
transliterate Documentation

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Bi-directional transliterator for Python. Transliterates (unicode) strings according to the rules specified in the language packs (source script <-> target script).

Comes with language packs for the following languages (listed in alphabetical order):

- Armenian
- Bulgarian (beta)
- Georgian
- Greek
- Macedonian (alpha)
- Mongolian (alpha)
- Russian
- Serbian (alpha)
- Ukrainian (beta)

There are also a number of useful tools included, such as:

- Simple lorem ipsum generator, which allows lorem ipsum generation in the language chosen.
- Language detection for the text (if appropriate language pack is available).
- Slugify function for non-latin texts.

CHAPTER 1

Prerequisites

- Python ≥ 2.7 , ≥ 3.4 , PyPy

CHAPTER 2

Installation

Install with latest stable version from PyPI.

```
pip install transliterate
```

or install the latest stable version from BitBucket:

```
pip install https://bitbucket.org/barseghyanartur/transliterate/get/stable.tar.gz
```

or install the latest stable version from GitHub:

```
pip install https://github.com/barseghyanartur/transliterate/archive/stable.tar.gz
```

That's all. See the *Usage and examples* section for more.

Usage and examples

3.1 Simple usage

Required imports

```
from transliterate import translit, get_available_language_codes
```

Original text

```
text = "Lorem ipsum dolor sit amet"
```

Transliteration to Armenian

```
print(translit(text, 'hy'))  
#
```

Transliteration to Georgian

```
print(translit(text, 'ka'))  
#
```

Transliteration to Greek

```
print(translit(text, 'el'))  
# Λορεμ ιψθμ δολορ σιτ αμετ
```

Transliteration to Russian

```
print(translit(text, 'ru'))  
#
```

List of available (registered) languages

```
print(get_available_language_codes())

# ['el', 'hy', 'ka', 'ru']
```

Reversed transliterations are transliterations made from target language to source language (in terms they are defined in language packs). In case of reversed transliterations, you may leave out the `language_code` attribute, although if you know it on beforehand, specify it since it works faster that way.

Reversed transliteration from Armenian

```
print(translit(u"      ", 'hy', reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Armenian with `language_code` argument left out

```
print(translit(u"      ", reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Georgian

```
print(translit(u"      ", 'ka', reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Georgian with `language_code` argument left out

```
print(translit(u"      ", reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Greek

```
print(translit(u"Λορεμ ιψθμ δολορ σιτ αμετ", 'el', reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Greek with `language_code` argument left out

```
print(translit(u"Λορεμ ιψθμ δολορ σιτ αμετ", reversed=True))

# Lorem ipsum dolor sit amet
```

Reversed transliteration from Russian (Cyrillic)

```
print(translit(u"      ", 'ru', reversed=True))

# Lorm ipsum dolor sit amt
```

Reversed transliteration from Russian (Cyrillic) with `language_code` argument left out

```
print(translit(u"      ", reversed=True))

# Lorem ipsum dolor sit amet
```

Testing the decorator

```

from transliterate.decorators import transliterate_function

@transliterate_function(language_code='hy')
def decorator_test(text):
    return text

print(decorator_test(u"Lorem ipsum dolor sit amet"))

#

```

3.2 Working with large amounts of data

If you know which language pack shall be used for transliteration, especially when working with large amounts of data, it makes sense to get the transliteration function in the following way:

```

from transliterate import get_translit_function

translit_hy = get_translit_function('hy')

print(translit_hy(u"      ", reversed=True))
# Lorem ipsum dolor sit amet

print(translit_hy(u"Lorem ipsum dolor sit amet"))

#

```

3.3 Registering a custom language pack

3.3.1 Basics

Make sure to call the `autodiscover` function before registering your own language packs if you want to use the bundled language packs along with your own custom ones.

```

from transliterate.discover import autodiscover

autodiscover()

```

Then the custom language pack part comes.

