Package 'readabs'

August 8, 2023

```
Type Package
Title Download and Tidy Time Series Data from the Australian Bureau of
Version 0.4.14
Maintainer Matt Cowgill <mattcowgill@gmail.com>
Description Downloads, imports, and tidies time series data from the
      Australian Bureau of Statistics <a href="https://www.abs.gov.au/">https://www.abs.gov.au/>.
Date 2023-08-03
License MIT + file LICENSE
Encoding UTF-8
Depends R (>= 3.5)
Imports readxl (>= 1.2.0), dplyr (>= 0.8.0), hutils (>= 1.5.0), fst,
      purrr, tidyr (>= 1.0.0), stringi, tools, glue, httr, rvest,
      xml2, rlang, labelled
URL https://github.com/mattcowgill/readabs
BugReports https://github.com/mattcowgill/readabs/issues
RoxygenNote 7.2.3
VignetteBuilder knitr
Suggests knitr, rmarkdown, markdown, testthat (>= 2.1.0), ggplot2
NeedsCompilation no
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Repository CRAN
Date/Publication 2023-08-08 07:50:02 UTC
```

2 abs_api

R topics documented:

	abs_api	2
	check_latest_date	4
	download_abs_data_cube	6
	extract_abs_sheets	7
	read_abs	8
	read_abs_data	10
	read_abs_local	11
	read_abs_metadata	12
	read_abs_url	12
	read_awe	13
	read_cpi	15
	read_job_mobility	16
	read_lfs_grossflows	16
	read_payrolls	17
	scrape_abs_catalogues	19
	search_catalogues	19
	search_files	20
	separate_series	20
	show_available_catalogues	21
	show_available_files	22
	tidy_abs	23
	tidy_abs_list	24
Index		25

abs_api

ABS.Stat API functions

Description

[Experimental]

These experimental functions provide a minimal interface to the ABS.Stat API.

More information on the ABS.Stat API can be found on the ABS website

Note that an ABS.Stat 'dataflow' is like a table. A 'datastructure' contains metadata that describes the variables in the dataflow. To load data from the ABS.Stat API, you need to either:

- Using read_api_dataflows() you can get information on the available dataflows
- Using read_api_datastructure() you can get metadata relating to a specific dataflow, including the variables available in each dataflow
- Using read_api() you can get the data belonging to a given dataflow.
- Using read_api_url() you can get the data for a given query url generated using the online data viewer.

abs_api 3

Usage

```
read_api_dataflows()
read_api(
  id,
  datakey = NULL,
  start_period = NULL,
  end_period = NULL,
  version = NULL
)
read_api_url(url)
read_api_datastructure(id)
```

Arguments

id A dataflow id. Use read_api_dataflows() to obtain a dataframe listing avail-

able dataflows.

datakey A named list matching filter variables to codes. All variables with a position

in the datastructure are filterable. Use read_api_datastructure() to obtain information about the variables in a dataflow and the values of that variable.

start_period The start period (used to filter by time). This is inclusive. The supported formats

are:

• "YYYY" for annual data (e.g. 2019)

• "YYYY-S[1-2]" for semi-annual data (e.g. 2019-S1)

• "YYYY-Q[1-4]" for quarterly data (e.g. 2019-Q1)

• "YYYY-MM[01-12]" for monthly data (e.g. 2019-01)

• "YYYY-W[01-53]" for weekly data (e.g. 2019-W01)

• "YYYY-MM-DD" for daily and business data (e.g. 2019-01-01)

end_period The end period (used to filter on time). This is inclusive. The supported formats

are the same as for start_period

version A version number, if unspecified the latest version of the dataset is used. Use

read_api_dataflows() to see available dataflow versions.

url A complete query url

Details

Note that the API enforces a reasonably strict gateway timeout policy. This means that, if you're trying to access a reasonably large dataset, you will need to filter it on the server side using the datakey. You might like to review the data manually via the ABS website to figure out what subset of the data you require.

Note, furthermore, that the datastructure contains a complete codebook for the variables appearing in the relevant dataflow. Since some variables are shared across multiple dataflows, this means that the datastructure corresponding to a particular id may contain values for a given variable which are not in the corresponding dataflow.

