

# Package: rgeoboundaries (via r-universe)

September 13, 2024

**Title** A Client to geoBoundaries, A Political Administrative Boundaries Dataset

**Version** 1.2.9000

**Description** Client the access data from the geoBoundaries API who provides country political administrative boundaries dataset.

**License** MIT + file LICENSE

**Encoding** UTF-8

**URL** <https://github.com/wmgeolab/rgeoboundaries>

**BugReports** <https://github.com/wmgeolab/rgeoboundaries/issues>

**Depends** R (>= 4.1)

**Imports** crul (>= 1.4.0), jsonlite, sf (>= 1.0.0), hoardr, glue, memoise, countrycode (>= 1.2.0), lifecycle

**Suggests** roxygen2, knitr, rmarkdown, testthat, covr,

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**X-schema.org-applicationCategory** Data Access

**X-schema.org-keywords** geoboundaries, boundaries, gis, map, geographic, data, spatial, dataset

**Repository** <https://wmgeolab.r-universe.dev>

**RemoteUrl** <https://github.com/wmgeolab/rgeoboundaries>

**RemoteRef** HEAD

**RemoteSha** 77e6c44afa43f4d518b411160e1c8a48e31634d4

## Contents

rgeoboundaries-package	2
gb_cache	2
gb_max_adm_lvl	3
gb_metadata	4
geoboundaries	5

**Index****8**


---

rgeoboundaries-package  
*rgeoboundaries*

---

**Description**

R client to access geoBoundaries API

**Author(s)**

<mail@ahmadoudicko.com>

---

gb\_cache                    *Caching geoBoundaries downloaded files*

---

**Description**

Manage cached geoBoundaries downloaded files

**Usage**

```
gb_set_cache(path)

gb_get_cache(create = FALSE)

gb_clear_cache(force = FALSE)

gb_list_cache(full_path = FALSE)

gb_delete_from_cache(file)
```

**Arguments**

path	character; path of the directory to set
create	logical; if TRUE create missing cache
force	logical; force delete. default: FALSE
full_path	logical; if TRUE returns the full path of the file
file	Character, the file to delete

**Details**

The default cache directory is `~/ .cache/R/gb_cache`, but you can set your own path using `gb_set_cache(path)`

**Value**

the cache directory  
list of files in the cache

**Note**

This function will clear all cached files

**Examples**

```
## Not run:  
gb_cache  
## change the default cache directory  
tmp <- tempdir()  
gb_set_cache(tmp)  
  
## print current cache directory  
gb_get_cache()  
  
## List available files in the current cache directory  
gb_list_cache()  
  
l <- gb_list_cache()[1] ## get the first file  
gb_delete_from_cache(l) ## delete it  
  
gb_clear_cache() ## delete all cached files  
  
## End(Not run)
```

---

*gb\_max\_adm\_lvl*

*Get the highest administrative level available for a given country*

---

**Description**

Get the highest administrative level available for a given country

**Usage**

```
gb_max_adm_lvl(  
  country = NULL,  
  release_type = c("gbOpen", "gbHumanitarian", "gbAuthoritative")  
)
```

**Arguments**

country	character; a vector of country names or iso3 country codes.
release_type	character; This is one of gbOpen, gbHumanitarian, or gbAuthoritative. For most users, we suggest using gbOpen, as it is CC-BY 4.0 compliant, and can be used for most purposes so long as attribution is provided. gbHumanitarian files are mirrored from UN OCHA, but may have less open licensure. gbAuthoritative files are mirrored from UN SALB, and cannot be used for commerical purposes, but are verified through in-country processes. Default to gbOpen.

**Value**

a data.frame with the country names and corresponding highest administrative level

---

gb_metadata	<i>Get metadata for a country, administrative level, type of data and version</i>
-------------	---

---

**Description**

Get metadata for a country and an administrative level, type of data and version

**Usage**

```
gb_metadata(
  country = NULL,
  adm_lvl = "all",
  release_type = c("gbOpen", "gbHumanitarian", "gbAuthoritative")
)
```

**Arguments**

country	character; a vector of country names or iso 3 country codes
adm_lvl	character or integer; administrative level, adm0, adm1, adm2, adm3, adm4 or adm5. adm0 being the country. 0, 1, 2, 3, 4 or 5 can also be used.
release_type	character; This is one of gbOpen, gbHumanitarian, or gbAuthoritative. For most users, we suggest using gbOpen, as it is CC-BY 4.0 compliant, and can be used for most purposes so long as attribution is provided. gbHumanitarian files are mirrored from UN OCHA, but may have less open licensure. gbAuthoritative files are mirrored from UN SALB, and cannot be used for commerical purposes, but are verified through in-country processes. Default to gbOpen.

