

Package ‘GetDFPData’

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Title Reading Annual Financial Reports from Bovespa's DFP, FRE and FCA System

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Description

Reads annual financial reports including assets, liabilities, dividends history, stockholder composition and much more from Bovespa's DFP, FRE and FCA systems <http://www.b3.com.br/pt_br/produtos-e-servicos/negociacao/renda-variavel/empresas-listadas.htm>.

These are web based interfaces for all financial reports of companies traded at Bovespa. The package is specially designed for large scale data importation, keeping a tabular (long) structure for easier processing.

Depends R (>= 3.3.0)

Imports stringr, XML, dplyr, readr, reshape2, tibble, xlsx, stats, curl, lubridate, crayon

ByteCompile true

License GPL-2

BugReports <https://github.com/msperlin/GetDFPData/issues>

URL <https://github.com/msperlin/GetDFPData/>

LazyData false

RoxygenNote 7.1.1

Suggests knitr, rmarkdown, testthat, ggplot2

VignetteBuilder knitr

NeedsCompilation no

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fix.fct	<i>Fix NULL values in dataframe</i>
---------	-------------------------------------

Description

Fix NULL values in dataframe

Usage

```
fix.fct(x, type.info = "character", format.date = "%Y-%m-%d")
```

Arguments

x	Am object, possibly NULL
type.info	Type of object
format.date	Format of data, as string

Value

A single object

Examples

```
x <- NULL
x2 <- fix.fct(x)
```

gdfpd.convert.to.wide	<i>Converts a dataframe from gdfpd_GetDFPDData to the wide format</i>
-----------------------	---

Description

Converts a dataframe from gdfpd_GetDFPDData to the wide format

Usage

```
gdfpd.convert.to.wide(data.in, data.in.cols = "original")
```

Arguments

data.in	Data frame with financial information
data.in.cols	Which data to go in rows values ('original' or 'inflation adjusted')

Value

A dataframe in the wide format

Examples

```
# get example data from RData file
my.f <- system.file('extdata/Example_DFP_Report_Petrobras.RData', package = 'GetDFPData')
load(my.f)

df.assets <- df.reports$fr.assets[[1]]
df.assets.wide <- gdfpd.convert.to.wide(df.assets)
```

gdfpd.download.file	<i>Downalods files from the internet</i>
---------------------	--

Description

Downalods files from the internet

Usage

```
gdfpd.download.file(dl.link, dest.file, max.dl.tries)
```

Arguments

dl.link	Link to file
dest.file	= Destination, as local file
max.dl.tries	Maximum number of attempts for downloading files

Value

Nothing

Examples

```
my.url <- paste0('http://www.rad.cvm.gov.br/enetconsulta/',
                 'frmDownloadDocumento.aspx?CodigoInstituicao=2',
                 '&NumeroSequencialDocumento=46133')

## Not run: # keep CHECK fast
dl.status <- gdfpd.download.file(my.url, 'tempfile.zip', 10)

## End(Not run)
```

`gdfpd.export.DFP.data` *Export tibble to an excel or csv (zipped) file*

Description

Export information from `gdfpd_GetDFPDData()` to an excel file or csv. In the csv case, all tables are exported as csv files and zipped in a single zip file.

Usage

```
gdfpd.export.DFP.data(
  df.reports,
  base.file.name = paste0("GetDFPDData_Export_", Sys.Date()),
  type.export = "xlsx"
)
```

Arguments

`df.reports` Tibble with financial information (output of `gdfpd.GetDFPDData`)

`base.file.name` The basename of excel file (make sure you dont include the file extension)

`type.export` The extension of the desired format: 'xlsx' (default) or 'csv'

Value

TRUE, if successfull (invisible)

Examples

```
# get example data from RData file
my.f <- system.file('extdata/Example_DFP_Report_Petrobras.RData', package = 'GetDFPDData')
load(my.f)

## Not run: # dontrun: keep cran check time short
gdfpd.export.DFP.data(df.reports, base.file.name = 'MyExcelFile', format.data = 'wide')

## End(Not run)
```

`gdfpd.fix.DFP.dataframes`

Fix dataframe for version issues and inflation measures (internal)

Description

Fix dataframe for version issues and inflation measures (internal)