4 check_latest_date

Value

A data.frame

```
## Not run:
# List available dataflows
read_api_dataflows()
# Say we want the "Estimated resident population, Country of birth"
# data flow, with the id ERP_COB. We load the data like this:
# Get full data set for a given flow by providing id and start period:
read_api("ERP_COB", start_period = 2020)
# In some cases, loading a whole dataflow (as above) won't work.
# For eg., the `ABS_C16_T10_SA` dataflow is very large,
# so the gateway will timeout if we try to collect the full data set
try(read_api("ABS_C16_T10_SA"))
# We need to filter the dataflow before downlaoding it.
# To figure out how to filter it, we get metadata ('datastructure').
ds <- read_api_datastructure("ABS_C16_T10_SA")</pre>
# The `asgs_2016` code for 'Australia' is 0
ds[ds$var == "asgs_2016" & ds$label == "Australia", ]
# The `sex_abs` code for 'Persons' (i.e. all persons) is 3
ds[ds$var == "sex_abs" & ds$label == "Persons", ]
# So we have:
x \leftarrow read\_api("ABS\_C16\_T10\_SA", datakey = list(asgs\_2016 = 0, sex\_abs = 3))
unique(x["asgs_2016"]) # Confirming only 'Australia' level records came through
unique(x["sex_abs"]) # Confirming only 'Persons' level records came through
# Please note however that not all values in the datastructure necessarily
# appear in the data. You get 404s in this case
ds[ds$var == "regiontype" & ds$label == "Destination Zones", ]
try(read_api("ABS_C16_T10_SA", datakey = list(regiontype = "DZN")))
# If you already have a query url, then use `read_api_url()`
wpi_url <- "https://api.data.abs.gov.au/data/ABS,WPI,1.0.0/"</pre>
read_api_url(wpi_url)
## End(Not run)
```

check_latest_date 5

Description

This function returns the most recent observation date for a specified ABS time series catalogue number (as a whole), individual tables, or series IDs.

Usage

```
check_latest_date(cat_no = NULL, tables = "all", series_id = NULL)
```

Arguments

cat_no	ABS catalogue number, as a string, including the extension. For example, "6202.0".
tables	numeric. Time series tables in cat_no`` to download and extract. Default is "all", which will blesto download and import specific tables(s) - eg.tables = lortables = $c(1, 5)$.
series_id	(optional) character. Supply an ABS unique time series identifier (such as "A2325807L") to get only that series. This is an alternative to specifying cat_no.

Details

Where the individual time series in your request have multiple dates, only the most recent will be returned.

Value

Date vector of length one. Date corresponds to the most recent observation date for any of the time series in the table(s) requested. observation date for any of the time series in the table(s) requested.

```
## Not run:
# Check a whole catalogue number; return the latest release date for any
# time series in the number

check_latest_date("6345.0")

# Return latest release date for a table within a catalogue number - note
# the function will return the release date
# of the most-recently-updated series within the tables
check_latest_date("6345.0", tables = 1)

# Or for multiple tables - note the function will return the release date
# of the most-recently-updated series within the tables
check_latest_date("6345.0", tables = c("1", "5a"))

# Or for an individual time series
check_latest_date(series_id = "A2713849C")

## End(Not run)
```

download_abs_data_cube

Experimental helper function to download ABS data cubes that are not compatible with read_abs.

Description

[Experimental] download_abs_data_cube() downloads the latest ABS data cubes based on the catalogue name (from the website url) and cube. The function downloads the file to disk.

Unlike read_abs(), this function doesn't import or tidy the data. Convenience functions are provided to import and tidy key data cubes; see ?read_payrolls() and ?read_lfs_grossflows().

Usage

```
download_abs_data_cube(
  catalogue_string,
  cube,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir())
)
```

Arguments

catalogue_string

ABS catalogue name as a string from the ABS website. For example, Labour Force, Australia, Detailed is "labour-force-australia-detailed". The possible catalogues can be obtained using the helper function show_available_catalogues();

or search these catalogues using search_catalogues(),

cube character. A character string that is either the complete filename or (uniquely) in

the filename of the data cube you want to download, e.g. "EQ09". The available filenames can be obtained using the helper function get_available_filenames()

path Local directory in which downloaded files should be stored. By default, path

takes the value set in the environment variable "R_READABS_PATH". If this variable is not set, any files downloaded will be stored in a temporary directory

(tempdir()). See Details below for more information.