```

from transliterate.base import TranslitLanguagePack, registry

class ExampleLanguagePack(TranslitLanguagePack):
    language_code = "example"
    language_name = "Example"
    mapping = (
        u"abcdefghijkl",
        u"1234567890",
    )

registry.register(ExampleLanguagePack)

print(get_available_language_codes())

```

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```
# ['el', 'hy', 'ka', 'ru', 'example']
print(translit(text, 'example'))
# Lor5m 9psum 4olor s9t 1m5t
```

It's possible to replace existing language packs with your own ones. By default, existing language packs are not force-installed.

To force install a language pack, set the `force` argument to `True` when registering a language pack. In that case, if a language pack with same language code has already been registered, it will be replaced; otherwise, if language pack didn't exist in the registry, it will be just registered.

```
registry.register(ExampleLanguagePack, force=True)
```

Forced language packs can't be replaced or unregistered.

3.3.2 API in depth

There are 7 class properties that you could/should be using in your language pack, of which 4 are various sorts of mappings.

3.3.2.1 Mappings

- `mapping` (tuple): A tuple of two strings, that simply represent the mapping of characters from the source language to the target language. For example, if your source language is Latin and you want to convert “a”, “b”, “c”, “d” and “e” characters to appropriate characters in Russian Cyrillic, your mapping would look as follows:

```
mapping = (u"abcde", u"")
```

Example (taken from the Greek language pack).

```
mapping = (
    u"abgdezhiiklmnxoprstyfwuABGDEZHIKLMNXOPRSTYFWU",
    u"αβγδεζηκλμνξοπρστυφωθΑΒΓΔΕΖΗΚΛΜΝΞΟΠΡΣΤΥΦΩΘ",
)
```

- `reversed_specific_mapping` (tuple): When making reversed translations, the `mapping` property is still used, but in some cases you need to provide additional rules. This property (`reversed_specific_mapping`) is meant for such cases. Further, is alike the `mapping`.

Example (taken from the Greek language pack).

```
reversed_specific_mapping = (
    u"θΘ",
    u"υΥ"
)
```

- `pre_processor_mapping` (dict): A dictionary of mapping from source language to target language. Use this only in cases if a single character in source language shall be represented by more than one character in the target language.

Example (taken from the Greek language pack).

```
pre_processor_mapping = {
    u"th": u"θ",
    u"ch": u"χ",
    u"ps": u"ψ",
    u"TH": u"Θ",
    u"CH": u"Χ",
    u"PS": u"Ψ",
}
```

- `reversed_specific_pre_processor_mapping`: Same as `pre_processor_mapping`, but used in reversed translations.

Example (taken from the Armenian language pack)

```
reversed_specific_pre_processor_mapping = {
    u"": u"u",
    u"": u"U"
}
```

3.3.2.2 Additional

- `character_ranges` (tuple): A tuple of character ranges (unicode table). Used in language detection. Works only if `detectable` property is set to `True`. Be aware, that language (or shall I better be saying - script) detection is very basic and is based on characters only.
- `detectable` (bool): If set to `True`, language pack would be used for automatic language detection.

3.4 Using the lorem ipsum generator

Note, that due to incompatibility of the original *lorem-ipsum-generator* package with Python 3, when used with Python 3 *transliterate* uses its' own simplified fallback lorem ipsum generator (which still does the job).

Required imports

```
from transliterate.contrib.apps.translipsum import TranslipsumGenerator
```

Generating paragraphs in Armenian

```
g_am = TranslipsumGenerator(language_code='hy')
print(g_am.generate_paragraph())

#
# .
# . U , .
#
```

Generating sentence in Georgian

```
g_ka = TranslipsumGenerator(language_code='ka')
print(g_ka.generate_sentence())

# .
```

Generating sentence in Greek

```
g_el = TranslipsisGenerator(language_code='el')
print(g_el.generate_sentence())

# Νες κρασ αμετ, ελιτ νεστιβθλθμ εθ, αενεαν ναμ, τελλθσ ναριθσ.
```

