django-localflavor Documentation

Release 1.3

Django Software Foundation and individual contributors

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Contents

1 Installation 3

2 Internationalization 5

3 Adding flavors 7

4 Releases 9

5 How to migrate 11

6 Backwards compatibility 13

7 Indices and tables 15
- 7.1 Authors . . . 15
- 7.2 Changelog . . . 17
- 7.3 Argentina (ar) . . . 20
- 7.4 Austria (at) . . . 21
- 7.5 Australia (au) . . . 21
- 7.6 Belgium (be) . . . 22
- 7.7 Bulgaria (bg) . . . 23
- 7.8 Brazil (br) . . . 24
- 7.9 Canada (ca) . . . 25
- 7.10 Switzerland (ch) . . . 26
- 7.11 Chile (cl) . . . 27
- 7.12 China (cn) . . . 28
- 7.13 Colombia (co) . . . 29
- 7.14 Czech Republic (cz) . . . 29
- 7.15 Germany (de) . . . 30
- 7.16 Denmark (dk) . . . 30
- 7.17 Ecuador (ec) . . . 31
- 7.18 Estonia (ee) . . . 31
- 7.19 Spain (es) . . . 32
- 7.20 Finland (fi) . . . 33
- 7.21 France (fr) . . . 34
- 7.22 Great Britain (gb) . . . 35
- 7.23 Greece (gr) . . . 36
- 7.24 Hong Kong (hk) . . . 37
- 7.25 Croatia (hr) . . . 37
- 7.26 Hungary (hu) . . . 38

7.27 Indonesia (id) . . . 39
7.28 Ireland (ie) . . . 40
7.29 Israel (il) . . . 40
7.30 India (in) . . . 41
7.31 Iceland (is) . . . 42
7.32 Italy (it) . . . 42
7.33 Japan (jp) . . . 44
7.34 Kuwait (kw) . . . 44
7.35 Lithuania (lt) . . . 45
7.36 Latvia (lv) . . . 46
7.37 Macedonia (mk) . . . 47
7.38 Malta (mt) . . . 48
7.39 Mexico (mx) . . . 48
7.40 The Netherlands (nl) . . . 50
7.41 Norway (no) . . . 51
7.42 New Zealand (nz) . . . 52
7.43 Peru (pe) . . . 53
7.44 Pakistan (pk) . . . 53
7.45 Poland (pl) . . . 54
7.46 Portugal (pt) . . . 56
7.47 Paraguay (py) . . . 57
7.48 Romania (ro) . . . 57
7.49 Russia (ru) . . . 59
7.50 Sweden (se) . . . 59
7.51 Singapore (sg) . . . 60
7.52 Slovenia (si) . . . 60
7.53 Slovakia (sk) . . . 61
7.54 Tunisia (tn) . . . 62
7.55 Turkey (tr) . . . 62
7.56 United States of America (us) . . . 63
7.57 Uruguay (uy) . . . 65
7.58 South Africa (za) . . . 65
7.59 Generic helpers . . . 66

Python Module Index **69**

django-localflavor is a collection of assorted pieces of code that are useful for particular countries or cultures. These are called the "local flavor" add-ons and live in the *localflavor* package.

Inside that package, country- or culture-specific code is organized into subpackages, named using ISO 3166 country codes.

Most of the localflavor add-ons are localized form components deriving from the forms framework – for example, a *USStateField* that knows how to validate U.S. state abbreviations, and a *FISocialSecurityNumber* that knows how to validate Finnish social security numbers.

- Argentina (ar)
- Austria (at)
- Australia (au)
- Belgium (be)
- Bulgaria (bg)
- Brazil (br)
- Canada (ca)
- Switzerland (ch)
- Chile (cl)
- China (cn)
- Colombia (co)
- Czech Republic (cz)
- Germany (de)
- Denmark (dk)
- Ecuador (ec)
- Estonia (ee)
- Spain (es)
- Finland (fi)
- France (fr)
- Great Britain (gb)
- Greece (gr)
- Hong Kong (hk)
- Croatia (hr)
- Hungary (hu)
- Indonesia (id)
- Ireland (ie)
- Israel (il)
- India (in)
- Iceland (is)
- Italy (it)
- Japan (jp)
- Kuwait (kw)
- Lithuania (lt)
- Latvia (lv)
- Macedonia (mk)
- Malta (mt)
- Mexico (mx)
- The Netherlands (nl)
- Norway (no)
- New Zealand (nz)
- Peru (pe)
- Pakistan (pk)
- Poland (pl)
- Portugal (pt)
- Paraguay (py)

- Romania (ro)
- Russia (ru)
- Sweden (se)
- Slovenia (si)
- Slovakia (sk)
- Tunisia (tn)
- Turkey (tr)
- United States of America (us)
- Uruguay (uy)
- South Africa (za)

To use one of these localized components, just import the relevant subpackage. For example, here's how you can create a form with a field representing a French telephone number:

```
from django import forms
from localflavor.fr.forms import FRPhoneNumberField

class MyForm(forms.Form):
    my_french_phone_no = FRPhoneNumberField()
```

The `localflavor` package also includes a generic subpackage, containing useful code that is not specific to one particular country or culture. This package defines date, datetime and split datetime input fields based on those from the forms, but with non-US default formats. Here's an example of how to use them:

```
from django import forms
from localflavor import generic

class MyForm(forms.Form):
    my_date_field = generic.forms.DateField()
```

The `localflavor` generic package also has IBAN and BIC model and form fields. Here's an example of how to use the IBAN and BIC form fields:

```
from django import forms
from localflavor.generic.forms import BICFormField, IBANFormField

class MyForm(forms.Form):
    iban = IBANFormField()
    bic = BICFormField()
```

CHAPTER 1

Installation

To install django-localflavor use your favorite packaging tool, e.g.pip:

```
pip install django-localflavor
```

Or download the source distribution from PyPI at https://pypi.python.org/pypi/django-localflavor, decompress the file and run `python setup.py install` in the unpacked directory.

Then add `'localflavor'` to your `INSTALLED_APPS` setting:

```
INSTALLED_APPS = (
    # ...
    'localflavor',
)
```

Note: Adding `'localflavor'` to your `INSTALLED_APPS` setting is required for South and translations to work. Using django-localflavor without adding it to your `INSTALLED_APPS` setting is not recommended.

CHAPTER 2

Internationalization

Localflavor has its own catalog of translations, in the directory `localflavor/locale`, and it's not loaded automatically like Django's general catalog in `django/conf/locale`. If you want localflavor's texts to be translated, like form fields error messages, you must include *`localflavor`* in the `INSTALLED_APPS` setting, so the internationalization system can find the catalog, as explained in How Django discovers translations.

CHAPTER 3

Adding flavors

We'd love to add more of these, so please create a ticket with any code you'd like to contribute. One thing we ask is that you please use Unicode objects (`u'mystring'`) for strings, rather than setting the encoding in the file. See any of the existing flavors for examples.

See the contributing documentation for how to run the tests while working on a local flavor.

If you consider adding a new localflavor for country here are some examples that you might consider implementing:

- form fields and form widgets
  - ID verification
  - tax or social security number validator
  - car registration
  - zip code validation
  - phone number validation
  - country area selects, e.g. cities, counties, states, provinces
- model fields, e.g. for storing any of the above form fields' values
- local translations of English area names. Join your language team at Transifex: https://www.transifex.com/projects/p/django-localflavor/

CHAPTER 4

Releases

Due to django-localflavor' history as a former contrib app, the app is required to be working with the actively maintained Django versions. See the documentation about Django's release process for more information.

django-localflavor releases are not tied to the release cycle of Django. Version numbers follow the appropriate Python standards, e.g. PEPs 386 and 440.

CHAPTER 5

How to migrate

If you've used the old `django.contrib.localflavor` package or one of the temporary `django-localflavor-*` releases, follow these two easy steps to update your code:

1. Install the third-party `django-localflavor` package.
2. Change your app's import statements to reference the new packages.

   For example, change this:

```
from django.contrib.localflavor.fr.forms import FRPhoneNumberField
```

   ...to this:

```
from localflavor.fr.forms import FRPhoneNumberField
```

   Or if you used one of the shortlived `django-localflavor-*` packages change:

```
from django_localflavor_fr.forms import FRPhoneNumberField
```

   ...to this:

```
from localflavor.fr.forms import FRPhoneNumberField
```

The code in the new package is the same (it was copied directly from Django), so you don't have to worry about backwards compatibility in terms of functionality. Only the imports have changed.

CHAPTER 6

Backwards compatibility

We will always attempt to make *localflavor* reflect the officially gazetted policies of the appropriate local government authority. For example, if a government body makes a change to add, alter, or remove a province (or state, or county), that change will be reflected in localflavor in the next release.

When a backwards-incompatible change is made (for example, the removal or renaming of a province) the localflavor in question will raise a warning when that localflavor is imported. This provides a run-time indication that something may require attention.

However, once you have addressed the backwards compatibility (for example, auditing your code to see if any data migration is required), the warning serves no purpose. The warning can then be suppressed. For example, to suppress the warnings raised by the Indonesian localflavor you would use the following code:

```
import warnings
warnings.filterwarnings('ignore',
                        category=RuntimeWarning,
                        module='localflavor.id')
from localflavor.id import forms as id_forms
```

CHAPTER 7

Indices and tables

7.1 Authors

- Aaron Boman
- Adam Taylor
- Adrian Holovaty
- Agustín Scaramuzza
- Alex Butum
- Alex Gaynor
- Alex Hill
- Alex Zhang
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- Andrew Godwin
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7.2 Changelog

7.2.1 1.3 (2016-04-06)

New flavors:

- Added local flavor for Bulgaria (gh-191)
- Added local flavor for Tunisia (gh-141)
- Added local flavor for Hungary (gh-213)

New fields for existing flavors:

- Added ARCBUField form field. (gh-151).
- Added NLZipCodeField, NLProvinceField, NLSoFiNumberField, NLPhoneNumberField model fields. (gh-152).
- Added AUBusinessNumberField model and form fields. (gh-63)

Modifications to existing flavors:

- Moved Dutch validators from localflavor.nl.forms to localflavor.nl.validators (gh-152).
- Fix check for promotional social security numbers in USSocialSecurityNumberField (gh-157).
- Updated IBANField to support the latest additions to the IBAN Registry (version 64 / March 2016).
- Fix bug with MXRFCField where some incorrect values would validate correctly. (gh-204).
- Fixed bug with IBANFormField validation. (gh-215).
- Update regex in DEZipCodeField to prohibit invalid postal codes. (gh-216).
- Added deconstructor methods to validators. (gh-220).
- Fix bug in ESIdentityCardNumberField where some valid values for NIE numbers were not validating. (gh-217)

- Add deconstruct method to all model fields. (gh-162) (gh-224)

Other changes:

- Drop support for Django 1.5, Django 1.6 and Python 2.6 (gh-170).

7.2.2 1.2 (2015-11-27)

New flavors:

- None

New fields for existing flavors:

- Added form field for Estonian business registration codes (gh-135).
- Added model field for Ecuadorian provinces (gh-138).
- Added form field for Swiss Social Security numbers ((gh-155).
- Added form field for Brazilian Legal Process numbers (Processo) (gh-163).

Modifications to existing flavors:

- Fixed misspelled Polish administrative unit names (gh-136).
- Added Kosovo and Timor-Leste to list of IBAN countries (gh-139).
- Fixed error in Romanian fiscal identity code (CIF) field when value has a trailing slash (gh-146).
- Updated validation in Swiss postal code field to only accept values in the range 1000 - 9000 (gh-154).
- Added validator for International Article Number (EAN) to the generic module (gh-156).
- Updated Italian social security number field to use 'tax code' in error message (gh-167).
- Fixed error in Greek tax number code field when value has only alpha characters (gh-171).
- Added stricter validation in the Brazilian Cadastro de Pessoas Físicas (CPF) field (gh-172).
- Corrected Romanian counties choice names to use and (comma below) (gh-175).
- Updated Brazilian postal code field to also accept values with XX.XXX-XXX and XXXXXXXX formats (gh-177).
- Marked US state names for translation (gh-178).
- Fixed French national identification number validation for people born before 1976 in Corsica (gh-186).

7.2.3 1.1 (2014-12-10)

New flavors:

- Added local flavor for Denmark (gh-83)
- Added local flavor for Estonia (gh-70)
- Added local flavor for Latvia (gh-68)
- Added local flavor for Malta (gh-88)
- Added local flavor for Pakistan (gh-41)
- Added local flavor for Singapore (gh-119)

New fields for existing flavors:

- Added model and form fields for French SIREN/SIRET numbers (gh-123)
- Added model field for states of Brazil (gh-22)
- Added form field for Indian Aadhaar numbers (gh-23)
- Added model field for states of India (gh-23)
- Added form field for Lithuanian phone numbers
- Added model field for Dutch bank accounts (gh-42)
- Added form field for Italian phone numbers (gh-74)
- Added form field for French National Identification Number (gh-75)
- Added IBAN model and form fields (gh-86)
- Added BIC model and form fields (gh-125)
- Added SSN model field for US (gh-96)
- Added ZIP code model field for US (gh-55)

Other modifications to existing flavors:

- *backward incompatible* Updated the region lists of Great Britain (gh-43, gh-126)
- Added Ceuta and Mellila to regions of Spain (gh-8)
- Added support entities in Italian SSN form field (gh-20)
- Added Japanese prefecture codes and fix prefecture order (gh-27)
- Added normalization for Lithuanian postal code field (gh-69)
- Added whitespace stripping whitespace from US ZIP code field (gh-77)
- Added an option for customizing French form field labels (gh-102)
- Added mapping between provinces and regions for Italy (gh-105)
- Added Telengana to states of India (gh-107)
- Added support for 14X and 17X Chinese cell numbers (gh-17, gh-120)
- Allowed spaces in CPF numbers for Brazil (gh-32)
- Fixed CIF validation for Spain (gh-78)
- Fixed armed forces “states” for US (gh-8)
- Fixed REGON number validation for Poland (gh-62)
- Rejected US SSN starting with 9 (gh-35)
- Rejected Brazilian CPF number when all numbers all numbers are equal (gh-103)
- Added ‘Y’ to the NIE number validation for Spain (gh-127)
- Updated Argentina’s CUIT number validation to support legal types 24 and 33 (gh-121)
- Added ‘R’, ‘V’ and ‘W’ to the Spanish identity card number validation (gh-132)

Other changes:

- Added checksums module (from Django) providing a Luhn validator (gh-122)

7.2.4 1.0 (2013-07-29)

Initial release

- genindex
- modindex
- search

7.3 Argentina (ar)

AR-specific Form helpers.

class localflavor.ar.forms.**ARCBUField**(**args*, ***kwargs*)
This field validates a CBU (Clave Bancaria Uniforme). A CBU is a 22-digits long number. The first 8 digits denote bank and branch number, plus a verifying digit. The remaining 14 digits denote an account number, plus a verifying digit.

More info: https://es.wikipedia.org/wiki/Clave_Bancaria_Uniforme

New in version 1.3.

clean(*value*)
Value must be a 22 digits long number.

class localflavor.ar.forms.**ARCUITField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
This field validates a CUIT (Código Único de Identificación Tributaria). A CUIT is of the form XX-XXXXXXXX-V. The last digit is a check digit.

More info: http://es.wikipedia.org/wiki/Clave_%C3%9Anica_de_Identificaci%C3%B3n_Tributaria

English info: http://www.justlanded.com/english/Argentina/Argentina-Guide/Visas-Permits/Other-Legal-Documents

clean(*value*)
Value can be either a string in the format XX-XXXXXXXX-X or an 11-digit number.

class localflavor.ar.forms.**ARDNIField**(*max_length=10*, *min_length=7*, **args*, ***kwargs*)
A field that validates 'Documento Nacional de Identidad' (DNI) numbers.

clean(*value*)
Value can be a string either in the [X]X.XXX.XXX or [X]XXXXXXX formats.

class localflavor.ar.forms.**ARPostalCodeField**(*max_length=8*, *min_length=4*, **args*, ***kwargs*)
A field that accepts a 'classic' NNNN Postal Code or a CPA.

See: http://www.correoargentino.com.ar/cpa/que_es http://www.correoargentino.com.ar/cpa/como_escribirlo

class localflavor.ar.forms.**ARProvinceSelect**(*attrs=None*)
A Select widget that uses a list of Argentinean provinces/autonomous cities as its choices.

localflavor.ar.ar_provinces.**PROVINCE_CHOICES = (('B', 'Buenos Aires'), ('K', 'Catamarca'), ('H', 'Chaco'), ('U',**
A list of Argentinean provinces and autonomous cities as *choices* in a formfield. From http://www.argentina.gov.ar/argentina/portal/paginas.dhtml?pagina=425

7.4 Austria (at)

AT-specific Form helpers

class localflavor.at.forms.**ATSocialSecurityNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

Austrian Social Security numbers are composed of a 4 digits and 6 digits field. The latter represents in most cases the person's birthdate while the first 4 digits represent a 3-digits counter and a one-digit checksum.

The 6-digits field can also differ from the person's birthdate if the 3-digits counter suffered an overflow.

This code is based on information available on http://de.wikipedia.org/wiki/Sozialversicherungsnummer#.C3.96sterreich

class localflavor.at.forms.**ATStateSelect**(*attrs=None*)

A `Select` widget that uses a list of AT states as its choices.

class localflavor.at.forms.**ATZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input is an Austrian postcode.

Accepts 4 digits (first digit must be greater than 0).

localflavor.at.at_states.**STATE_CHOICES = (('BL', 'Burgenland'), ('KA', 'Carinthia'), ('NO', 'Lower Austria'), ('O**

A list of Austrian states according to https://en.wikipedia.org/wiki/States_of_Austria

7.5 Australia (au)

7.5.1 Forms

Australian-specific Form helpers

class localflavor.au.forms.**AUBusinessNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

A form field that validates input as an Australian Business Number (ABN)

New in version 1.3.

prepare_value(*value*)

Format the value for display.

class localflavor.au.forms.**AUPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

A form field that validates input as an Australian phone number.

