

# flags\_iso3166

Rolf presents:



## Fun with Flags - A homage to The Big Bang Theory.

flags\_iso3166.py is a series of base64 encoded png images of Country's Flags and Regional Flags, with a small set of country details, capital, languages etc and standard UTC timezone information, designed to work with wxPython.  
Emoji flag unicode values are included.

They accessed via their ISO 3166 country codes

See: [https://en.wikipedia.org/wiki/List\\_of\\_ISO\\_3166\\_country\\_codes](https://en.wikipedia.org/wiki/List_of_ISO_3166_country_codes)

The images are small. They have been standardised to 23x15 pixels and are aimed at being used in Menus, BitmapComboBox, ListCtrl etc. wherever a small bitmap can be inserted, to add some clarity and va-va-voom!

The original purpose of a standardised size was to enable conformity with wx.ImageList (used with wx.ListCtrl and wx.TreeCtrl) which demands all images be a single size.

wx.ImageList is now being superceded by wx.BitmapBundle but it still makes sense to have a uniform size.

If you require larger or scaleable images, see flags\_iso3166svg, which utilises SVG images.

Developed and tested on Linux, wxPython 4.2.1 gtk3 wxWidgets 3.2.2.1

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These images are aimed at being used in Menus, BitmapComboBox, ListCtrl, TreeCtrl etc. wherever a bitmap can be inserted, to add some clarity and Va-Va-Voom, to your code.

There are currently 249 Country flags and 315 Regional flags (at last count) in flags\_iso3166.py.

Regional flags are currently for Australia, Canada, Germany, Spain, France, India, Italy, Great Britain, Japan, Russia and the USA

You simply need to import flags\_iso3166 and you will be able to access the flag images.

For those that do not want to access, or to load all the flags, there are versions by continent, that only contain countries within that continental area, namely:

flags\_iso3166\_Africa.py  
flags\_iso3166\_Americas.py  
flags\_iso3166\_Asia.py  
flags\_iso3166\_Europe.py  
flags\_iso3166\_Oceania.py  
flags\_iso3166\_NoRegions.py (is world flags but omits the regional flags)

The decision on which country belongs in which continent is based on the United Nations geoscheme:

[https://en.wikipedia.org/wiki/United\\_Nations\\_geoscheme](https://en.wikipedia.org/wiki/United_Nations_geoscheme)

Russia straddling 2 continents, is divided, roughly, by the Ural mountain range  
<= UTC+04:00 is Europe whilst > UTC+04:00 is Asia

I'll admit now, the majority of the images were originally pinched from wikipedia.org, so cheers Wiki.

It is based on the ISO 3166-1 country codes.

The images are stored under 'b64\_' and the ISO 3166-1 alpha-2 code and that code is linked to it, so:

```
b64_ES =
b'iVBORw0KGgoAAAANSUhEUgAAABcAAAAPCAMAAAA4caRkAAAABGdBTUEAALGPC/xhBQAAACBjSFJNAA
B6JgAAgIQAAPoAAACA6AAAdTAAA0pgAAA6mAAF3CculE8AAAAGVBMVEXGCx7U0Rb/
xAD6wgLk1BHhhXchRH5vQblqATXfwvKfBrSrzwtQv0vAH9vwHVmD67YRPFgE7anrbcqE3rsid4tgLW
lVG8aSd5UVrGjHPZn1Dknyj8vwHevkK9bCG7Yja0SxLdqT3rux77wgbcuSr2vQznwTbuhvqvBrsvhX/
//9KgMvKAQAAWJLR0QqU77UngAAAAAd0SU1FB+cJAgsvC8y+
+x0AAABOSURBVbjTY2CgEmDEDhiYIICZCRVAxVlY2dixiHNwcnHz8GKI8/
ELCAoJi2CIi4qJS0hKSW0Iy8jKySsoKmGIK6uoqlraKKI43I/
lQAAwI8EfW8R2sAAAAAlldEVYdGRhdGU6Y3JlYXRlADIwMjMtMDktMDJUMTE6MjA6NTUrMDA6MDBuKtP9
AAAAJXRFWHRkYXRlOm1vZGlmeQAyMDIzLTA5LTayVDEX0jIw0jU1KzAw0jAwH3drQQAAAABJR05ErkJg
gg=='
```

would be the entry for Spain's national flag.