Generating sentence in Russian (Cyrillic)

```
g_ru = TranslipsisGenerator(language_code='ru')
print(g_ru.generate_sentence())

# cc, c q .
```

3.5 Language detection

Required imports

```
from transliterate import detect_language
```

Detect Armenian text

```
detect_language(u' ')

# hy
```

Detect Georgian text

```
detect_language(u' ')

# ka
```

Detect Greek text

```
detect_language(u'Λορεμ ιψθμ δολορ σιτ αμετ')

# el
```

Detect Russian (Cyrillic) text

```
detect_language(u' ')

# ru
```

3.6 Slugify

Required imports

```
from transliterate import slugify
```

Slugify Armenian text

```
slugify(u' ')

# lorem-ipsum-dolor-sit-amet
```

Slugify Georgian text

```
slugify(u'      ')\n# lorem-ipsum-dolor-sit-amet
```

Slugify Greek text

```
slugify(u'Λορεμ ιψθμ δολορ σιτ αμετ')\n# lorem-ipsum-dolor-sit-amet
```

Slugify Russian (Cyrillic) text

```
slugify(u'      ')\n# lorem-ipsum-dolor-sit-amet
```


CHAPTER 4

Missing a language pack?

Missing a language pack for your own language? Contribute to the project by making one and it will appear in a new version (which will be released very quickly).

Writing documentation

Keep the following hierarchy.

```
=====  
title  
=====  
  
header  
=====  
  
sub-header  
-----  
  
sub-sub-header  
~~~~~  
  
sub-sub-sub-header  
^^^^^  
  
sub-sub-sub-sub-header  
+++++  
  
sub-sub-sub-sub-sub-header  
*****
```


CHAPTER 6

License

GPL-2.0-only OR LGPL-2.1-or-later

CHAPTER 7

Support

For any issues contact me at the e-mail given in the *Author* section.

CHAPTER 8

Author

Artur Barseghyan <artur.barseghyan@gmail.com>

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9.1.1.1.1 Subpackages

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9.1.1.1.1.2 Subpackages

9.1.1.1.1.3 transliterate.contrib.apps.translipsum package

9.1.1.1.1.4 Submodules

9.1.1.1.1.5 transliterate.contrib.apps.translipsum.utils module

```
class transliterate.contrib.apps.translipsum.utils.Generator (*args, **kwargs)
    Bases: object
    Fallback lorem ipsum generator for Python 3.
    generate_paragraph (num_sentences=4)
        Generate paragraph.
    generate_sentence ()
        Generate sentence.
```

```
generate_word()  
    Generate word.
```

9.1.1.1.1.6 Module contents

```
class transliterate.contrib.apps.translipsum.TranslipsumGenerator(language_code,  
                                                                    re-  
                                                                    versed=False,  
                                                                    *args,  
                                                                    **kwargs)  
  
    Bases: lipsum.Generator  
    Lorem ipsum generator.  
  
    generate_paragraph(*args, **kwargs)  
        Generate paragraph.  
  
    generate_sentence(*args, **kwargs)  
        Generate sentence.
```

9.1.1.1.1.7 Module contents

9.1.1.1.1.8 transliterate.contrib.languages package

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9.1.1.1.1.17 transliterate.contrib.languages.bg.translit_language_pack module

```
class transliterate.contrib.languages.bg.translit_language_pack.BulgarianLanguagePack  
    Bases: transliterate.base.TranslitLanguagePack  
    Language pack for Bulgarian language.  
    See http://en.wikipedia.org/wiki/Romanization\_of\_Bulgarian for details.  
  
