
ATK4 - PHP Language library Documentation

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CHAPTER 1

Based on I18Next library

Based on i18next <http://i18next.com>

Interpolate direct with ATK4 - Agile Toolkit Models <https://www.agiletoolkit.org/>

install with composer: ` composer require abbadon1334/atk4-i18next-php `

All documentation about the original library can be found here : <http://i18next.com/>

1.1 Getting started

Instantiate

```
$translator = new Translator();
```

Define root path for translations

```
$translator->setTranslationsPath('path/to/locales');
```

(optional) Define if filename has to be used has namespace

```
$translator->useFilenameAsNamespace(true);
```

(optional) Define namespaces priority

```
$translator->setNamespacePriority('firstNs', 'secondNs', 'otherNs');
```

Define primary and fallback language (name of the folders where library load files)

```
$translator->setLanguagePrimary($language);  
$translator->setLanguageFallback($fallback);
```

Add additional language

```
$translator->addLanguage('it');
```

1.1.1 Usage examples

```
1 $result = $translator->_('definitionKey');
2 $result = $translator->_('definitionKey', ['param1' => 'test']);
3 $result = $translator->_('definitionKey', ['param1' => 'test'], 'context');
4 $result = $translator->_('definitionKey', ['param1' => 'test'], 'context',
    ↳ 'specificLanguage');
5 $result = $translator->_('namespace:definitionKey', ['param1' => 'test'], 'context',
    ↳ 'specificLanguage');
```

1.1.2 The TranslatorInterface

```
1 <?php
2
3 declare(strict_types=1);
4
5 namespace I18Next;
6
7 interface TranslatorInterface
8 {
9     /**
10      * Translates the given message.
11      *
12      * @param string      $key
13      * @param array|null  $parameters Array of parameters used to translate message
14      * @param string|null $context    The context of the request
15      * @param string|null $locale     The locale or null to use the default
16      *
17      * @return string The translated string
18      */
19     public function _(string $key, ?array $parameters = null, ?string $context = null,
    ↳ ?string $locale = null): string;
20 }
```

1.2 I18Next

I18Next

1.2.1 Namespaces

Exception

I18Next\Exception

Classes

TranslationSyntaxError

class I18Next\Exception\TranslationSyntaxError

Source [src/I18Next/Exception/TranslationSyntaxError.php#9](#)

Parent [atk4\core\Exception](#)

Summary

LanguageNamespaceMisuse

class I18Next\Exception\LanguageNamespaceMisuse

Source [src/I18Next/Exception/LanguageNamespaceMisuse.php#7](#)

Parent [I18Next\Exception\Misusage](#)

Summary

LanguageAlreadyPresent

class I18Next\Exception\LanguageAlreadyPresent

Source [src/I18Next/Exception/LanguageAlreadyPresent.php#9](#)

Parent [atk4\core\Exception](#)

Summary

LanguageLocaleNotExists

class I18Next\Exception\LanguageLocaleNotExists

Source [src/I18Next/Exception/LanguageLocaleNotExists.php#9](#)

Parent [atk4\core\Exception](#)

Summary

Misusage

class I18Next\Exception\Misusage

Source [src/I18Next/Exception/Misusage.php#9](#)

Parent [atk4\core\Exception](#)

Summary

LanguagePathNotDefined

class I18Next\Exception\LanguagePathNotDefined
Source [src/I18Next/Exception/LanguagePathNotDefined.php#9](#)
Parent `atk4\core\Exception`

Summary

NotFoundKey

class I18Next\Exception\NotFoundKey
Source [src/I18Next/Exception/NotFoundKey.php#10](#)
Parent `atk4\core\Exception`
Implements `Throwable`

Summary

Locale

`I18Next\Locale`

Namespaces

Processor

`I18Next\Locale\Processor`

Namespaces

Classes

Key

class I18Next\Locale\Processor\Key
Source [src/I18Next/Locale/Processor/Key.php#10](#)
Parent `I18Next\Locale\Processor\AbstractProcessor`

Summary

Methods

- *public processKey(\$key, \$context, \$counter)*
- *private processWithCounter(\$key, \$counter)*
- *private process(\$key)*
- *private processWithNamespaceWithCounter(\$key, \$counter)*
- *private processWithNamespace(\$key)*
- *private getKeyNamespace(\$key)*
- *private getOnlyKeyFromNamespacedKey(\$key, \$namespace)*

Methods

public I18Next\Locale\Processor\Key::**processKey**(\$key, \$context=null, \$counter=null)

