

# Enchant spelling library

# Introduction

Enchant is the PHP binding for the [» Enchant library](#). Enchant steps in to provide uniformity and conformity on top of all spelling libraries, and implement certain features that may be lacking in any individual provider library. Everything should "just work" for any and every definition of "just working."

Enchant supports the following backends:

- *Aspell/Pspell (intends to replace Ispell)*
- *Ispell (old as sin, could be interpreted as a defacto standard)*
- *MySpell/Hunspell (an OOo projects, also used by Mozilla)*
- *Uspell (primarily Yiddish, Hebrew, and Eastern European languages - hosted in AbiWord's CVS under the module "uspell")*
- *Hspell (Hebrew)*
- *AppleSpell (Mac OSX)*

# Installing/Configuring

## Requirements

This version uses the functions of the [» Enchant library](#) by Dom Lachowicz. You need Enchant 1.2.4 or later.

## Installation

Information for installing this PECL extension may be found in the manual chapter titled [Installation of PECL extensions](#). Additional information such as new releases, downloads, source files, maintainer information, and a CHANGELOG, can be located here: [» http://pecl.php.net/package/enchant](#).

## Runtime Configuration

This extension has no configuration directives defined in *php.ini*.

## Resource Types

There are two types of resources in this extension. The first one is the broker (backends manager) and the second is for the dictionary.

# Predefined Constants

This extension has no constants defined.

# Examples

## Example #1 - Enchant Usage Example

```
<?php
$tag = 'en_US';
$r = enchant_broker_init();
$bprovides = enchant_broker_describe($r);
echo "Current broker provides the following backend(s):\n";
print_r($bprovides);

$dicts = enchant_broker_list_dicts($r);
print_r($dicts);
if (enchant_broker_dict_exists($r,$tag)) {
    $d = enchant_broker_request_dict($r, $tag);
    $dprovides = enchant_dict_describe($d);
    echo "dictionary $tag provides:\n";
    $spellerrors = enchant_dict_check($d, "soong");
    print_r($dprovides);
    echo "found $spellerrors spell errors\n";
    if ($spellerrors) {
        $suggs = enchant_dict_suggest($d, "soong");
        echo "Suggestions for 'soong':";
        print_r($suggs);
    }
    enchant_broker_free_dict($d);
} else {
}
enchant_broker_free($r);
?>
```

# Enchant Functions

# enchant\_broker\_describe

enchant\_broker\_describe -- Enumerates the Enchant providers

## Description

array **enchant\_broker\_describe** ( resource \$broker )

Enumerates the Enchant providers and tells you some rudimentary information about them. The same info is provided through phpinfo().

## Parameters

*broker*  
Broker resource

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## Examples

### Example #2 - List the backends provided by the given broker

```
<?php
$r = enchant_broker_init();
$bprovides = enchant_broker_describe($r);
echo "Current broker provides the following backend(s):\n";
print_r($bprovides);

?>
```

The above example will output something similar to:

```
Current broker provides the following backend(s):
Array
(
    [0] => Array
        (
            [name] => aspell
            [desc] => Aspell Provider
            [file] => /usr/lib/enchant/libenchant_aspell.so
        )

    [1] => Array
        (
            [name] => hspell
            [desc] => Hspell Provider
        )
)
```

```
        [file] => /usr/lib/enchant/libenchant_hspell.so
    )

[2] => Array
(
    [name] => ispell
    [desc] => Ispell Provider
    [file] => /usr/lib/enchant/libenchant_ispell.so
)

[3] => Array
(
    [name] => myspell
    [desc] => Myspell Provider
    [file] => /usr/lib/enchant/libenchant_myspell.so
)

)
```



# enchant\_broker\_dict\_exists

enchant\_broker\_dict\_exists -- Whether a dictionary exists or not. Using non-empty tag

## Description

bool **enchant\_broker\_dict\_exists** ( resource \$broker, string \$tag )

Tells if a dictionary exists or not, using a non-empty tags

## Parameters

*broker*

Broker resource

*tag*

non-empty tag in the LOCALE format, ex: us\_US, ch\_DE, etc.

## Return Values

Returns **TRUE** when the tag exist or **FALSE** when not.

