with the global keyword or use \$GLOBALS syntax.

```
$a = 5;
$b = 10;
function addition() {
    $GLOBALS['sum'] = $GLOBALS['a'] + $GLOBALS['b'];
}
addition();
echo $sum;
```

**Super Global Variables**

Hover your mouse for explanation

\$\_SERVER, \$\_SERVER['PHP\_SELF'],  
\$\_SERVER['GATEWAY\_INTERFACE'],  
\$\_SERVER['SERVER\_ADDR'],  
\$\_SERVER['SERVER\_NAME'],  
\$\_SERVER['SERVER\_SOFTWARE'],  
\$\_SERVER['SERVER\_PROTOCOL'],  
\$\_SERVER['REQUEST\_METHOD'],  
\$\_SERVER['REQUEST\_TIME'],  
\$\_SERVER['QUERY\_STRING'],  
\$\_SERVER['HTTP\_ACCEPT'],  
\$\_SERVER['HTTP\_ACCEPT\_CHARSET'],  
\$\_SERVER['HTTP\_HOST'],  
\$\_SERVER['HTTP\_REFERER'], \$\_SERVER['HTTPS'],  
\$\_SERVER['REMOTE\_ADDR'],  
\$\_SERVER['REMOTE\_HOST'],  
\$\_SERVER['REMOTE\_PORT'],  
\$\_SERVER['SCRIPT\_FILENAME'],  
\$\_SERVER['SERVER\_ADMIN'],  
\$\_SERVER['SERVER\_PORT'],  
\$\_SERVER['SERVER\_SIGNATURE']

**Predefined Functions**

```
echo "Hello, " . htmlspecialchars($username);
}
```

## Security 🛡️

Always sanitize and validate user input on the server-side

- **htmlspecialchars()**: This function converts special characters to HTML entities.
- **trim()**: This function removes whitespace (or other characters specified) from the beginning and end of a string.
- **stripslashes()**: This function removes backslashes (\) from a string.

```
// Assuming form submission
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Sanitize and trim input
    $input = htmlspecialchars($_POST['input_field']);
    $input = trim($input);
    // Handle magic_quotes_gpc scenario if needed
    if (get_magic_quotes_gpc()) {
        $input = stripslashes($input);
    }
    // $input is now safe to use for further proc
}
```

## Database 💾

### Connecting to DB

#### Procedural:

```
$mysqli = mysqli_connect("localhost", "username",
if (!$mysqli) {
    die("Connection failed: " . mysqli_connect_error());
}
```

#### Object-Oriented:

```
$mysqli = new mysqli("localhost", "username", "pa
if ($mysqli->connect_error) {
    die("Connection failed: " . $mysqli->connect_
}
```

### Queries

#### Procedural:

```
$result = mysqli_query($mysqli, "SELECT * FROM ta
if ($result) {
    while ($row = mysqli_fetch_assoc($result)) {
        echo $row["column_name"];
    }
}
```

#### Object-Oriented:

```
$result = $mysqli->query("SELECT * FROM table_na
if ($result) {
    while ($row = $result->fetch_assoc()) {
        echo $row["column_name"];
    }
}
```

### Prepared Statements

#### Procedural:

```
$stmt = mysqli_prepare($mysqli, "SELECT * FROM ta
mysqli_stmt_bind_param($stmt, "s", $value);
mysqli_stmt_execute($stmt);
$result = mysqli_stmt_get_result($stmt);
while ($row = mysqli_fetch_assoc($result)) {
    echo $row["column_name"];
}
mysqli_stmt_close($stmt);
```

#### Object-Oriented:

```
$stmt = $mysqli->prepare("SELECT * FROM table_na
$stmt->bind_param("s", $value);
$stmt->execute();
```

## boolval

Returns the boolean value of a variable

input	boolval(input)
0	false
12	true
0.0	false
1.2	true
""	false
"hello"	true
"0"	false
"1"	true
[1, 2]	true
[]	false
new stdClass	true

## isset

To check whether a variable is empty

```
$x = 0;
if (isset($x)) {
    echo "x is set";
}
// True because $x is set
```

## unset

Unsets variable

```
$x = "Hello world!";
echo "before unset: " . $x;
unset($x);
echo "after unset: " . $a;
// Throws warning for undefined variable
```