Valid numbers have ten digits.

clean(*value*)

Validate a phone number. Strips parentheses, whitespace and hyphens.

class localflavor.au.forms.**AUPostCodeField**(*max_length=4*, *min_length=None*, **args*, ***kwargs*)

Australian post code field.

Assumed to be 4 digits. Northern Territory 3-digit postcodes should have leading zero.

class localflavor.au.forms.**AUStateSelect**(*attrs=None*)
A Select widget that uses a list of Australian states/territories as its choices.

7.5.2 Models

class localflavor.au.models.**AUBusinessNumberField**(**args*, ***kwargs*)
A model field that checks that the value is a valid Australian Business Number (ABN).

New in version 1.3.

deconstruct()

description = 'Australian Business Number'

formfield(***kwargs*)

to_python(*value*)
Ensure the ABN is stored without spaces.

validators = [<localflavor.au.validators.AUBusinessNumberFieldValidator object at 0x7f89d8838940>, <django.core.v

class localflavor.au.models.**AUPhoneNumberField**(**args*, ***kwargs*)
A model field that checks that the value is a valid Australian phone number (ten digits).

deconstruct()

description = 'Australian Phone number'

formfield(***kwargs*)

class localflavor.au.models.**AUPostCodeField**(**args*, ***kwargs*)
A model field that forms represent as a *AUPostCodeField* field and stores the four-digit Australian postcode in the database.

deconstruct()

description = 'Australian Postcode'

formfield(***kwargs*)

class localflavor.au.models.**AUStateField**(**args*, ***kwargs*)
A model field that is represented with STATE_CHOICES ` choices and stores the three-letter Australian state abbreviation in the database.

deconstruct()

description = 'Australian State'

7.5.3 Data

localflavor.au.au_states.**STATE_CHOICES = (('ACT', 'Australian Capital Territory'), ('NSW', 'New South Wales'), (**
An alphabetical list of states for use as *choices* in a formfield.

7.6 Belgium (be)

7.6.1 Forms

Belgium-specific Form helpers

class localflavor.be.forms.**BEPhoneNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input as a belgium phone number.

Landlines have a seven-digit subscriber number and a one-digit area code, while smaller cities have a six-digit subscriber number and a two-digit area code. Cell phones have a six-digit subscriber number and a two-digit area code preceeded by the number 4. 0d ddd dd dd, 0d/ddd.dd.dd, 0d.ddd.dd.dd, 0ddddddd - dialling a bigger city 0dd dd dd dd, 0dd/dd.dd.dd, 0dd.dd.dd.dd, 0ddddddd - dialling a smaller city 04dd ddd dd dd, 04dd/ddd.dd.dd, 04dd.ddd.dd.dd, 04ddddddddd - dialling a mobile number

class localflavor.be.forms.**BEPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input as a belgium postal code.

Belgium postal code is a 4 digits string. The first digit indicates the province (except for the 3ddd numbers that are shared by the eastern part of Flemish Brabant and Limburg and the and 1ddd that are shared by the Brussels Capital Region, the western part of Flemish Brabant and Walloon Brabant)

class localflavor.be.forms.**BEProvinceSelect**(*attrs=None*)

A Select widget that uses a list of belgium provinces as its choices.

class localflavor.be.forms.**BERegionSelect**(*attrs=None*)

A Select widget that uses a list of belgium regions as its choices.

7.6.2 Data

localflavor.be.be_provinces.**PROVINCE_CHOICES = ((‘VAN’, ‘Antwerp’), (‘BRU’, ‘Brussels’), (‘VOV’, ‘East Flande**

ISO codes

localflavor.be.be_regions.**REGION_CHOICES = ((‘BRU’, ‘Brussels Capital Region’), (‘VLG’, ‘Flemish Region’), (‘W**

ISO codes

7.7 Bulgaria (bg)

7.7.1 Validators

localflavor.bg.validators.**egn_validator**(*egn*)

Check Bulgarian unique citizenship number (EGN) for validity More details https://en.wikipedia.org/wiki/Unique_citizenship_number Full information in Bulgarian about algorithm is available here http://www.grao.bg/esgraon.html#section2

localflavor.bg.validators.**eik_validator**(*eik*)

Check Bulgarian EIK/BULSTAT codes for validity full information in Bulgarian about algorithm is available here http://bulstat.registryagency.bg/About.html

7.7.2 Model Fields

class localflavor.bg.models.**BGEGNField**(**args*, ***kwargs*)

Field that stores Bulgarian unique citizenship number (EGN)

This is shortcut for:

```
    models.CharField(max_length=10, validators=[localflavor.bg.validators.egn_validator])
```

class localflavor.bg.models.**BGEIKField**(**args*, ***kwargs*)
Field that stores Bulgarian EIK/BULSTAT codes

This is shortcut for:

```
models.CharField(max_length=13, validators=[localflavor.bg.validators.eik_validator])
```

7.7.3 Utils

localflavor.bg.utils.**get_egn_birth_date**(*egn*)
Extract birth date from Bulgarian unique citizenship number (EGN) More details https://en.wikipedia.org/wiki/Unique_citizenship_number Information in Bulgarian for this can be found here http://www.grao.bg/esgraon.html#section2

7.8 Brazil (br)

7.8.1 Forms

BR-specific Form helpers

class localflavor.br.forms.**BRCNPJField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates input as Brazilian CNPJ.

Input can either be of the format XX.XXX.XXX/XXXX-XX or be a group of 14 digits.

clean(*value*)
Value can be either a string in the format XX.XXX.XXX/XXXX-XX or a group of 14 characters.

class localflavor.br.forms.**BRCPFField**(*max_length=14*, *min_length=11*, **args*, ***kwargs*)
A form field that validates a CPF number or a CPF string. A CPF number is compounded by XXX.XXX.XXX-VD. The two last digits are check digits.

More information: http://en.wikipedia.org/wiki/Cadastro_de_Pessoas_F%C3%ADsicas

clean(*value*)
Value can be either a string in the format XXX.XXX.XXX-XX or an 11-digit number.

class localflavor.br.forms.**BRPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates input as a Brazilian phone number, that must be in either of the following formats: XX-XXXX-XXXX or XX-XXXXX-XXXX.

class localflavor.br.forms.**BRProcessoField**(*max_length=25*, *min_length=20*, **args*, ***kwargs*)
A form field that validates a Legal Process(Processo) number or a Legal Process string. A Processo number is compounded by NNNNNNN-DD.AAAA.J.TR.OOOO. The two DD digits are check digits. More information: http://www.cnj.jus.br/busca-atos-adm?documento=2748

New in version 1.2.

clean(*value*)
Value can be either a string in the format NNNNNNN-DD.AAAA.J.TR.OOOO or an 20-digit number.

class localflavor.br.forms.**BRStateChoiceField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=None*)
A choice field that uses a list of Brazilian states as its choices.

class localflavor.br.forms.**BRStateSelect**(*attrs=None*)
A Select widget that uses a list of Brazilian states/territories as its choices.

class localflavor.br.forms.**BRZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates input as a Brazilian zip code, with the format XXXXX-XXX.

7.8.2 Data

localflavor.br.br_states.**STATE_CHOICES = (('AC', 'Acre'), ('AL', 'Alagoas'), ('AP', 'Amapá'), ('AM', 'Amazonas')**
An alphabetical list of Brazilian states for use as *choices* in a formfield

7.9 Canada (ca)

7.9.1 Forms

Canada-specific Form helpers

class localflavor.ca.forms.**CAPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Canadian phone number form field.

class localflavor.ca.forms.**CAPostalCodeField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
Canadian postal code form field.

Validates against known invalid characters: D, F, I, O, Q, U Additionally the first character cannot be Z or W. For more info see: http://www.canadapost.ca/tools/pg/manual/PGaddress-e.asp#1402170

class localflavor.ca.forms.**CAProvinceField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input is a Canadian province name or abbreviation. It normalizes the input to the standard two-leter postal service abbreviation for the given province.

class localflavor.ca.forms.**CAProvinceSelect**(*attrs=None*)
A Select widget that uses a list of Canadian provinces and territories as its choices.

class localflavor.ca.forms.**CASocialInsuranceNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A Canadian Social Insurance Number (SIN).

Checks the following rules to determine whether the number is valid:

- Conforms to the XXX-XXX-XXX format.
- **Passes the check digit process "Luhn Algorithm"** See: http://en.wikipedia.org/wiki/Social_Insurance_Number

7.9.2 Data

localflavor.ca.ca_provinces.**PROVINCE_CHOICES = (('AB', 'Alberta'), ('BC', 'British Columbia'), ('MB', 'Manitob**

An alphabetical list of provinces and territories for use as *choices* in a formfield. Source: http://www.canada.gc.ca/othergov/prov_e.html

localflavor.ca.ca_provinces.**PROVINCES_NORMALIZED = {'yukon': 'YT', 'newfoundland': 'NL', 'nt': 'NT', 'nb': '**

a mapping of province misspellings/abbreviations to normalized abbreviations

7.10 Switzerland (ch)

7.10.1 Forms

Swiss-specific Form helpers

class localflavor.ch.forms.**CHIdentityCardNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A Swiss identity card number.

Checks the following rules to determine whether the number is valid:

- Conforms to the X1234567<0 or 1234567890 format.
- Included checksums match calculated checksums

class localflavor.ch.forms.**CHPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

Validate local Swiss phone number (not international ones) The correct format is '0XX XXX XX XX'. '0XX.XXX.XX.XX' and '0XXXXXXXXX' validate but are corrected to '0XX XXX XX XX'.

class localflavor.ch.forms.**CHSocialSecurityNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

A Swiss Social Security number (also known as the new AHV Number).

Checks the following rules to determine whether the number is valid:

- Conforms to the 756.XXXX.XXXX.XX
- Included checksums match calculated checksums

See: http://de.wikipedia.org/wiki/Sozialversicherungsnummer#Versichertennummer

New in version 1.2.

class localflavor.ch.forms.**CHStateSelect**(*attrs=None*)

A Select widget that uses a list of CH states as its choices.

class localflavor.ch.forms.**CHZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates input as a Swiss zip code. Valid codes consist of four digits ranging from 1XXX to 9XXX.

See: http://en.wikipedia.org/wiki/Postal_codes_in_Switzerland_and_Liechtenstein

7.10.2 Data

localflavor.ch.ch_states.**STATE_CHOICES = (('AG', 'Aargau'), ('AI', 'Appenzell Innerrhoden'), ('AR', 'Appenzell A**

An alphabetical list of states

7.11 Chile (cl)

7.11.1 Forms

Chile specific form helpers.

class localflavor.cl.forms.**CLRegionSelect**(*attrs=None*)

A Select widget that uses a list of Chilean Regions (Regiones) as its choices.

class localflavor.cl.forms.**CLRutField**(**args*, ***kwargs*)

Chilean "Rol Unico Tributario" (RUT) field. This is the Chilean national identification number.

Samples for testing are available from https://palena.sii.cl/cvc/dte/ee_empresas_emisoras.html

clean(*value*)

Check and clean the Chilean RUT.

7.11.2 Data

localflavor.cl.cl_regions.**REGION_CHOICES = (('RM', 'Región Metropolitana de Santiago'), ('I', 'Región de Tarapa**

A list of Chilean regions as *choices* in a formfield.

7.12 China (cn)

7.12.1 Forms

China(mainland)-specific Form helpers

class localflavor.cn.forms.**CNProvinceSelect**(*attrs=None*)
A select widget providing the list of provinces and districts in People's Republic of China as choices.

class localflavor.cn.forms.**CNPostCodeField**(**args*, ***kwargs*)
A form field that validates input as postal codes in mainland China. Valid codes are in the format of XXXXXX where X is a digit.

class localflavor.cn.forms.**CNIDCardField**(*max_length=18*, *min_length=15*, **args*, ***kwargs*)
A form field that validates input as a Resident Identity Card (PRC) number.

This field would check the following restrictions:

- the length could only be 15 or 18;
- if the length is 18, the last character can be x or X;
- has a valid checksum (only for those with a length of 18);
- has a valid date of birth;
- has a valid province.

The checksum algorithm is described in GB11643-1999. See: http://en.wikipedia.org/wiki/Resident_Identity_Card#Identity_card_

clean(*value*)
Check whether the input is a valid ID Card Number.

has_valid_birthday(*value*)
This method would grab the date of birth from the ID card number and test whether it is a valid date.

has_valid_checksum(*value*)
This method checks if the last letter/digit is valid according to GB11643-1999.

has_valid_location(*value*)
This method checks if the first two digits in the ID Card are valid province code.

class localflavor.cn.forms.**CNPhoneNumberField**(**args*, ***kwargs*)
A form field that validates input as a telephone number in mainland China. A valid phone number could be like: 010-12345678.

Considering there might be extension numbers, this could also be: 010-12345678-35.

class localflavor.cn.forms.**CNCellNumberField**(**args*, ***kwargs*)
A form field that validates input as a cellphone number in mainland China. A valid cellphone number could be like: 13012345678.

A very rough rule is used here: the first digit should be 1, the second should be 3, 4, 5, 7 or 8, followed by 9 more digits. The total length of a cellphone number should be 11.

Changed in version 1.1: Added 7 as a valid second digit for Chinese virtual mobile ISPs.

7.12.2 Data

localflavor.cn.cn_provinces.**CN_PROVINCE_CHOICES = (('anhui', ''), ('beijing', ''), ('chongqing', ''), ('fujian', ''), (**
An alphabetical list of provinces for use as *choices* in a formfield. http://en.wikipedia.org/wiki/ISO_3166-2:CN http://en.wikipedia.org/wiki/Province_%28China%29 http://en.wikipedia.org/wiki/Direct-controlled_municipality http://en.wikipedia.org/wiki/Autonomous_regions_of_China

7.13 Colombia (co)

7.13.1 Forms

Colombian-specific form helpers.

class localflavor.co.forms.**CODepartmentSelect**(*attrs=None*)
A Select widget that uses a list of Colombian states as its choices.

7.13.2 Data

localflavor.co.co_departments.**DEPARTMENT_CHOICES = (('AMA', 'Amazonas'), ('ANT', 'Antioquia'), ('ARA', 'Ar**
A list of Colombian departaments as *choices* in a formfield.

7.14 Czech Republic (cz)

7.14.1 Forms

Czech-specific form helpers

class localflavor.cz.forms.**CZBirthNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Czech birth number form field.

class localflavor.cz.forms.**CZICNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Czech IC number form field.

class localflavor.cz.forms.**CZPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates its input as Czech postal code. Valid form is XXXXX or XXX XX, where X represents integer.

clean(*value*)
Validates the input and returns a string that contains only numbers. Returns an empty string for empty values.

class localflavor.cz.forms.**CZRegionSelect**(*attrs=None*)
A select widget widget with list of Czech regions as choices.

7.14.2 Data

localflavor.cz.cz_regions.**REGION_CHOICES** = (('PR', 'Prague'), ('CE', 'Central Bohemian Region'), ('SO', 'South
Czech regions, translations get from http://www.crwflags.com/fotw/Flags/cz-re.html

7.15 Germany (de)

7.15.1 Forms

DE-specific Form helpers.

class localflavor.de.forms.**DEIdentityCardNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A German identity card number.

Checks the following rules to determine whether the number is valid:

- Conforms to the XXXXXXXXXXX-XXXXXXX-XXXXXXX-X format.
- No group consists entirely of zeroes.
- Included checksums match calculated checksums

Algorithm is documented at http://de.wikipedia.org/wiki/Personalausweis

class localflavor.de.forms.**DEStateSelect**(*attrs=None*)

A Select widget that uses a list of DE states as its choices.

class localflavor.de.forms.**DEZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates input as a German zip code.

Valid zip codes consist of five digits.

7.15.2 Data

localflavor.de.de_states.**STATE_CHOICES** = (('BW', 'Baden-Wuerttemberg'), ('BY', 'Bavaria'), ('BE', 'Berlin'), ('B
An alphabetical list of states

7.16 Denmark (dk)

New in version 1.1.

7.16.1 Forms

Denmark specific Form helpers.

class localflavor.dk.forms.**DKMunicipalitySelect**(*attrs=None*, **args*, ***kwargs*)

A Select widget that uses a list of Danish municipalities (kommuner) as its choices.

class localflavor.dk.forms.**DKPhoneNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Field with phone number validation. Requires a phone number with 8 digits and optional country code

class localflavor.dk.forms.**DKPostalCodeField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
An Input widget that uses a list of Danish postal codes as valid input.

7.16.2 Data

localflavor.dk.dk_postalcodes.**DK_POSTALCODES = ((‘0555’, ‘Scanning’), (‘0800’, ‘Høje Taastrup’), (‘0877’, ‘Køber**
A list of Danish postal codes as *choices* in a formfield.

localflavor.dk.dk_municipalities.**REGION_HOVEDSTADEN = [(‘albertslund’, ‘Albertslund’), (‘alleroed’, ‘Allerød’),**
A list of municipalities in the Danish region Hovedstaden as *choices* in a formfield.

localflavor.dk.dk_municipalities.**REGION_MIDTJYLLAND = [(‘favrskov’, ‘Favrskov’), (‘hedensted’, ‘Hedensted’),**
A list of municipalities in the Danish region Midtjylland as *choices* in a formfield.

localflavor.dk.dk_municipalities.**REGION_NORDJYLLAND = [(‘broenderslev’, ‘Brønderslev’), (‘frederikshavn’, ‘Fr**
A list of municipalities in the Danish region Nordjylland as *choices* in a formfield.

localflavor.dk.dk_municipalities.**REGION_SJAELLAND = [(‘faxe’, ‘Faxe’), (‘greve’, ‘Greve’), (‘guldborgsund’, ‘Gu**
A list of municipalities in the Danish region Sjælland as *choices* in a formfield.

localflavor.dk.dk_municipalities.**REGION_SYDDANMARK = [(‘assens’, ‘Assens’), (‘billund’, ‘Billund’), (‘esbjerg’, ‘**
A list of municipalities in the Danish region Syddanmark as *choices* in a formfield.

localflavor.dk.dk_municipalities.**DK_MUNICIPALITIES = [(‘Region Hovedstaden’, [(‘albertslund’, ‘Albertslund’**
A list of Danish municipalities grouped by region.