Details

download_abs_data_cube() downloads an Excel spreadsheet from the ABS.

The file need to be saved somewhere on your disk. This local directory can be controlled using the path argument to read_abs(). If the path argument is not set, read_abs() will store the files in a directory set in the "R_READABS_PATH" environment variable. If this variable isn't set, files will be saved in a temporary directory.

To check the value of the "R_READABS_PATH" variable, run Sys.getenv("R_READABS_PATH"). You can set the value of this variable for a single session using Sys.setenv(R_READABS_PATH = <path>). If you would like to change this variable for all future R sessions, edit your .Renviron file and add R_READABS_PATH = <path> line. The easiest way to edit this file is using usethis::edit_r_environ().

The filepath is returned invisibly which enables piping to unzip() or readx1::read_excel.

extract_abs_sheets 7

See Also

Other data cube functions: search_catalogues(), show_available_catalogues(), show_available_files()

Examples

```
## Not run:
download_abs_data_cube(
   catalogue_string = "labour-force-australia-detailed",
   cube = "EQ09"
)
## End(Not run)
```

extract_abs_sheets

Extract data sheets from an ABS timeseries workbook saved locally as an Excel file.

Description

Note that this function will not tidy the data for you. Use read_abs_local()to import and tidy data from local ABS time series spreadsheets or read_abs() to download, import and tidy ABS time series.

Usage

```
extract_abs_sheets(
  filename,
  table_title = NULL,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir())
)
```

Arguments

filename Filename for an ABS time series spreadsheet (as string)

table_title String giving the full title of the ABS table, such as "Table 1. Employed persons,

Australia"

path Local directory in which an ABS time series is stored. Default is Sys.getenv("R_READABS_PATH",

unset = tempdir()).

8 read_abs

read_abs

Download, extract, and tidy ABS time series spreadsheets

Description

[Stable]

read_abs() downloads ABS time series spreadsheets, then extracts the data from those spreadsheets, then tidies the data. The result is a single data frame (tibble) containing tidied data.

Usage

```
read_abs(
  cat_no = NULL,
  tables = "all",
  series_id = NULL,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir()),
 metadata = TRUE,
  show_progress_bars = TRUE,
  retain_files = TRUE,
  check_local = TRUE,
  release_date = "latest"
)
read_abs_series(series_id, ...)
```

Arguments

tables

cat no	ABS catalogue	number, as a	string, in	ncluding the	extension.	For example,
Cat_IIO	ADS Catalogue	mumber, as a	sumg, m	nciuding the	CATCHSIOH.	TOI CAAIII

"6202.0".

blesto download and import specific tables(s) - eg.tables = 1 ortables

= c(1, 5).

(optional) character. Supply an ABS unique time series identifier (such as "A2325807L") series_id

to get only that series. This is an alternative to specifying cat_no.

path Local directory in which downloaded ABS time series spreadsheets should be

stored. By default, path takes the value set in the environment variable "R_READABS_PATH".

numeric. Time series tables in cat_no`` to download and extract. Default is "all", which will

If this variable is not set, any files downloaded by read abs() will be stored in a temporary directory (tempdir()). See Details below for more information.

logical. If TRUE (the default), a tidy data frame including ABS metadata (series metadata

name, table name, etc.) is included in the output. If FALSE, metadata is dropped.

show_progress_bars

TRUE by default. If set to FALSE, progress bars will not be shown when ABS

spreadsheets are downloading.

retain_files when TRUE (the default), the spreadsheets downloaded from the ABS website

will be saved in the directory specified with path. If set to FALSE, the files will

be stored in a temporary directory.

read_abs 9

```
check_local If TRUE, the default, local fst files are used, if present.

release_date Either "latest" or a string coercible to a date, such as "2022-02-01". If "latest", the latest release of the requested data will be returned. If a date, (eg. "2022-02-01") read_abs() will attempt to download the data from that month's release. See Details.

... Arguments to read_abs_series() are passed to read_abs().
```

Details

read_abs_series() is a wrapper around read_abs(), with series_id as the first argument.

read_abs() downloads spreadsheet(s) from the ABS containing time series data. These files need to be saved somewhere on your disk. This local directory can be controlled using the path argument to read_abs(). If the path argument is not set, read_abs() will store the files in a directory set in the "R_READABS_PATH" environment variable. If this variable isn't set, files will be saved in a temporary directory.

