

This PHP filters is used to validate and filter data coming from insecure sources, like user input.

Validate filters

Listing of filters for validation				
ID	Name	Options	Flags	Description
<code>FILTER_VALIDATE_BOOLEAN</code>	"boolean"	default	<code>FILTER_NULL_ON_FAILURE</code>	Returns TRUE for "1", "true", "on" and "yes". Returns FALSE otherwise. If <code>FILTER_NULL_ON_FAILURE</code> is set, FALSE is returned only for "0", "false", "off", "no", and "", and NULL is returned for all non-boolean values.
<code>FILTER_VALIDATE_EMAIL</code>	"validate_email"	default		Validates value as e-mail.
<code>FILTER_VALIDATE_FLOAT</code>	"float"	default, decimal	<code>FILTER_FLAG_ALLOW_THOUSAND</code>	Validates value as float.
<code>FILTER_VALIDATE_INT</code>	"int"	default, min_range, max_range	<code>FILTER_FLAG_ALLOW_OCTAL</code> , <code>FILTER_FLAG_ALLOW_HEX</code>	Validates value as integer, optionally from the specified range.
<code>FILTER_VALIDATE_IP</code>	"validate_ip"	default	<code>FILTER_FLAG_IPV4</code> , <code>FILTER_FLAG_IPV6</code> , <code>FILTER_FLAG_NO_PRIVATE_RANGE</code> , <code>FILTER_FLAG_NO_RESERVED_RANGE</code>	Validates value as IP address, optionally only IPv4 or IPv6 or not from private or reserved ranges.
<code>FILTER_VALIDATE_REGEXP</code>	"validate_regexp"	default, regexp		Validates value against <code>regexp</code> , a Perl-compatible regular expression.
<code>FILTER_VALIDATE_URL</code>	"validate_url"	default	<code>FILTER_FLAG_PATH_REQUIRED</code> , <code>FILTER_FLAG_QUERY_REQUIRED</code>	Validates value as URL (according to http://www.faqs.org/rfcs/rfc2396), optionally with required components. Beware a valid URL may not specify the HTTP protocol <code>http://</code> so

Listing of filters for validation				
ID	Name	Options	Flags	Description
				further validation may be required to determine the URL uses an expected protocol, e.g. <code>ssh://</code> or <code>mailto:.</code> Note that the function will only find ASCII URLs to be valid; internationalized domain names (containing non-ASCII characters) will fail.

Sanitize filters

List of filters for sanitization				
ID	Name	Options	Flags	Description
<code>FILTER_SANITIZE_EMAIL</code>	"email"			Remove all characters except letters, digits and <code>!#\$%&'*+ /=?^_`{ }~@.[]</code> .
<code>FILTER_SANITIZE_ENCODED</code>	"encoded"		<code>FILTER_FLAG_STRIP_LOW,</code> <code>FILTER_FLAG_STRIP_HIGH,</code> <code>FILTER_FLAG_ENCODE_LOW,</code> <code>FILTER_FLAG_ENCODE_HIGH</code>	URL-encode string, optionally strip or encode special characters.
<code>FILTER_SANITIZE_MAGIC_QUOTES</code>	"magic_quotes"			Apply addslashes() .
<code>FILTER_SANITIZE_NUMBER_FLOAT</code>	"number_float"		<code>FILTER_FLAG_ALLOW_FRACTION,</code> <code>FILTER_FLAG_ALLOW_THOUSAND,</code> <code>FILTER_FLAG_ALLOW_SCIENTIFIC</code>	Remove all characters except digits, <code>+-</code> and optionally <code>.,eE</code> .
<code>FILTER_SANITIZE_NUMBER_INT</code>	"number_int"			Remove all characters except digits, plus and minus sign.
<code>FILTER_SANITIZE_SPECIAL_CHARS</code>	"special_chars"		<code>FILTER_FLAG_STRIP_LOW,</code>	HTML-escape <code>"'<>&</code> and characters with

