Package 'planscorer'

September 24, 2024

Title Score Redistricting Plans with 'PlanScore'

Version 0.0.2

Description Provides access to the 'PlanScore' Application Programming Interface
(<<https://github.com/PlanScore/PlanScore/blob/main/API.md>>) for scoring redistricting
plans. Allows for upload of plans from block assignment files and shape files.
For shapes in memory, such as from 'sf' or 'redist', it processes them to save
and upload. Includes tools for tidying responses and saving output from the
website.

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Encoding UTF-8

RoxygenNote 7.3.2.9000

Imports cli, curl, dplyr, fs, httr2, jsonlite, purrr, readr, rlang,
sf, stringr, tibble, tidyr, webshot2

URL <http://christophertkenny.com/planscorer/>,

<https://github.com/christopherkenny/planscorer>

BugReports <https://github.com/christopherkenny/planscorer/issues>

Suggests httptest2, spelling, testthat (>= 3.0.0)

Config/testthat/edition 3

Language en-US

NeedsCompilation no

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Repository CRAN

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key   *Check or Get PlanScore API Key*

Description

Check or Get PlanScore API Key

Usage

```
ps_has_key()

ps_get_key()
```

Value

logical if has, key invisibly if get

Examples

```
ps_has_key()
```

---

ps_capture   *Capture PlanScore Graphs*

Description

Capture PlanScore Graphs

Usage

```
ps_capture(link, path)
```

Arguments

link	plan_url output from ps_upload() functions
path	path to save copy of graphs in, likely ending in .png

Value

path to screenshot

Examples

```
# often times out
url <- 'https://planscore.org/plan.html?20221127T213653.168557156Z'
tf <- tempfile(fileext = '.png')
ps_capture(url, path = tf)
```

---

ps_ingest *Ingest PlanScore Output*

Description

Ingest PlanScore Output

Usage

```
ps_ingest(link)
```

Arguments

link	index url output from ps_upload() functions

Value

tibble with district and plan level data

Examples

```
url <- 'https://planscore.s3.amazonaws.com/uploads/20221127T213653.168557156Z/index.json'
ps_ingest(url)
```

---

ps_model_versions   *List Model Versions*

Description

List Model Versions

Usage

```
ps_model_versions()
```

Value

tibble of model versions

Examples

```
ps_model_versions()
```

---

ps_save   *Save PlanScore Output*

Description

Save PlanScore Output

Usage

```
ps_save(link, path, json = TRUE)
```

Arguments

link	index url output from `ps_upload()` functions
path	path to save copy of data in, likely ending in `.json` if `json = TRUE` or `.tsv` if `json = FALSE`.
json	should the file be saved as `.json` (TRUE) or `.tsv` (FALSE). `json = TRUE` is slower but contains more information.

Value

path to `json` file

Examples

```
url <- 'https://planscore.s3.amazonaws.com/uploads/20221127T213653.168557156Z/index.json'
tf <- tempfile(fileext = '.json')
try({ # relies on internet resource
  ps_save(url, tf)
})
```

---

ps_set_key   *Add Entry to Renviron*

Description

Adds PlanScore API key to .Renviron.

Usage

```
ps_set_key(key, overwrite = FALSE, install = FALSE)
```

Arguments

key	Character. API key to add to add.
overwrite	Defaults to FALSE. Boolean. Should existing PLANSCORE_KEY in Renviron be overwritten?
install	Defaults to FALSE. Boolean. Should this be added '~/.Renviron' file?

Value

key, invisibly

Examples

```
## Not run:
set_planscore_key('1234')

## End(Not run)
```

---

ps_supported_states   *List Currently Supported States*

Description

List Currently Supported States

Usage

```
ps_supported_states()
```

Value

tibble of supported states

Examples

```
ps_supported_states()
```

---

upload   *Upload to PlanScore*

Description

Upload to PlanScore

Usage

```
ps_upload_file(
  file,
  description = NULL,
  incumbents = NULL,
  model_version = NULL,
  library_metadata = NULL,
  temporary = TRUE
)

ps_upload_redist(map, plans, draw, ...)

ps_upload_shp(shp, ...)
```

Arguments

`file`	file to upload, one of a geojson, block assignment file, or zipped shape file
`description`	text for plan description
`incumbents`	Incumbent party, one of `'D'` (Democrat), `'R'` (Republican), or `'O'` (Open) for each district. Assumes `'O'` if none is provided.#'
`model_version`	character model version to use. Available options are listed by [ps_model_versions()](#).
`library_metadata`	
	Any additional data to be passed through for possible later use. For advanced use: Should likely be left `NULL`.
`temporary`	Should a temporary PlanScore upload be used? Default is TRUE.
`map`	a `redist_map` object
`plans`	a `redist_plans` object
`draw`	the draw to use from `plans`
`...`	arguments to pass on to ps_upload_file()
`shp`	an `sf` shape to upload, where each entry is a district

Value

list of links to index and plan, on success

Examples

```
# Requires API Key
file <- system.file('extdata/null-plan-incumbency.geojson', package = 'planscorer')
ps_upload_file(file)
```

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