## Package 'lehdr'

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Type Package

Title Grab Longitudinal Employer-Household Dynamics (LEHD) Flat Files

Version 1.0.1

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**Description** Designed to query Longitudinal Employer-Household Dynamics (LEHD) workplace/residential association and origin-destination flat files and optionally aggregate Census block-level data to block group, tract, county, or state. Data comes from the LODES FTP server <a href="https://lehd.ces.census.gov/data/lodes/LODES7/">https://lehd.ces.census.gov/data/lodes/LODES7/</a>>.

**Depends** R (>= 3.3.0)

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**Encoding** UTF-8

Imports readr, rlang, stringr, glue, httr, dplyr, rappdirs

Suggests testthat (>= 3.0.0), knitr, rmarkdown, devtools, pacman

VignetteBuilder knitr

RoxygenNote 7.1.2

URL https://github.com/jamgreen/lehdr/

BugReports https://github.com/jamgreen/lehdr/issues/

Config/testthat/edition 3

NeedsCompilation no

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**Repository** CRAN

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aggregate\_lodes\_df Aggregate data to a certain level dictated by inputs. Internal function.

#### Description

Helper function for lehdr which aggregates block geographies based on the block id.

### Usage

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aggregate\_lodes\_df(lehdr\_df, geoid\_to, aggname)

#### Arguments

lehdr_df	Data frame (tibble) to be aggregated
geoid_to	The number of characters to do the aggregation on from the geoid
aggname	What the level is called, like "tract" etc

grab_crosswalk	Download and load LODES geographic crosswalk into a data frame
	(tibble)

#### Description

Download LODES geographic crosswalk

#### Usage

```
grab_crosswalk(
  state,
  download_dir = file.path(rappdirs::user_cache_dir(appname = "lehdr"))
)
```

#### Arguments

state	US state abbreviation in lower case, can be a vector of states.
download_dir	Directory where lodes table will be downloaded.

#### grab\_lodes

#### Value

a dataframe (tibble) geographic crosswalk at the block level

#### Examples

```
## Not run:
# Download and load current geographic crosswalk for Alaska
alaska_xwalk <- grab_crosswalk('AK')
# Download and load current geographic crosswalk for New England
new_england_xwalk <- grab_crosswalk(c('CT', 'RI', 'MA', 'VT', 'NH', 'ME'))</pre>
```

## End(Not run)

grab\_lodes

Download and load LODES data into a data frame (tibble)

#### Description

Download LODES OD, RAC, and WAC tables

#### Usage

#### Arguments

state	US state abbreviation in lower case, can be a vector of states.
year	year of the lodes data, can be a vector of years.
lodes_type	table type, values can be origin-destination ("od"), residential association ("rac"), or workplace association ("wac"). od files give a home and destination census block for workers. Residential files give job totals of worker home census blocks and workplace files give job totals of worker iob census blocks.

Jobtype: "JT00" for all jobs, "JT01" for Primary Jobs, "JT02" for All Private Jobs, "JT03" for Private Primary jobs, "JT04" for All Federal jobs, "JT05" for Federal Primary jobs
Segment of the workforce: "S000" total number of jobs for workers, "SA01" number of jobs for workers aged 29 or younger, "SA02" number of jobs for workers aged 30-54,"SA03" number of jobs for workers 55 and older, "SE01" number of jobs with earnings \$1,250/month or less, "SE02" number of jobs with earnings \$1,251 to \$3,333/month, "SE03" number of jobs with earnings greater than \$3,333/month, "SI01" number of jobs in Goods Producing industry sectors, "SI02" number of jobs in All Other Services industry sectors
Aggregate to a geography other than Census Block (default). Values can be "bg" for block group, "tract", "county", or "state".
Part of the state file, can have values of "main" or "aux" in OD files. Using "main" includes workers with their workplace and residence in the state. Using "aux" includes workers with residences out of state and workplace in the state of interest
Directory where lodes table will be downloaded.
Boolean indicating whether or not to check whether or not the file had already been downloaded. Defaults to FALSE. Setting to TRUE will allow lehdr to reuse existing files that were already downloaded.

#### Value

a dataframe (tibble) of block or tract level LODES files

#### Examples

```
## Not run:
# download and load 2014 block level O-D data for Oregon
blk_df_or_od <- grab_lodes(state = 'or', year = 2014, lodes_type = "od", job_type = "JT01",</pre>
                          segment = "SA01", state_part = "main")
\# download and load 2014 O-D data for Oregon and aggregate
# to the tract level
trt_df_or_od <- grab_lodes(state = 'or', year = 2014, lodes_type = "od", job_type = "JT01",</pre>
                          segment = "SA01", state_part = "main", agg_geo = "tract")
# download and load 2014 RAC data for Oregon and aggregate
# to the tract level
trt_df_or_rac <- grab_lodes(state = 'or', year = 2014, lodes_type = "rac", job_type = "JT01",</pre>
                           segment = "SA01", agg_geo = "tract")
# download and load 2014 WAC data for Oregon and aggregate
# to the tract level
trt_df_or_wac <- grab_lodes(state = 'or', year = 2014, lodes_type = "wac", job_type = "JT01",</pre>
                           segment = "SA01", agg_geo = "tract")
```

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## End(Not run)

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