List of filters for sanitization				
ID	Name	Options	Flags	Description
			<code>FILTER_FLAG_STRIP_HIGH,</code> <code>FILTER_FLAG_ENCODE_HIGH</code>	ASCII value less than 32, optionally strip or encode other special characters.
<code>FILTER_SANITIZE_FULL_SPECIAL_CHARS</code>	"full_special_chars"		<code>FILTER_FLAG_NO_ENCODE_QUOTES,</code>	Equivalent to calling htmlspecialchars() with <code>ENT_QUOTES</code> set. Encoding quotes can be disabled by setting <code>FILTER_FLAG_NO_ENCODE_QUOTES</code> . Like htmlspecialchars() , this filter is aware of the default charset and if a sequence of bytes is detected that makes up an invalid character in the current character set then the entire string is rejected resulting in a 0-length string. When using this filter as a default filter, see the warning below about setting the default flags to 0.
<code>FILTER_SANITIZE_STRING</code>	"string"		<code>FILTER_FLAG_NO_ENCODE_QUOTES,</code> <code>FILTER_FLAG_STRIP_LOW,</code> <code>FILTER_FLAG_STRIP_HIGH,</code> <code>FILTER_FLAG_ENCODE_LOW,</code> <code>FILTER_FLAG_ENCODE_HIGH,</code> <code>FILTER_FLAG_ENCODE_AMP</code>	Strip tags, optionally strip or encode special characters.
<code>FILTER_SANITIZE_STRIPPED</code>	"stripped"			Alias of "string" filter.
<code>FILTER_SANITIZE_URL</code>	"url"			Remove all characters except letters, digits and \$-

List of filters for sanitization				
ID	Name	Options	Flags	Description
				_.+!*'(),{}/\ ^~[]`<>#%";/?:@&=.
FILTER_UNSAFE_RAW	"unsafe_raw"		FILTER_FLAG_STRIP_LOW, FILTER_FLAG_STRIP_HIGH, FILTER_FLAG_ENCODE_LOW, FILTER_FLAG_ENCODE_HIGH, FILTER_FLAG_ENCODE_AMP	

Example 1: for FILTER_VALIDATE_EMAIL

```
<?php
$email = "someone@example.com";

if(!filter_var($email, FILTER_VALIDATE_EMAIL))
{
    echo "E-mail is not valid";
}
else
{
    echo "E-mail is valid";
}
?>
```

The output of the code will be:

E-mail is not valid

The FILTER_VALIDATE_URL filter validates value as a URL.

Possible flags:

- FILTER_FLAG_SCHEME_REQUIRED - Requires URL to be an RFC compliant URL (like http://example)
- FILTER_FLAG_HOST_REQUIRED - Requires URL to include host name (like http://www.example.com)

- **FILTER_FLAG_PATH_REQUIRED** - Requires URL to have a path after the domain name (like `www.example.com/example1/test2/`)
- **FILTER_FLAG_QUERY_REQUIRED** - Requires URL to have a query string (like `example.php?name=Peter&age=37`)

Example 1

```
<?php
$url = "http://www.example.com";

if(!filter_var($url, FILTER_VALIDATE_URL))
{
    echo "URL is not valid";
}
else
{
    echo "URL is valid";
}
?>
```

The output of the code will be:
URL is valid

Example 2

```
<?php
$url = "example.php?name=Peter&age=37";

if(!filter_var($url, FILTER_VALIDATE_URL,
FILTER_FLAG_QUERY_REQUIRED))
{
    echo "URL is not valid";
}
else
{
    echo "URL is valid";
}
?>
```

The output of the code will be:
URL is valid

The FILTER_VALIDATE_REGEXP filter validates value against a Perl-compatible regular expression.

```
<?php
$string = "Match this string";

var_dump(filter_var($string, FILTER_VALIDATE_REGEXP,
array("options"=>array("regexp"=>"/^M(.*)/")))
?>
```

The output of the code will be:

```
string(17) "Match this string"
```

The FILTER_VALIDATE_BOOLEAN filter validates value as a boolean option.

```
<?php
$var="yes";

var_dump(filter_var($var, FILTER_VALIDATE_BOOLEAN));
?>
```

The output of the code will be:

```
bool(true)
```

The FILTER_SANITIZE_URL filter removes all illegal URL characters from a string.

This filter allows all letters, digits and \$-_.+!*'(),{|}\^~[]`"><#% ;/?:@&=

```
<?php
$var="http://www.w3schoo❖❖ls.co❖m";

var_dump(filter_var($var, FILTER_SANITIZE_URL));
?>
```

The output of the code will be:

```
string(24) "http://www.w3schools.com"
```

The FILTER_SANITIZE_EMAIL filter removes all illegal e-mail characters from a string.

This filter allows all letters, digits and \$-_.+!*'{}|^~[]`#%/!?@&=

```
<?php
$var="some(one)@exa\mple.com";

var_dump(filter_var($var, FILTER_SANITIZE_EMAIL));
?>
```

The output of the code will be:

```
string(19) "someone@example.com"
```