To check the value of the "R_READABS_PATH" variable, run Sys.getenv("R_READABS_PATH"). You can set the value of this variable for a single session using Sys.setenv(R_READABS_PATH = <path>). If you would like to change this variable for all future R sessions, edit your .Renviron file and add R_READABS_PATH = <path> line. The easiest way to edit this file is using usethis::edit_r_environ().

The release_date argument allows you to download table(s) other than the latest release. This is useful for examining revisions to time series, or for obtaining the version of series that were available on a given date. Note that you cannot supply more than one date to release_date. Note also that any dates prior to mid-2019 (the exact date varies by series) will fail.

Value

A data frame (tibble) containing the tidied data from the ABS time series table(s).

```
# Download and tidy all time series spreadsheets
# from the Wage Price Index (6345.0)
## Not run:
wpi <- read_abs("6345.0")

## End(Not run)

# Download table 1 from the Wage Price Index
## Not run:
wpi_t1 <- read_abs("6345.0", tables = "1")

## End(Not run)

# Or table 1 as in the Sep 2019 release of the WPI:
## Not run:
wpi_t1_sep2019 <- read_abs("6345.0", tables = "1", release_date = "2019-09-01")

## End(Not run)</pre>
```

10 read_abs_data

```
# Or tables 1 and 2a from the WPI
## Not run:
wpi_t1_t2a <- read_abs("6345.0", tables = c("1", "2a"))
## End(Not run)

# Get two specific time series, based on their time series IDs
## Not run:
cpi <- read_abs(series_id = c("A2325806K", "A2325807L"))

## End(Not run)

# Get series IDs using the `read_abs_series()` wrapper function
## Not run:
cpi <- read_abs_series(c("A2325806K", "A2325807L"))

## End(Not run)</pre>
```

read_abs_data

Extracts ABS time series data from local Excel spreadsheets and converts to long format.

Description

read_abs_data() is soft deprecated and will be removed in a future version. Please use read_abs_local() to import and tidy locally-stored ABS time series spreadsheets, or read_abs() to download, import, and tidy time series spreadsheets from the ABS website.

Usage

```
read_abs_data(path, sheet)
```

Arguments

path Filepath to Excel spreadsheet.

sheet Sheet name or number.

Value

Long-format dataframe

read_abs_local 11

read_abs_local	Read and tidy locally-saved ABS time series spreadsheet(s)

Description

If you need to download and tidy time series data from the ABS, use read_abs(). read_abs_local() imports and tidies data from ABS time series spreadsheets that are already saved to your local drive.

Usage

```
read_abs_local(
  cat_no = NULL,
  filenames = NULL,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir()),
  use_fst = TRUE,
  metadata = TRUE
)
```

Arguments

cat_no	character; a single catalogue number such as "6202.0". When cat_no is specified, all local files in path corresponding to the specified catalogue number will be imported. For example, if you run read_abs_local("6202.0"), it will look in the 6202.0 sub-folder of path and attempt to load any .xls and .xlsx files in that location. If cat_no'` is specified, filenames' will be ignored.
filenames	character vector of at least one filename of a locally-stored ABS time series spreadsheet. For example, "6202001.xls" or c("6202001.xls", "6202005.xls"). Ignored if a value is supplied to cat_no. If filenames is blank and cat_no is blank, read_abs_local() will attempt to read all .xls and .xlsx files in the directory specified with path.
path	path to local directory containing ABS time series file(s). Default is Sys.getenv("R_READABS_PATH", unset = tempdir()). If nothing is specified in filenames or cat_no, read_abs_local() will attempt to read all .xls and .xlsx files in the directory specified with path.
use_fst	logical. If TRUE (the default) then, if an fst file of the tidy data frame has already been saved in path, it is read immediately.
metadata	logical. If TRUE (the default), a tidy data frame including ABS metadata (series name, table name, etc.) is included in the output. If FALSE, metadata is dropped.