## Examples

### Example #3 - A [enchant\\_broker\\_dict\\_exists\(\)](#) example

```
<?php
$tag = 'en_US';
$r = enchant_broker_init();
if (enchant_broker_dict_exists($r,$tag)) {
    echo $tag . " dictionary found.\n";
}
?>
```

## See Also

- [enchant\\_broker\\_describe\(\)](#)

# enchant\_broker\_free\_dict

enchant\_broker\_free\_dict -- Free a dictionary resource

## Description

bool **enchant\_broker\_free\_dict** ( resource *\$dict* )

Free a dictionary resource.

## Parameters

*dict*

Dictionary resource.

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [enchant\\_broker\\_request\\_dict\(\)](#)
- [enchant\\_broker\\_request\\_pwl\\_dict\(\)](#)

# enchant\_broker\_free

enchant\_broker\_free -- Free the broker resource and its dictionaries

## Description

bool **enchant\_broker\_free** ( resource \$*broker* )

Free a broker resource with all its dictionaries.

## Parameters

*broker*  
Broker resource

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [enchant\\_broker\\_init\(\)](#)

# enchant\_broker\_get\_error

enchant\_broker\_get\_error -- Returns the last error of the broker

## Description

string **enchant\_broker\_get\_error** ( resource \$broker )

Returns the last error which occurred in this broker.

## Parameters

*broker*  
Broker resource.

## Return Values

Return the msg string if an error was found or **FALSE**

# enchant\_broker\_init

enchant\_broker\_init -- create a new broker object capable of requesting

## Description

resource **enchant\_broker\_init** ( void )

## Parameters

## Return Values

Returns a broker resource on success or **FALSE**.

## See Also

- [enchant\\_broker\\_free\(\)](#)

# enchant\_broker\_list\_dicts

enchant\_broker\_list\_dicts -- Returns a list of available dictionaries

## Description

**mixed** `enchant_broker_list_dicts ( resource $broker )`

Returns a list of available dictionaries with their details.

## Parameters

*broker*  
Broker resource

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## Examples

### Example #4 - List all available dictionaries for one broker

```
<?php
$r = enchant_broker_init();
$dictionaries = enchant_broker_list_dicts($r);
print_r($dictionaries);
?>
```

The above example will output something similar to:

```
Array
(
    [0] => Array
        (
            [lang_tag] => de
            [provider_name] => aspell
            [provider_desc] => Aspell Provider
            [provider_file] => /usr/lib/enchant/libenchant_aspell.so
        )

    [1] => Array
        (
            [lang_tag] => de_DE
            [provider_name] => aspell
            [provider_desc] => Aspell Provider
            [provider_file] => /usr/lib/enchant/libenchant_aspell.so
        )
)
```

```
[3] => Array
(
    [lang_tag] => en
    [provider_name] => aspell
    [provider_desc] => Aspell Provider
    [provider_file] => /usr/lib/enchant/libenchant_aspell.so
)

[4] => Array
(
    [lang_tag] => en_GB
    [provider_name] => aspell
    [provider_desc] => Aspell Provider
    [provider_file] => /usr/lib/enchant/libenchant_aspell.so
)

[5] => Array
(
    [lang_tag] => en_US
    [provider_name] => aspell
    [provider_desc] => Aspell Provider
    [provider_file] => /usr/lib/enchant/libenchant_aspell.so
)

[6] => Array
(
    [lang_tag] => hi_IN
    [provider_name] => myspell
    [provider_desc] => Myspell Provider
    [provider_file] => /usr/lib/enchant/libenchant_myspell.so
)

)
```

## See Also

- [enchant\\_broker\\_describe\(\)](#)

# enchant\_broker\_request\_dict

enchant\_broker\_request\_dict -- create a new dictionary using a tag

## Description

resource **enchant\_broker\_request\_dict** ( resource \$broker, string \$tag )

create a new dictionary using tag, the non-empty language tag you wish to request a dictionary for ("en\_US", "de\_DE", ...)

## Parameters

*broker*

Broker resource

*tag*

A tag describing the locale, for example en\_US, de\_DE

## Return Values

Returns a dictionary resource on success or **FALSE** on failure.