## debug\_zval\_dump

Provides a detailed dump of a variable's reference count and type information.

```
$a = "Hello, World!";
$b = $a;
$c = &$a;
debug_zval_dump($a);
string(13) "Hello, World!" interned
```

## empty

Check whether a variable is empty or not

input	empty(input)
""	true
0	true
php	false

## floatval

Converts a given variable to a floating-point number

input	floatval(input)
12.3	12.3
"12.3abc"	12.3
true	1
"abc"	0

## get\_defined\_vars

Returns the resource type of a given resource variable

```
$result = $stmt->get_result();
while ($row = $result->fetch_assoc()) {
    echo $row["column_name"];
}
$stmt->close();
```

## Inserting Data

### Procedural:

```
$sql = "INSERT INTO table_name (column1, column2)
if (mysqli_query($mysqli, $sql)) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error
}
```

### Object-Oriented:

```
$sql = "INSERT INTO table_name (column1, column2)
if ($mysqli->query($sql) === TRUE) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $mysqli->err
}
```

## Updating Data

### Procedural:

```
$sql = "UPDATE table_name SET column1 = 'value' W
if (mysqli_query($mysqli, $sql)) {
    echo "Record updated successfully";
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error
}
```

### Object-Oriented:

```
$sql = "UPDATE table_name SET column1 = 'value' W
if ($mysqli->query($sql) === TRUE) {
    echo "Record updated successfully";
} else {
    echo "Error: " . $sql . "<br>" . $mysqli->err
}
```

## Deleting Data

### Procedural:

```
$sql = "DELETE FROM table_name WHERE condition";
if (mysqli_query($mysqli, $sql)) {
    echo "Record deleted successfully";
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error
}
```

### Object-Oriented:

```
$sql = "DELETE FROM table_name WHERE condition";
if ($mysqli->query($sql) === TRUE) {
    echo "Record deleted successfully";
} else {
    echo "Error: " . $sql . "<br>" . $mysqli->err
}
```

## Closing the Connection

### Procedural:

```
mysqli_close($mysqli);
```

### Object-Oriented:

```
$mysqli->close();
```

## Common Functions Overview

- Connecting:** mysqli\_connect, mysqli\_connect\_error, mysqli\_close
- Queries:** mysqli\_query, mysqli\_fetch\_assoc, mysqli\_num\_rows

```
// prints: stream
$fp = fopen("file", "w");
echo get_resource_type($fp) . "\n";
// prints: curl
$c = curl_init ();
echo get_resource_type($c) . "\n";
```

### get\_resource\_type

Used to obtain the type of a given resource

```
// Open a file handle
$file = fopen("example.txt", "r");
// Get the type of the resource
echo get_resource_type($file); // Outputs: "str
// Close the file handle
fclose($file);
```

### gettype

Used to determine the type of a given variable

variable	gettype(\$variable)
12	integer
12.3	double
"HTML Cheat Sheet"	string
array(1, 2, 3)	array
fopen("file.txt", "r")	resource

### intval

Integer value of a variable

variable	intval(\$variable)
12	12
12.3	12
"12.3"	12
"101010"	intval("101010", 2) => 42
"Hello"	0

### is\_array

To check whether a given variable is an array



## Regular Expressions

### Syntax

```
$exp = "/cheatsheet/i";
```

```
$email = "admin@htmlcheatsheet.com";
if (preg_match('/^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+
    echo "Valid email address";
} else {
    echo "Invalid email";
}
```

### RegEx Functions

**preg\_match()** - Returns 1 if the pattern was found in the string and 0 if not

**preg\_match\_all()** - Returns the number of times the pattern was found in the string, which may also be 0

**preg\_replace()** - Returns a new string where matched patterns have been replaced with another string

### Modifiers

**i** - Performs a case-insensitive search

**m** - Performs a multiline search (patterns that search for beginning or end of a string will match the beginning or end of each line)

**u** - Enables correct matching of UTF-8 encoded patterns

- **Prepared Statement:** mysqli\_prepare, mysqli\_stmt\_bind\_param, mysqli\_stmt\_execute, mysqli\_stmt\_get\_result, mysqli\_stmt\_close
- **Error Handling:** mysqli\_error, mysqli\_stmt\_error

## Common Errors !



### Don't forget the semicolon!

- Mismatched brackets ()
- Incorrect quotes: " "
- Undefined variables
- Case sensitivity \$Var ≠ \$var
- Incorrect function calls that does not exist or with incorrect parameters.