Source [src/I18Next/Locale/Processor/Key.php#19](#)

Parameters

- **\$key** (string)
- **\$context** (string | null)
- **\$counter** (int | null)

Returns string | null

Value

class I18Next\Locale\Processor\Value

Source [src/I18Next/Locale/Processor/Value.php#12](#)

Parent *I18Next\Locale\Processor\AbstractProcessor*

Summary

Methods

- *public processValue(\$found_key, \$parameters)*
- *private processValueInterpolate(\$found_key, \$parameters)*
- *private processValueReplaceParameter(\$found_key, \$index, \$parameters)*
- *private processValueNested(\$found_key, \$parameters)*

Methods

public `I18Next\Locale\Processor\Value::processValue (&$found_key, $parameters)`

Source `src/I18Next/Locale/Processor/Value.php#20`

Parameters

- **\$found_key** (string | null)
- **\$parameters** (array | null)

Returns string | null

AbstractProcessor

class `I18Next\Locale\Processor\AbstractProcessor`

Source `src/I18Next/Locale/Processor/AbstractProcessor.php#12`

Summary

Methods

- `public __construct ($translations)`

Properties

protected static property `I18Next\Locale\Processor\AbstractProcessor::$translations`

Source `src/I18Next/Locale/Processor/AbstractProcessor.php#15`

Type `\I18Next\Locale\Translations`

Methods

public `I18Next\Locale\Processor\AbstractProcessor::__construct ($translations)`

AbstractProcessor constructor.

Source `src/I18Next/Locale/Processor/AbstractProcessor.php#22`

Parameters

- **\$translations** (`I18Next\Locale\Translations`)

Classes

Processor

class `I18Next\Locale\Processor`

Source `src/I18Next/Locale/Processor.php#13`

Summary

Methods

- `public __construct($translations)`
- `public process($key, $parameters, $context)`
- `private getKeyNamespace($key)`
- `private getCountFromParameters($parameters)`
- `private getContextFromParameters($parameters, $context)`
- `private getNamespaceFromParameters($parameters)`
- `private processKeyForNamespaces($key, $keyNamespaceFromParameters)`

Properties

Methods

public I18Next\Locale\Processor::__construct(*\$translations*)

Processor constructor.

Source [src/I18Next/Locale/Processor.php#29](#)

Parameters

- **\$translations** (*I18Next\Locale\Translations*)

public I18Next\Locale\Processor::process(*\$key*, *\$parameters=null*, *\$context=null*)

Source [src/I18Next/Locale/Processor.php#43](#)

Parameters

- **\$key** (string)
- **\$parameters** (array | null)
- **\$context** (string | null)

Returns string | null

Translations

class I18Next\Locale\Translations

Source [src/I18Next/Locale/Translations.php#19](#)

Used traits `atk4\core\ConfigTrait`

Summary

Methods

- *public load(\$path, \$use_filename_as_namespace, \$namespace_priority)*
- *private loadSingle(\$path)*
- *public useFilenameAsNamespace(\$enabled)*
- *private setNamespacePriority(\$namespace_priority)*
- *private processKeyVariation(\$processorClass, \$key, \$value)*
- *private afterReadProcessForKeyCounters()*
- *private afterReadProcessForKeyDeepInline()*
- *private afterReadAddNamespaceIfNeeded(\$config, \$namespace)*
- *public useNamespaces()*
- *public getNamespaceRanked()*
- *public setLoaderFormat(\$format)*

Properties

protected static property I18Next\Locale\Translations::\$**namespace_priority**

Source [src/I18Next/Locale/Translations.php#27](#)

Type string[]

protected static property I18Next\Locale\Translations::\$**use_filename_as_namespace**

Source [src/I18Next/Locale/Translations.php#30](#)

Type bool

Methods

public I18Next\Locale\Translations::load(\$path, \$use_filename_as_namespace, ...\$namespace_priority)

Source [src/I18Next/Locale/Translations.php#45](#)

Parameters

- **\$path** (string)
- **\$use_filename_as_namespace** (bool)
- **...\$namespace_priority** (string | null)

Throws \atk4\core\Exception

public I18Next\Locale\Translations::useFilenameAsNamespace(\$enabled)

Source [src/I18Next/Locale/Translations.php#97](#)