    character_ranges = ((1024, 1279), (1280, 1327))  
    detectable = False
```


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9.1.1.1.1.61 transliterate.contrib.languages.l1.translit_language_pack module

class transliterate.contrib.languages.l1.translit_language_pack.Latin1SupplementLanguagePack

Bases: *transliterate.base.TranslitLanguagePack*

Language pack for Latin1 Supplement.

Though not exactly a language, it's a set of commonly found unicode characters. See http://en.wikipedia.org/wiki/Latin-1_Supplement_%28Unicode_block%29 for details.

character_ranges = ((192, 214), (216, 246), (248, 255))

detectable = True

language_code = 'l1'

language_name = 'Latin1 Supplement'

mapping = (u'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ', u'abcdefghijklmnop

reversed_specific_mapping = (u'\xe0\x0\xe1\x1\xe2\x2\xe3\x3\xe8\x8\xe9\x9\xea\x0

reversed_specific_pre_processor_mapping = {u'\xc4': u'Ae', u'\xc5': u'Aa', u'\xc6':

9.1.1.1.1.62 Module contents

9.1.1.1.1.63 transliterate.contrib.languages.mk package

9.1.1.1.1.64 Subpackages

9.1.1.1.1.65 transliterate.contrib.languages.mk.data package

9.1.1.1.1.66 Submodules

9.1.1.1.1.67 transliterate.contrib.languages.mk.data.default module

9.1.1.1.1.68 Module contents

9.1.1.1.1.69 Submodules

9.1.1.1.1.70 transliterate.contrib.languages.mk.translit_language_pack module

```
class transliterate.contrib.languages.mk.translit_language_pack.MacedonianLanguagePack
    Bases: transliterate.base.TranslitLanguagePack
    Language pack for Macedonian language.
    See http://en.wikipedia.org/wiki/Romanization\_of\_Macedonian for details.
    character_ranges = ((1024, 1279), (1280, 1327))
    detectable = False
    language_code = 'mk'
    language_name = 'Macedonian'
    mapping = (u'abvgdezijklmnoprstufhcABVGDEZIJKLMNOPRSTUFHC', u'\u0430\u0431\u0432\u0433\u0434\u0435\u0436\u0437\u0438\u0439\u043a\u043b\u043c\u043d\u043e\u043f\u0430\u0431\u0432\u0433\u0434\u0435\u0436\u0437\u0438\u0439\u043a\u043b\u043c\u043d\u043e\u043f\u0430\u0431\u0432\u0433\u0434\u0435\u0436\u0437\u0438\u0439\u043a\u043b\u043c\u043d\u043e\u043f')
    pre_processor_mapping = {u'Ch': u'\u0427', u'Dz': u'\u0414\u0437', u'Dzh': u'\u0414\u0437\u0435', u'G': u'\u0413'}
    reversed_specific_mapping = (u'', u'')
```


9.1.1.1.82 Subpackages

9.1.1.1.84 Submodules

9.1.1.1.1.86 Module contents

9.1.1.1.1.88 transliterate.contrib.languages.ru.translit_language_pack module

```
reversed_specific_mapping = (u'\u0451\u044d\u0401\u042d\u044a\u044c\u042a\u042c', u"ee
```

9.1.1.1.1.89 Module contents

9.1.1.1.1.90 transliterate.contrib.languages.sr package

9.1.1.1.1.91 Subpackages

9.1.1.1.1.92 transliterate.contrib.languages.sr.data package

9.1.1.1.1.93 Submodules

9.1.1.1.1.94 transliterate.contrib.languages.sr.data.default module

9.1.1.1.1.95 Module contents

9.1.1.1.1.96 Submodules

9.1.1.1.1.97 transliterate.contrib.languages.sr.translit_language_pack module

class transliterate.contrib.languages.sr.translit_language_pack.**SerbianLanguagePack**

Bases: *transliterate.base.TranslitLanguagePack*

Language pack for Serbian language.

See https://en.wikipedia.org/wiki/Romanization_of_Serbian for details.

character_ranges = ((1032, 1264), (0, 383))

detectable = False

language_code = 'sr'

language_name = 'Serbian'

mapping = (u'avvgd\u0111e\u017ezijklmnoprst\u0107ufhc\u010d\u0161ABVGD\u0110E\u017dZIJ

pre_processor_mapping = {u'D\u017e': u'\u040f', u'Lj': u'\u0409', u'Nj': u'\u040a',

reversed_specific_mapping = (u'',)

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9.1.1.1.1.107 Module contents

9.1.1.1.1.108 Module contents

9.1.1.1.2 Module contents

9.1.1.2 transliterate.tests package

9.1.1.2.1 Subpackages

9.1.1.2.1.1 transliterate.tests.data package

9.1.1.2.1.2 Submodules

9.1.1.2.1.3 transliterate.tests.data.default module

9.1.1.2.1.4 Module contents

9.1.1.2.2 Submodules

9.1.1.2.3 transliterate.tests.base module

9.1.1.2.4 transliterate.tests.defaults module

9.1.1.2.5 transliterate.tests.helpers module

`transliterate.tests.helpers.log_info` (*func*)
Print some useful info.

`transliterate.tests.helpers.py2only` (*func*)
Skip the test on Python 3.

9.1.1.2.6 transliterate.tests.test_transliterate module