Where the data is the PNG in base64.

Access to the Flag of Spain would be via `flags_iso3166.ES` which would provide the following properties:

- Bitmap,
- Data,
- Icon,
- Image,

and methods:

- `GetBitmap()`
- `GetData()`
- `GetIcon()`
- `GetImage()`

flags\_iso3166 also contains a list of entries called:

index

and 6 dictionaries:

- catalog,
- country,
- lookup,
- regional,
- details,
- languages,
- timezone

The index allows a simple check if an entry exists e.g.:

```
>>> if "USA" in flags_iso3166.index: True
      True
>>> if "United States of America" in flags_iso3166.index: True
      True
```

---

\*\*\* Warning: you made need to brush up on list comprehension over dictionaries  
\*\*\*

There is built in redundancy, to provide multiple ways to access the data

---

## Dictionary structures

flags_iso3166.catalog	iso2 = image catalog["ES"] = ES iso3 = image catalog["ESP"] = ES (Not regional entries) name = image catalog["Spain"] = ES
flags_iso3166.country	name = (iso2, iso3, regional(True/False)) country["Spain"] = ('ES', 'ESP', 0)
flags_iso3166.lookup	iso2 = (iso2, iso3, name, regional(True/False)) lookup["ES"] = ('ES', 'ESP', 'Spain', 0)  iso3 = (iso2, iso3, name, regional(True/False)) lookup["ESP"] = ('ES', 'ESP', 'Spain', 0)  name = (iso2, iso3, name, regional(True/False)) lookup["Spain"] = ('ES', 'ESP', 'Spain', 0)  capital = (iso2, iso3, name, regional(True/False)) lookup["Madrid Spain"] = ('ES', 'ESP', 'Spain', 0)
and rarely	altname = (iso2, iso3, name, regional(True/False))

For regional entries in the above, the iso2 entry is a concatenation of country, underscore "\_" and region code

e.g. US\_AL = United State of America Alabama and there is no iso3 code, it is blank

```
flag_iso3166.regional    regional_iso  = (region_iso, region_name,
regional(True))
```

```
flags_iso3166.regional["US_AL"] =
('US_AL', 'United States of America Alabama', 1)
```

```

flags_iso3166.regional['United States of America Alabama'] =
    ('US_AL', 'United States of America Alabama', 1)

flag_iso3166.details      iso2 = {"continent": continent name,
                                  "capital": city name,
                                  "currency": currency name",
                                  "web": country's Top-Level domain,
                                  "lang": list of language codes
                                  "tz": timezone using UTC standard
time offset,
                                  "altname": Alternate name, mainly for
Russian oblasts e.g. Severnaya Osetiya Respublika = North Ossetia
}

```

See: [https://en.wikipedia.org/wiki/Country\\_code\\_top-level\\_domain](https://en.wikipedia.org/wiki/Country_code_top-level_domain) ("web")  
[https://en.wikipedia.org/wiki/List\\_of\\_ISO\\_639-1\\_codes](https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes) ("lang")

Timezone may differ if it is a regional code or a main entry  
Where a main entry has multiple time zones, this value may be a range e.g.  
"-08:00 | -03:30" for Canada from British Columbia in the West to Newfoundland  
in the East the regional entry should contain just the timezone appropriate for  
the region.

Where a region has more than one timezone, the main one is listed e.g.  
most of British Columbia is in -08:00 whilst it's South East is in -07:00

flags\_iso3166.languages language code = language description  
There are 489 language entries

flags\_iso3166.timezone iso2 = iana timezone name  
There are 542 timezone entries

flags\_iso3166.emoji iso2 = emoji code  
Stored as a bytes object requires decode() for display

## The catalog dictionary

links the country's alpha-2 code, the alpha-3 code and the country's name to  
the PyEmbeddedImage(..)