## Examples

### Example #5 - A [enchant\\_broker\\_request\\_dict\(\)](#) example

Check if a dictionary exists using [enchant\\_broker\\_dict\\_exists\(\)](#) and request it.

```
<?php
$tag = 'en_US';
$broker = enchant_broker_init();
if (enchant_broker_dict_exists($broker,$tag)) {
    $dict = enchant_broker_request_dict($r, $tag);
}
?>
```

## See Also

- [enchant\\_dict\\_describe\(\)](#)
- [enchant\\_broker\\_dict\\_exists\(\)](#)



- `enchant_broker_dict_free()`

# enchant\_broker\_request\_pwl\_dict

enchant\_broker\_request\_pwl\_dict -- creates a dictionary using a PWL file. A PWL file is personal word file one word per line.

## Description

resource **enchant\_broker\_request\_pwl\_dict** ( resource \$broker, string \$filename )

creates a dictionary using a PWL file. A PWL file is personal word file one word per line.

## Parameters

*broker*

Broker resource

*filename*

Path to the PWL file.

## Return Values

Returns a dictionary resource on success or **FALSE** on failure.

## See Also

- [enchant\\_dict\\_describe\(\)](#)
- [enchant\\_broker\\_dict\\_exists\(\)](#)
- [enchant\\_broker\\_dict\\_free\(\)](#)

# enchant\_broker\_set\_ordering

enchant\_broker\_set\_ordering -- Declares a preference of dictionaries to use for the language

## Description

bool **enchant\_broker\_set\_ordering** ( resource \$broker, string \$tag, string \$ordering )

Declares a preference of dictionaries to use for the language described/referred to by 'tag'. The ordering is a comma delimited list of provider names. As a special exception, the "\*" tag can be used as a language tag to declare a default ordering for any language that does not explicitly declare an ordering.

## Parameters

*broker*

Broker resource

*tag*

Language tag. The special "\*" tag can be used as a language tag to declare a default ordering for any language that does not explicitly declare an ordering.

*ordering*

Comma delimited list of provider names

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

# enchant\_dict\_add\_to\_personal

enchant\_dict\_add\_to\_personal -- add a word to personal word list

## Description

**void** `enchant_dict_add_to_personal` ( resource *\$dict*, string *\$word* )

Add a word to personal word list of the given dictionary.

## Parameters

*dict*

Dictionary resource

*word*

The word to add

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [enchant\\_broker\\_request\\_pwl\\_dict\(\)](#)
- [enchant\\_broker\\_request\\_dict\(\)](#)

# enchant\_dict\_add\_to\_session

enchant\_dict\_add\_to\_session -- add 'word' to this spell-checking session

## Description

**void** **enchant\_dict\_add\_to\_session** ( resource *\$dict*, string *\$word* )

Add a word to the given dictionary. It will be added only for the active spell-checking session.

## Parameters

*dict*  
Dictionary resource

*word*  
The word to add

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [enchant\\_broker\\_request\\_dict\(\)](#)

# enchant\_dict\_check

enchant\_dict\_check -- Check whether a word is correctly spelled or not.

## Description

bool **enchant\_dict\_check** ( resource \$dict, string \$word )

If the word is correctly spelled return **TRUE**, otherwise return **FALSE**

## Parameters

*dict*

Dictionary resource

*word*

The word to check

## Return Values

Returns **TRUE** if the word is spelled correctly, **FALSE** if not.

# enchant\_dict\_describe

enchant\_dict\_describe -- Describes an individual dictionary

## Description

**mixed** `enchant_dict_describe ( resource $dict )`

Returns the details of the dictionary.

## Parameters

*dict*  
Dictionary resource

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## Examples

### Example #6 - A [enchant\\_dict\\_describe\(\)](#) example

Check if a dictionary exists using [enchant\\_broker\\_dict\\_exists\(\)](#) and show the detail of it.

```
<?php
$tag = 'en_US';
$broker = enchant_broker_init();
if (enchant_broker_dict_exists($broker,$tag)) {
    $dict = enchant_broker_request_dict($r, $tag);
    $dict_details = enchant_dict_describe($dict);
    print_r($dict_details);
}
?>
```

The above example will output something similar to:

```
Array
(
    [lang] => en_US
    [name] => aspell
    [desc] => Aspell Provider
    [file] => /usr/lib/enchant/libenchant_aspell.so
)
```

# enchant\_dict\_get\_error

enchant\_dict\_get\_error -- Returns the last error of the current spelling-session

## Description

string **enchant\_dict\_get\_error** ( resource *\$dict* )

Returns the last error of the current spelling-session

## Parameters

*dict*

Dictinary resource

## Return Values

Returns the error message as string or **FALSE** if no error occurred.