```
class transliterate.tests.test_transliterate.TransliterateTest (methodName='runTest')
    Bases: unittest.case.TestCase
    Test transliterate.utils.translit.

    setUp ()
        Set up.

    test_01_get_available_language_codes (*args, **kwargs)
    test_02_translit_latin_to_armenian (*args, **kwargs)
    test_03_translit_latin_to_georgian (*args, **kwargs)
    test_04_translit_latin_to_greek (*args, **kwargs)
    test_06_translit_latin_to_bulgarian_cyrillic (*args, **kwargs)
    test_06_translit_latin_to_cyrillic (*args, **kwargs)
```

```
test_06_translit_latin_to_mongolian_cyrillic(*args, **kwargs)
test_06_translit_latin_to_serbian_cyrillic(*args, **kwargs)
test_06_translit_latin_to_ukrainian_cyrillic(*args, **kwargs)
test_07_translit_armenian_to_latin(*args, **kwargs)
test_08_translit_georgian_to_latin(*args, **kwargs)
test_09_translit_greek_to_latin(*args, **kwargs)
test_11_translit_bulgarian_cyrillic_to_latin(*args, **kwargs)
test_11_translit_cyrillic_to_latin(*args, **kwargs)
test_11_translit_mongolian_cyrillic_to_latin(*args, **kwargs)
test_11_translit_serbian_cyrillic_to_latin(*args, **kwargs)
test_11_translit_ukrainian_cyrillic_to_latin(*args, **kwargs)
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test_13_method_decorator(*args, **kwargs)
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test_30_slugify_serbian_cyrillic(*args, **kwargs)
test_30_slugify_ukrainian_cyrillic(*args, **kwargs)
```

```

test_31_override_settings (*args, **kwargs)
test_31b_get_translit_function (*args, **kwargs)
test_32_auto_translit_reversed (*args, **kwargs)
test_33_register_unregister (*args, **kwargs)
test_35_translit_serbian_cyrillic_to_serbian_latin (*args, **kwargs)
test_35_translit_serbian_latin_to_serbian_cyrillic (*args, **kwargs)

```

9.1.1.2.7 Module contents

9.1.2 Submodules

9.1.3 transliterate.base module

class transliterate.base.TranslitLanguagePack

Bases: object

Base language pack.

The attributes below shall be defined in every language pack.

language_code: Language code (obligatory). Example value: 'hy', 'ru'. **language_name:** Language name (obligatory). Example value: 'Armenian', 'Russian'.

character_ranges: Character ranges that are specific to the language. When making a pack, check [this](#) page for the ranges.

mapping: Mapping (obligatory). A tuple, consisting of two strings (source and target). Example value: (u'abc', u'').

reversed_specific_mapping: Specific mapping (one direction only) used when transliterating from target script to source script (reversed transliteration).

pre_processor_mapping: Pre processor mapping (optional). A dictionary mapping for letters that can't be represented by a single latin letter.

reversed_specific_pre_processor_mapping: Pre processor mapping (optional). A dictionary mapping for letters that can't be represented by a single latin letter (reversed transliteration).

example