7.17 Ecuador (ec)

7.17.1 Forms

Ecuador-specific form helpers.

class localflavor.ec.forms.**ECProvinceSelect**(*attrs=None*)
A Select widget that uses a list of Ecuador provinces as its choices.

7.17.2 Data

localflavor.ec.ec_provinces.**PROVINCE_CHOICES = ((‘A’, ‘Azuay’), (‘B’, ‘Bolívar’), (‘F’, ‘Cañar’), (‘C’, ‘Carchi’), (**
A list of Ecuador provinces as *choices* in a formfield.

7.18 Estonia (ee)

New in version 1.1.

7.18.1 Forms

class localflavor.ee.forms.**EEBusinessRegistryCode**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A form field that validates input as an Estonian business registration code.

New in version 1.2.

class localflavor.ee.forms.**EECountySelect**(*attrs=None*)

A Select widget that uses a list of Estonian counties as its choices.

class localflavor.ee.forms.**EEPersonalIdentificationCode**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A form field that validates input as an Estonian personal identification code.

See: https://www.riigiteataja.ee/akt/106032012004

static ee_checksum(*value*)

Takes a string of digits as input, returns check digit.

class localflavor.ee.forms.**EEZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates input as a Estonian zip code. Valid codes consist of five digits; first digit cannot be 0.

7.18.2 Data

localflavor.ee.ee_counties.**COUNTY_CHOICES = (('37', 'Harju County'), ('39', 'Hiiu County'), ('44', 'Ida-Viru Cou**

A list of Estonian counties as *choices* in a formfield. Identifiers based on ISO 3166-2:EE. https://en.wikipedia.org/wiki/ISO_3166-2:EE

7.19 Spain (es)

7.19.1 Forms

Spanish-specific Form helpers

class localflavor.es.forms.**ESCCCField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input as a Spanish bank account or CCC (Codigo Cuenta Cliente).

Spanish CCC is in format EEEE-OOOO-CC-AAAAAAAAAA where:

E = entity O = office C = checksum A = account

It's also valid to use a space as delimiter, or to use no delimiter.

First checksum digit validates entity and office, and last one validates account. Validation is done multiplying every digit of 10 digit value (with leading 0 if necessary) by number in its position in

string 1, 2, 4, 8, 5, 10, 9, 7, 3, 6. Sum resulting numbers and extract it from 11. Result is checksum except when 10 then is 1, or when 11 then is 0.

TODO: allow IBAN validation too

class localflavor.es.forms.**ESIdentityCardNumberField**(*only_nif=False*, *max_length=None*, *min_length=None*, **args*, ***kwargs*)

Spanish NIF/NIE/CIF (Fiscal Identification Number) code.

Validates three diferent formats:

NIF (individuals): 12345678A CIF (companies): A12345678 NIE (foreigners): X12345678A

according to a couple of simple checksum algorithms.

Value can include a space or hyphen separator between number and letters. Number length is not checked for NIF (or NIE), old values start with a 1, and future values can contain digits greater than 8. The CIF control digit can be a number or a letter depending on company type. Algorithm is not public, and different authors have different opinions on which ones allows letters, so both validations are assumed true for all types.

http://es.wikipedia.org/wiki/N%C3%BAmero_de_identificaci%C3%B3n_fiscal

Changed in version 1.1.

class localflavor.es.forms.**ESPhoneNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input as a Spanish phone number. Information numbers are ommited.

Spanish phone numbers are nine digit numbers, where first digit is 6 (for cell phones), 8 (for special phones), or 9 (for landlines and special phones)

TODO: accept and strip characters like dot, hyphen... in phone number

class localflavor.es.forms.**ESPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input as a spanish postal code.

Spanish postal code is a five digits string, with two first digits between 01 and 52, assigned to provinces code.

class localflavor.es.forms.**ESProvinceSelect**(*attrs=None*)

A Select widget that uses a list of spanish provinces as its choices.

class localflavor.es.forms.**ESRegionSelect**(*attrs=None*)

A Select widget that uses a list of spanish regions as its choices.

7.19.2 Data

localflavor.es.es_provinces.**PROVINCE_CHOICES = (('01', 'Araba'), ('02', 'Albacete'), ('03', 'Alacant'), ('04', 'Alm**

An alphabetical list of provinces

localflavor.es.es_regions.**REGION_CHOICES = (('AN', 'Andalusia'), ('AR', 'Aragon'), ('O', 'Principality of Asturias**

An alphabetical list of regions

7.20 Finland (fi)

7.20.1 Forms

FI-specific Form helpers

class localflavor.fi.forms.**FIMunicipalitySelect**(*attrs=None*)
A Select widget that uses a list of Finnish municipalities as its choices.

class localflavor.fi.forms.**FISocialSecurityNumber**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates input as a Finnish social security number.

class localflavor.fi.forms.**FIZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates input as a Finnish zip code. Valid codes consist of five digits.

7.20.2 Data

localflavor.fi.fi_municipalities.**MUNICIPALITY_CHOICES = (('akaa', 'Akaa'), ('alajarvi', 'Alajärvi'), ('alaviesk**
An alphabetical list of Finnish municipalities for use as *choices* in a formfield.

7.21 France (fr)

7.21.1 Forms

FR-specific Form helpers

class localflavor.fr.forms.**FRDepartmentField**(**args*, ***kwargs*)
A Select Field that uses a FRDepartmentSelect widget.

widget
alias of *FRDepartmentSelect*

class localflavor.fr.forms.**FRDepartmentSelect**(*attrs=None*)
A Select widget that uses a list of FR departments as its choices.

class localflavor.fr.forms.**FRNationalIdentificationNumber**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
Validates input as a French National Identification number. Validation of the Number, and checksum calculation is detailed at http://en.wikipedia.org/wiki/INSEE_code

New in version 1.1.

class localflavor.fr.forms.**FRPhoneNumberField**(**args*, ***kwargs*)
Validate local French phone number (not international ones) The correct format is '0X XX XX XX XX'. '0X.XX.XX.XX.XX' and '0XXXXXXXXX' validate but are corrected to '0X XX XX XX XX'.

class localflavor.fr.forms.**FRRegionField**(**args*, ***kwargs*)
A Select Field that uses a FRRegionSelect widget.

widget
alias of *FRRegionSelect*

class localflavor.fr.forms.**FRRegionSelect**(*attrs=None*)
A Select widget that uses a list of FR Regions as its choices.

class localflavor.fr.forms.**FRSIRENField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
SIREN stands for "Système d'identification du répertoire des entreprises"

It's under authority of the INSEE. See http://fr.wikipedia.org/wiki/Système_d'identification_du_répertoire_des_entreprises for more information.

New in version 1.1.

class localflavor.fr.forms.**FRSIRETField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
SIRET stands for "Système d'identification du répertoire des établissements"

It's under authority of the INSEE. See http://fr.wikipedia.org/wiki/Système_d'identification_du_répertoire_des_établissements for more information.

New in version 1.1.

class localflavor.fr.forms.**FRZipCodeField**(**args*, ***kwargs*)
Validate local French zip code. The correct format is 'XXXXX'.

7.21.2 Data

localflavor.fr.fr_department.**DEPARTMENT_CHOICES_PER_REGION** = **(('01', 'Ain', '82'), ('02', 'Aisne', '22'), ('03**
See the "Code officiel géographique" on the INSEE website <www.insee.fr>.

localflavor.fr.fr_department.**DEPARTMENT_CHOICES** = **(('01', '01 - Ain'), ('02', '02 - Aisne'), ('03', '03 - Allier'), ('**
A list of departments

localflavor.fr.fr_region.**REGION_CHOICES** = **(('01', 'Guadeloupe'), ('02', 'Martinique'), ('03', 'Guyane'), ('04', 'La**
See the "Code officiel géographique" on the INSEE website <www.insee.fr>.

7.22 Great Britain (gb)

7.22.1 Forms

GB-specific Form helpers

class localflavor.gb.forms.**GBCountySelect**(*attrs=None*)
A Select widget that uses a list of UK Counties/Regions as its choices.

class localflavor.gb.forms.**GBNationSelect**(*attrs=None*)
A Select widget that uses a list of UK Nations as its choices.

class localflavor.gb.forms.**GBPostcodeField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates its input is a UK postcode.

The regular expression used is sourced from the schema for British Standard BS7666 address types: http://www.govtalk.gov.uk/gdsc/schemas/bs7666-v2-0.xsd

The value is uppercased and a space added in the correct place, if required.

7.22.2 Data

This module contains various lists of regions and subdivisions in Great Britain. Since subdivisions aren't clear this is supposed to be the most pragmatic collection of lists as possible. Your mileage may vary.

See https://github.com/django/django-localflavor/pull/43 for a long discussion about it.

Changed in version 1.1.

`localflavor.gb.gb_regions.`**`ENGLAND_REGION_CHOICES`** = (('Bath and North East Somerset', 'Bath and North East
Metropolitan and non-metropolitan counties of England (not the ceremonial counties) Retrieved 10th Nov 2014 from http://en.wikipedia.org/wiki/Metropolitan_and_non-metropolitan_counties_of_England

`localflavor.gb.gb_regions.`**`GB_NATIONS_CHOICES`** = (('England', 'England'), ('Northern Ireland', 'Northern Irelan
Nations of the United Kingdom

`localflavor.gb.gb_regions.`**`GB_REGION_CHOICES`** = (('Bath and North East Somerset', 'Bath and North East Somers
All regions of United Kingdom

`localflavor.gb.gb_regions.`**`NORTHERN_IRELAND_REGION_CHOICES`** = (('Antrim', 'Antrim'), ('Armagh', 'Armagh'
Counties of Northern Ireland (not the more recent, but less well-known, districts of Northern Ireland) Retrieved 10th Nov 2014 from http://en.wikipedia.org/wiki/Counties_of_Northern_Ireland

`localflavor.gb.gb_regions.`**`SCOTTISH_REGION_CHOICES`** = (('Aberdeen City', 'Aberdeen City'), ('Aberdeenshire', '
Council areas of Scotland Retrieved 10th Nov 2014 from http://en.wikipedia.org/wiki/Subdivisions_of_Scotland#Council_areas

`localflavor.gb.gb_regions.`**`WALES_REGION_CHOICES`** = (('Blaenau Gwent', 'Blaenau Gwent'), ('Bridgend', 'Bridgen
Principal areas of Wales (not the preserved or historic counties) Retrieved 10th Nov 2014 from http://en.wikipedia.org/wiki/Local_government_in_Wales

7.23 Greece (`gr`)

7.23.1 Forms

Greek-specific forms helpers

class `localflavor.gr.forms.`**`GRMobilePhoneNumberField`**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

Greek mobile phone field - 10 digits starting with 69 (could also start with +30 which is the country-code foor greece)

class `localflavor.gr.forms.`**`GRPhoneNumberField`**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

Greek general phone field - 10 digits (can also start with +30 which is the country-code foor greece)

class `localflavor.gr.forms.`**`GRPostalCodeField`**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

Greek Postal code field. Format: XXXXX, where X is any digit, and first digit is not 0 or 9.

class `localflavor.gr.forms.`**`GRTaxNumberCodeField`**(*allow_test_value=False*, **args*, ***kwargs*)

Greek tax number field. The allow_test_value option can be used to enable the usage of the non valid 000000000 value for testing and development

7.24 Hong Kong (hk)

7.24.1 Forms

Hong Kong specific Form helpers

class localflavor.hk.forms.**HKPhoneNumberField**(**args*, ***kwargs*)
A form field that validates Hong Kong phone numbers.

The input format can be either one of the followings: 'XXXX-XXXX', '852-XXXX-XXXX', '(+852) XXXX-XXXX', 'XXXX XXXX', or 'XXXXXXXX'. The output format is 'XXXX-XXXX'.

Note: The phone number shall not start with 999, 992, or 112. And, it should start with either 2, 3, 5, 6, 8, or 9.

http://en.wikipedia.org/wiki/Telephone_numbers_in_Hong_Kong

7.25 Croatia (hr)

7.25.1 Forms

HR-specific Form helpers

class localflavor.hr.forms.**HRCountySelect**(*attrs=None*)
A Select widget that uses a list of counties of Croatia as its choices.

class localflavor.hr.forms.**HRJMBAGField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Unique Master Academic Citizen Number of Croatia (JMBAG) field. This number is used by college students and professors in Croatia.

http://www.cap.srce.hr/IzgledX.aspx

class localflavor.hr.forms.**HRJMBGField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Unique Master Citizen Number (JMBG) field. The number is still in use in Croatia, but it is being replaced by OIB.

Source: http://en.wikipedia.org/wiki/Unique_Master_Citizen_Number

For who might be reimplementing: The "area" regular expression group is used to calculate the region where a person was registered. Additional validation can be implemented in accordance with it, however this could result in exclusion of legit immigrated citizens. Therefore, this field works for any ex-Yugoslavia country.

class localflavor.hr.forms.**HRLicensePlateField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Vehicle license plate of Croatia field. Normalizes to the specific format below. Suffix is constructed from the shared letters of the Croatian and English alphabets.

Format examples: SB 123-A (but also supports more characters) ZG 1234-AA

Used for standardized license plates only.

class localflavor.hr.forms.**HRLicensePlatePrefixSelect**(*attrs=None*)
A Select widget that uses a list of vehicle license plate prefixes of Croatia as its choices.

class localflavor.hr.forms.**HROIBField**(*min_length=11*, *max_length=11*, **args*, ***kwargs*)
Personal Identification Number of Croatia (OIB) field.

http://www.oib.hr/

class localflavor.hr.forms.**HRPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Phone number of Croatia field. Format: Complete country code or leading zero, area code prefix, 6 or 7 digit number. Validates fixed, mobile and FGSM numbers. Normalizes to a full number with country code (+385 prefix).

class localflavor.hr.forms.**HRPhoneNumberPrefixSelect**(*attrs=None*)
A Select widget that uses a list of phone number prefixes of Croatia as its choices.

class localflavor.hr.forms.**HRPostalCodeField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Postal code of Croatia field. It consists of exactly five digits ranging from 10000 to possibly less than 60000.

http://www.posta.hr/main.aspx?id=66

7.25.2 Data

localflavor.hr.hr_choices.**HR_COUNTY_CHOICES = (('GZG', 'Grad Zagreb'), ('BBŽ', 'Bjelovarsko-bilogorska župa**
Croatian Counties: http://en.wikipedia.org/wiki/ISO_3166-2:HR Croatia doesn't have official abbreviations for counties. The ones provided are in common use.

localflavor.hr.hr_choices.**HR_LICENSE_PLATE_PREFIX_CHOICES = (('BJ', 'BJ'), ('BM', 'BM'), ('ČK', 'ČK'), ('I**
Only common license plate prefixes are provided. Special cases and obsolete prefixes are omitted. http://hr.wikipedia.org/wiki/Dodatak:Popis_registracijskih_oznaka_za_cestovna_vozila_u_Hrvatskoj

localflavor.hr.hr_choices.**HR_PHONE_NUMBER_PREFIX_CHOICES = (('1', '01'), ('20', '020'), ('21', '021'), ('22', '02**
The list includes county and cellular network phone number prefixes.

7.26 Hungary (hu)

7.26.1 Forms

HU-specific Form helpers

class localflavor.hu.forms.**HUCountySelect**(*attrs=None*)
A Select widget that uses a list of Hungarian Counties as its choices.

New in version 1.3.

7.26.2 Data

localflavor.hu.hu_counties.**HU_COUNTY_CHOICES = ((‘bacs_kiskun’, ‘Bács-Kiskun’), (‘baranya’, ‘Baranya’), (‘beke**
Hungarian counties: https://en.wikipedia.org/wiki/Counties_of_Hungary

7.27 Indonesia (id)

7.27.1 Forms

ID-specific Form helpers

class localflavor.id_.forms.**IDLicensePlateField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

An Indonesian vehicle license plate field.

http://id.wikipedia.org/wiki/Tanda_Nomor_Kendaraan_Bermotor

Plus: “B 12345 12”

class localflavor.id_.forms.**IDLicensePlatePrefixSelect**(*attrs=None*)

A Select widget that uses a list of vehicle license plate prefix code of Indonesia as its choices.

http://id.wikipedia.org/wiki/Tanda_Nomor_Kendaraan_Bermotor

class localflavor.id_.forms.**IDNationalIdentityNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

An Indonesian national identity number (NIK/KTP#) field.

http://id.wikipedia.org/wiki/Nomor_Induk_Kependudukan

xx.xxxx.ddmmyy.xxxx - 16 digits (excl. dots)

class localflavor.id_.forms.**IDPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

An Indonesian telephone number field.

http://id.wikipedia.org/wiki/Daftar_kode_telepon_di_Indonesia

class localflavor.id_.forms.**IDPostCodeField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

An Indonesian post code field.

http://id.wikipedia.org/wiki/Kode_pos

class localflavor.id_.forms.**IDProvinceSelect**(*attrs=None*)
A Select widget that uses a list of provinces of Indonesia as its choices.