# enchant\_dict\_is\_in\_session

enchant\_dict\_is\_in\_session -- whether or not 'word' exists in this spelling-session

## Description

bool **enchant\_dict\_is\_in\_session** ( resource \$dict, string \$word )

Tells whether or not a word already exists in the current session.

## Parameters

*dict*

Dictionary resource

*word*

The word to lookup

## Return Values

Returns **TRUE** if the word exists or **FALSE**

## See Also

- [enchant\\_dict\\_add\\_to\\_session\(\)](#)

# enchant\_dict\_quick\_check

enchant\_dict\_quick\_check -- Check the word is correctly spelled and provide suggestions

## Description

bool **enchant\_dict\_quick\_check** ( resource \$dict, string \$word [, array &\$suggestions ] )

If the word is correctly spelled return **TRUE**, otherwise return **FALSE**, if suggestions variable is provided, fill it with spelling alternatives.

## Parameters

*dict*

Dictionary resource

*word*

The word to check

*suggestions*

If the word is not correctly spelled, this variable will contain an array of suggestions.

## Return Values

Returns **TRUE** if the word is correctly spelled or **FALSE**

## Examples

### Example #7 - A [enchant\\_dict\\_quick\\_check\(\)](#) example

```
<?php
$tag = 'en_US';
$r = enchant_broker_init();

if (enchant_broker_dict_exists($r,$tag)) {
    $d = enchant_broker_request_dict($r, $tag);
    enchant_dict_quick_check($d, 'soong', $suggs);
    print_r($suggs);
}
?>
```

The above example will output something similar to:

```
Array
(
```

```
[0] => song
[1] => snog
[2] => soon
[3] => Sang
[4] => Sung
[5] => sang
[6] => sung
[7] => sponge
[8] => spongy
[9] => snag
[10] => snug
[11] => sonic
[12] => sing
[13] => songs
[14] => Son
[15] => Sonja
[16] => Synge
[17] => son
[18] => Sejong
[19] => sarong
[20] => sooner
[21] => Sony
[22] => sown
[23] => scone
[24] => song's
)
```

## See Also

- [enchant\\_dict\\_check\(\)](#)
- [enchant\\_dict\\_suggest\(\)](#)

# enchant\_dict\_store\_replacement

enchant\_dict\_store\_replacement -- add a correction for a word.

## Description

**void** **enchant\_dict\_store\_replacement** ( resource \$dict, string \$mis, string \$cor )

Add a correction for 'mis' using 'cor'. Notes that you replaced @mis with @cor, so it's possibly more likely that future occurrences of @mis will be replaced with @cor. So it might bump @cor up in the suggestion list.

## Parameters

*dict*  
Dictionary resource

*mis*  
The work to fix

*cor*  
The correct word

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

# enchant\_dict\_suggest

enchant\_dict\_suggest -- Will return a list of values if any of those pre-conditions are not met.

## Description

array **enchant\_dict\_suggest** ( resource \$dict, string \$word )

## Parameters

*dict*  
Dictionary resource

*word*  
Word to use for the suggestions.

## Return Values

Will returns an array of suggestions if the word is bad spelled.

## Examples

### Example #8 - A [enchant\\_dict\\_suggest\(\)](#) example

```
<?php
$tag = 'en_US';
$r = enchant_broker_init();
if (enchant_broker_dict_exists($r,$tag)) {
    $d = enchant_broker_request_dict($r, $tag);

    $spellerrors = enchant_dict_check($d, "soong");
    echo "found $spellerrors spell errors\n";
    if ($spellerrors) {
        $suggs = enchant_dict_suggest($d, "soong");
        echo "Suggestions for 'soong':";
        print_r($suggs);
    }
    enchant_broker_free_dict($d);
}
enchant_broker_free($r);
?>
```

## See Also

- [enchant\\_dict\\_check\(\)](#)
- [enchant\\_dict\\_quick\\_check\(\)](#)