#### File Inclusion Errors

Using **include** or **require** with an incorrect file path. Use absolute paths or ensure relative paths are correct.

#### SQL Injection

Failing to sanitize user inputs can lead to **SQL injection attacks**. Use prepared statements and parameterized queries.

#### Error Handling

Use **try-catch** blocks and implementing proper error handling mechanisms.

#### Incorrect Array Usage

Check if array keys exist before accessing them.

#### Session Handling

Start sessions with **session\_start()** and handle session variables correctly.

#### Output Buffering

Unintentional output before headers are sent can cause "headers already sent" errors. Use output buffering or ensure no output before **header()** calls.

#### Scope Issues

Variable scope misunderstandings, such as trying to access a variable outside its defined scope. Use **global** keyword or pass variables as function arguments.

#### Misconfigured php.ini

Incorrect settings in the **php.ini** file can lead to various issues. Ensure configuration settings are appropriate for your environment.

#### Deprecated Features

Using deprecated functions or features that may be removed in future PHP versions. Refer to the latest PHP documentation.

#### Incorrect Timezone Configuration

Set the default timezone using **date\_default\_timezone\_set()**.

#### Missing or Incorrect Encoding

Ensure correct character encoding is used, especially with multibyte strings.

#### Memory Limit Issues

Increase memory limit in **php.ini** or optimize code to use less memory.

## Best Practices to Avoid Common PHP Errors

#### Patterns

[abc] – Find one character from the options between the brackets

[^abc] – Find any character NOT between the brackets

[0-9] – Find one character from the range 0 to 9

#### Metacharacters

| - Find a match for any one of the patterns separated by as in: cat|dog|fish

. - Find just one instance of any character

^ - Finds a match as the beginning of a string as in: ^Hel

\$ - Finds a match at the end of the string as in: World\$

\d - Find a digit

\s -Find a whitespace character

\b - Find a match at the beginning of a word like this: \bWORD, or at the end of a word like this: WORD\b

\uxxxx - Find the Unicode character specified by the hexadecimal number xxxx

#### Quantifiers

n+ - Matches any string that contains at least one n

n\* - Matches any string that contains zero or more occurrences of n

n? - Matches any string that contains zero or one occurrences of n

n{x} - Matches any string that contains a sequence of X

n{x,y} - Matches any string that contains a sequence of Y n's

n{x,} - Matches any string that contains a sequence of at least X n's

#### Grouping

Use parentheses ( ) to apply quantifiers to entire patterns select parts of the pattern to be used as a match.

#### Examples

```
$password = "HTMLcheatSheet123!";
if (preg_match('/^(?=.*[A-Za-z])(?=.*\d)(?=.*[@#$.!%&*?&])[0-9]{8}/', $password)) {
    echo "Valid password!";
} else {
    echo "Invalid password!";
}
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Define filters
    $filters = array(
        'email' => FILTER_VALIDATE_EMAIL,
        // Validate email address and optionally, more
    );
    // Apply filters to $_POST data
    $sanitized_inputs = filter_input_array(INP_ARRAY);
    // Check if email is valid
    if ($sanitized_inputs['email'] === false) {
        echo "Invalid email address!";
    } else {
        // Use the sanitized input
        $email = $sanitized_inputs['email'];
        echo "Valid email address: " . $email;
    }
}
```

#### Filter Functions

- **Use Error Reporting:** Enable error reporting during development using `error_reporting(E_ALL)` and `ini_set('display_errors', 1)`.
- **Code Reviews:** Regular code reviews can catch errors early.
- **Testing:** Write unit tests and integration tests to cover different code paths.