## The country dictionary

links the country name with the alpha-2 code, the alpha-3 and a final  
country/region parameter False (0) if this is a main country or True (1) if this  
is a regional entry

## The lookup dictionary

links the alpha-2 code, the alpha-3 code and the country's name and contains a  
final country/region parameter False (0) if this is a main country or True (1)  
if this is a regional entry

It includes entries for the capital city and rarely any alternative name.  
(These are included to extend search facilities.)

## The regional dictionary

links the iso3166-2 regional code with the country region name.  
The dictionary key is the iso3166-1 alpha-2 code and the additional regional  
code, which may be 2 or 3 chars

For example the code for Andalucia, Spain is ES-AN ES for Spain and AN for

Andalucia, this is stored as ES\_AN in the catalog.

The code for England, Great Britain is GB-ENG GB for Great Britain and ENG for England, this would be stored as GB\_ENG

## The details dictionary

links the country's alpha-2 code with another dictionary of country details, namely:

- which continent it is on;
- the name of the capital;
- the name of the currency;
- the Top\_level domain code;
- timezone
- alternate name

and the codes of languages used in the country.

The language codes conform ISO 639-1 and ISO 639-3

See: [https://en.wikipedia.org/wiki/List\\_of\\_ISO\\_639-1\\_codes](https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes)  
[https://en.wikipedia.org/wiki/List\\_of\\_ISO\\_639-3\\_codes](https://en.wikipedia.org/wiki/List_of_ISO_639-3_codes)

The timezones are the iana timezone names

See: <https://www.iana.org/time-zones>

Links the iso country/regional code to the iana timezone name, or my best attempt :)

---

A full entry for Spain would look like this:

```
b64_ES =
b'iVBORw0KGgoAAAANSUhEUgAAABcAAAAPCAMAAAA4caRkAAAABGdBTUEALGPC/xhBQAAACBjSFJNAA
B6JgAAgIQAAPoAAACA6AAAAdTAAA0pgAAA6mAAAF3Ccule8AAAAGVBMVEXGCx7U0Rb/
xAD6wgLklBHNhhXchRH5vQblqATXfwvKfBrSnzjwtQv0vAH9vwHVmd67YRPFgE7anrbcqE3rsiD4tgLW
lVG8aSd5UVrGjHPZn1Dknyj8vwHevKK9bCG7Yja0SxLdqT3rux77wgbcuSr2vQznwTbuhvqvBrsvhX/
//9KgMvKAAAAAWJLR0QqU77UngAAAAAd0SU1FB+cJAgsvC8y+
+xEAAABOSURBVbjTY2CgEmDEDhiYIICZCRVAxVly2dixiHNwcnHz8GKI8/
ELCAOJi2CIi4qJS0hKSW0Iy8jKySsoKmGIK6uoqqlraKKI43I/
lQAAwI8EfW8R2sAAAAAldEVYdGRhdGU6Y3JlYXRlADIwMjMtMDktMDJUMTE6MjA6NTUrMDA6MDBuKtP9
AAAAJXRFWHRkYXRlOm1vZGlmeQAyMDIzLTA5LTayVDEx0jIw0jU1KzAw0jAwH3drQQAAAABJR05ErkJg
gg=='
ES = PyEmbeddedImage(b64_ES)
index.append("ES")
index.append("ESP")
index.append("Spain")
catalog["ES"] = ES
catalog["ESP"] = ES
catalog["Spain"] = ES
country["Spain"] = ('ES', 'ESP', 0)
lookup["ES"] = ('ES', 'ESP', 'Spain', 0)
lookup["Madrid Spain"] = ('ES', 'ESP', 'Spain', 0)
lookup["ESP"] = ('ES', 'ESP', 'Spain', 0)
lookup["Spain"] = ('ES', 'ESP', 'Spain', 0)
details["ES"] =
{"continent":"Europe","capital":"Madrid","currency":"Euro","web":".es","lang":"es-ES | ca | gl | eu | oc","tz":"+01:00","altname":""}
```

## Regional Flags

Regions are a limited effort to include the flags of the major regions of key countries included for example would be the flags of US states and the regions of Spain.