```

>>> class ArmenianLanguagePack(TranslitLanguagePack):
>>>     language_code = "hy"
>>>     language_name = "Armenian"
>>>     character_ranges = ((0x0530, 0x058F), (0xFB10, 0xFB1F))
>>>     mapping = (
>>>         u"abgdezilxkhmjmpsvtrcq&ofABGDEZILXKHMJNPSVTRCQOF", # Source script
>>>         u"", # Target script
>>>     )
>>>     reversed_specific_mapping = (
>>>         u"",
>>>         u"rR"
>>>     )

```

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```

>>> pre_processor_mapping = {
>>>     # lowercase
>>>     u"e": u"",
>>>     u"y": u"",
>>>     u"th": u"",
>>>     u"jh": u"",
>>>     u"ts": u"",
>>>     u"dz": u"",
>>>     u"gh": u"",
>>>     u"tch": u"",
>>>     u"sh": u"",
>>>     u"vo": u"",
>>>     u"ch": u"",
>>>     u"dj": u"",
>>>     u"ph": u"",
>>>     u"u": u"",
>>>
>>>     # uppercase
>>>     u"E": u"",
>>>     u"Y": u"",
>>>     u"Th": u"",
>>>     u"Jh": u"",
>>>     u"Ts": u"",
>>>     u"Dz": u"",
>>>     u"Gh": u"",
>>>     u"Tch": u"",
>>>     u"Sh": u"",
>>>     u"Vo": u"",
>>>     u"Ch": u"",
>>>     u"Dj": u"",
>>>     u"Ph": u"",
>>>     u"U": u""
>>> }
>>> reversed_specific_pre_processor_mapping = {
>>>     u"": u"u",
>>>     u"": u"U"
>>> }

```

Note, that in Python 3 you won't be using u prefix before the strings.

character_ranges = None

characters = None

classmethod contains (*character*)

Check if given character belongs to the language pack.

Return bool

classmethod detect (*num_words=None*)

Detect the language.

Heavy language detection, which is activated for languages that are harder detect (like Russian Cyrillic and Ukrainian Cyrillic).

Parameters

- **value** (*unicode*) – Input string.
- **num_words** (*int*) – Number of words to base decision on.

Return bool True if detected and False otherwise.

detectable = False

language_code = None

language_name = None

make_strict (*value*, *reversed=False*)

Strip out unnecessary characters from the string.

Parameters

- **value** (*string*) –
- **reversed** (*bool*) –

Return string

mapping = None

pre_processor_mapping = None

pre_processor_mapping_keys = []

reversed_characters = None

reversed_pre_processor_mapping = None

reversed_pre_processor_mapping_keys = []

reversed_specific_mapping = None

reversed_specific_pre_processor_mapping = None

reversed_specific_pre_processor_mapping_keys = []

classmethod suggest (*reversed=False*, *limit=None*)

Suggest possible variants (some sort of auto-complete).

Parameters

- **value** (*str*) –
- **limit** (*int*) – Limit number of suggested variants.

Return list

translit (*value*, *reversed=False*, *strict=False*, *fail_silently=True*)

Transliterate the given value according to the rules.

Rules are set in the transliteration pack.

Parameters

- **value** (*str*) –
- **reversed** (*bool*) –
- **strict** (*bool*) –
- **fail_silently** (*bool*) –

Return str

9.1.4 transliterate.conf module

9.1.5 transliterate.decorators module

`transliterate.decorators.transliterate_function`
alias of `transliterate.decorators.TransliterateFunction`

`transliterate.decorators.transliterate_method`
alias of `transliterate.decorators.TransliterateMethod`

9.1.6 transliterate.defaults module

9.1.7 transliterate.discover module

`transliterate.discover.autodiscover()`
Auto-discover the language packs in contrib/apps.