---

geoboundaries	<i>Get the administrative boundaries of selected countries</i>
---------------	--

---

**Description**

Access country boundaries at a specified administrative level

**Usage**

```
geoboundaries(  
  country = NULL,  
  adm_lvl = "adm0",  
  type = c("unsimplified", "simplified", "UNSIMPLIFIED", "SIMPLIFIED", "HPSCU", "HPSCGS",  
    "SSCGS", "SSCU", "CGAZ", "hpsc", "hpscgs", "sscgs", "sscu", "cgaz"),  
  release_type = c("gbOpen", "gbHumanitarian", "gbAuthoritative"),  
  quiet = TRUE,  
  overwrite = FALSE,  
  version = deprecated()  
)
```

```
gb_adm0(  
  country = NULL,  
  type = NULL,  
  release_type = NULL,  
  quiet = TRUE,  
  overwrite = FALSE,  
  version = deprecated()  
)
```

```
gb_adm1(  
  country = NULL,  
  type = NULL,  
  release_type = NULL,  
  quiet = TRUE,  
  overwrite = FALSE,  
  version = deprecated()  
)
```

```
gb_adm2(  
  country = NULL,  
  type = NULL,  
  release_type = NULL,  
  quiet = TRUE,  
  version = deprecated()  
)
```

```
gb_adm3(  
  country = NULL,  
  type = NULL,  
  release_type = NULL,  
  quiet = TRUE,  
  version = deprecated()  
)
```

```

country = NULL,
type = NULL,
release_type = NULL,
quiet = TRUE,
overwrite = FALSE,
version = deprecated()
)

```

```

gb_adm4(
country = NULL,
type = NULL,
release_type = NULL,
quiet = TRUE,
overwrite = FALSE,
version = deprecated()
)

```

```

gb_adm5(
country = NULL,
type = NULL,
release_type = NULL,
quiet = TRUE,
overwrite = FALSE,
version = deprecated()
)

```

### Arguments

country	character; a vector of country names or country ISO3. If NULL all countries will be used for adm0, adm1, adm2 where the administrative level are available
adm_lvl	character; administrative level, adm0, adm1, adm2, adm3, adm4 or adm5. adm0 being the country boundary. 0, 1, 2, 3, 4 or 5 can also be used.
type	character; One of simplified and unsimplified. Determines the type of boundary to use. Default to unsimplified.
release_type	character; This is one of gbOpen, gbHumanitarian, or gbAuthoritative. For most users, we suggest using gbOpen, as it is CC-BY 4.0 compliant, and can be used for most purposes so long as attribution is provided. gbHumanitarian files are mirrored from UN OCHA, but may have less open licensure. gbAuthoritative files are mirrored from UN SALB, and cannot be used for commerical purposes, but are verified through in-country processes. Default to gbOpen
quiet	logical; if TRUE no message while downloading and reading the data. Default to FALSE
overwrite	logical; if TRUE overwrite the files downloaded previously in the cache. Default to FALSE.
version	character; deprecated parameter.

## Details

Different types of boundaries are available:

- *unsimplified* - The premier geoBoundaries release, representing the highest precision files available for every country in the world. No standardization is performed on these files, so (for example) two countries may overlap in the case of contested boundaries.
- *simplified* - A simplified version of every file available for every country in the world. No standardization is performed on these files, so (for example) two countries may overlap in the case of contested boundaries.

The following wrappers are also available:

- *gb\_adm0* returns the country boundaries
- *gb\_adm1* if available, returns the country first administrative level boundaries
- *gb\_adm2* if available, returns the country second administrative level boundaries
- *gb\_adm3* if available, returns the country third administrative level boundaries
- *gb\_adm4* if available, returns the country fourth administrative level boundaries
- *gb\_adm5* if available, returns the country first administrative level boundaries

## Value

a sf object

## References

Runfola D, Anderson A, Baier H, Crittenden M, Dowker E, Fuhrig S, et al. (2020) geoBoundaries: A global database of political administrative boundaries. PLoS ONE 15(4): e0231866. <https://doi.org/10.1371/journal.pone.0231866>

# Index

## \* package

- rgeoboundaries-package, 2
  
- gb\_adm0 (geoboundaries), 5
- gb\_adm1 (geoboundaries), 5
- gb\_adm2 (geoboundaries), 5
- gb\_adm3 (geoboundaries), 5
- gb\_adm4 (geoboundaries), 5
- gb\_adm5 (geoboundaries), 5
- gb\_cache, 2
- gb\_clear\_cache (gb\_cache), 2
- gb\_delete\_from\_cache (gb\_cache), 2
- gb\_get\_cache (gb\_cache), 2
- gb\_list\_cache (gb\_cache), 2
- gb\_max\_adm\_lvl, 3
- gb\_metadata, 4
- gb\_set\_cache (gb\_cache), 2
- geoboundaries, 5
  
- rgeoboundaries
  - (rgeoboundaries-package), 2
- rgeoboundaries-package, 2