7.27.2 Data

localflavor.id_.id_choices.**PROVINCE_CHOICES = (('ACE', 'Aceh'), ('BLI', 'Bali'), ('BTN', 'Banten'), ('BKL', 'Ben**
Indonesia does not have an official Province code standard. I decided to use unambiguous and consistent (some are common) 3-letter codes. http://id.wikipedia.org/wiki/Daftar_provinsi_Indonesia

localflavor.id_.id_choices.**LICENSE_PLATE_PREFIX_CHOICES = (('A', 'Banten'), ('AA', 'Magelang'), ('AB', 'Yog**
License plate prefixes

7.28 Ireland (ie)

7.28.1 Forms

UK-specific Form helpers

class localflavor.ie.forms.**IECountySelect**(*attrs=None*)
A Select widget that uses a list of Irish Counties as its choices.

7.28.2 Data

localflavor.ie.ie_counties.**IE_COUNTY_CHOICES = (('carlow', 'Carlow'), ('cavan', 'Cavan'), ('clare', 'Clare'), ('co**
Irish Counties: http://en.wikipedia.org/wiki/Counties_of_Ireland

7.29 Israel (il)

7.29.1 Forms

Israeli-specific form helpers

class localflavor.il.forms.**ILIDNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input as an Israeli identification number. Valid form is per the Israeli ID specification.

Israeli ID numbers consist of up to 8 digits followed by a checksum digit. Numbers which are shorter than 8 digits are effectively left-zero-padded. The checksum digit is occasionally separated from the number by a hyphen, and is calculated using the luhn algorithm.

Relevant references (in Hewbrew):

http://he.wikipedia.org/wiki/%D7%9E%D7%A1%D7%A4%D7%A8_%D7%96%D7%94%D7%95%D7%AA_(%D7%99%D7%
http://he.wikipedia.org/wiki/%D7%A1%D7%A4%D7%A8%D7%AA_%D7%91%D7%99%D7%A7%D7%95%D7%A8%D7%A
http://he.wikipedia.org/wiki/%D7%A7%D7%99%D7%93%D7%95%D7%9E%D7%AA_%D7%98%D7%9C%D7%A4%D7%95

class localflavor.il.forms.**ILMobilePhoneNumberField**(**args*, ***kwargs*)
A form field that validates its input as an Israeli Mobile phone number.

class localflavor.il.forms.**ILPostalCodeField**(**args*, ***kwargs*)
A form field that validates its input as an Israeli postal code. Valid form is XXXXX where X represents integer.

7.30 India (in)

7.30.1 Forms

India-specific Form helpers.

class localflavor.in_.forms.**INAadhaarNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field for Aadhaar number issued by Unique Identification Authority of India (UIDAI).

Checks the following rules to determine whether the number is valid:

•Conforms to the XXXX XXXX XXXX format.

•No group consists entirely of zeroes.

Important information:

•Aadhaar number is a proof of identity but not of citizenship.

•Aadhaar number is issued to every resident of India including foreign citizens.

•Aadhaar number is not mandatory.

More information can be found at http://uidai.gov.in/what-is-aadhaar-number.html

class localflavor.in_.forms.**INPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
INPhoneNumberField validates that the data is a valid Indian phone number, including the STD code. It's normalised to 0XXX-XXXXXXX or 0XXX XXXXXXX format. The first string is the STD code which is a '0' followed by 2-4 digits. The second string is 8 digits if the STD code is 3 digits, 7 digits if the STD code is 4 digits and 6 digits if the STD code is 5 digits. The second string will start with numbers between 1 and 6. The separator is either a space or a hyphen.

class localflavor.in_.forms.**INStateField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input is a Indian state name or abbreviation. It normalizes the input to the standard two-letter vehicle registration abbreviation for the given state or union territory

Changed in version 1.1: Added Telangana to list of states. More details at https://en.wikipedia.org/wiki/Telangana#Bifurcation_of_Andhra_Pradesh

class localflavor.in_.forms.**INStateSelect**(*attrs=None*)
A Select widget that uses a list of Indian states/territories as its choices.

Changed in version 1.1: Added Telangana to list of states. More details at https://en.wikipedia.org/wiki/Telangana#Bifurcation_of_Andhra_Pradesh

class localflavor.in_.forms.**INZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates input as an Indian zip code, with the format XXXXXXX.

7.30.2 Data

localflavor.in_.in_states.**STATE_CHOICES = ((‘KA’, ‘Karnataka’), (‘AP’, ‘Andhra Pradesh’), (‘KL’, ‘Kerala’), (‘TN**
A list of states

localflavor.in_.in_states.**STATES_NORMALIZED = {‘andrapradesh’: ‘AP’, ‘meghalaya’: ‘ML’, ‘delhi’: ‘DL’, ‘kerala**
Normalized state names

7.31 Iceland (is)

7.31.1 Forms

Iceland specific form helpers.

class localflavor.is_.forms.**ISIdNumberField**(*max_length=11*, *min_length=10*, **args*, ***kwargs*)
Icelandic identification number (kennitala). This is a number every citizen of Iceland has.

class localflavor.is_.forms.**ISPhoneNumberField**(*max_length=8*, *min_length=7*, **args*, ***kwargs*)
Icelandic phone number. Seven digits with an optional hyphen or space after the first three digits.

class localflavor.is_.forms.**ISPostalCodeSelect**(*attrs=None*)
A Select widget that uses a list of Icelandic postal codes as its choices.

7.31.2 Data

localflavor.is_.is_postalcodes.**IS_POSTALCODES = ((‘101’, ‘101 Reykjavík’), (‘103’, ‘103 Reykjavík’), (‘104’, ‘104**
A list of Icelandic postal codes

7.32 Italy (it)

7.32.1 Forms

IT-specific Form helpers

class localflavor.it.forms.**ITPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates input as an Italian phone number. Will strip any +39 country prefix from the number.

New in version 1.1.

class localflavor.it.forms.**ITProvinceSelect**(*attrs=None*)
A Select widget that uses a list of IT provinces as its choices.

class localflavor.it.forms.**ITRegionProvinceSelect**(*attrs=None*)
A Select widget that uses a named group list of IT regions mapped to regions as its choices.

class localflavor.it.forms.**ITRegionSelect**(*attrs=None*)
A Select widget that uses a list of IT regions as its choices.

class localflavor.it.forms.**ITSocialSecurityNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates Italian Tax code (codice fiscale) for both persons and entities.

For reference see http://www.agenziaentrate.it/ and search for:

- 'Informazioni sulla codificazione delle persone fisiche' for persons' SSN
- 'Codice fiscale Modello AA5/6' for entities' SSN

Changed in version 1.1.

The `ITSocialSecurityNumberField` now also accepts SSN values for entities (numeric-only form).

class `localflavor.it.forms.`**`ITVatNumberField`**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A form field that validates Italian VAT numbers (partita IVA).

class `localflavor.it.forms.`**`ITZipCodeField`**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates input as an Italian zip code. Valid codes must have five digits.

7.32.2 Utilities

`localflavor.it.util.`**`ssn_check_digit`**(*value*)

Calculate Italian social security number check digit.

`localflavor.it.util.`**`ssn_validation`**(*ssn_value*)

Validate Italian SSN for persons

`ValueError` is raised if validation fails.

`localflavor.it.util.`**`vat_number_check_digit`**(*vat_number*)

Calculate Italian VAT number check digit.

`localflavor.it.util.`**`vat_number_validation`**(*vat_number*)

Validate Italian VAT number. Used also for entities SSN validation.

`ValueError` is raised if validation fails.

7.32.3 Data

`localflavor.it.it_province.`**`PROVINCE_CHOICES`** **= (('AG', 'Agrigento'), ('AL', 'Alessandria'), ('AN', 'Ancona'), ('A**

An alphabetical list of provinces

`localflavor.it.it_province.`**`PROVINCE_REGIONS`** **= {'FC': 'EMR', 'ME': 'SIC', 'TN': 'TAA', 'BO': 'EMR', 'RI': 'L**

A dictionary of provinces mapped to regions

New in version 1.1.

`localflavor.it.it_region.`**`REGION_CHOICES`** **= (('ABR', 'Abruzzo'), ('BAS', 'Basilicata'), ('CAL', 'Calabria'), ('CAM**

An alphabetical list of regions

`localflavor.it.it_region.`**`REGION_PROVINCES`** **= {'ABR': ['AQ', 'CH', 'PE', 'TE'], 'CAL': ['CS', 'CZ', 'KR', 'RC',**

A dictionary of regions mapped to provinces

New in version 1.1.

`localflavor.it.it_region.`**`REGION_PROVINCE_CHOICES`** **= [('Abruzzo', (('CH', 'Chieti'), ('AQ', 'L'Aquila'), ('PE', '**

A alphabetical list of provinces mapped to regions

New in version 1.1.

7.33 Japan (jp)

7.33.1 Forms

JP-specific Form helpers

class localflavor.jp.forms.**JPPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A form field that validates its input is a Japanese postcode.

Accepts 7 digits, with or without a hyphen.

clean(*value*)

Validates the input and returns a string that contains only numbers. Returns an empty string for empty values.

class localflavor.jp.forms.**JPPrefectureCodeSelect**(*attrs=None*)

A Select widget that uses a list of Japanese prefectures as its choices and the prefectures code as the post value.

class localflavor.jp.forms.**JPPrefectureSelect**(*attrs=None*)

A Select widget that uses a list of Japanese prefectures as its choices.

7.33.2 Data

localflavor.jp.jp_prefectures.**JP_PREFECTURES = (('hokkaido', 'Hokkaido'), ('aomori', 'Aomori'), ('iwate', 'Iwat**

A list of prefectures

7.34 Kuwait (kw)

7.34.1 Forms

Kuwait-specific Form helpers

class localflavor.kw.forms.**KWCivilIDNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

Kuwaiti Civil ID numbers are 12 digits, second to seventh digits represents the person's birthdate.

Checks the following rules to determine the validty of the number:

- The number consist of 12 digits.
- The birthdate of the person is a valid date.
- The calculated checksum equals to the last digit of the Civil ID.

7.35 Lithuania (lt)

7.35.1 Forms

class localflavor.lt.forms.**LTCountySelect**(*attrs=None*)
A select field with the Lithuanian counties as choices

class localflavor.lt.forms.**LTIDCodeField**(**args*, ***kwargs*)
A form field that validates as Lithuanian ID Code.

Checks:

- Made of exactly 11 decimal numbers.
- Checksum is correct.
- ID contains valid date.

valid_date(*value*)
Check if date in ID code is valid. We won't check for dates in future as it would become too restrictive.

class localflavor.lt.forms.**LTMunicipalitySelect**(*attrs=None*)
A select field with the Lithuanian municipalities as choices

class localflavor.lt.forms.**LTPhoneField**(*mobile=True*, *landline=True*, *emergency=False*, *landline_local=False*, *service=False*, ***kwargs*)
Form field that validates as Lithuanian phone number

You can accept any permutation of following phone numbers:

•Emergency (01, 02, 03, 04, 112)

•Mobile (370 600 00 000)

•Landline

•Service numbers

If you accept landline numbers, you can opt in to accepting local landline numbers too. Local landline numbers are numbers without area code.

This field does not accept multiple numbers (as separated by /).

The field tries its best to convert the number into one you can call to internationally. Currently emergency and most of landline_local numbers are not converted.

New in version 1.1.

class localflavor.lt.forms.**LTPostalCodeField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates and normalizes Lithanuan postal codes.

Lithuanian postal codes in following forms accepted:

- XXXXX
- LT-XXXXX

7.35.2 Data

localflavor.lt.lt_choices.**COUNTY_CHOICES** = (('alytus', 'Alytus'), ('kaunas', 'Kaunas'), ('klaipeda', 'Klaipda'), ('n
Alphabetically sorted list of Lithuanian counties.

localflavor.lt.lt_choices.**MUNICIPALITY_CHOICES** = (('akmene', 'Akmen district'), ('alytus_c', 'Alytus city'), ('al
Alphabetically sorted lists of Lithuanian municipalities.

7.36 Latvia (lv)

New in version 1.1.

7.36.1 Forms

class localflavor.lv.forms.**LVMunicipalitySelect**(*attrs=None*)
A select field of Latvian municipalities.

class localflavor.lv.forms.**LVPersonalCodeField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates input as a Latvian personal code.

static lv_checksum(*value*)
Takes a string of 10 digits as input, returns check digit.

class localflavor.lv.forms.**LVPostalCodeField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates and normalizes Latvian postal codes.

Latvian postal codes in following forms accepted:

- XXXX
- LV-XXXX

7.36.2 Data

localflavor.lv.lv_choices.**MUNICIPALITY_CHOICES** = (('DGV', 'Daugavpils'), ('JEL', 'Jelgava'), ('JKB', 'Jkabpils
A list of Latvian municipalities and republican cities. Identifiers based on ISO 3166-2:LV. https://en.wikipedia.org/wiki/ISO_3166-2:LV

7.37 Macedonia (mk)

7.37.1 Forms

class localflavor.mk.forms.**MKIdentityCardNumberField**(**args*, ***kwargs*)
A Macedonian ID card number. Accepts both old and new format.

class localflavor.mk.forms.**MKMunicipalitySelect**(*attrs=None*)
A form `Select` widget that uses a list of Macedonian municipalities as choices. The label is the name of the municipality and the value is a 2 character code for the municipality.

class localflavor.mk.forms.**UMCNField**(**args*, ***kwargs*)
A form field that validates input as a unique master citizen number.

The format of the unique master citizen number has been kept the same from Yugoslavia. It is still in use in other countries as well, it is not applicable solely in Macedonia. For more information see: https://secure.wikimedia.org/wikipedia/en/wiki/Unique_Master_Citizen_Number

A value will pass validation if it complies to the following rules:

- Consists of exactly 13 digits
- The first 7 digits represent a valid past date in the format DDMMYYY
- The last digit of the UMCN passes a checksum test

7.37.2 Models

class localflavor.mk.models.**MKIdentityCardNumberField**(**args*, ***kwargs*)
A form field that validates input as a Macedonian identity card number. Both old and new identity card numbers are supported.

class localflavor.mk.models.**MKMunicipalityField**(**args*, ***kwargs*)
A form field that validates input as a Macedonian identity card number. Both old and new identity card numbers are supported.

class localflavor.mk.models.**UMCNField**(**args*, ***kwargs*)
A form field that validates input as a unique master citizen number.

The format of the unique master citizen number is not unique to Macedonia. For more information see: https://secure.wikimedia.org/wikipedia/en/wiki/Unique_Master_Citizen_Number

A value will pass validation if it complies to the following rules:

- Consists of exactly 13 digits
- The first 7 digits represent a valid past date in the format DDMMYYY
- The last digit of the UMCN passes a checksum test

7.37.3 Data

localflavor.mk.mk_choices.**MK_MUNICIPALITIES = (('AD', 'Aerodrom'), ('AR', 'Aračinovo'), ('BR', 'Berovo'), ('TL**
Macedonian municipalities per the reorganization from 2004.

7.38 Malta (mt)

New in version 1.1.

7.38.1 Forms

Maltese-specific Form helpers.

7.39 Mexico (mx)

7.39.1 Forms

Mexican-specific form helpers.

localflavor.mx.forms.**CURP_INCONVENIENT_WORDS = ['BACA', 'BAKA', 'BUEI', 'BUEY', 'CACA', 'CACO', 'CAGA**
This is the list of inconvenient words according to the *Anexo 2* of the document described in the next link: http://portal.veracruz.gob.mx/pls/portal/url/ITEM/444112558A57C6E0E040A8C02E00695C

class localflavor.mx.forms.**MXCURPField**(*min_length=18*, *max_length=18*, **args*, ***kwargs*)
A field that validates a Mexican Clave Única de Registro de Población.

The CURP is integrated by a juxtaposition of characters following the next pattern:

Index	Format	Accepted Characters
1	X	Any letter
2	X	Any vowel
3-4	XX	Any letter
5-10	YYMMDD	Any valid date
11	X	Either *H* or *M*, depending on the person's gender
12-13	XX	Any valid acronym for a state in Mexico
14-16	XXX	Any consonant
17	X	Any number between 0 and 9 or any letter
18	X	Any number between 0 and 9

More info about this: http://www.condusef.gob.mx/index.php/clave-unica-de-registro-de-poblacion-curp

class localflavor.mx.forms.**MXRFCField**(*min_length=12*, *max_length=13*, **args*, ***kwargs*)
A form field that validates a Mexican *Registro Federal de Contribuyentes* for either *Persona física* or *Persona moral*.

The Persona física RFC string is integrated by a juxtaposition of characters following the next pattern:

Index	Format	Accepted Characters
1	X	Any letter
2	X	Any vowel
3-4	XX	Any letter
5-10	YYMMDD	Any valid date
11-12	XX	Any letter or number between 0 and 9
13	X	Any digit between 0 and 9 or the letter *A*

The Persona moral RFC string is integrated by a juxtaposition of characters following the next pattern:

Index	Format	Accepted Characters
1-3	XXX	Any letter including *&* and *Ñ* chars
4-9	YYMMDD	Any valid date
10-11	XX	Any letter or number between 0 and 9
12	X	Any number between 0 and 9 or the letter *A*

More info about this: http://es.wikipedia.org/wiki/Registro_Federal_de_Contribuyentes_(M%C3%A9xico)

class `localflavor.mx.forms.`**`MXSocialSecurityNumberField`**(*min_length=11*, *max_length=11*, **args*, ***kwargs*)

A field that validates a Mexican Social Security Number.

The Social Security Number is integrated by a juxtaposition of digits following the next pattern:

Index	Required numbers
1-2	The number of the branch office where the Social Security Number was designated.
3-4	The year of inscription to the Social Security.
5-6	The year of birth of the Social Security Number owner.
7-10	The progressive number of procedure for the IMSS. (This digit is provided exclusively by the Institute as it regards the Folio number of such procedure).
11	The verification digit.

class `localflavor.mx.forms.`**`MXStateSelect`**(*attrs=None*)

A Select widget that uses a list of Mexican states as its choices.

class `localflavor.mx.forms.`**`MXZipCodeField`**(**args*, ***kwargs*)

A form field that accepts a Mexican Zip Code.