The images are stored under the ISO 3166-1 alpha-2 code and the ISO 3166-2 code, so US\_AL = PyEmbeddedImage(..)

There is no alpha-3 code so that is left blank and in both the country dictionary and missing in the regional dictionary.

Both contain a 1 (True) as the final parameter, denoting this is a regional flag

The full entry for the flag of Alabama, USA for example is this:

```
b64_US_AL =
b'iVBORw0KGgoAAAANSUhEUgAAABcAAAAPCAMAAAA4caRkAAAABGdBTUEALGPC/xhBQAAACBjSFJNAA
B6JgAAgIQAAPoAAACA6AAAAdTAAA0pgAAA6mAAA3Ccule8AAAAilBMVEWxACG7IT7qu8T///
tw8u9JkK+KkaxASLQZnr68PL9+vvbijezBia5GTfmrrjptr+6HTqyBCTVd4n9+Pnx0tjBNU/
LVWv56u367vC/L0rvzNP++/zdkJ60Cyu4FjTioa3nsry5GjizCCjYf5Dz2N3DPFXJUGfwzdP//v7gmaa1DSy0Cir+/
Pzrv8eAq3BtAAAAAWJLR0QDEQxM8gAAAAAd0SU1FB+cJAgsvDSXdXigAAACKSURBVbjTfdDrDoIwDAXgg
wdlgIoTlYsXUAHxwvu/ngWiwYTZH0v3pWu6ArAm/A17CmAGOModqKucVj1/
DiyWXw5WgF6HIDdbebaL0o2V5ElKinN/
0AKnTLL8DFyuHnsni1LkqlslZ1l00jvr+wNtPP0Xh042Wlg3n+v/
+vH+hnnG5zf917Qfwz7fENoLeQstKLAAAAAldEVYdGRhdGU6Y3JlYXRlADIwMjMtMDktMDJUMTE6Mja6
NTUrMDA6MDBuKtP9AAAAJXRFWHRkYXRlOm1vZGlmeQAyMDIzLTA5LTAYVDEEx0jIw0jU1KzAw0jAwH3dr
QQAAAABJRU5ErkJgg=='
US_AL = PyEmbeddedImage(b64_US_AL)
index.append("US_AL")
index.append("United States of America Alabama")
catalog["US_AL"] = US_AL
catalog["United States of America Alabama"] = US_AL
country["United States of America Alabama"] = ('US_AL', '', 1)
lookup["US_AL"] = ('US_AL', '', 'United States of America Alabama', 1)
lookup["Montgomery United States of America Alabama"] = ('US_AL', '', 'United States of America Alabama', 1)
lookup["United States of America Alabama"] = ('US_AL', '', 'United States of America Alabama', 1)
details["US_AL"] =
{"continent": "Americas", "capital": "Montgomery", "currency": "", "web": "", "lang": "", "tz": "-06:00", "altname": ""}
regional["US_AL"] = ('US_AL', 'United States of America Alabama', 1)
regional["United States of America Alabama"] = ('US_AL', 'United States of America Alabama', 1)
```

## Accessing the flags

Other than:

```
>>> flags_iso3166.ES
<wx.lib.embeddedimage.PyEmbeddedImage object at 0x7fd7f4a95de0>
```

Access via properties using the catalog via the iso alpha-2 code, iso alpha-3 code or the country's name:

```
>>> flags_iso3166.catalog['ES'].Bitmap
<wx._core.Bitmap object at 0x7fd7f4a2d090>
>>> flags_iso3166.catalog['ESP'].Bitmap
<wx._core.Bitmap object at 0x7fd7f4a2cdc0>
>>> flags_iso3166.catalog['Spain'].Bitmap
<wx._core.Bitmap object at 0x7fd7f4a2cee0>
```