Details

Unlike read_abs(), the table_title column in the data frame returned by read_abs_local() is blank. If you require table_title, please use read_abs() instead.

read_abs_url

Examples

```
# Load and tidy two specified files from the "data/ABS" subdirectory
# of your working directory
## Not run:
lfs <- read_abs_local(c("6202001.xls", "6202005.xls"))
## End(Not run)</pre>
```

read_abs_metadata

Extracts ABS series metadata directly from Excel spreadsheets and converts to long-form.

Description

Extracts ABS series metadata directly from Excel spreadsheets and converts to long-form.

Usage

```
read_abs_metadata(path, sheet)
```

Arguments

path Filepath to Excel spreadsheet.

sheet Sheet name or number.

Value

Long-form dataframe

read_abs_url

Download and import an ABS time series spreadsheet from a given URL

Description

Download and import an ABS time series spreadsheet from a given URL

Usage

```
read_abs_url(
  url,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir()),
  show_progress_bars = TRUE,
  ...
)
```

read_awe

Arguments

url Character vector of url(s) to ABS time series spreadsheet(s).

path Local directory in which downloaded ABS time series spreadsheets should be stored. By default, path takes the value set in the environment variable "R_READABS_PATH". If this variable is not set, any files downloaded by read_abs() will be stored in a temporary directory (tempdir()). See ?read_abs() for more.

show_progress_bars

TRUE by default. If set to FALSE, progress bars will not be shown when ABS spreadsheets are downloading.

Additional arguments passed to read_abs_local().

Details

If you have a specific URL to the time series spreadsheet you wish to download, read_abs_url() will download, import and tidy it. This is useful for older vintages of data, or discontinued data.

Examples

```
## Not run:
url <- paste0(
   "https://www.abs.gov.au/statistics/labour/",
   "employment-and-unemployment/labour-force-australia/aug-2022/6202001.xlsx"
)
read_abs_url(url)
## End(Not run)</pre>
```

read_awe

read_awe

Description

Convenience function to obtain wage levels from ABS 6302.0, Average Weekly Earnings, Australia.

Usage

```
read_awe(
  wage_measure = c("awote", "ftawe", "awe"),
  sex = c("persons", "males", "females"),
  sector = c("total", "private", "public"),
  state = c("all", "nsw", "vic", "qld", "sa", "wa", "tas", "nt", "act"),
  na.rm = FALSE,
  path = Sys.getenv("R_READABS_PATH", unset = tempdir()),
  show_progress_bars = FALSE,
  check_local = FALSE
)
```

14 read_awe

Arguments

Character of length 1. Must be one of: wage_measure · awote Average weekly ordinary time earnings; also known as Full-time adult ordinary time earnings • ftawe Full-time adult total earnings • awe Average weekly total earnings of all employees Character of length 1. Must be one of: persons, males, or females. sex Character of length 1. Must be one of: total, private, or public. Note that sector you cannot get sector-by-state data; if state is not all then sector must be total. Character of length 1. Must be one of: all, nsw, vic, qld, sa, wa, nt, or act. state Note that you cannot get sector-by-state data; if sector is not total then state must be all. na.rm Logical. FALSE by default. If FALSE, a consistent quarterly series is returned, with NA values for quarters in which there is no data. If TRUE, only dates with data are included in the returned data frame. path See ?read_abs show_progress_bars See ?read_abs

Details

check_local

See ?read_abs

The latest AWE data is available using read_abs(cat_no = "6302.0", tables = 2). However, this time series only goes back to 2012, when the ABS switched from quarterly to biannual collection and release of the AWE data. The read_awe() function assembles on time series back to November 1983 quarter; it is quarterly to 2012 and biannual from then. Note that the data returned with this function is consistently quarterly; any quarters for which there are no observations are recorded as NA unless na.rm = TRUE.

Value

A tbl_df with four columns: date, sex, wage_measure and value. The data is nominal and seasonally adjusted.

```
## Not run:
read_awe("awote", "persons")
## End(Not run)
```

read_cpi 15

read_cpi	Download a tidy tibble containing the Consumer Price Index from the ABS

Description

read_cpi() uses the read_abs() function to download, import, and tidy the Consumer Price Index from the ABS. It returns a tibble containing two columns: the date and the CPI index value that corresponds to that date. This makes joining the CPI to another dataframe easy. read_cpi() returns the original (ie. not seasonally adjusted) all groups CPI for Australia. If you want the analytical series (eg. seasonally adjusted CPI, or trimmed mean CPI), you can use read_abs().