More info about this: http://en.wikipedia.org/wiki/List_of_postal_codes_in_Mexico

`localflavor.mx.forms.`**`RFC_INCONVENIENT_WORDS = ['BUEI', 'BUEY', 'CACA', 'CACO', 'CAGA', 'CAGO', 'CAKA'`**

This is the list of inconvenient words according to the *Anexo IV* of the document described in the next link: http://www.sisi.org.mx/jspsi/documentos/2005/seguimiento/06101/0610100162005_065.doc

7.39.2 Models

class `localflavor.mx.models.`**`MXCURPField`**(**args*, ***kwargs*)

A model field that forms represent as a forms.MXCURPField field and stores the value of a valid Mexican CURP.

class `localflavor.mx.models.`**`MXRFCField`**(**args*, ***kwargs*)

A model field that forms represent as a forms.MXRFCField field and stores the value of a valid Mexican RFC.

class `localflavor.mx.models.`**`MXSocialSecurityNumberField`**(**args*, ***kwargs*)

A model field that forms represent as a forms.MXSocialSecurityNumberField field and stores the value of a valid Mexican Social Security Number.

class `localflavor.mx.models.`**`MXStateField`**(**args*, ***kwargs*)

A model field that stores the three-letter Mexican state abbreviation in the database.

class `localflavor.mx.models.`**`MXZipCodeField`**(**args*, ***kwargs*)

A model field that forms represent as a forms.MXZipCodeField field and stores the five-digit Mexican zip code.

7.39.3 Data

localflavor.mx.mx_states.**STATE_CHOICES = (('AGU', 'Aguascalientes'), ('BCN', 'Baja California'), ('BCS', 'Baja C**
All 31 states, plus the *Distrito Federal*.

7.40 The Netherlands (nl)

7.40.1 Forms

NL-specific Form helpers

class localflavor.nl.forms.**NLPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A Dutch telephone number field.

class localflavor.nl.forms.**NLProvinceSelect**(*attrs=None*)
A Select widget that uses a list of provinces of the Netherlands as it's choices.

class localflavor.nl.forms.**NLSoFiNumberField**(**args*, ***kwargs*)
A Dutch social security number (SoFi/BSN) field.

http://nl.wikipedia.org/wiki/Sofinummer

class localflavor.nl.forms.**NLZipCodeField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A Dutch zip code field.

7.40.2 Models

class localflavor.nl.models.**NLBankAccountNumberField**(**args*, ***kwargs*)
A Dutch bank account model field.

This model field uses validators.NLBankAccountNumberFieldValidator for validation.

New in version 1.1.

deconstruct()

class localflavor.nl.models.**NLPhoneNumberField**(**args*, ***kwargs*)
Dutch phone number model field

This model field uses validators.NLPhoneNumberFieldValidator for validation.

New in version 1.3.

deconstruct()

description = 'Dutch phone number'

formfield(***kwargs*)

validator = [<localflavor.nl.validators.NLPhoneNumberFieldValidator object at 0x7f89d53397b8>]

class localflavor.nl.models.**NLProvinceField**(**args*, ***kwargs*)
A Dutch Province field.

New in version 1.3.

deconstruct()

description = 'Dutch province'

class localflavor.nl.models.**NLSoFiNumberField**(**args*, ***kwargs*)
A Dutch social security number (SoFi)

This model field uses validators.NLSoFiNumberFieldValidator for validation.

New in version 1.3.

deconstruct()

description = 'Dutch social security number (SoFi)'

formfield(***kwargs*)

validators = [<localflavor.nl.validators.NLSoFiNumberFieldValidator object at 0x7f89d5339710>]

class localflavor.nl.models.**NLZipCodeField**(**args*, ***kwargs*)
A Dutch zip code model field.

This model field uses validators.NLZipCodeFieldValidator for validation.

New in version 1.3.

deconstruct()

description = 'Dutch zipcode'

formfield(***kwargs*)

to_python(*value*)

validators = [<localflavor.nl.validators.NLZipCodeFieldValidator object at 0x7f89d5339630>]

7.40.3 Data

localflavor.nl.nl_provinces.**PROVINCE_CHOICES = (('DR', 'Drenthe'), ('FL', 'Flevoland'), ('FR', 'Fryslân'), ('GL',**
An alphabetical list of provinces

7.41 Norway (no)

7.41.1 Forms

Norwegian-specific Form helpers

class localflavor.no.forms.**NOMunicipalitySelect**(*attrs=None*)
A Select widget that uses a list of Norwegian municipalities (fylker) as its choices.

class localflavor.no.forms.**NOPhoneNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Field with phonenumber validation. Requires a phone number with 8 digits and optional country code

class localflavor.no.forms.**NOSocialSecurityNumber**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
Algorithm is documented at http://no.wikipedia.org/wiki/Personnummer

class localflavor.no.forms.**NOZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates input as a Norwegian zip code. Valid codes have four digits.

7.41.2 Data

localflavor.no.no_municipalities.**MUNICIPALITY_CHOICES = ((‘akershus’, ‘Akershus’), (‘austagder’, ‘Aust-Agd**
An alphabetical list of Norwegian municipalities (fylker) for use as *choices* in a formfield.

7.42 New Zealand (nz)

New in version 1.1.

7.42.1 Forms

New Zealand specific form helpers

class localflavor.nz.forms.**NZBankAccountNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input as New Zealand bank account number.

Formats:

XX-XXXX-XXXXXXX-XX

XX-XXXX-XXXXXXX-XXX

Where:

- the first two digits is the bank ID
- the next four digits are the branch number where the account was opened
- the next 7 digits are the account numbers
- the last two or three digits define type of the account.

class localflavor.nz.forms.**NZNorthIslandCouncilSelect**(*attrs=None*)
A select widget with list of New Zealand North Island city and district councils as its choices.

class localflavor.nz.forms.**NZPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=’‘*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input as New Zealand phone number.

class localflavor.nz.forms.**NZPostCodeField**(**args*, ***kwargs*)
A form field that validates its input as New Zealand postal code.

class localflavor.nz.forms.**NZProvinceSelect**(*attrs=None*)
A select widget with list of New Zealand provinces as its choices.

class localflavor.nz.forms.**NZRegionSelect**(*attrs=None*)
A select widget with list of New Zealand regions as its choices.

class localflavor.nz.forms.**NZSouthIslandCouncilSelect**(*attrs=None*)
A select widget with list of New Zealand South Island city and district councils as its choices.

7.42.2 Data

localflavor.nz.nz_regions.**REGION_CHOICES** = (('NZ-NTL', 'Northland'), ('NZ-AUK', 'Auckland'), ('NZ-WKO', 'W
A list of regions

localflavor.nz.nz_provinces.**PROVINCE_CHOICES** = (('Auckland', 'Auckland'), ('Taranaki', 'Taranaki'), ("Hawke's
A list of provinces (abolished in 1876, use regions instead)

localflavor.nz.nz_councils.**NORTH_ISLAND_COUNCIL_CHOICES** = (('Far North', 'Far North District'), ('Whangar
A list of North Island city and district councils

localflavor.nz.nz_councils.**SOUTH_ISLAND_COUNCIL_CHOICES** = (('Tasman', 'Tasman District'), ('Nelson', 'Nels
A list of South Island city and district councils

7.43 Peru (pe)

7.43.1 Forms

PE-specific Form helpers.

class localflavor.pe.forms.**PEDNIField**(*max_length=8*, *min_length=8*, **args*, ***kwargs*)
A field that validates Documento Nacional de Identidad (DNI) numbers.

clean(*value*)
Value must be a string in the XXXXXXXX formats.

class localflavor.pe.forms.**PERUCField**(*max_length=11*, *min_length=11*, **args*, ***kwargs*)
This field validates a RUC (Registro Unico de Contribuyentes). A RUC is of the form XXXXXXXXXXX.

clean(*value*)
Value must be an 11-digit number.

class localflavor.pe.forms.**PERegionSelect**(*attrs=None*)
A Select widget that uses a list of Peruvian Regions as its choices.

7.43.2 Data

localflavor.pe.pe_region.**REGION_CHOICES** = (('AMA', 'Amazonas'), ('ANC', 'Ancash'), ('APU', 'Apurímac'), ('AR
A list of Peru regions as *choices* in a formfield.

7.44 Pakistan (pk)

7.44.1 Forms

Pakistani-specific Form helpers

class localflavor.pk.forms.**PKPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates input as an Pakistani phone number.

Valid numbers have nine to eleven digits.

clean(*value*)
Validate a phone number. Strips parentheses, whitespace and hyphens.

class localflavor.pk.forms.**PKPostCodeField**(**args*, ***kwargs*)
Pakistani post code field.

Assumed to be 5 digits.

class localflavor.pk.forms.**PKStateSelect**(*attrs=None*)
A Select widget that uses a list of Pakistani states/territories as its choices.

7.44.2 Models

class localflavor.pk.models.**PKPhoneNumberField**(**args*, ***kwargs*)
A model field that checks that the value is a valid Pakistani phone number (nine to eleven digits).

deconstruct()

description = 'Pakistani Phone number'

formfield(***kwargs*)

class localflavor.pk.models.**PKPostCodeField**(**args*, ***kwargs*)
A model field that forms represent as a *PKPostCodeField* field and stores the five-digit Pakistani postcode in the database.

deconstruct()

description = 'Pakistani Postcode'

formfield(***kwargs*)

class localflavor.pk.models.**PKStateField**(**args*, ***kwargs*)
A model field that is represented with STATE_CHOICES ' choices and stores the five-letter Pakistani state abbreviation in the database.

deconstruct()

description = 'Pakistani State'

7.44.3 Data

localflavor.pk.pk_states.**STATE_CHOICES = (('PK-JK', 'Azad Jammu & Kashmir'), ('PK-BA', 'Balochistan'), ('PK-**
An alphabetical list of states for use as *choices* in a formfield.

7.45 Poland (pl)

7.45.1 Forms

Polish-specific form helpers

class localflavor.pl.forms.**PLCountySelect**(*attrs=None*)
A select widget with list of Polish administrative units as choices.

class localflavor.pl.forms.**PLNIPField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates as Polish Tax Number (NIP). Valid forms are: XXX-YYY-YY-YY, XXX-YY-YY-YYY or XXXYYYYYYY.

Checksum algorithm based on documentation at http://wipos.p.lodz.pl/zylla/ut/nip-rego.html

has_valid_checksum(*number*)
Calculates a checksum with the provided algorithm.

class localflavor.pl.forms.**PLNationalIDCardNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates as Polish National ID Card Number.

Checks the following rules:

- the length consist of 3 letter and 6 digits
- has a valid checksum

The algorithm is documented at http://en.wikipedia.org/wiki/Polish_identity_card.

has_valid_checksum(*number*)
Calculates a checksum with the provided algorithm.

class localflavor.pl.forms.**PLPESELField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates as Polish Identification Number (PESEL).

Checks the following rules:

- the length consist of 11 digits
- has a valid checksum

The algorithm is documented at http://en.wikipedia.org/wiki/PESEL.

has_valid_checksum(*number*)
Calculates a checksum with the provided algorithm.

class localflavor.pl.forms.**PLPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates as Polish postal code. Valid code is XX-XXX where X is digit.

class localflavor.pl.forms.**PLProvinceSelect**(*attrs=None*)
A select widget with list of Polish administrative provinces as choices.

class localflavor.pl.forms.**PLREGONField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates its input is a REGON number.

Valid regon number consists of 9 or 14 digits. See http://www.stat.gov.pl/bip/regon_ENG_HTML.htm for more information.

has_valid_checksum(*number*)
Calculates a checksum with the provided algorithm.

7.45.2 Data

localflavor.pl.pl_administrativeunits.**ADMINISTRATIVE_UNIT_CHOICES = (('wroclaw', 'Wrocław'), ('jelenia**

7.46 Portugal (pt)

7.46.1 Forms

django_localflavot_pt.forms

Contains PT-specific Django form helpers.

class localflavor.pt.forms.**PTCitizenCardNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A field which validates Portuguese Citizen Card numbers (locally CC - 'Cartão do Cidadão').

- Citizen Card numbers have the format XXXXXXXXXYYX or XXXXXXXX-XYYX (where X is a digit and Y is an alphanumeric character).
- Citizen Card numbers validate as per http://bit.ly/RP0BzW.
- The input string may or may not have an hyphen separating the identity number from the document's check-digits.
- This field does NOT validate old ID card numbers (locally BI - 'Bilhete de Identidade').

class localflavor.pt.forms.**PTPhoneNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A field which validates Portuguese phone numbers.

- Phone numbers have at least 3 and at most 9 digits and may optionally be prefixed with '00351' or '+351'.
- The input string is allowed to contain spaces (though they will be stripped).

class localflavor.pt.forms.**PTRegionSelect**(*attrs=None*)

A select widget which uses a list of Portuguese regions as its choices.

- Regions correspond to the Portuguese 'distritos' and 'regiões autónomas' as per ISO3166:2-PT.

class localflavor.pt.forms.**PTSocialSecurityNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A field which validates Portuguese Social Security numbers (locally NISS - 'Número de Identificação na Segurança Social').

- Social Security numbers must be in the format XYYYYYYYYYY (where X is either 1 or 2 and Y is any other digit).

class localflavor.pt.forms.**PTZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)

A field which validates Portuguese zip codes.

NOTE - Zip codes have the format XYYY-YYY (where X is a digit between 1 and 9 and Y is any other digit).

7.46.2 Data

localflavor.pt.pt_regions.**REGION_CHOICES = (('01', 'Aveiro'), ('02', 'Beja'), ('03', 'Braga'), ('04', 'Bragança'), ('05**

A tuple representing Portuguese regions (as per ISO3166:2-PT).

7.47 Paraguay (py)

7.47.1 Forms

PY-specific Form helpers.

class localflavor.py_.forms.**PyDepartmentSelect**(*attrs=None*)

A Select widget with a list of Paraguayan departments as choices.

class localflavor.py_.forms.**PyNumberedDepartmentSelect**(*attrs=None*)

A Select widget with a roman numbered list of Paraguayan departments as choices.

7.47.2 Data

localflavor.py_.py_department.**DEPARTMENT_CHOICES = (('AG', 'Alto Paraguay'), ('AA', 'Alto Paraná'), ('AM', 'A**

http://www.statoids.com/upy.html

localflavor.py_.py_department.**DEPARTMENT_ROMAN_CHOICES = (('CN', 'I Concepción'), ('SP', 'II San Pedro'), ('**

list of departments sorted by its roman number

7.48 Romania (ro)

7.48.1 Forms

Romanian specific form helpers.

class localflavor.ro.forms.**ROCIFField**(*max_length=10*, *min_length=2*, **args*, ***kwargs*)

A Romanian fiscal identity code (CIF) field

For CIF validation algorithm see: https://ro.wikipedia.org/wiki/Cod_de_Identificare_Fiscal%C4%83

clean(*value*)

CIF validation

Args: value: the CIF code

class localflavor.ro.forms.**ROCNPField**(*max_length=13*, *min_length=13*, **args*, ***kwargs*)

A Romanian personal identity code (CNP) field

For CNP validation algorithm see: https://ro.wikipedia.org/wiki/Cod_numeric_personal

clean(*value*)

CNP validations

Args: value: the CNP code

class localflavor.ro.forms.**ROCountyField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)

A form field that validates its input is a Romanian county name or abbreviation. It normalizes the input to the standard vehicle registration abbreviation for the given county.

WARNING: This field will only accept names written with diacritics (using comma bellow for and); consider using ROCountySelect if this behavior is unacceptable for you

For more information regarding diacritics see *Comma-below (and) versus cedilla (ş and ţ)* and *Unicode and HTML* sections from: Romanian alphabet.

Example:

Arge => valid (comma bellow)

Argeş => invalid (cedilla)

Arges => invalid (no diacritic)

class localflavor.ro.forms.**ROCountySelect**(*attrs=None*)

A Select widget that uses a list of Romanian counties (judee) as its choices.

class localflavor.ro.forms.**ROIBANField**(**args*, ***kwargs*)

Romanian International Bank Account Number (IBAN) field

Changed in version 1.1: Validation error messages changed to the messages used in `IBANFormField`

Deprecated since version 1.1: Use *IBANFormField* with *included_countries=('RO',)* option instead.

class localflavor.ro.forms.**ROPhoneNumberField**(*max_length=20*, *min_length=3*, **args*, ***kwargs*)

Romanian phone number field
Changed in version 1.1:Made the field also accept national short phone numbers and 7-digit regional phone numbers besides the regular ones. Official documentation (in English): http://www.ancom.org.ro/en/pnn_1300 Official documentation (in Romanian): http://www.ancom.org.ro/pnn_1300

clean(*value*)

Strips braces, dashes, dots and spaces. Checks the final length.

Args: value: the phone number

class localflavor.ro.forms.**ROPostalCodeField**(*max_length=6*, *min_length=6*, **args*, ***kwargs*)

Romanian postal code field.

7.48.2 Data

localflavor.ro.ro_counties.**COUNTIES_CHOICES = (('AB', 'Alba'), ('AR', 'Arad'), ('AG', 'Arge'), ('BC', 'Bacău'), (**

A list of Romanian counties as *choices* in a formfield.

7.49 Russia (ru)

7.49.1 Forms

Russian-specific forms helpers

class localflavor.ru.forms.**RUAlienPassportNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Russian alien's passport number format: XX XXXXXXX where X - any digit.

class localflavor.ru.forms.**RUCountySelect**(*attrs=None*)
A Select widget that uses a list of Russian Counties as its choices.

class localflavor.ru.forms.**RUPassportNumberField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Russian internal passport number format: XXXX XXXXXX where X - any digit.

class localflavor.ru.forms.**RUPostalCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Russian Postal code field. Format: XXXXXX, where X is any digit, and first digit is not zero.

class localflavor.ru.forms.**RURegionSelect**(*attrs=None*)
A Select widget that uses a list of Russian Regions as its choices.

