Package: planscorer (via r-universe)

October 16, 2026

Title Score Redistricting Plans with 'PlanScore'

Version 0.0.5

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

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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

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Repository https://christopherkenny.r-universe.dev

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Contents

key 2
ps_capture 2
ps_ingest 3
ps_model_versions 4
ps_save 4
ps_set_key 5
ps_supported_states 6
upload 6

Index **8**

`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, max_tries = 4)
```

Arguments

link	index url output from ps_upload() functions
max_tries	number of times to try to read json if link is a json file. Default is 4. This is necessary because the json file may not be immediately available after upload, and may return an error if read too soon.

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, description = 'A test plan')
```

Index

∗ **info**
    ps_model_versions, 4
    ps_supported_states, 6
∗ **key**
    key, 2
    ps_set_key, 5
∗ **results**
    ps_capture, 2
    ps_ingest, 3
    ps_save, 4
∗ **upload**
    upload, 6

key, 2

ps_capture, 2
ps_get_key *(*key*)*, 2
ps_has_key *(*key*)*, 2
ps_ingest, 3
ps_model_versions, 4
ps_model_versions(), *7*
ps_save, 4
ps_set_key, 5
ps_supported_states, 6
ps_upload_file *(*upload*)*, 6
ps_upload_redist *(*upload*)*, 6
ps_upload_shp *(*upload*)*, 6

upload, 6