

Package ‘readabs’

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Type Package

Title Download and Tidy Time Series Data from the Australian Bureau of Statistics

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Description Downloads, imports, and tidies time series data from the Australian Bureau of Statistics <<https://www.abs.gov.au/>>.

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R topics documented:

check_latest_date	2
download_abs_data_cube	3
extract_abs_sheets	5
read_abs	5
read_abs_data	8
read_abs_local	8
read_abs_metadata	9
read_abs_url	10
read_awe	11
read_cpi	12
read_job_mobility	13
read_lfs_grossflows	14
read_payrolls	15
scrape_abs_catalogues	16
search_catalogues	16
search_files	17
separate_series	18
show_available_catalogues	19
show_available_files	19
tidy_abs	20
tidy_abs_list	21

Index	22
--------------	-----------

check_latest_date	<i>Get date of most recent observation(s) in ABS time series</i>
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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 read all time series in 'cat_no'. Specify 'tables' to download and import specific tables(s) - eg. 'tables = 1' or 'tables = 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.

Examples

```
## 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

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.

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 <code>show_available_catalogues()</code> ; or search these catalogues using <code>search_catalogues()</code> ,
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 <code>get_available_filenames()</code>
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 (<code>tempdir()</code>). See Details below for more information.

Details

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()`.

'`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 `readxl::read_excel`.

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	<i>Extract data sheets from an ABS timeseries workbook saved locally as an Excel file.</i>
--------------------	--------------------------------------------------------------------------------------------

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 <code>Sys.getenv("R_READABS_PATH", unset = tempdir())</code> .

read_abs	<i>Download, extract, and tidy ABS time series spreadsheets</i>
----------	-----------------------------------------------------------------

Description

`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_progressBars = TRUE,
  retain_files = TRUE,
  check_local = TRUE,
```

```

    release_date = "latest"
  )

read_abs_series(series_id, ...)

```

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 read all time series in 'cat_no'. Specify 'tables' to download and import specific tables(s) - eg. 'tables = 1' or 'tables = 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'.
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 Details below for more information.
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.
show_progressBars	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.
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).

Examples

```
# 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)

# 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)
```

read_abs_data	<i>Extracts ABS time series data from local Excel spreadsheets and converts to long format.</i>
---------------	-------------------------------------------------------------------------------------------------

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	<i>Read and tidy locally-saved ABS time series spreadsheet(s)</i>
----------------	-------------------------------------------------------------------

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.

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)
```

read_abs_metadata	<i>Extracts ABS series metadata directly from Excel spreadsheets and converts to long-form.</i>
-------------------	-------------------------------------------------------------------------------------------------

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	<i>Download and import an ABS time series spreadsheet from a given URL</i>
--------------	----------------------------------------------------------------------------

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_progressBars = TRUE,
  ...
)
```

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_progressBars	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)
```

read_awe	<i>read_awe</i>
----------	-----------------

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_progressBars = FALSE,
  check_local = FALSE
)
```

Arguments

wage_measure	Character of length 1. Must be one of: <ul style="list-style-type: none"> • ‘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
sex	Character of length 1. Must be one of: ‘persons’, ‘males’, or ‘females’.
sector	Character of length 1. Must be one of: ‘total’, ‘private’, or ‘public’. Note that you cannot get sector-by-state data; if ‘state’ is not ‘all’ then ‘sector’ must be ‘total’.
state	Character of length 1. Must be one of: ‘all’, ‘nsw’, ‘vic’, ‘qld’, ‘sa’, ‘wa’, ‘nt’, or ‘act’. 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_progressBars See ‘?read_abs’
 check_local See ‘?read_abs’

Details

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.

Examples

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

## End(Not run)
```

read_cpi	<i>Download a tidy tibble containing the Consumer Price Index from the ABS</i>
----------	--------------------------------------------------------------------------------

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_progressBars = 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'.

Examples

```
# 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.
```

read_job_mobility	<i>Download and tidy ABS Job Mobility tables</i>
-------------------	--------------------------------------------------

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	<i>Download, import and tidy 'gross flows' data cube from the monthly ABS Labour Force survey.</i>
---------------------	----------------------------------------------------------------------------------------------------

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.

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	<i>Download and tidy ABS payroll jobs and wages data</i>
---------------	----------------------------------------------------------

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())
)
```

Arguments

series	<p>Character. Must be one of:</p> <ul style="list-style-type: none"> • "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) <p>The default is "industry_jobs".</p>
path	<p>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()).</p>

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'.

Examples

```
## 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 *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

'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\(\)](#)

Examples

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

search_files	<i>Search for a file within an ABS catalogue</i>
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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	<i>Separate the series column in a tidy ABS time series data frame</i>
-----------------	------------------------------------------------------------------------

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

<code>data</code>	A data frame (tibble) containing tidied data from the ABS time series table(s).
<code>column_names</code>	(optional) character vector. Supply a vector of column names, such as <code>c("group_name", "variable", "gender")</code> . If not supplied, columns will be named "series_1" etc.
<code>remove_totals</code>	logical. FALSE by default. If set to TRUE, any series rows that contain the word "total" will be removed.
<code>remove_nas</code>	logical. FALSE by default. If set to TRUE, any rows containing 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

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

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")
```

`show_available_files` *Helper function to show the files available in a particular catalogue number.*

Description

To be used in conjunction with `get_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 <code>show_available_catalogues()</code> see all the possible catalogues, or <code>search_catalogues()</code> 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

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`. `'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\(\)](#)

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 <code>extract_abs_sheets</code> .
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.

Examples

```
# 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)
```

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, 3
- search_catalogues, 16
- show_available_catalogues, 19
- show_available_files, 19

check_latest_date, 2

download_abs_data_cube, 3, 17, 19, 20

extract_abs_sheets, 5

get_available_files
(show_available_files), 19

read_abs, 5

read_abs_data, 8

read_abs_local, 8

read_abs_metadata, 9

read_abs_series (read_abs), 5

read_abs_url, 10

read_awe, 11

read_cpi, 12

read_job_mobility, 13

read_lfs_grossflows, 14

read_payrolls, 15

scrape_abs_catalogues, 16

search_catalogues, 4, 16, 19, 20

search_files, 17

separate_series, 18

show_available_catalogues, 4, 17, 19, 20

show_available_files, 4, 17, 19, 19

tidy_abs, 20

tidy_abs_list, 21