## Date and Time

```
// Get current timestamp
$currentTimestamp = time();
// Format and display current date and time
echo "Current timestamp: " . $currentTimestamp .
// Format date using date() function
echo "Current date: " . date("Y-m-d") . "<br>";
echo "Current time: " . date("H:i:s") . "<br>";
// Format date and time with specific timezone
date_default_timezone_set('America/New_York');
echo "Current date and time in New York: " . date
```

## Formatting

- **d** - Days from 01 to 31
- **j** - Days 1 to 31
- **D** - Mon through Sun
- **I** - Sunday through Saturday
- **N** - 1 (for Mon) through 7 (for Sat)
- **w** - 0 (for Sun) through 6 (for Sat)
- **m** - Months, 01 through 12
- **n** - Months, 1 through 12
- **F** - January through December
- **M** - Jan through Dec
- **Y** - Four digits year (e.g. 2018)
- **y** - Two digits year (e.g. 18)
- **L** - Defines whether it's a leap year (1 or 0)
- **a** - am and pm
- **A** - AM and PM
- **g** - Hours 1 through 12
- **h** - Hours 01 through 12
- **G** - Hours 0 through 23
- **H** - Hours 00 through 23
- **i** - Minutes 00 to 59
- **s** - Seconds 00 to 59

## Functions

Hover your mouse for explanation:

`checkdate`, `date_add`, `date_create_from_format`,  
`date_create`, `date_date_set`, `date_default_timezone_get`,  
`date_default_timezone_set`, `date_diff`, `date_format`,  
`date_get_last_errors`,  
`date_interval_create_from_date_string`,  
`date_interval_format`, `date_isodate_set`, `date_modify`,  
`date_offset_get`, `date_parse_from_format`, `date_parse`,  
`date_sub`, `date_sun_info`, `date_sunrise`, `date_sunset`,  
`date_time_set`, `date_timestamp_get`,  
`date_timestamp_set`, `date_timezone_get`,  
`date_timezone_set`, `date_getdate`, `gettimeofday`,  
`gmdate`, `gmmktime`, `gmstrftime`, `idate`, `localtime`,  
`microtime`, `mktime`, `strftime`, `strptime`, `strtotime`, `time`,  
`timezone_abbreviations_list`, `timezone_identifiers_list`,  
`timezone_location_get`, `timezone_name_from_abbr`,  
`timezone_name_get`, `timezone_offset_get`,  
`timezone_open`, `timezone_transitions_get`,  
`timezone_version_get`

- **filter\_has\_var()** - To check if a variable of the specified type exists
- **filter\_id()** - Returns the ID belonging to a named filter
- **filter\_input()** - Retrieves a specified external var by name and optionally filters it
- **filter\_input\_array()** - Pulls external variables and optionally filters them
- **filter\_list()** - Returns a list of all supported filters
- **filter\_var\_array()** - Gets multiple variables and optionally filters them
- **filter\_var()** - Filters a variable with a specified filter

## Filter Constants

- **FILTER\_VALIDATE\_BOOLEAN** - Validates a boolean
- **FILTER\_VALIDATE\_EMAIL** - Certifies an e-mail address
- **FILTER\_VALIDATE\_FLOAT** - Confirms a float
- **FILTER\_VALIDATE\_INT** - Verifies an integer
- **FILTER\_VALIDATE\_IP** - Validates an IP address
- **FILTER\_VALIDATE\_REGEXP** - Confirms a regular expression
- **FILTER\_VALIDATE\_URL** - Validates a URL
- **FILTER\_SANITIZE\_EMAIL** - Removes all illegal characters from an e-mail address
- **FILTER\_SANITIZE\_ENCODED** - Removes/Encodes special characters
- **FILTER\_SANITIZE\_MAGIC\_QUOTES** - Applies `addslashes()`
- **FILTER\_SANITIZE\_NUMBER\_FLOAT** - Remove characters, except digits, +-, ., eE
- **FILTER\_SANITIZE\_NUMBER\_INT** - Gets rid of a characters except digits and +-
- **FILTER\_SANITIZE\_SPECIAL\_CHARS** - Remove special characters
- **FILTER\_SANITIZE\_FULL\_SPECIAL\_CHARS** - Converts special characters to HTML entities
- **FILTER\_SANITIZE\_STRING** - Removes tags/special characters from a string, same as: `FILTER_SANITIZE_STRIPPED`
- **FILTER\_SANITIZE\_URL** - Rids all illegal characters from a URL
- **FILTER\_UNSAFE\_RAW** - Do nothing, optionally strip/encode special characters
- **FILTER\_CALLBACK** - Call a user-defined function to filter data