The same is true of access via the methods:

```
>>> flags_iso3166.catalog['Spain'].GetBitmap()
<wx._core.Bitmap object at 0x7fd7f4a2d090>
>>> flags_iso3166.catalog['ES'].GetImage()
<wx._core.Image object at 0x7fd7f4a2cee0>
```

## Looking up the codes and country name

Use the lookup dictionary to get iso2, iso3, country name and if it's a main entry or a regional map e.g. ES ESP Spain 0

```
>>> flags_iso3166.lookup.get("ES")
('ES', 'ESP', 'Spain', 0)
>>> flags_iso3166.lookup.get("ESP")
('ES', 'ESP', 'Spain', 0)
>>> flags_iso3166.lookup.get("Spain")
('ES', 'ESP', 'Spain', 0)
```

# Accessing Regional flags

This also works for Regional entries (although you will notice the missing iso3 code and the 1 at the end, indicating a regional map):

```
>>> flags_iso3166.lookup.get("ES_AN")
('ES_AN', '', 'Spain Andalucia', 1)
>>> flags_iso3166.lookup.get("Spain Andalucia")
('ES_AN', '', 'Spain Andalucia', 1)
```

Access is the same:

```
>>> flags_iso3166.regional.get("ES_AN")
('ES_AN', 'Spain Andalucia', 1)
>>> flags_iso3166.regional.get("Spain Andalucia")
('ES_AN', 'Spain Andalucia', 1)

>>> flags_iso3166.ES_AN
< wx.lib.embeddedimage.PyEmbeddedImage object at 0x7f7cb21ada80>
>>> flags_iso3166.catalog['ES_AN']
<wx.lib.embeddedimage.PyEmbeddedImage object at 0x7f7cb21ada80>
>>> flags_iso3166.catalog['ES_AN'].GetBitmap()
<wx._core.Bitmap object at 0x7f7cb167c280>
>>> flags_iso3166.catalog['Spain Andalucia'].GetBitmap()
<wx._core.Bitmap object at 0x7f7cb167c310>
>>> flags_iso3166.catalog['Spain Andalucia'].GetImage()
<wx._core.Image object at 0x7f7cb167c280>
```

## Accessing Country Details

```
>>> flags_iso3166.details["ES"]
{'continent': 'Europe', 'capital': 'Madrid', 'currency': 'Euro', 'web': '.es', 'lang': 'es-ES | ca | gl | eu | oc', 'tz': '+01:00', 'altname': ''}
>>> flags_iso3166.details["ES"].get("currency")
'Euro'
>>> flags_iso3166.details["ES"].get("lang")
'es-ES | ca | gl | eu | oc'
>>> flags_iso3166.details["ES"].get("tz")
'+01:00'
```

## Accessing Language Details

```
>>> flags_iso3166.language.get('es')
['Spanish - Castilian']
>>> flags_iso3166.language.get('wa')
['Walloon']
>>> flags_iso3166.language.get('wol')
['Wolof']
>>> flags_iso3166.language.get('oc')
['Occitan (post 1500)']
```

## Accessing timezone names

The zoneinfo module was introduced with python3.9

<https://docs.python.org/3/library/zoneinfo.html>

```
>>> flags_iso3166.timezone.get('AF')
['Asia/Kabul']
>>> flags_iso3166.timezone.get('US_IL')
['America/Chicago']
>>> flags_iso3166.timezone.get('AU_NSW')
['Australia/Sydney']
```

The timezone dictionary is a clumsy attempt to tie the iso3166-1 and iso3166-2 country and region codes to the iana timezone names.

Where there is no direct link, I attempt to tie the iso3166-2 code to the nearest or most appropriate name.

I fully expect that somewhere in there, I will have made an error.

For countries with multiple timezones, that I didn't get around to subdividing, I've selected the commonest or the capital region.

Country entries that are unused, for whatever reason, have been retained but given a number as a suffix to keep them out of the way but still available for future use.