Parameters

- **\$enabled** (bool | null)

```

public I18Next\Locale\Translations::useNamespaces ()
    Source src/I18Next/Locale/Translations.php#197
    Returns bool

public I18Next\Locale\Translations::getNamespaceRanked ()
    Source src/I18Next/Locale/Translations.php#205
    Returns string[]

public I18Next\Locale\Translations::setLoaderFormat ($format)
    Source src/I18Next/Locale/Translations.php#213
    Parameters
        • $format (string)

```

atk4

\I18Next\atk4

Traits

TranslatorI18NextTrait

```

trait I18Next\atk4\TranslatorI18NextTrait
    Source src/I18Next/atk4/TranslatorI18NextTrait.php#10

```

Properties

```

protected static property I18Next\atk4\TranslatorI18NextTrait::$translator
    Source src/I18Next/atk4/TranslatorI18NextTrait.php#13
    Type \I18Next\TranslatorInterface

```

Methods

```

public I18Next\atk4\TranslatorI18NextTrait::setTranslator ($translator)
    Source src/I18Next/atk4/TranslatorI18NextTrait.php#20
    Parameters
        • $translator (I18Next\TranslatorInterface)
    Returns \I18Next\TranslatorInterface

public I18Next\atk4\TranslatorI18NextTrait::__ ($message, $parameters=null, $do-
    main=null, $locale=null)

    Translates the given message.

    Source src/I18Next/atk4/TranslatorI18NextTrait.php#36

```

Parameters

- **\$message** (string) The message to be translated
- **\$parameters** (array | null) Array of parameters used to translate message
- **\$domain** (string | null) The domain for the message or null to use the default
- **\$locale** (string | null) The locale or null to use the default

Throws \atk4\core\Exception

Returns string The translated string

1.2.2 Interfaces

TranslatorInterface

interface I18Next\TranslatorInterface

Source [src/I18Next/TranslatorInterface.php#7](#)

Summary

Methods

- `public _($key, $parameters, $context, $locale)`

Methods

public I18Next\TranslatorInterface::_(\$key, \$parameters=null, \$context=null, \$locale=null)

Translates the given message.

Source [src/I18Next/TranslatorInterface.php#19](#)

Parameters

- **\$key** (string)
- **\$parameters** (array | null) Array of parameters used to translate message
- **\$context** (string | null) The context of the request
- **\$locale** (string | null) The locale or null to use the default

Returns string The translated string

1.2.3 Classes

Locale

class I18Next\Locale

Source [src/I18Next/Locale.php#14](#)

Summary

Methods

- `public __construct($code)`
- `public load($path, $use_filename_as_namespace, $namespace_priority)`
- `public process($key, $parameters, $context)`
- `public setLoaderFormat($format)`

Properties

Methods

public I18Next\Locale::__construct(*\$code*)

Locale constructor.

Source [src/I18Next/Locale.php#33](#)

Parameters

- **\$code** (string)

public I18Next\Locale::load(*\$path*, *\$use_filename_as_namespace*, ...*\$namespace_priority*)

Source [src/I18Next/Locale.php#47](#)

Parameters

- **\$path** (string)
- **\$use_filename_as_namespace** (bool)
- **...\$namespace_priority** (string | null)

Throws \atk4\core\Exception

public I18Next\Locale::process(*\$key*, *\$parameters=null*, *\$context=null*)

Source [src/I18Next/Locale.php#59](#)

Parameters

- **\$key** (string)
- **\$parameters** (array | null)
- **\$context** (string | null)

Returns string | null

public I18Next\Locale::setLoaderFormat(*\$format*)

Source [src/I18Next/Locale.php#67](#)

Parameters

- **\$format** (string)

TranslatorStatic

class I18Next\TranslatorStatic

Source [src/I18Next/TranslatorStatic.php#13](#)

Summary

Methods

- *public static instance()*
- *public static setTranslationsPath(\$path)*
- *public static setNamespacePriority(\$namespace_priority)*
- *public static useFilenameAsNamespace(\$enabled)*
- *public static setLanguagePrimary(\$language_code)*
- *public static addLanguage(\$code)*
- *public static setLanguageFallback(\$fallback_code)*
- *public static _(\$key, \$parameters, \$context, \$locale)*
- *public static register()*

Properties

Methods

public static I18Next\TranslatorStatic::**instance**()

Source [src/I18Next/TranslatorStatic.php#18](#)

public static I18Next\TranslatorStatic::**setTranslationsPath**(\$path)

Source [src/I18Next/TranslatorStatic.php#32](#)

Parameters

- **\$path** (string)

Throws [\I18Next\Exception\Misusage](#)

public static I18Next\TranslatorStatic::**setNamespacePriority**(...\$namespace_priority)