Usage

```
read_cpi(
  path = Sys.getenv("R_READABS_PATH", unset = tempdir()),
  show_progress_bars = TRUE,
  check_local = FALSE,
  retain_files = FALSE
)
```

Arguments

path character; default is "data/ABS". Only used if retain_files is set to TRUE. Local

directory in which to save downloaded ABS time series spreadsheets.

show_progress_bars

logical; TRUE by default. If set to FALSE, progress bars will not be shown

when ABS spreadsheets are downloading.

check_local logical; FALSE by default. See ?read_abs.

retain_files logical; FALSE by default. When TRUE, the spreadsheets downloaded from the

ABS website will be saved in the directory specified with 'path'.

```
# Create a tibble called 'cpi' that contains the CPI index
# numbers for each quarter

cpi <- read_cpi()

# This tibble can now be joined to another to help streamline the process of # deflating nominal values.</pre>
```

16 read_lfs_grossflows

read_job_mobility

Download and tidy ABS Job Mobility tables

Description

Import a tidy tibble of ABS Job Mobility data

Usage

```
read_job_mobility(
  tables = "all",
  path = Sys.getenv("R_READABS_PATH", unset = tempdir())
)
```

Arguments

tables Either "all" (the default) to import all tables, or a vector of table numbers, such

as 1 or c(2, 4).

path Local directory in which downloaded ABS time series spreadsheets should be

stored. By default, 'path' takes the value set in the environment variable "R_READABS_PATH".

If this variable is not set, any files downloaded by read_abs() will be stored in a

temporary directory (tempdir()).

Examples

```
## Not run:
# Get all tables from the ABS Job Mobility series
read_job_mobility()

# Get tables 1 and 2
read_job_mobility(c(1, 2))

## End(Not run)
```

read_lfs_grossflows

Download, import and tidy 'gross flows' data cube from the monthly ABS Labour Force survey.

Description

This convenience function downloads, imports and tidies the 'gross flows' data cube from the monthly ABS Labour Force survey. The gross flows data cube (GM1) shows estimates of the number of people who transitioned from one labour force status to another between two months.

read_payrolls 17

Usage

```
read_lfs_grossflows(
  weights = c("current", "previous"),
  path = Sys.getenv("R_READABS_PATH", unset = tempdir())
)
```

Arguments

weights

either "current" or "previous". If "current", figures will use the current month's Labour Force survey weights; if "previous", the previous month's

weights are used.

path

Local directory in which downloaded files should be stored. By default, 'path' takes the value set in the environment variable "R_READABS_PATH". If this variable is not set, any files downloaded will be stored in a temporary directory (tempdir()). See Details in ?read_abs for more information.

Value

A tibble containing data cube GM1 from the monthly Labour Force survey.

Examples

```
## Not run:
read_lfs_grossflows()
## End(Not run)
```

read_payrolls

Download and tidy ABS payroll jobs and wages data

Description

Import a tidy tibble of ABS Weekly Payrolls data.

Usage

```
read_payrolls(
  series = c("industry_jobs", "industry_wages", "sa4_jobs", "sa3_jobs",
    "subindustry_jobs", "empsize_jobs", "gccsa_jobs", "sex_age_jobs"),
  path = Sys.getenv("R_READABS_PATH", unset = tempdir())
)
```

18 read_payrolls

Arguments

series

Character. Must be one of:

- "industry_jobs" Payroll jobs by industry division, state, sex, and age group (Table 4)
- "industry_wages" Total wages by industry division, state, sex, and age group (Table 4)
- "sa4_jobs" Payroll jobs by statistical area 4 (SA4) and state (Table 5)
- "sa3_jobs Payroll jobs by statistical area 4 (SA4), statistical area 3 (SA3), and state (Table 5)
- "subindustry_jobs" Payroll jobs by industry sub-division and industry division (Table 6)
- "empsize_jobs" Payroll jobs by size of employer (number of employees) and state (Table 7)
- "gccsa_jobs" Payroll jobs by Greater Capital City Statistical Area (Table 5)
- "sex age jobs Payroll jobs by sex and age (Table 8)

The default is "industry_jobs".

path

Local directory in which downloaded ABS time series spreadsheets should be stored. By default, path takes the value set in the environment variable "R_READABS_PATH". If this variable is not set, any files downloaded by read_abs() will be stored in a temporary directory (tempdir()).