Usage

```
gdfpd.fix.DFP.dataframes(df.in, inflation.index, df.inflation, max.levels = 3)
```

Arguments

<code>df.in</code>	A dataframe with financial statements
<code>inflation.index</code>	Sets the inflation index to use for finding inflation adjusted values of all reports. Possible values: 'dollar' (default) or 'IPCA', the brazilian main inflation index. When using 'IPCA', the base date is set as the last date found in the DFP dataset.
<code>df.inflation</code>	Dataframe with inflation data
<code>max.levels</code>	Sets the maximum number of levels of accounting items in financial reports (default = 3)

Value

The fixed data.frame

Examples

```
#'
# get example data from RData file
my.f <- system.file('extdata/Example_DFP_Report_Petrobras.RData', package = 'GetDFPData')
load(my.f)

df.assets <- df.reports$fr.assets[[1]]
df.inflation <- gdfpd.get.inflation.data('dollar', do.cache = FALSE)

df.assets.fixed <- gdfpd.fix.DFP.dataframes(df.assets,
                                           inflation.index = 'dollar',
                                           df.inflation = df.inflation)
```

```
gdfpd.get.bovespa.data
```

Reads information for a company from B3 site

Description

Given a CVM code, this function scrapes information from the company page.

Usage

```
gdfpd.get.bovespa.data(my.id)
```

Arguments

<code>my.id</code>	A CVM id
--------------------	----------

Value

A list with several dataframes

Examples

```
## Not run: # keep cran check fast
l.info.PETR <- gdfpd.get.dovespa.data(my.id = 9512)
str(l.info.PETR)

## End(Not run)
```

```
gdfpd.get.files.from.bovespa
```

Fetches ALL new files from Bovespa

Description

Fetches ALL new files from Bovespa

Usage

```
gdfpd.get.files.from.bovespa(my.id)
```

Arguments

<code>my.id</code>	Company's ID
--------------------	--------------

Value

A dataframe with several information about files

Examples

```
## Not run:
df.files <- gdfpd.get.files.from.bovespa(9512)

## End(Not run)
```

```
gdfpd.get.inflation.data
```

Downloads and read inflation data from github

Description

Inflation data is available at git repo 'msperlin/GetITRData_auxiliary'

Usage

```
gdfpd.get.inflation.data(inflation.index, do.cache)
```

Arguments

inflation.index	Sets the inflation index to use for finding inflation adjusted values of all reports. Possible values: 'dollar' (default) or 'IPCA', the brazilian main inflation index. When using 'IPCA', the base date is set as the last date found in the DFP dataset.
do.cache	Logical for controlling to whether to use a cache system or not. Default = TRUE

Value

A dataframe with inflation data

Examples

```
## Not run: # keep cran check fast
df.inflation <- gdfpd.get.inflation.data('IPCA')
str(df.inflation)

## End(Not run)
```

```
gdfpd.get.info.companies
```

Reads up to date information about Bovespa companies from a github file

Description

A csv file with information about available companies, file links and time periods is read from github. This file is manually updated by the author. When run for the first time in a R session, a .RDATA file containing the output of the function is saved for caching.

Usage

```
gdfpd.get.info.companies(
  type.data = "companies_files",
  cache.folder = "DFP Cache Folder"
)
```

Arguments

<code>type.data</code>	A string that sets the type of information to be returned ('companies' or 'companies_files'). If 'companies', it will return a dataframe with several information about companies, but without download links.
<code>cache.folder</code>	Folder to cache (save) all processed information. Default = <code>file.path(getwd(), 'DFP Cache Folder')</code>

Value

A dataframe with several information about Bovespa companies

Examples

```
## Not run: # keep cran check fast
df.info <- gdfpd.get.info.companies()
str(df.info)

## End(Not run)
```

<code>gdfpd.GetDFPDData</code>	<i>Downloads and reads financial reports from B3's DFP/FRE/FCA system</i>
--------------------------------	---

Description

Annual data for financial reports and corporate events are downloaded from B3 for a combination of companies and time period. This function gathers data into a single tibble object and organizes it in a tabular/long format.