9.1.8 transliterate.exceptions module

exception `transliterate.exceptions.ImproperlyConfigured`
Bases: `exceptions.Exception`
Exception raised when developer didn't configure the code properly.

exception `transliterate.exceptions.InvalidRegistryItemType`
Bases: `exceptions.ValueError`
Raised when an attempt is made to register an item in the registry.
Raised when an attempt is made to register an item in the registry which does not have a proper type.

exception `transliterate.exceptions.LanguageCodeError`
Bases: `exceptions.Exception`
Exception raised when language code is empty or has incorrect value.

exception `transliterate.exceptions.LanguageDetectionError`
Bases: `exceptions.Exception`
Exception raised when language can't be detected.
Exception raised when language can't be detected for the text given.

exception `transliterate.exceptions.LanguagePackNotFound`
Bases: `exceptions.Exception`
Exception raised when language pack is not found.
Exception raised when language pack is not found for the language code given.

9.1.9 transliterate.helpers module

`transliterate.helpers.PROJECT_DIR` (*base*)
Project dir.

`transliterate.helpers.project_dir` (*base*)
Project dir.

9.1.10 transliterate.utils module

`transliterate.utils.detect_language(text, num_words=None, fail_silently=True, heavy_check=False)`

Detect the language from the value given.

Detect the language from the value given based on ranges defined in active language packs.

Parameters

- **value** (*unicode*) – Input string.
- **num_words** (*int*) – Number of words to base decision on.
- **fail_silently** (*bool*) –
- **heavy_check** (*bool*) – If given, heavy checks would be applied when simple checks don't give any results. Heavy checks are language specific and do not apply to a common logic. Heavy language detection is defined in the `detect` method of each language pack.

Return str Language code.

`transliterate.utils.get_available_language_codes()`

Get list of language codes for registered language packs.

Return list

`transliterate.utils.get_available_language_packs()`

Get list of registered language packs.

Return list

`transliterate.utils.get_translit_function(language_code)`

Return translit function for the language given.

Parameters **language_code** (*str*) –

Return callable

`transliterate.utils.slugify(text, language_code=None)`

Slugify the given text.

If no `language_code` is given, auto-detect the language code from text given.

Parameters

- **text** (*str*) –
- **language_code** (*str*) –

Return str

`transliterate.utils.suggest(value, language_code=None, reversed=False, limit=None)`

Suggest possible variants.

Parameters

- **value** (*str*) –
- **language_code** (*str*) –
- **reversed** (*bool*) – If set to True, reversed translation is made.
- **limit** (*int*) – Limit number of suggested variants.

Return list

`transliterate.utils.translit` (*value*, *language_code*=None, *reversed*=False, *strict*=False)

Transliterate the text for the language given.

Language code is optional in case of reversed translations (from some script to latin).

Parameters

- **value** (*str*) –
- **language_code** (*str*) –
- **reversed** (*bool*) – If set to True, reversed translation is made.
- **strict** (*bool*) – If given, all that are not found in the transliteration pack, are simply stripped out.

Return *str*

9.1.11 Module contents

`transliterate.detect_language` (*text*, *num_words*=None, *fail_silently*=True, *heavy_check*=False)

Detect the language from the value given.

Detect the language from the value given based on ranges defined in active language packs.

Parameters

- **value** (*unicode*) – Input string.
- **num_words** (*int*) – Number of words to base decision on.
- **fail_silently** (*bool*) –
- **heavy_check** (*bool*) – If given, heavy checks would be applied when simple checks don't give any results. Heavy checks are language specific and do not apply to a common logic. Heavy language detection is defined in the `detect` method of each language pack.

Return *str* Language code.

`transliterate.get_available_language_codes` ()

Get list of language codes for registered language packs.

Return *list*

`transliterate.get_available_language_packs` ()

Get list of registered language packs.

Return *list*

`transliterate.get_translit_function` (*language_code*)

Return translit function for the language given.

Parameters **language_code** (*str*) –

Return *callable*

`transliterate.slugify` (*text*, *language_code*=None)

Slugify the given text.