## Using timezone name

```
from datetime import datetime, timezone
from zoneinfo import ZoneInfo
zone = flags_iso3166.timezone.get('AU_NSW')
datetime.now(ZoneInfo(zone[0]))  
  
datetime.datetime(2023, 9, 11, 2, 48, 19, 153133,
tzinfo=zoneinfo.ZoneInfo(key='Australia/Sydney'))
```

Note:

The zoneinfo module does not directly provide time zone data, and instead pulls time zone information from the system time zone database or the first-party PyPI package [tzdata](#), if available. Some systems, including notably Windows systems, do not have an IANA database available, and so for projects targeting cross-platform compatibility that require time zone data, it is recommended to declare a dependency on tzdata.

<https://pypi.org/project/tzdata/>

For those having trouble with Zoneinfo i.e. those on Windows due to a difference between IANA timezones and the fact that Windows does not use IANA timezones according to this:

<https://stackoverflow.com/questions/62330675/get-local-time-zone-name-on-windows-python-3-9-zoneinfo>

Try using pytz instead i.e.

```
from datetime import datetime, timezone
import pytz
datetime.now(pytz.timezone('America/Los_Angeles')).strftime('%H:%M:%S - %d %b %Y')
```

Where:

pytz.timezone('America/Los\_Angeles')

would be replaced with:

pytz.timezone(zone[0])

See above

## Accessing emoji flags

```
emoji = flags_iso3166.emoji.get(iso2).decode()
```

emoji can then simply be used as a string like any other string

All countries have an emoji flag, very few sub.regions do except the UK, Canada and the USA.

This may change and the database has the proposed emoji unicode string for each one.

This is unicode "waving black flag" + the letter codes + the terminator 'cancel tag'.

Hopefully, if they get around to it, they will start working.

## Accessing what you're after

For clarity with many of the examples below, the import statement for flags\_iso3166 will have been:

```
import flags_iso3166 as flags
```

A list of countries excluding regions (the last entry is False (0) indicating it's not a regional entry)

```
countries = [item for item in flags.country.items() if not item[1][-1]]  
  
('Andorra', ('AD', 'AND', 0))  
('United Arab Emirates', ('AE', 'ARE', 0))  
('Afghanistan', ('AF', 'AFG', 0))  
('Antigua and Barbuda', ('AG', 'ATG', 0))  
('Anguilla', ('AI', 'AIA', 0))  
...  
...
```

A list of regions for a country: e.g. for the US

```
us_regions = [item for item in flags.regional.items() if  
item[0].startswith('US')]  
  
('US_AK', ('US_AK', 'United States of America Alaska', 1))  
('US_AL', ('US_AL', 'United States of America Alabama', 1))  
('US_AR', ('US_AR', 'United States of America Arkansas', 1))  
...  
...
```

A list of regions for a country: e.g. for the US excluding the individual iso3166-2 entries like USAK

```
us_regions = [item for item in flags.regional.items() if  
item[0].startswith('United States ')]  
  
('United States of America Alaska', ('US_AK', 'United States of America Alaska',  
1))  
('United States of America Alabama', ('US_AL', 'United States of America  
Alabama', 1))  
('United States of America Arkansas', ('US_AR', 'United States of America  
Arkansas', 1))  
...  
...
```

Alternatively you could use the country dictionary: (the last entry if True indicating it's a regional entry)

```
us_regions = [item for item in flags.country.items() if  
item[0].startswith("United States") and item[1][-1]]  
for i in us_regions: print(i)  
  
('United States of America Alaska', ('US_AK', '', 1))  
('United States of America Alabama', ('US_AL', '', 1))  
('United States of America Arkansas', ('US_AR', '', 1))  
...  
...
```

## Additional Helper Functions

flags\_iso3166.Regional\_Entries

returns a list of all entries in the country dictionary that are regional entries

So len(flags\_iso3166.Regional\_Entries) would tell you how many Regional entries there are

flags\_iso3166.Country\_Entries

returns a list of all entries in the country dictionary that are NOT regional entries