Usage

```
gdfpd.GetDFPDData(
  name.companies,
  first.date = Sys.Date() - 12 * 30,
  last.date = Sys.Date(),
  selected.data = "DFP|FRE|FCA",
  inflation.index = "dollar",
  max.levels = 3,
  folder.out = tempdir(),
  do.cache = TRUE,
```

```

    cache.folder = "DFP Cache Folder",
    fetch.new.files = FALSE,
    max.dl.tries = 10
  )

```

Arguments

<code>name.companies</code>	Official names of companies to get financial reports (e.g. 'ELETROPAULO METROPOLITANA EL.S.PAULO S.A'). Names of companies can be found using function <code>gdfpd.search.company('nametolookfor')</code> or <code>gdfpd.get.info.companies('companies')</code>
<code>first.date</code>	First date (YYYY-MM-DD) to get data. Character or Date. E.g. <code>first.date = '2010-01-01'</code> .
<code>last.date</code>	Last date (YYYY-MM-DD) to get data. Character or Date. E.g. <code>last.date = '2017-01-01'</code> .
<code>selected.data</code>	Symbols for the selection of datasets: 'DFPIFRE FCA', 'DFPIFRE', 'FRE FCA', 'DFPIFCA', 'DFP', 'FRE', 'FCA'. Default = 'DFPIFRE FCA'
<code>inflation.index</code>	Sets the inflation index to use for finding inflation adjusted values of all reports. Possible values: 'dollar' (default) or 'IPCA', the brazilian main inflation index. When using 'IPCA', the base date is set as the last date found in the DFP dataset.
<code>max.levels</code>	Sets the maximum number of levels of accounting items in financial reports (default = 3)
<code>folder.out</code>	Folder where to download and manipulate the zip files. Default = <code>tempdir()</code>
<code>do.cache</code>	Logical for controlling to whether to use a cache system or not. Default = TRUE
<code>cache.folder</code>	Folder to cache (save) all processed information. Default = <code>file.path(getwd(), 'DFP Cache Folder')</code>
<code>fetch.new.files</code>	Logical. Should the function search for new files/data in Bovespa? (default = FALSE)
<code>max.dl.tries</code>	Maximum number of attempts for downloading files

Details

The easiest way to get started with `gdfpd.GetDFPDData` is looking for the official name of traded companies using function `gdfpd.search.company('nametolookfor')`. Alternatively, you can use function `gdfpd.get.info.companies('companies')` to import a dataframe with information for all available companies and time periods.

Value

A tibble object with all gathered financial statements, with each company as a row

Examples

```

## Not run: #dontrun: keep cran check time short
name.companies <- 'ELETROPAULO METROPOLITANA EL.S.PAULO S.A'
first.date <- '2005-01-01'

```

```
last.date <- '2006-01-01'

df.statements <- gdfpd.GetDFPDData(name.companies = name.companies,
                                   first.date = first.date,
                                   last.date = last.date)

## End(Not run)
```

gdfpd.read.dfp.zip.file

Reads a single zip file downloaded from Bovespa

Description

Reads a single zip file downloaded from Bovespa

Usage

```
gdfpd.read.dfp.zip.file(my.zip.file, folder.to.unzip = tempdir(), id.type)
```

Arguments

my.zip.file	Full path to zip file
folder.to.unzip	Folder to unzip files (default = tempdir())
id.type	The type of file structure ('after 2011' or 'before 2011')

Value

A list with several dataframes containing financial statements

Examples

```
my.f <- system.file('extdata/9512_PETR_2002-12-31.zip', package = 'GetDFPDData')

#my.l <- gdfpd.read.dfp.zip.file(my.f, id.type = 'before 2011')
#print(my.l)
```

```
gdfpd.read.dfp.zip.file.type.1
```

Reads folder for zip file post 2011 (internal)

Description

Reads folder for zip file post 2011 (internal)

Usage

```
gdfpd.read.dfp.zip.file.type.1(rnd.folder.name, folder.to.unzip = tempdir())
```

Arguments

`rnd.folder.name`
Folder where unzipped files are available

`folder.to.unzip`
Folder to unzip files (default = tempdir())

Value

A list with financial statements

Examples

```
# no example (this functions not used directly)
```

```
gdfpd.read.dfp.zip.file.type.2
```

Reads folder for zip file pre 2011 (internal)

Description

Reads folder for zip file pre 2011 (internal)