Source [src/I18Next/TranslatorStatic.php#42](#)

Parameters

- **...\$namespace_priority** (mixed)

Throws [\I18Next\Exception\LanguageNamespaceMisuse](#)

public static I18Next\TranslatorStatic::**useFilenameAsNamespace**(\$enabled)

Source [src/I18Next/TranslatorStatic.php#52](#)

Parameters

- **\$enabled** (bool | null)

Throws *\I18Next\Exception\LanguageNamespaceMisuse*

public static *I18Next\TranslatorStatic::setLanguagePrimary* (*\$language_code*)

Source *src/I18Next/TranslatorStatic.php#64*

Parameters

- **\$language_code** (string)

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

public static *I18Next\TranslatorStatic::addLanguage* (*\$code*)

Source *src/I18Next/TranslatorStatic.php#76*

Parameters

- **\$code** (string)

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

public static *I18Next\TranslatorStatic::setLanguageFallback* (*\$fallback_code*)

Source *src/I18Next/TranslatorStatic.php#88*

Parameters

- **\$fallback_code** (string)

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

Throws *\atk4\core\Exception*

Throws *\I18Next\Exception\LanguageAlreadyPresent*

Throws *\I18Next\Exception\LanguagePathNotDefined*

public static *I18Next\TranslatorStatic::_(\$key, \$parameters=null, \$context=null, \$locale=null)*

Source [src/I18Next/TranslatorStatic.php#101](#)

Parameters

- **\$key** (string)
- **\$parameters** (array | null)
- **\$context** (string | null)
- **\$locale** (string | null)

Returns string

public static *I18Next\TranslatorStatic::register()*

Register global function `_`.

Source [src/I18Next/TranslatorStatic.php#109](#)

Translator

class *I18Next\Translator*

Source [src/I18Next/Translator.php#14](#)

Implements *I18Next\TranslatorInterface*

Summary

Methods

- *public setTranslationsPath(\$path)*
- *public setNamespacePriority(\$namespace_priority)*
- *public useFilenameAsNamespace(\$enabled)*
- *public setLanguagePrimary(\$language_code)*
- *public addLanguage(\$code)*
- *public setLanguageFallback(\$fallback_code)*
- *public _(\$key, \$parameters, \$context, \$locale)*
- *private getLocale(\$locale)*

Properties

Methods

public `I18Next\Translator::setTranslationsPath($path)`

Set the root path of locales folder.

Source `src/I18Next/Translator.php#45`

Parameters

- **\$path** (string)

Throws `\I18Next\Exception\Misusage`

public `I18Next\Translator::setNamespacePriority(...$namespace_priority)`

Set namespace priority.

Source `src/I18Next/Translator.php#63`

Parameters

- **...\$namespace_priority** (mixed)

Throws `\I18Next\Exception\LanguageNamespaceMisuse`

public `I18Next\Translator::useFilenameAsNamespace($enabled)`

Set if filenames will be used as namespaces.

Source `src/I18Next/Translator.php#79`

Parameters

- **\$enabled** (bool | null)

Throws `\I18Next\Exception\LanguageNamespaceMisuse`

public `I18Next\Translator::setLanguagePrimary($language_code)`

Set Primary Language.

Source `src/I18Next/Translator.php#97`

Parameters

- **\$language_code** (string)

Throws `\I18Next\Exception\LanguageAlreadyPresent`

Throws `\I18Next\Exception\LanguagePathNotDefined`

Throws `\atk4\core\Exception`

Throws `\I18Next\Exception\LanguageAlreadyPresent`

Throws `\I18Next\Exception\LanguagePathNotDefined`

Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined
Throws \atk4\core\Exception

public I18Next\Translator::addLanguage(\$code)

Add Extra languages.

Source [src/I18Next/Translator.php#112](#)

Parameters

- **\$code** (string)

Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined
Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined
Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined

public I18Next\Translator::setLanguageFallback(\$fallback_code)

Set fallback language.

Source [src/I18Next/Translator.php#138](#)

Parameters

- **\$fallback_code** (string)

Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined
Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined
Throws \atk4\core\Exception
Throws \I18Next\Exception\LanguageAlreadyPresent
Throws \I18Next\Exception\LanguagePathNotDefined

```
public I18Next\Translator::__($key, $parameters=null, $context=null, $locale=null)
```

```
{@inheritdoc}
```

Source [src/I18Next/Translator.php#147](#)

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