So len(flags\_iso3166.Country\_Entries) would tell you how many Countries there are

function lookupiso2(value) will return the iso2 code for any value

```
>>> flags.lookupiso2('Japan')
```

```
'JP'
```

```
>>> flags.lookupiso2('JPN')
```

```
'JP'
```

```
>>> flags.lookupiso2('JP')
```

```
'JP'
```

function lookupiso3(value) will return the iso2 code for any value

function lookupname(value) will return the country or region name for any value

function isregional(value) will return True/False for any value

function lookupbasecountry(value) will return the iso2 code for any value (if isregional returns True for example)

```
>>> import flags_iso3166 as flags
```

```
>>> flags.lookupbasecountry('United States of America Alabama')
```

```
('US', 'USA', 'United States of America', 0)
```

```
>>> flags.lookupbasecountry('US_AL')
```

```
('US', 'USA', 'United States of America', 0)
```

```
>>> flags.lookupbasecountry('JP_22')
```

```
('JP', 'JPN', 'Japan', 0)
```

```
>>> if flags.isregional('JP_17'):
```

```
    flags.lookupname('JP_17')
```

```
    flags.lookupbasecountry('JP_17')
```

```
'Japan Ishikawa'
```

```
('JP', 'JPN', 'Japan', 0)
```

## Demonstration Programs

The demonstration programs (`flagsdemo.py`, `flagsdemo2.py`, `flagsdemo3.py` and `flagsdemo4.py`) attempt to give an example of many of the methods and properties, so even if much of the above, is gobbledegook, hopefully you will see how it can be used.

Flag images are demonstrated for Menus, Comboboxes, a Button, StaticBitmaps, a ListCtrl, a TreeCtrl and SuperToolTips.

Have fun with Flags!

Dear dear, will Sheldon ever forgive me? :)

Regards,  
Rolf

[rolfofsaxony@gmx.com](mailto:rolfofsaxony@gmx.com)

As always, errors, bugs and insults, on a postcard please.

# Demonstration images

## Demo 1

flags\_iso3166

Some Countries Some Regions

Name	Bolivia	Regions	Flags
Iso2	BO	Details	Look up: ('BO', 'BOL', 'Bolivia', 0) Regional: None Country: Bolivia Emoji:  f1e7:f1f4 Emoji code: f1e7:f1f4 Continent: Americas Capital: Sucre Currency: Boliviano Web: .bo Time Zone: -04:00 UTC standard time Languages: es-BO   qu   ay  Spanish - Castilian Quechua Aymara
Iso3	BOL		
Bolivia			
X 2			

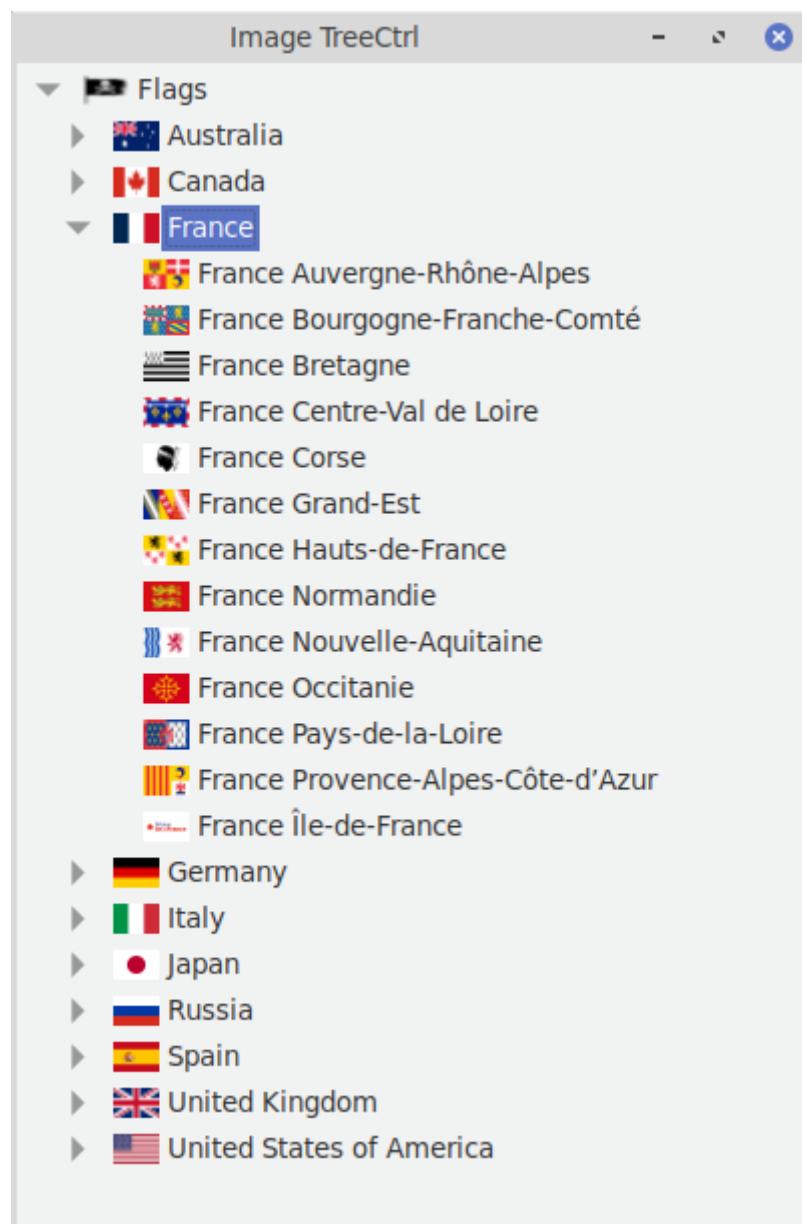
Local time: 14:09:29 - 21 Aug 2024 - America/La\_Paz: 08:09:29 - 21 Aug 2024