7.49.2 Data

localflavor.ru.ru_regions.**RU_COUNTY_CHOICES = (('Central Federal County', 'Central Federal County'), ('South**
http://ru.wikipedia.org/wiki/___

localflavor.ru.ru_regions.**RU_REGIONS_CHOICES = (('77', 'Moskva'), ('78', 'Saint-Peterburg'), ('50', "Moskovskay**
http://ru.wikipedia.org/wiki/___

7.50 Sweden (se)

7.50.1 Forms

Swedish specific Form helpers

class localflavor.se.forms.**SECountySelect**(*attrs=None*)
A Select form widget that uses a list of the Swedish counties (län) as its choices.

The cleaned value is the official county code – see http://en.wikipedia.org/wiki/Counties_of_Sweden for a list.

class localflavor.se.forms.**SEOrganisationNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates input as a Swedish organisation number (organisationsnummer).

It accepts the same input as SEPersonalIdentityField (for sole proprietorships (enskild firma). However, co-ordination numbers are not accepted.

It also accepts ordinary Swedish organisation numbers with the format NNNNNNNNNN.

The return value will be YYYYMMDDXXXX for sole proprietors, and NNNNNNNNNN for other organisations.

class localflavor.se.forms.**SEPersonalIdentityNumberField**(*coordination_number=True*, **args*, ***kwargs*)

A form field that validates input as a Swedish personal identity number (personnummer).

The correct formats are YYYYMMDD-XXXX, YYYYMMDDXXXX, YYMMDD-XXXX, YYMMDDXXXX and YYMMDD+XXXX.

A + indicates that the person is older than 100 years, which will be taken into consideration when the date is validated.

The checksum will be calculated and checked. The birth date is checked to be a valid date.

By default, co-ordination numbers (samordningsnummer) will be accepted. To only allow real personal identity numbers, pass the keyword argument coordination_number=False to the constructor.

The cleaned value will always have the format YYYYMMDDXXXX.

class localflavor.se.forms.**SEPostalCodeField**(**args*, ***kwargs*)

A form field that validates input as a Swedish postal code (postnummer). Valid codes consist of five digits (XXXXX). The number can optionally be formatted with a space after the third digit (XXX XX).

The cleaned value will never contain the space.

7.50.2 Utilities

localflavor.se.utils.**id_number_checksum**(*gd*)

Calculates a Swedish ID number checksum, using the "Luhn"-algoritm

localflavor.se.utils.**validate_id_birthday**(*gd*, *fix_coordination_number_day=True*)

Validates the birth_day and returns the datetime.date object for the birth_day.

If the date is an invalid birth day, a ValueError will be raised.

7.50.3 Data

localflavor.se.se_counties.**COUNTY_CHOICES = (('AB', 'Stockholm'), ('AC', 'Västerbotten'), ('BD', 'Norrbotten'),**

An alphabetical list of Swedish counties, sorted by codes. http://en.wikipedia.org/wiki/Counties_of_Sweden

7.51 Singapore (sg)

New in version 1.1.

7.51.1 Forms

Singapore-specific Form helpers

7.52 Slovenia (si)

7.52.1 Forms

Slovenian specific form helpers.

class localflavor.si.forms.**SIEMSOField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

A form for validating Slovenian personal identification number.

Additionally stores gender, nationality and birthday to self.info dictionary.

class localflavor.si.forms.**SIPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

Slovenian phone number field.

Phone number must contain at least local area code. Country code can be present.

Examples:

- +38640XXXXXX
- 0038640XXXXXX
- 040XXXXXX
- 01XXXXXX
- 0590XXXXX

class localflavor.si.forms.**SIPostalCodeField**(**args*, ***kwargs*)

Slovenian post codes field.

class localflavor.si.forms.**SIPostalCodeSelect**(*attrs=None*)

A Select widget that uses Slovenian postal codes as its choices.

class localflavor.si.forms.**SITaxNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)

Slovenian tax number field.

Valid input is SIXXXXXXXX or XXXXXXXX where X is a number.

7.52.2 Data

localflavor.si.si_postalcodes.**SI_POSTALCODES = [(1000, 'Ljubljana'), (1215, 'Medvode'), (1216, 'Smlednik'), (12**

class localflavor.sk.forms.**SKRegionSelect**(*attrs=None*)
A select widget widget with list of Slovak regions as choices.

7.53.2 Data

localflavor.sk.sk_districts.**DISTRICT_CHOICES = (('BB', 'Banska Bystrica'), ('BS', 'Banska Stiavnica'), ('BJ', 'B**
http://sk.wikipedia.org/wiki/Administrat%C3%ADvne_%C4%8Dlenenie_Slovenska

localflavor.sk.sk_regions.**REGION_CHOICES = (('BB', 'Banska Bystrica region'), ('BA', 'Bratislava region'), ('KE',**
http://sk.wikipedia.org/wiki/Administrat%C3%ADvne_%C4%8Dlenenie_Slovenska

7.54 Tunisia (tn)

Tunisia-specific Form helpers.

class localflavor.tn.forms.**TNGovernorateSelect**(*attrs=None*)
A Select widget that uses a list of the Tunisian governorates as its choices.

localflavor.tn.tn_governorates.**GOVERNORATE_CHOICES = (('ariana', 'Ariana'), ('beja', 'Beja'), ('ben arous', 'Be**
All the 24 Tunisian Governorates http://en.wikipedia.org/wiki/Governorates_of_Tunisia

7.55 Turkey (tr)

7.55.1 Forms

class localflavor.tr.forms.**TRIdentificationNumberField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A Turkey Identification Number number. See: http://tr.wikipedia.org/wiki/T%C3%BCrkiye_Cumhuriyeti_Kimlik_Numaras%C4%

Checks the following rules to determine whether the number is valid:

- The number is 11-digits.
- First digit is not 0.
- Conforms to the following two formula: (sum(1st, 3rd, 5th, 7th, 9th)*7 - sum(2nd,4th,6th,8th)) % 10 = 10th digit sum(1st to 10th) % 10 = 11th digit

class localflavor.tr.forms.**TRPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates input as a Turkish phone number. The correct format is 0xxx xxx xxxx. +90xxx xxx xxxx and inputs without spaces also validates. The result is normalized to xxx xxx xxxx format.

class localflavor.tr.forms.**TRPostalCodeField**(*max_length=5*, *min_length=5*, **args*, ***kwargs*)
A form field that validates input as a Turkish zip code. Valid codes consist of five digits.

class localflavor.tr.forms.**TRProvinceSelect**(*attrs=None*)
A Select widget that uses a list of provinces in Turkey as its choices.

7.55.2 Data

localflavor.tr.tr_provinces.**PROVINCE_CHOICES = ((‘01’, ‘Adana’), (‘02’, ‘Adıyaman’), (‘03’, ‘Afyonkarahisar’), (**
A list of Turkish provinces

7.56 United States of America (us)

7.56.1 Forms

USA-specific Form helpers

class localflavor.us.forms.**USPSSelect**(*attrs=None*)
A Select widget that uses a list of US Postal Service codes as its choices.

Note: If you are looking for a form field that validates U.S. ZIP codes please use *USZipCodeField*.

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class localflavor.us.forms.**USPhoneNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field that validates input as a U.S. phone number.

class localflavor.us.forms.**USSocialSecurityNumberField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A United States Social Security number.

Checks the following rules to determine whether the number is valid:

- Conforms to the XXX-XX-XXXX format.
- No group consists entirely of zeroes.
- The leading group is not “666” (block “666” will never be allocated).
- The number is not in the promotional block 987-65-4320 through 987-65-4329, which are permanently invalid.
- The number is not one known to be invalid due to otherwise widespread promotional use or distribution (e.g., the Woolworth’s number or the 1962 promotional number).

New in version 1.1.

class localflavor.us.forms.**USStateField**(*required=True*, *widget=None*, *label=None*, *initial=None*, *help_text=''*, *error_messages=None*, *show_hidden_initial=False*, *validators=[]*, *localize=False*, *disabled=False*, *label_suffix=None*)
A form field that validates its input is a U.S. state name or abbreviation. It normalizes the input to the standard two-leter postal service abbreviation for the given state.

class localflavor.us.forms.**USStateSelect**(*attrs=None*)
A Select widget that uses a list of U.S. states/territories as its choices.

class localflavor.us.forms.**USZipCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
” A form field that validates input as a U.S. ZIP code. Valid formats are XXXXX or XXXXX-XXXX.

Note: If you are looking for a form field with a list of U.S. Postal Service locations please use *USPSSelect*.

New in version 1.1.

Whitespace around the ZIP code is accepted and automatically trimmed.

7.56.2 Models

class localflavor.us.models.**PhoneNumberField**(**args*, ***kwargs*)
A CharField that checks that the value is a valid U.S.A.-style phone number (in the format XXX-XXX-XXXX).

class localflavor.us.models.**USPostalCodeField**(**args*, ***kwargs*)
" A model field that forms represent as a USPSSelect ' field and stores the two-letter U.S. Postal Service abbreviation in the database.

Note: If you are looking for a model field that validates U.S. ZIP codes please use *USZipCodeField*.

class localflavor.us.models.**USSocialSecurityNumberField**(**args*, ***kwargs*)
A model field that forms represent as forms.USSocialSecurityNumberField and stores in the format XXX-XX-XXXX.

New in version 1.1.

class localflavor.us.models.**USStateField**(**args*, ***kwargs*)
A model field that forms represent as a forms.USStateField field and stores the two-letter U.S. state abbreviation in the database.

class localflavor.us.models.**USZipCodeField**(**args*, ***kwargs*)
A model field that forms represent as a *USZipCodeField* field and stores the U.S. ZIP code in the database.

Note: If you are looking for a model field with a list of U.S. Postal Service locations please use *USPostalCodeField*.

New in version 1.1.

7.56.3 Data

localflavor.us.us_states.**CONTIGUOUS_STATES** = **(('AL', 'Alabama'), ('AZ', 'Arizona'), ('AR', 'Arkansas'), ('CA', '**
The 48 contiguous states, plus the District of Columbia.

localflavor.us.us_states.**US_STATES** = **(('AL', 'Alabama'), ('AK', 'Alaska'), ('AZ', 'Arizona'), ('AR', 'Arkansas'), ('**
All 50 states, plus the District of Columbia.

localflavor.us.us_states.**US_TERRITORIES** = **(('AS', 'American Samoa'), ('GU', 'Guam'), ('MP', 'Northern Mariar**
Non-state territories.

localflavor.us.us_states.**ARMED_FORCES_STATES** = **(('AA', 'Armed Forces Americas'), ('AE', 'Armed Forces Euro**
Military postal "states". Note that 'AE' actually encompasses Europe, Canada, Africa and the Middle East.

localflavor.us.us_states.**COFA_STATES** = **(('FM', 'Federated States of Micronesia'), ('MH', 'Marshall Islands'), ('PW**
Non-US locations serviced by USPS (under Compact of Free Association).

localflavor.us.us_states.**OBSOLETE_STATES** = **(('CM', 'Commonwealth of the Northern Mariana Islands'), ('CZ', '**
Obsolete abbreviations (no longer US territories/USPS service, or code changed).

localflavor.us.us_states.**STATE_CHOICES** = **(('AL', 'Alabama'), ('AK', 'Alaska'), ('AS', 'American Samoa'), ('AZ',**
All US states and territories plus DC and military mail.

localflavor.us.us_states.**USPS_CHOICES = (('AL', 'Alabama'), ('AK', 'Alaska'), ('AS', 'American Samoa'), ('AZ', '**
All US Postal Service locations.

localflavor.us.us_states.**STATES_NORMALIZED = {'california': 'CA', 'wva': 'WV', 'indiana': 'IN', 'nebr': 'NE', 'p**
Normalized versions of state names

7.57 Uruguay (uy)

7.57.1 Forms

UY-specific form helpers.

class localflavor.uy.forms.**UYCIField**(**args*, ***kwargs*)
A field that validates Uruguayan 'Cedula de identidad' (CI) numbers.

clean(*value*)
Validates format and validation digit.

The official format is [X.]XXX.XXX-X but usually dots and/or slash are omitted so, when validating, those characters are ignored if found in the correct place. The three typically used formats are supported: [X]XXXXXXX, [X]XXXXXX-X and [X.]XXX.XXX-X.

class localflavor.uy.forms.**UYDepartmentSelect**(*attrs=None*)
A Select widget that uses a list of Uruguayan departments as its choices.

7.57.2 Utilities

localflavor.uy.util.**get_validation_digit**(*number*)
Calculates the validation digit for the given number.

7.57.3 Data

localflavor.uy.uy_departments.**DEPARTMENT_CHOICES = (('G', 'Artigas'), ('A', 'Canelones'), ('E', 'Cerro Largo'),**
A list of Uruguayan departments as *choices* in a formfield.

7.58 South Africa (za)

7.58.1 Forms

South Africa-specific Form helpers

class localflavor.za.forms.**ZAIDField**(*max_length=None*, *min_length=None*, *strip=True*, **args*, ***kwargs*)
A form field for South African ID numbers – the checksum is validated using the Luhn checksum, and uses a simlistic (read: not entirely accurate) check for the birthdate

class localflavor.za.forms.**ZAPostCodeField**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
A form field that validates input as a South African postcode. Valid postcodes must have four digits.

class localflavor.za.forms.**ZAProvinceSelect**(*attrs=None*)
A Select widget that uses a list of South African Provinces as its choices.

7.58.2 Data

localflavor.za.za_provinces.**PROVINCE_CHOICES** = (('EC', 'Eastern Cape'), ('FS', 'Free State'), ('GP', 'Gauteng'),
A list of South African provinces as *choices* in a formfield.

7.59 Generic helpers

7.59.1 Forms

class localflavor.generic.forms.**BICFormField**(**args*, ***kwargs*)
A BIC consists of 8 (BIC8) or 11 (BIC11) alphanumeric characters.

BICs are also known as SWIFT-BIC, BIC code, SWIFT ID, SWIFT code or ISO 9362.

https://en.wikipedia.org/wiki/ISO_9362

New in version 1.1.

class localflavor.generic.forms.**DateField**(*input_formats=None*, **args*, ***kwargs*)
A date input field which uses non-US date input formats by default.

class localflavor.generic.forms.**DateTimeField**(*input_formats=None*, **args*, ***kwargs*)
A date and time input field which uses non-US date and time input formats by default.

class localflavor.generic.forms.**IBANFormField**(*use_nordea_extensions=False*, *include_countries=None*, **args*, ***kwargs*)
An IBAN consists of up to 34 alphanumeric characters.

To limit validation to specific countries, set the 'include_countries' argument with a tuple or list of ISO 3166-1 alpha-2 codes. For example, *include_countries=('NL', 'BE, 'LU')*.

A list of countries that use IBANs as part of SEPA is included for convenience. To use this feature, set *include_countries=IBAN_SEPA_COUNTRIES* as an argument to the field.

Example:

```
from django import forms
from localflavor.generic.forms import IBANFormField
from localflavor.generic.countries.sepa import IBAN_SEPA_COUNTRIES

class MyForm(forms.Form):
    iban = IBANFormField(include_countries=IBAN_SEPA_COUNTRIES)
```

In addition to validating official IBANs, this field can optionally validate unofficial IBANs that have been catalogued by Nordea by setting the *use_nordea_extensions* argument to True.

https://en.wikipedia.org/wiki/International_Bank_Account_Number

New in version 1.1.

prepare_value(*value*)
The display format for IBAN has a space every 4 characters.

class localflavor.generic.forms.**SplitDateTimeField**(*input_date_formats=None*, *input_time_formats=None*, **args*, ***kwargs*)
Split date and time input fields which use non-US date and time input formats by default.

7.59.2 Models

class localflavor.generic.models.**BICField**(**args*, ***kwargs*)
A BIC consists of 8 (BIC8) or 11 (BIC11) alphanumeric characters.

BICs are also known as SWIFT-BIC, BIC code, SWIFT ID, SWIFT code or ISO 9362.

https://en.wikipedia.org/wiki/ISO_9362

New in version 1.1.

class localflavor.generic.models.**IBANField**(*use_nordea_extensions=False*, *include_countries=None*, **args*, ***kwargs*)
An IBAN consists of up to 34 alphanumeric characters.

To limit validation to specific countries, set the 'include_countries' argument with a tuple or list of ISO 3166-1 alpha-2 codes. For example, *include_countries=('NL', 'BE, 'LU')*.

A list of countries that use IBANs as part of SEPA is included for convenience. To use this feature, set *include_countries=IBAN_SEPA_COUNTRIES* as an argument to the field.

Example:

```
from django.db import models
from localflavor.generic.models import IBANField
from localflavor.generic.countries.sepa import IBAN_SEPA_COUNTRIES

class MyModel(models.Model):
    iban = IBANField(include_countries=IBAN_SEPA_COUNTRIES)
```

In addition to validating official IBANs, this field can optionally validate unofficial IBANs that have been catalogued by Nordea by setting the *use_nordea_extensions* argument to True.

https://en.wikipedia.org/wiki/International_Bank_Account_Number

New in version 1.1.

7.59.3 Checksums

Common checksum routines.

localflavor.generic.checksums.**luhn**(*candidate*)
Checks a candidate number for validity according to the Luhn algorithm (used in validation of, for example, credit cards). Both numeric and string candidates are accepted.

localflavor.generic.checksums.**ean**(*candidate*)
Checks a candidate number for validity according to the EAN checksum calculation. Note that this validator does not enforce any length checks (usually 13 or 8).

http://en.wikipedia.org/wiki/International_Article_Number_(EAN)

New in version 1.1.