Details

The ABS 'Weekly Payroll Jobs and Wages in Australia' dataset is very useful to analysts of the Australian labour market. It draws upon data collected by the Australian Taxation Office as part of its Single-Touch Payroll initiative and supplements the monthly Labour Force Survey. Unfortunately, the data as published by the ABS (1) is not in a standard time series spreadsheet; and (2) is messy in various ways that make it hard to read in R. This convenience function uses download_abs_data_cube() to import the payrolls data, and then tidies it up.

Value

A tidy (long) tbl_df. The number of columns differs based on the series.

```
## Not run:
# Fetch payroll jobs by industry and state (the default, "industry_jobs")
read_payrolls()
# Payroll jobs by employer size
read_payrolls("empsize_jobs")
## End(Not run)
```

scrape_abs_catalogues 19

scrape_abs_catalogues Helper function for download_abs_data_cube to scrape the available catalogues from the ABS website.

Description

This function downloads a new version of the lookup table used by show_available_catalogues.

Usage

```
scrape_abs_catalogues()
```

Value

A tibble containing the catalogues and how they are organised on the ABS website.

search_catalogues

Search for ABS catalogues that match a string

Description

[Experimental] Helper function to use with download_abs_data_cube().

download_abs_data_cube() requires that you specify a catalogue. search_catalogues() helps you find the catalogue you want, by searching for a given string in the catalogue names, product title, and broad topic.

Usage

```
search_catalogues(string, refresh = FALSE)
```

Arguments

string Character. A word or phrase you want to search for, such as "labour" or "union".

Not case sensitive.

refresh Logical. FALSE by default. If TRUE, will re-scrape the ABS website to ensure

that the list of catalogues is up-to-date.

Value

A data frame (tibble) containing the topic (heading), product title (sub_heading), catalogue (catalogue) and URL (URL) of any catalogues that match the provided string.

See Also

Other data cube functions: download_abs_data_cube(), show_available_catalogues(), show_available_files()

20 separate_series

Examples

```
search_catalogues("labour")
```

search_files

Search for a file within an ABS catalogue

Description

Search for a file within an ABS catalogue

Usage

```
search_files(string, catalogue, refresh = FALSE)
```

Arguments

string String to search for among filenames in a catalogue

catalogue Name of catalogue

refresh logical; FALSE by default. When TRUE, will re-scrape the list of files within the

catalogue.

Examples

```
## Not run:
search_files("GM1", "labour-force-australia")
## End(Not run)
```

separate_series

Separate the series column in a tidy ABS time series data frame

Description

Separate the 'series' column in a data frame (tibble) downloaded using read_abs() into multiple columns using the ";" separator.

Usage

```
separate_series(
  data,
  column_names = NULL,
  remove_totals = FALSE,
  remove_nas = FALSE
)
```

Arguments

data A data frame (tibble) containing tidied data from the ABS time series table(s).

column_names (optional) character vector. Supply a vector of column names, such as c("group_name",

"variable", "gender"). If not supplied, columns will be named "series_1" etc.

remove_totals logical. FALSE by default. If set to TRUE, any series rows that contain the word

"total" will be removed.

remove_nas locical. FALSE by default. If set to TRUE, any rows containining an NA in at

least one of the separated series columns will be removed.

Value

A data frame (tibble) containing the tidied data from the ABS time series table(s).

Examples

```
## Not run:
wpi <- read_abs("6345.0", 1) %>%
    separate_series()
## End(Not run)
```

show_available_catalogues

Helper function for download_abs_data_cube to show the available catalogues.

Description

[Experimental]

This function lists the possible catalogues that are available on the ABS website. These catalogues must be specified as a string as an argument to download_abs_data_cube.