## Demo 2

Fun with Flags of United States of America

Country	Region	Code	Aka	Local Time
United States of America	United States of America Alaska	US_AK		04:12:15 - 21 Aug 2024
United States of America	United States of America Alabama	US_AL		07:12:15 - 21 Aug 2024
United States of America	United States of America Arkansas	US_AR		07:12:15 - 21 Aug 2024
United States of America	United States of America American Sa...	US_AS		08:12:15 - 21 Aug 2024
United States of America	United States of America Arizona	US_AZ		05:12:15 - 21 Aug 2024
United States of America	The Big Bang Theory	US_BB	Fun with Flags	05:12:15 - 21 Aug 2024
United States of America	United States of America California	US_CA		05:12:15 - 21 Aug 2024
United States of America	United States of America Colorado	US_CO		05:12:15 - 21 Aug 2024
United States of America	United States of America Connecticut	US_CT		08:12:15 - 21 Aug 2024
United States of America	United States of America District of Co...	US_DC		08:12:15 - 21 Aug 2024
United States of America	United States of America Delaware	US_DE		08:12:15 - 21 Aug 2024
United States of America	United States of America Florida	US_FL		08:12:15 - 21 Aug 2024
United States of America	United States of America Georgia	US_GA		08:12:15 - 21 Aug 2024
United States of America	United States of America Guam	US_GU		08:12:15 - 21 Aug 2024
United States of America	United States of America Hawaii	US_HI		02:12:15 - 21 Aug 2024
United States of America	United States of America Iowa	US_IA		07:12:15 - 21 Aug 2024

## Demo 3



## Demo 4

Search flags_iso3166						
Results	Country	Region	Code	Local Time	Capital	Aka
	 Belgium	 Belgium	BE	14:14:12 - 21 Aug 2024	Brussels	
	 Belarus	 Belarus	BY	15:14:12 - 21 Aug 2024	Minsk	
	 Belize	 Belize	BZ	06:14:12 - 21 Aug 2024	Belmopan	
	 United Kingdom	 United Kingdom Northern Ireland	GB_NIR	13:14:12 - 21 Aug 2024	Belfast	
	 Serbia	 Serbia	RS	14:14:12 - 21 Aug 2024	Belgrade	
	 Russia	 Russia Belgorodskaya oblast	RU_BEL	15:14:12 - 21 Aug 2024	Moscow	Belgorod