7.59.4 Validators

class localflavor.generic.validators.**BICValidator**
A validator for SWIFT Business Identifier Codes (ISO 9362:2009). Validation is based on the BIC structure found on wikipedia.

https://en.wikipedia.org/wiki/ISO_9362#Structure

deconstruct(*obj*)
Returns a 3-tuple of class import path, positional arguments, and keyword arguments.

class localflavor.generic.validators.**EANValidator**(*strip_nondigits=False*, *message=None*)
A generic validator for EAN like codes with the last digit being the checksum.

http://en.wikipedia.org/wiki/International_Article_Number_(EAN)

deconstruct(*obj*)
Returns a 3-tuple of class import path, positional arguments, and keyword arguments.

class localflavor.generic.validators.**IBANValidator**(*use_nordea_extensions=False*, *include_countries=None*)
A validator for International Bank Account Numbers (IBAN - ISO 13616-1:2007).

deconstruct(*obj*)
Returns a 3-tuple of class import path, positional arguments, and keyword arguments.

static iban_checksum(*value*)
Returns check digits for an input IBAN number. Original checksum in input value is ignored.

New in version 1.1.

7.59.5 Data

localflavor.generic.countries.iso_3166.**ISO_3166_1_ALPHA2_COUNTRY_CODES = ('AD', 'AE', 'AF', 'AG', '**
ISO 3166-1 country list. Sourced from https://www.iso.org/obp/ui on 2014-11-08

localflavor.generic.countries.sepa.**IBAN_SEPA_COUNTRIES = ('AT', 'BE', 'BG', 'CH', 'CY', 'CZ', 'DE', 'DK',**
European Payments Council list of SEPA scheme countries as of 2 Sep 2015. http://www.europeanpaymentscouncil.eu/index.cfm/knowledge-bank/epc-documents/epc-list-of-sepa-scheme-countries/

l

localflavor, 3
localflavor.ar.forms, 20
localflavor.at.forms, 21
localflavor.au.forms, 21
localflavor.au.models, 22
localflavor.be.forms, 22
localflavor.bg.models, 23
localflavor.bg.utils, 24
localflavor.bg.validators, 23
localflavor.br.forms, 24
localflavor.ca.forms, 25
localflavor.ch.forms, 26
localflavor.cl.forms, 27
localflavor.cn.forms, 28
localflavor.co.forms, 29
localflavor.cz.forms, 29
localflavor.de.forms, 30
localflavor.dk.forms, 30
localflavor.ec.forms, 31
localflavor.ee.forms, 32
localflavor.es.forms, 32
localflavor.fi.forms, 33
localflavor.fr.forms, 34
localflavor.gb.forms, 35
localflavor.gb.gb_regions, 35
localflavor.generic.checksums, 67
localflavor.generic.forms, 66
localflavor.generic.models, 67
localflavor.generic.validators, 67
localflavor.gr.forms, 36
localflavor.hk.forms, 37
localflavor.hr.forms, 37
localflavor.hu.forms, 38
localflavor.id_.forms, 39
localflavor.ie.forms, 40
localflavor.il.forms, 40
localflavor.in_.forms, 41
localflavor.is_.forms, 42
localflavor.it.forms, 42
localflavor.it.util, 43
localflavor.jp.forms, 44
localflavor.kw.forms, 44
localflavor.lt.forms, 45
localflavor.lv.forms, 46
localflavor.mk.forms, 47
localflavor.mk.models, 47
localflavor.mt.forms, 48
localflavor.mx.forms, 48
localflavor.mx.models, 49
localflavor.nl.forms, 50
localflavor.nl.models, 50
localflavor.no.forms, 51
localflavor.nz.forms, 52
localflavor.pe.forms, 53
localflavor.pk.forms, 53
localflavor.pk.models, 54
localflavor.pl.forms, 54
localflavor.pt.forms, 56
localflavor.py_.forms, 57
localflavor.ro.forms, 57
localflavor.ru.forms, 59
localflavor.se.forms, 59
localflavor.se.utils, 60
localflavor.sg.forms, 60
localflavor.si.forms, 60
localflavor.sk.forms, 61
localflavor.tn.forms, 62
localflavor.tr.forms, 62
localflavor.us.forms, 63
localflavor.us.models, 64
localflavor.uy.forms, 65
localflavor.uy.util, 65
localflavor.za.forms, 65

A

ADMINISTRATIVE_UNIT_CHOICES (in module localflavor.pl.pl_administrativeunits), 55
ARCBUField (class in localflavor.ar.forms), 20
ARCUITField (class in localflavor.ar.forms), 20
ARDNIField (class in localflavor.ar.forms), 20
ARMED_FORCES_STATES (in module localflavor.us.us_states), 64
ARPostalCodeField (class in localflavor.ar.forms), 20
ARProvinceSelect (class in localflavor.ar.forms), 20
ATSocialSecurityNumberField (class in localflavor.at.forms), 21
ATStateSelect (class in localflavor.at.forms), 21
ATZipCodeField (class in localflavor.at.forms), 21
AUBusinessNumberField (class in localflavor.au.forms), 21
AUBusinessNumberField (class in localflavor.au.models), 22
AUPhoneNumberField (class in localflavor.au.forms), 21
AUPhoneNumberField (class in localflavor.au.models), 22
AUPostCodeField (class in localflavor.au.forms), 21
AUPostCodeField (class in localflavor.au.models), 22
AUStateField (class in localflavor.au.models), 22
AUStateSelect (class in localflavor.au.forms), 22

B

BEPhoneNumberField (class in localflavor.be.forms), 22
BEPostalCodeField (class in localflavor.be.forms), 23
BEProvinceSelect (class in localflavor.be.forms), 23
BERegionSelect (class in localflavor.be.forms), 23
BGEGNField (class in localflavor.bg.models), 23
BGEIKField (class in localflavor.bg.models), 23
BICField (class in localflavor.generic.models), 67
BICFormField (class in localflavor.generic.forms), 66
BICValidator (class in localflavor.generic.validators), 67
BRCNPJField (class in localflavor.br.forms), 24
BRCPFField (class in localflavor.br.forms), 24
BRPhoneNumberField (class in localflavor.br.forms), 24
BRProcessoField (class in localflavor.br.forms), 24
BRStateChoiceField (class in localflavor.br.forms), 25
BRStateSelect (class in localflavor.br.forms), 25
BRZipCodeField (class in localflavor.br.forms), 25

C

CAPhoneNumberField (class in localflavor.ca.forms), 25
CAPostalCodeField (class in localflavor.ca.forms), 25
CAProvinceField (class in localflavor.ca.forms), 25
CAProvinceSelect (class in localflavor.ca.forms), 25
CASocialInsuranceNumberField (class in localflavor.ca.forms), 25
CHIdentityCardNumberField (class in localflavor.ch.forms), 26
CHPhoneNumberField (class in localflavor.ch.forms), 26
CHSocialSecurityNumberField (class in localflavor.ch.forms), 26
CHStateSelect (class in localflavor.ch.forms), 27
CHZipCodeField (class in localflavor.ch.forms), 27
clean() (localflavor.ar.forms.ARCBUField method), 20
clean() (localflavor.ar.forms.ARCUITField method), 20
clean() (localflavor.ar.forms.ARDNIField method), 20
clean() (localflavor.au.forms.AUPhoneNumberField method), 21
clean() (localflavor.br.forms.BRCNPJField method), 24
clean() (localflavor.br.forms.BRCPFField method), 24
clean() (localflavor.br.forms.BRProcessoField method), 24
clean() (localflavor.cl.forms.CLRutField method), 27
clean() (localflavor.cn.forms.CNIDCardField method), 28
clean() (localflavor.cz.forms.CZPostalCodeField method), 29
clean() (localflavor.jp.forms.JPPostalCodeField method), 44
clean() (localflavor.pe.forms.PEDNIField method), 53
clean() (localflavor.pe.forms.PERUCField method), 53
clean() (localflavor.pk.forms.PKPhoneNumberField method), 53
clean() (localflavor.ro.forms.ROCIFField method), 57
clean() (localflavor.ro.forms.ROCNPField method), 57
clean() (localflavor.ro.forms.ROPhoneNumberField method), 58

clean() (localflavor.sk.forms.SKPostalCodeField method), 61
clean() (localflavor.uy.forms.UYCIField method), 65
CLRegionSelect (class in localflavor.cl.forms), 27
CLRutField (class in localflavor.cl.forms), 27
CN_PROVINCE_CHOICES (in module localflavor.cn.cn_provinces), 29
CNCellNumberField (class in localflavor.cn.forms), 28
CNIDCardField (class in localflavor.cn.forms), 28
CNPhoneNumberField (class in localflavor.cn.forms), 28
CNPostCodeField (class in localflavor.cn.forms), 28
CNProvinceSelect (class in localflavor.cn.forms), 28
CODepartmentSelect (class in localflavor.co.forms), 29
COFA_STATES (in module localflavor.us.us_states), 64
CONTIGUOUS_STATES (in module localflavor.us.us_states), 64
COUNTIES_CHOICES (in module localflavor.ro.ro_counties), 58
COUNTY_CHOICES (in module localflavor.ee.ee_counties), 32
COUNTY_CHOICES (in module localflavor.lt.lt_choices), 46
COUNTY_CHOICES (in module localflavor.se.se_counties), 60
CURP_INCONVENIENT_WORDS (in module localflavor.mx.forms), 48
CZBirthNumberField (class in localflavor.cz.forms), 29
CZICNumberField (class in localflavor.cz.forms), 29
CZPostalCodeField (class in localflavor.cz.forms), 29
CZRegionSelect (class in localflavor.cz.forms), 29

D

DateField (class in localflavor.generic.forms), 66
DateTimeField (class in localflavor.generic.forms), 66
deconstruct() (localflavor.au.models.AUBusinessNumberField method), 22
deconstruct() (localflavor.au.models.AUPhoneNumberField method), 22
deconstruct() (localflavor.au.models.AUPostCodeField method), 22
deconstruct() (localflavor.au.models.AUStateField method), 22
deconstruct() (localflavor.generic.validators.BICValidator method), 67
deconstruct() (localflavor.generic.validators.EANValidator method), 68
deconstruct() (localflavor.generic.validators.IBANValidator method), 68
deconstruct() (localflavor.nl.models.NLBankAccountNumberField method), 50
deconstruct() (localflavor.nl.models.NLPhoneNumberField method), 50
deconstruct() (localflavor.nl.models.NLProvinceField method), 50
deconstruct() (localflavor.nl.models.NLSoFiNumberField method), 51
deconstruct() (localflavor.nl.models.NLZipCodeField method), 51
deconstruct() (localflavor.pk.models.PKPhoneNumberField method), 54
deconstruct() (localflavor.pk.models.PKPostCodeField method), 54
deconstruct() (localflavor.pk.models.PKStateField method), 54
DEIdentityCardNumberField (class in localflavor.de.forms), 30
DEPARTMENT_CHOICES (in module localflavor.co.co_departments), 29
DEPARTMENT_CHOICES (in module localflavor.fr.fr_department), 35
DEPARTMENT_CHOICES (in module localflavor.py_.py_department), 57
DEPARTMENT_CHOICES (in module localflavor.uy.uy_departments), 65
DEPARTMENT_CHOICES_PER_REGION (in module localflavor.fr.fr_department), 35
DEPARTMENT_ROMAN_CHOICES (in module localflavor.py_.py_department), 57
description (localflavor.au.models.AUBusinessNumberField attribute), 22
description (localflavor.au.models.AUPhoneNumberField attribute), 22
description (localflavor.au.models.AUPostCodeField attribute), 22
description (localflavor.au.models.AUStateField attribute), 22
description (localflavor.nl.models.NLPhoneNumberField attribute), 50
description (localflavor.nl.models.NLProvinceField attribute), 50
description (localflavor.nl.models.NLSoFiNumberField attribute), 51
description (localflavor.nl.models.NLZipCodeField attribute), 51
description (localflavor.pk.models.PKPhoneNumberField attribute), 54
description (localflavor.pk.models.PKPostCodeField attribute), 54
description (localflavor.pk.models.PKStateField attribute), 54
DEStateSelect (class in localflavor.de.forms), 30
DEZipCodeField (class in localflavor.de.forms), 30
DISTRICT_CHOICES (in module localflavor.sk.sk_districts), 62
DK_MUNICIPALITIES (in module localflavor.dk.dk_municipalities), 31
DK_POSTALCODES (in module localflavor.dk.dk_postalcodes), 31

DKMunicipalitySelect (class in localflavor.dk.forms), 30
DKPhoneNumberField (class in localflavor.dk.forms), 30
DKPostalCodeField (class in localflavor.dk.forms), 31

E

ean() (in module localflavor.generic.checksums), 67
EANValidator (class in localflavor.generic.validators), 68
ECProvinceSelect (class in localflavor.ec.forms), 31
ee_checksum() (localflavor.ee.forms.EEPersonalIdentificationCode static method), 32
EEBusinessRegistryCode (class in localflavor.ee.forms), 32
EECountySelect (class in localflavor.ee.forms), 32
EEPersonalIdentificationCode (class in localflavor.ee.forms), 32
EEZipCodeField (class in localflavor.ee.forms), 32
egn_validator() (in module localflavor.bg.validators), 23
eik_validator() (in module localflavor.bg.validators), 23
ENGLAND_REGION_CHOICES (in module localflavor.gb.gb_regions), 36
ESCCCField (class in localflavor.es.forms), 32
ESIdentityCardNumberField (class in localflavor.es.forms), 33
ESPhoneNumberField (class in localflavor.es.forms), 33
ESPostalCodeField (class in localflavor.es.forms), 33
ESProvinceSelect (class in localflavor.es.forms), 33
ESRegionSelect (class in localflavor.es.forms), 33

F

FIMunicipalitySelect (class in localflavor.fi.forms), 33
FISocialSecurityNumber (class in localflavor.fi.forms), 34
FIZipCodeField (class in localflavor.fi.forms), 34
formfield() (localflavor.au.models.AUBusinessNumberField method), 22
formfield() (localflavor.au.models.AUPhoneNumberField method), 22
formfield() (localflavor.au.models.AUPostCodeField method), 22
formfield() (localflavor.nl.models.NLPhoneNumberField method), 50
formfield() (localflavor.nl.models.NLSoFiNumberField method), 51
formfield() (localflavor.nl.models.NLZipCodeField method), 51
formfield() (localflavor.pk.models.PKPhoneNumberField method), 54
formfield() (localflavor.pk.models.PKPostCodeField method), 54
FRDepartmentField (class in localflavor.fr.forms), 34
FRDepartmentSelect (class in localflavor.fr.forms), 34
FRNationalIdentificationNumber (class in localflavor.fr.forms), 34
FRPhoneNumberField (class in localflavor.fr.forms), 34
FRRegionField (class in localflavor.fr.forms), 34
FRRegionSelect (class in localflavor.fr.forms), 34
FRSIRENField (class in localflavor.fr.forms), 34
FRSIRETField (class in localflavor.fr.forms), 35
FRZipCodeField (class in localflavor.fr.forms), 35

G

GB_NATIONS_CHOICES (in module localflavor.gb.gb_regions), 36
GB_REGION_CHOICES (in module localflavor.gb.gb_regions), 36
GBCountySelect (class in localflavor.gb.forms), 35
GBNationSelect (class in localflavor.gb.forms), 35
GBPostcodeField (class in localflavor.gb.forms), 35
get_egn_birth_date() (in module localflavor.bg.utils), 24
get_validation_digit() (in module localflavor.uy.util), 65
GOVERNORATE_CHOICES (in module localflavor.tn.tn_governorates), 62
GRMobilePhoneNumberField (class in localflavor.gr.forms), 36
GRPhoneNumberField (class in localflavor.gr.forms), 36
GRPostalCodeField (class in localflavor.gr.forms), 36
GRTaxNumberCodeField (class in localflavor.gr.forms), 36

H

has_valid_birthday() (localflavor.cn.forms.CNIDCardField method), 28
has_valid_checksum() (localflavor.cn.forms.CNIDCardField method), 28
has_valid_checksum() (localflavor.pl.forms.PLNationalIDCardNumberField method), 55
has_valid_checksum() (localflavor.pl.forms.PLNIPField method), 55
has_valid_checksum() (localflavor.pl.forms.PLPESELField method), 55
has_valid_checksum() (localflavor.pl.forms.PLREGONField method), 55
has_valid_location() (localflavor.cn.forms.CNIDCardField method), 28
HKPhoneNumberField (class in localflavor.hk.forms), 37
HR_COUNTY_CHOICES (in module localflavor.hr.hr_choices), 38
HR_LICENSE_PLATE_PREFIX_CHOICES (in module localflavor.hr.hr_choices), 38
HR_PHONE_NUMBER_PREFIX_CHOICES (in module localflavor.hr.hr_choices), 38
HRCountySelect (class in localflavor.hr.forms), 37
HRJMBAGField (class in localflavor.hr.forms), 37
HRJMBGField (class in localflavor.hr.forms), 37
HRLicensePlateField (class in localflavor.hr.forms), 37
HRLicensePlatePrefixSelect (class in localflavor.hr.forms), 38

HROIBField (class in localflavor.hr.forms), 38
HRPhoneNumberField (class in localflavor.hr.forms), 38
HRPhoneNumberPrefixSelect (class in localflavor.hr.forms), 38
HRPostalCodeField (class in localflavor.hr.forms), 38
HU_COUNTY_CHOICES (in module localflavor.hu.hu_counties), 39
HUCountySelect (class in localflavor.hu.forms), 38