If no *language_code* is given, auto-detect the language code from text given.

Parameters

- **text** (*str*) –
- **language_code** (*str*) –

Return str

`transliterate.translit(value, language_code=None, reversed=False, strict=False)`

Transliterate the text for the language given.

Language code is optional in case of reversed translations (from some script to latin).

Parameters

- **value** (*str*) –
- **language_code** (*str*) –
- **reversed** (*bool*) – If set to True, reversed translation is made.
- **strict** (*bool*) – If given, all that are not found in the transliteration pack, are simply stripped out.

Return str

9.2 Release history

9.2.1 1.10.2

2018-09-17

- Add `get_translit_function` for speed-ups when looping through a large set of strings.

9.2.2 1.10.1

2018-05-02

- Fixes and improvements in Georgian language pack. Removed historical *asomtavruli* (an old Georgian script which is no longer used) support.
- Improvements in Serbian language pack.

9.2.3 1.10

2017-07-07

- Added Serbian language pack.
- Drop Python 2.6 support.

9.2.4 1.9

2016-12-27

- Dropping Python 3.2 and Python 3.3 support.
- Clean up.
- pep8 fixes.
- Minor fixes in Greek language pack.
- Dedicated shell in example project.

- Tested again PyPy.

9.2.5 1.8.1

2016-07-11

- Fixes in Mongolia language pack.

9.2.6 1.8

2016-07-09

- Added Macedonian language pack.
- Added Mongolian language pack.
- Drop support for Python 3.2.

9.2.7 1.7.6

2016-01-29

- Fixes in language detection.

9.2.8 1.7.5

2015-11-11

- Fixes in Greek language.

9.2.9 1.7.4

2015-10-24

- Python wheels support added.

9.2.10 1.7.3

2014-07-30

- Added Bulgarian language pack.

9.2.11 1.7.2

2014-06-18

- Refactored Python 3.2 support approach.

9.2.12 1.7.1

2014-06-17

- Refactored tests.

9.2.13 1.7

2014-06-17

- Added Python 3.2 support.

9.2.14 1.6.1

2014-05-21

- Fixes in Russian language pack.

9.2.15 1.6

2014-03-12

- Ukrainian language pack added.
- Each language pack got an extra `properly detectable`, which is set to `False` by default. Language packs with that properly set to `False` are excluded from language auto-detection.
- Improved tests.

9.2.16 1.5

2013-10-15

- Lowering `six` package requirement to 1.1.0.
- Minor documentation improvements.

9.2.17 1.4

2013-10-11

- Added a fallback lorem ipsum generator for Python 3.

9.2.18 1.3

2013-10-01

- Fixed reversed translation of some chars in Russian language pack.
- Improved tests.
- Minor API improvements.

9.2.19 1.2

2013-09-08

- Python 3 support added.

9.2.20 1.1

2013-09-08

- Allow language packs to be unregistered when not forced.
- Minor documentation improvements.

9.2.21 1.0

2013-08-04

- Auto transliterate when reversed added
- Better exception handling.

9.2.22 0.9

2013-08-03

- Greek language pack status changed to beta.
- Improvements of slugify and language detection of Greek language.

9.2.23 0.8

2013-08-03

- Greek language support added.
- Minor fixes in Georgian language pack.

9.2.24 0.7

2013-08-03

- Georgian language support added.

9.2.25 0.6

2013-08-03

- Minor fixes.

9.2.26 0.5

2013-07-31

- Configurable settings added.
- Minor fixes.
- Better debugging.
- Minor documentation improvements.

9.2.27 0.4

2013-07-17

- Python 2.6 support added.
- Minor documentation improvements.

9.2.28 0.3

2013-07-14

- Slugify feature added.
- Language auto detection from given text added.
- Minor fixes.

9.2.29 0.2

2013-07-12

- Lorem ipsum generator added.
- Minor documentation improvements.

9.2.30 0.1

2013-07-11

- Initial.

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