Usage

```
show_available_catalogues(selected_heading = NULL, refresh = FALSE)
```

Arguments

selected_heading

optional character string specifying the heading on the ABS statistics webpage.

e.g. "Earnings and work hours"

refresh logical; FALSE by default. If FALSE, an internal table of the available ABS cata-

logues is used. If TRUE, this table is refreshed from the ABS website.

22 show_available_files

Value

a character vector of catalogues.

See Also

Other data cube functions: download_abs_data_cube(), search_catalogues(), show_available_files()

Examples

```
show_available_catalogues("Earnings and work hours")
```

Description

[Experimental] To be used in conjunction with download_abs_data_cube().

This function lists the possible files that are available in a catalogue. The filename (or an unambiguous part of the filename) must be specified as a string as an argument to download_abs_data_cube.

Usage

```
show_available_files(catalogue_string, refresh = FALSE)
get_available_files(catalogue_string, refresh = FALSE)
```

Arguments

catalogue_string

character string specifying the catalogue, e.g. "labour-force-australia-detailed". You can use show_available_catalogues() see all the possible catalogues, or search_catalogues() to find catalogues that contain a given string.

refresh

logical; FALSE by default. If FALSE, an internal table of the available ABS catalogues is used. If TRUE, this table is refreshed from the ABS website.

Details

```
get_available_files() is an alias for show_available_files().
```

Value

A tibble containing the title of the file, the filename and the complete url.

See Also

```
Other data cube functions: download_abs_data_cube(), search_catalogues(), show_available_catalogues() Other data cube functions: download_abs_data_cube(), search_catalogues(), show_available_catalogues()
```

tidy_abs 23

Examples

```
## Not run:
show_available_files("labour-force-australia-detailed")
## End(Not run)
```

tidy_abs

Tidy ABS time series data.

Description

Tidy ABS time series data.

Usage

```
tidy_abs(df, metadata = TRUE)
```

Arguments

df A data frame containing ABS time series data that has been extracted using

extract_abs_sheets.

metadata logical. If TRUE (the default), a tidy data frame including ABS metadata (series

name, table name, etc.) is included in the output. If FALSE, metadata is dropped.

Value

data frame (tibble) in long format.

```
# First extract the data from the local spreadsheet
## Not run:
wpi <- extract_abs_sheets("634501.xls")

## End(Not run)

# Then tidy the data extracted from the spreadsheet. Note that
# \code{extract_abs_sheets()} returns a list of data frames, so we need to
# subset the list.
## Not run:
tidy_wpi <- tidy_abs(wpi[[1]])

## End(Not run)</pre>
```

24 tidy_abs_list

riay mumpic dately ames by 1125 time series data contained in a tist.	tidy_abs_list	Tidy multiple dataframes of ABS time series data contained in a list.
---	---------------	---

Description

Tidy multiple dataframes of ABS time series data contained in a list.

Usage

```
tidy_abs_list(list_of_dfs, metadata = TRUE)
```

Arguments

list_of_dfs A list of dataframes containing extracted ABS time series data.

metadata logical. If TRUE (the default), a tidy data frame including ABS metadata (series

name, table name, etc.) is included in the output. If FALSE, metadata is dropped.

Index

```
* data cube functions
    download_abs_data_cube, 6
    search_catalogues, 19
    show_available_catalogues, 21
    show_available_files, 22
abs_api, 2
check_latest_date, 4
download_abs_data_cube, 6, 19, 22
extract_abs_sheets, 7
get_available_files
        (show_available_files), 22
read_abs, 8
read_abs_data, 10
read_abs_local, 11
read_abs_metadata, 12
read_abs_series (read_abs), 8
read_abs_url, 12
read_api (abs_api), 2
read_api_dataflows (abs_api), 2
read_api_datastructure (abs_api), 2
read_api_url (abs_api), 2
read_awe, 13
read_cpi, 15
read_job_mobility, 16
read_lfs_grossflows, 16
read_payrolls, 17
scrape_abs_catalogues, 19
search_catalogues, 7, 19, 22
search_files, 20
separate_series, 20
show_available_catalogues, 7, 19, 21, 22
show_available_files, 7, 19, 22, 22
tidy_abs, 23
tidy_abs_list, 24
```