I

iban_checksum() (localflavor.generic.validators.IBANValidator static method), 68
IBAN_SEPA_COUNTRIES (in module localflavor.generic.countries.sepa), 68
IBANField (class in localflavor.generic.models), 67
IBANFormField (class in localflavor.generic.forms), 66
IBANValidator (class in localflavor.generic.validators), 68
id_number_checksum() (in module localflavor.se.utils), 60
IDLicensePlateField (class in localflavor.id_.forms), 39
IDLicensePlatePrefixSelect (class in localflavor.id_.forms), 39
IDNationalIdentityNumberField (class in localflavor.id_.forms), 39
IDPhoneNumberField (class in localflavor.id_.forms), 39
IDPostCodeField (class in localflavor.id_.forms), 39
IDProvinceSelect (class in localflavor.id_.forms), 40
IE_COUNTY_CHOICES (in module localflavor.ie.ie_counties), 40
IECountySelect (class in localflavor.ie.forms), 40
ILIDNumberField (class in localflavor.il.forms), 40
ILMobilePhoneNumberField (class in localflavor.il.forms), 40
ILPostalCodeField (class in localflavor.il.forms), 41
INAadhaarNumberField (class in localflavor.in_.forms), 41
INPhoneNumberField (class in localflavor.in_.forms), 41
INStateField (class in localflavor.in_.forms), 41
INStateSelect (class in localflavor.in_.forms), 41
INZipCodeField (class in localflavor.in_.forms), 41
IS_POSTALCODES (in module localflavor.is_.is_postalcodes), 42
ISIdNumberField (class in localflavor.is_.forms), 42
ISO_3166_1_ALPHA2_COUNTRY_CODES (in module localflavor.generic.countries.iso_3166), 68
ISPhoneNumberField (class in localflavor.is_.forms), 42
ISPostalCodeSelect (class in localflavor.is_.forms), 42
ITPhoneNumberField (class in localflavor.it.forms), 42
ITProvinceSelect (class in localflavor.it.forms), 42
ITRegionProvinceSelect (class in localflavor.it.forms), 42
ITRegionSelect (class in localflavor.it.forms), 42
ITSocialSecurityNumberField (class in localflavor.it.forms), 42
ITVatNumberField (class in localflavor.it.forms), 43
ITZipCodeField (class in localflavor.it.forms), 43

J

JP_PREFECTURES (in module localflavor.jp.jp_prefectures), 44
JPPostalCodeField (class in localflavor.jp.forms), 44
JPPrefectureCodeSelect (class in localflavor.jp.forms), 44
JPPrefectureSelect (class in localflavor.jp.forms), 44

K

KWCivilIDNumberField (class in localflavor.kw.forms), 44

L

LICENSE_PLATE_PREFIX_CHOICES (in module localflavor.id_.id_choices), 40
localflavor (module), 1
localflavor.ar.forms (module), 20
localflavor.at.forms (module), 21
localflavor.au.forms (module), 21
localflavor.au.models (module), 22
localflavor.be.forms (module), 22
localflavor.bg.models (module), 23
localflavor.bg.utils (module), 24
localflavor.bg.validators (module), 23
localflavor.br.forms (module), 24
localflavor.ca.forms (module), 25
localflavor.ch.forms (module), 26
localflavor.cl.forms (module), 27
localflavor.cn.forms (module), 28
localflavor.co.forms (module), 29
localflavor.cz.forms (module), 29
localflavor.de.forms (module), 30
localflavor.dk.forms (module), 30
localflavor.ec.forms (module), 31
localflavor.ee.forms (module), 32
localflavor.es.forms (module), 32
localflavor.fi.forms (module), 33
localflavor.fr.forms (module), 34
localflavor.gb.forms (module), 35
localflavor.gb.gb_regions (module), 35
localflavor.generic.checksums (module), 67
localflavor.generic.forms (module), 66
localflavor.generic.models (module), 67
localflavor.generic.validators (module), 67
localflavor.gr.forms (module), 36
localflavor.hk.forms (module), 37
localflavor.hr.forms (module), 37
localflavor.hu.forms (module), 38
localflavor.id_.forms (module), 39
localflavor.ie.forms (module), 40

localflavor.il.forms (module), 40
localflavor.in_.forms (module), 41
localflavor.is_.forms (module), 42
localflavor.it.forms (module), 42
localflavor.it.util (module), 43
localflavor.jp.forms (module), 44
localflavor.kw.forms (module), 44
localflavor.lt.forms (module), 45
localflavor.lv.forms (module), 46
localflavor.mk.forms (module), 47
localflavor.mk.models (module), 47
localflavor.mt.forms (module), 48
localflavor.mx.forms (module), 48
localflavor.mx.models (module), 49
localflavor.nl.forms (module), 50
localflavor.nl.models (module), 50
localflavor.no.forms (module), 51
localflavor.nz.forms (module), 52
localflavor.pe.forms (module), 53
localflavor.pk.forms (module), 53
localflavor.pk.models (module), 54
localflavor.pl.forms (module), 54
localflavor.pt.forms (module), 56
localflavor.py_.forms (module), 57
localflavor.ro.forms (module), 57
localflavor.ru.forms (module), 59
localflavor.se.forms (module), 59
localflavor.se.utils (module), 60
localflavor.sg.forms (module), 60
localflavor.si.forms (module), 60
localflavor.sk.forms (module), 61
localflavor.tn.forms (module), 62
localflavor.tr.forms (module), 62
localflavor.us.forms (module), 63
localflavor.us.models (module), 64
localflavor.uy.forms (module), 65
localflavor.uy.util (module), 65
localflavor.za.forms (module), 65
LTCountySelect (class in localflavor.lt.forms), 45
LTIDCodeField (class in localflavor.lt.forms), 45
LTMunicipalitySelect (class in localflavor.lt.forms), 45
LTPhoneField (class in localflavor.lt.forms), 45
LTPostalCodeField (class in localflavor.lt.forms), 45
luhn() (in module localflavor.generic.checksums), 67
lv_checksum() (localflavor.lv.forms.LVPersonalCodeField static method), 46
LVMunicipalitySelect (class in localflavor.lv.forms), 46
LVPersonalCodeField (class in localflavor.lv.forms), 46
LVPostalCodeField (class in localflavor.lv.forms), 46

M

MK_MUNICIPALITIES (in module localflavor.mk.mk_choices), 47
MKIdentityCardNumberField (class in localflavor.mk.forms), 47
MKIdentityCardNumberField (class in localflavor.mk.models), 47
MKMunicipalityField (class in localflavor.mk.models), 47
MKMunicipalitySelect (class in localflavor.mk.forms), 47
MUNICIPALITY_CHOICES (in module localflavor.fi.fi_municipalities), 34
MUNICIPALITY_CHOICES (in module localflavor.lt.lt_choices), 46
MUNICIPALITY_CHOICES (in module localflavor.lv.lv_choices), 46
MUNICIPALITY_CHOICES (in module localflavor.no.no_municipalities), 52
MXCURPField (class in localflavor.mx.forms), 48
MXCURPField (class in localflavor.mx.models), 49
MXRFCField (class in localflavor.mx.forms), 48
MXRFCField (class in localflavor.mx.models), 49
MXSocialSecurityNumberField (class in localflavor.mx.forms), 49
MXSocialSecurityNumberField (class in localflavor.mx.models), 49
MXStateField (class in localflavor.mx.models), 49
MXStateSelect (class in localflavor.mx.forms), 49
MXZipCodeField (class in localflavor.mx.forms), 49
MXZipCodeField (class in localflavor.mx.models), 49

N

NLBankAccountNumberField (class in localflavor.nl.models), 50
NLPhoneNumberField (class in localflavor.nl.forms), 50
NLPhoneNumberField (class in localflavor.nl.models), 50
NLProvinceField (class in localflavor.nl.models), 50
NLProvinceSelect (class in localflavor.nl.forms), 50
NLSoFiNumberField (class in localflavor.nl.forms), 50
NLSoFiNumberField (class in localflavor.nl.models), 50
NLZipCodeField (class in localflavor.nl.forms), 50
NLZipCodeField (class in localflavor.nl.models), 51
NOMunicipalitySelect (class in localflavor.no.forms), 51
NOPhoneNumberField (class in localflavor.no.forms), 51
NORTH_ISLAND_COUNCIL_CHOICES (in module localflavor.nz.nz_councils), 53
NORTHERN_IRELAND_REGION_CHOICES (in module localflavor.gb.gb_regions), 36
NOSocialSecurityNumber (class in localflavor.no.forms), 51
NOZipCodeField (class in localflavor.no.forms), 51
NZBankAccountNumberField (class in localflavor.nz.forms), 52
NZNorthIslandCouncilSelect (class in localflavor.nz.forms), 52
NZPhoneNumberField (class in localflavor.nz.forms), 52
NZPostCodeField (class in localflavor.nz.forms), 52

NZProvinceSelect (class in localflavor.nz.forms), 52
NZRegionSelect (class in localflavor.nz.forms), 52
NZSouthIslandCouncilSelect (class in localflavor.nz.forms), 52

O

OBSOLETE_STATES (in module localflavor.us.us_states), 64

P

PEDNIField (class in localflavor.pe.forms), 53
PERegionSelect (class in localflavor.pe.forms), 53
PERUCField (class in localflavor.pe.forms), 53
PhoneNumberField (class in localflavor.us.models), 64
PKPhoneNumberField (class in localflavor.pk.forms), 53
PKPhoneNumberField (class in localflavor.pk.models), 54
PKPostCodeField (class in localflavor.pk.forms), 54
PKPostCodeField (class in localflavor.pk.models), 54
PKStateField (class in localflavor.pk.models), 54
PKStateSelect (class in localflavor.pk.forms), 54
PLCountySelect (class in localflavor.pl.forms), 54
PLNationalIDCardNumberField (class in localflavor.pl.forms), 55
PLNIPField (class in localflavor.pl.forms), 54
PLPESELField (class in localflavor.pl.forms), 55
PLPostalCodeField (class in localflavor.pl.forms), 55
PLProvinceSelect (class in localflavor.pl.forms), 55
PLREGONField (class in localflavor.pl.forms), 55
prepare_value() (localflavor.au.forms.AUBusinessNumberField method), 21
prepare_value() (localflavor.generic.forms.IBANFormField method), 66
PROVINCE_CHOICES (in module localflavor.ar.ar_provinces), 20
PROVINCE_CHOICES (in module localflavor.be.be_provinces), 23
PROVINCE_CHOICES (in module localflavor.ca.ca_provinces), 26
PROVINCE_CHOICES (in module localflavor.ec.ec_provinces), 31
PROVINCE_CHOICES (in module localflavor.es.es_provinces), 33
PROVINCE_CHOICES (in module localflavor.id_.id_choices), 40
PROVINCE_CHOICES (in module localflavor.it.it_province), 43
PROVINCE_CHOICES (in module localflavor.nl.nl_provinces), 51
PROVINCE_CHOICES (in module localflavor.nz.nz_provinces), 53
PROVINCE_CHOICES (in module localflavor.tr.tr_provinces), 63
PROVINCE_CHOICES (in module localflavor.za.za_provinces), 66
PROVINCE_REGIONS (in module localflavor.it.it_province), 43
PROVINCES_NORMALIZED (in module localflavor.ca.ca_provinces), 26
PTCitizenCardNumberField (class in localflavor.pt.forms), 56
PTPhoneNumberField (class in localflavor.pt.forms), 56
PTRegionSelect (class in localflavor.pt.forms), 56
PTSocialSecurityNumberField (class in localflavor.pt.forms), 56
PTZipCodeField (class in localflavor.pt.forms), 56
PyDepartmentSelect (class in localflavor.py_.forms), 57
PyNumberedDepartmentSelect (class in localflavor.py_.forms), 57

R

REGION_CHOICES (in module localflavor.be.be_regions), 23
REGION_CHOICES (in module localflavor.cl.cl_regions), 27
REGION_CHOICES (in module localflavor.cz.cz_regions), 30
REGION_CHOICES (in module localflavor.es.es_regions), 33
REGION_CHOICES (in module localflavor.fr.fr_region), 35
REGION_CHOICES (in module localflavor.it.it_region), 43
REGION_CHOICES (in module localflavor.nz.nz_regions), 53
REGION_CHOICES (in module localflavor.pe.pe_region), 53
REGION_CHOICES (in module localflavor.pt.pt_regions), 57
REGION_CHOICES (in module localflavor.sk.sk_regions), 62
REGION_HOVEDSTADEN (in module localflavor.dk.dk_municipalities), 31
REGION_MIDTJYLLAND (in module localflavor.dk.dk_municipalities), 31
REGION_NORDJYLLAND (in module localflavor.dk.dk_municipalities), 31
REGION_PROVINCE_CHOICES (in module localflavor.it.it_region), 43
REGION_PROVINCES (in module localflavor.it.it_region), 43
REGION_SJAELLAND (in module localflavor.dk.dk_municipalities), 31
REGION_SYDDANMARK (in module localflavor.dk.dk_municipalities), 31

RFC_INCONVENIENT_WORDS (in module localflavor.mx.forms), 49
ROCIFField (class in localflavor.ro.forms), 57
ROCNPField (class in localflavor.ro.forms), 57
ROCountyField (class in localflavor.ro.forms), 58
ROCountySelect (class in localflavor.ro.forms), 58
ROIBANField (class in localflavor.ro.forms), 58
ROPhoneNumberField (class in localflavor.ro.forms), 58
ROPostalCodeField (class in localflavor.ro.forms), 58
RU_COUNTY_CHOICES (in module localflavor.ru.ru_regions), 59
RU_REGIONS_CHOICES (in module localflavor.ru.ru_regions), 59
RUAlienPassportNumberField (class in localflavor.ru.forms), 59
RUCountySelect (class in localflavor.ru.forms), 59
RUPassportNumberField (class in localflavor.ru.forms), 59
RUPostalCodeField (class in localflavor.ru.forms), 59
RURegionSelect (class in localflavor.ru.forms), 59

S

SCOTTISH_REGION_CHOICES (in module localflavor.gb.gb_regions), 36
SECountySelect (class in localflavor.se.forms), 59
SEOrganisationNumberField (class in localflavor.se.forms), 59
SEPersonalIdentityNumberField (class in localflavor.se.forms), 59
SEPostalCodeField (class in localflavor.se.forms), 60
SI_POSTALCODES (in module localflavor.si.si_postalcodes), 61
SIEMSOField (class in localflavor.si.forms), 60
SIPhoneNumberField (class in localflavor.si.forms), 61
SIPostalCodeField (class in localflavor.si.forms), 61
SIPostalCodeSelect (class in localflavor.si.forms), 61
SITaxNumberField (class in localflavor.si.forms), 61
SKDistrictSelect (class in localflavor.sk.forms), 61
SKPostalCodeField (class in localflavor.sk.forms), 61
SKRegionSelect (class in localflavor.sk.forms), 61
SOUTH_ISLAND_COUNCIL_CHOICES (in module localflavor.nz.nz_councils), 53
SplitDateTimeField (class in localflavor.generic.forms), 66
ssn_check_digit() (in module localflavor.it.util), 43
ssn_validation() (in module localflavor.it.util), 43
STATE_CHOICES (in module localflavor.at.at_states), 21
STATE_CHOICES (in module localflavor.au.au_states), 22
STATE_CHOICES (in module localflavor.br.br_states), 25
STATE_CHOICES (in module localflavor.ch.ch_states), 27
STATE_CHOICES (in module localflavor.de.de_states), 30
STATE_CHOICES (in module localflavor.in_.in_states), 42
STATE_CHOICES (in module localflavor.mx.mx_states), 50
STATE_CHOICES (in module localflavor.pk.pk_states), 54
STATE_CHOICES (in module localflavor.us.us_states), 64
STATES_NORMALIZED (in module localflavor.in_.in_states), 42
STATES_NORMALIZED (in module localflavor.us.us_states), 65

T

TNGovernorateSelect (class in localflavor.tn.forms), 62
to_python() (localflavor.au.models.AUBusinessNumberField method), 22
to_python() (localflavor.nl.models.NLZipCodeField method), 51
TRIdentificationNumberField (class in localflavor.tr.forms), 62
TRPhoneNumberField (class in localflavor.tr.forms), 62
TRPostalCodeField (class in localflavor.tr.forms), 62
TRProvinceSelect (class in localflavor.tr.forms), 62

U

UMCNField (class in localflavor.mk.forms), 47
UMCNField (class in localflavor.mk.models), 47
US_STATES (in module localflavor.us.us_states), 64
US_TERRITORIES (in module localflavor.us.us_states), 64
USPhoneNumberField (class in localflavor.us.forms), 63
USPostalCodeField (class in localflavor.us.models), 64
USPS_CHOICES (in module localflavor.us.us_states), 65
USPSSelect (class in localflavor.us.forms), 63
USSocialSecurityNumberField (class in localflavor.us.forms), 63
USSocialSecurityNumberField (class in localflavor.us.models), 64
USStateField (class in localflavor.us.forms), 63
USStateField (class in localflavor.us.models), 64
USStateSelect (class in localflavor.us.forms), 63
USZipCodeField (class in localflavor.us.forms), 63
USZipCodeField (class in localflavor.us.models), 64
UYCIField (class in localflavor.uy.forms), 65
UYDepartmentSelect (class in localflavor.uy.forms), 65

V

valid_date() (localflavor.lt.forms.LTIDCodeField method), 45
validate_id_birthday() (in module localflavor.se.utils), 60

validator (localflavor.nl.models.NLPhoneNumberField attribute), 50
validators (localflavor.au.models.AUBusinessNumberField attribute), 22
validators (localflavor.nl.models.NLSoFiNumberField attribute), 51
validators (localflavor.nl.models.NLZipCodeField attribute), 51
vat_number_check_digit() (in module localflavor.it.util), 43
vat_number_validation() (in module localflavor.it.util), 43
VOIVODESHIP_CHOICES (in module localflavor.pl.pl_voivodeships), 55

W

WALES_REGION_CHOICES (in module localflavor.gb.gb_regions), 36
widget (localflavor.fr.forms.FRDepartmentField attribute), 34
widget (localflavor.fr.forms.FRRegionField attribute), 34

Z

ZAIDField (class in localflavor.za.forms), 65
ZAPostCodeField (class in localflavor.za.forms), 65
ZAProvinceSelect (class in localflavor.za.forms), 65