Package: codec (via r-universe)

September 13, 2024

Title Community Data Explorer for Cincinnati

Version 2.1.0

Description This repository serves as the definition of the CoDEC data specifications and provides helpers to create, validate, release, and read CoDEC data.

License GPL (>= 3)

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0), roxygen2, rmarkdown, dplyr, curl, glue, tibble

Remotes geomarker-io/cincy, cole-brokamp/dpkg

Config/testthat/edition 3

URL https://github.com/geomarker-io/codec, http://geomarker.io/codec/

BugReports https://github.com/geomarker-io/codec/issues

Imports rlang, stringr, purrr (>= 1.0.0), cincy (>= 1.1.0), dpkg (>= 0.5.1)

Depends R (>= 2.10)

LazyData true

Repository https://geomarker-io.r-universe.dev

RemoteUrl https://github.com/geomarker-io/codec

RemoteRef HEAD

RemoteSha c127a69c0a742948637d3ae1808b6f2d95acdc39

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`as_codec_dpkg` *as_codec_dpkg*

Description

Convert a tibble to a data package (dpkg) object in R while checking it against CoDEC data specifications:

Usage

```
as_codec_dpkg(
  x,
  name,
  version,
  title = character(),
  description = character(),
  homepage = character()
)
```

Arguments

`x`	data.frame or tibble meeting CoDEC data specifications above
`name`	see `dpkg::as_dpkg()`
`version`	see `dpkg::as_dpkg()`
`title`	see `dpkg::as_dpkg()`
`description`	see `dpkg::as_dpkg()`
`homepage`	see `dpkg::as_dpkg()`

Details

1. The data must include a census tract identifier column (i.e., `census_tract_id_2000`, `census_tract_id_2010`, or `census_tract_id_2020`). The column must contain 11-digit GEOID identifiers for every census tract in Hamilton County, OH.
2. The data includes a year column (`year`), an integer year representing the vintage of the data (e.g. `2021`). The data can optionally include a month column (`month`), an integer month of the year.

Data must be structured in a tidy format such that each row is an observation for a specific census tract at a specific year (and month).

Value

a dpkg object

codec_colors *CoDEC colors*

Description

CoDEC colors

Usage

```
codec_colors(n = NULL)
```

Arguments

n	a numeric vector of color numbers or character vector of color names; if NULL returns named vector of available colors

Examples

```
plot(1:8, rep(1, 8), col = codec_colors(1:8),
  pch = 19, cex = 10, axes = FALSE, xlab = "", ylab = "")
text(1:8, rep(1.1, 8), labels = names(codec_colors()))
```

codec_dpkg_s3_put *Put a dpkg into the public CoDEC S3 bucket*

Description

The AWS CLI tool must be installed and authenticated to write to `s3://geomarker-io/codec_data`. The resulting data package will be available publicly.

Usage

```
codec_dpkg_s3_put(x)
```

Arguments

x	a data package (dpkg) object, ideally created with `as_codec_dpkg()` to ensure the data meets CoDEC specifications

Value

character string URI of uploaded resource

Examples

```
## Not run:
# use aws command line to login interactively via profile sso account"
system2("aws", c("sso", "login", "--profile", "geomarker-io"))
# make sure to set AWS_PROFILE so the AWS CLI tool knows to use it by default"
Sys.setenv("AWS_PROFILE" = "geomarker-io")

## End(Not run)
```

`get_codec_dpkg` *Read a dpkg from the public CoDEC repository into R*

Description

Public data packages are downloaded from `gh://geomarker-io/codec/` using `dpkg::stow()` to cache a local copy in the user's data directory.

Usage

```
get_codec_dpkg(codec_dpkg, overwrite = FALSE)
```

Arguments

`codec_dpkg`	name of CoDEC dpkg
`overwrite`	logical; re-download the remote file even though a local file with the same name exists?

Value

a CoDEC data package (see `dpkg::as_dpkg()`)

Examples

```
get_codec_dpkg("drivetime-v0.2.2")
```

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