Usage

```
gdfpd.read.dfp.zip.file.type.2(rnd.folder.name, folder.to.unzip = tempdir())
```

Arguments

`rnd.folder.name`
Folder where unzipped files are available

`folder.to.unzip`
Folder to unzip files (default = tempdir())

Value

A list with financial statements

Examples

```
# no example (this functions not used directly)
```

```
gdfpd.read.fca.zip.file
```

Reads a single FCA zip file downloaded from Bovespa

Description

Reads a single FCA zip file downloaded from Bovespa

Usage

```
gdfpd.read.fca.zip.file(my.zip.file, folder.to.unzip = tempdir())
```

Arguments

<code>my.zip.file</code>	Full path to zip file
<code>folder.to.unzip</code>	Folder to unzip files, default = tempdir()

Value

A list with several dataframes containing financial statements

Examples

```
my.f <- system.file('extdata/FCA_9512_PETR_2015-12-31.zip', package = 'GetDFPDData')  
  
my.l <- gdfpd.read.fca.zip.file(my.f)  
print(my.l)
```

`gdfpd.read.fre.zip.file`*Reads a single FRE zip file downloaded from Bovespa*

Description

Reads a single FRE zip file downloaded from Bovespa

Usage

```
gdfpd.read.fre.zip.file(my.zip.file, folder.to.unzip = tempdir())
```

Arguments

`my.zip.file` Full path to zip file
`folder.to.unzip` Folder to unzip files (default = `tempdir()`)

Value

A list with several dataframes containing financial statements

Examples

```
my.f <- system.file('extdata/FRE_6629_HERC_2010-12-31.zip', package = 'GetDFPDData')  
  
my.l <- gdfpd.read.fre.zip.file(my.f)  
print(my.l)
```

`gdfpd.read.fwf.file` *Reads FWF file from bovespa (internal)*

Description

Reads FWF file from bovespa (internal)

Usage

```
gdfpd.read.fwf.file(my.f, flag.thousands)
```

Arguments

`my.f` File to be read
`flag.thousands` A flag for thousands values

Value

A dataframe with data

Examples

```
my.f <- system.file('extdata/DFPBPAE.001', package = 'GetDFPData')  
df.assets <- gdfpd.read.fwf.file(my.f, flag.thousands = FALSE)
```

`gdfpd.read.zip.file.type.fca`

Reads folder for FCA zip file contents (internal)

Description

Reads folder for FCA zip file contents (internal)

Usage

```
gdfpd.read.zip.file.type.fca(rnd.folder.name, folder.to.unzip = tempdir())
```

Arguments

`rnd.folder.name`
Folder where unzipped files are available

`folder.to.unzip`
Folder to unzip files, default = `tempdir()`

Value

A list with FCA data

Examples

```
# no example (this functions is not used directly)
```

```
gdfpd.read.zip.file.type.fre
```

Reads folder for zip file post 2011 (internal)

Description

Reads folder for zip file post 2011 (internal)

Usage

```
gdfpd.read.zip.file.type.fre(rnd.folder.name, folder.to.unzip = tempdir())
```

Arguments

```
rnd.folder.name      Folder where unzipped files are available
folder.to.unzip      Folder to unzip files (default = tempdir())
```

Value

A list with financial statements

Examples

```
# no example (this functions not used directly)
```

```
gdfpd.search.company  Helps users search for a company name
```

Description

Helps users search for a company name

Usage

```
gdfpd.search.company(char.to.search, cache.folder = "DFP Cache Folder")
```

Arguments

```
char.to.search  Character for partial matching
cache.folder    Folder to cache (save) all processed information. Default = file.path(getwd(), 'DFP
Cache Folder')
```

Value

Names of found companies

Examples

```
## Not run: # dontrun: keep cran check fast
gdfpd.search.company('GERDAU')

## End(Not run)
```

get_files

Fetches files for different systens (INTERNAL)

Description

Fetches files for different systens (INTERNAL)

Usage

```
get_files(my.id, type.fin.report)
```

Arguments

my.id	Company id
type.fin.report	type of financial report (dfp/itr/fre/fca)

Value

A dataframe

Examples

```
## Not run:
df.fre.files <- get_files(9512, type.fin.report = 'dfp')

## End(Not run)
```

my.copy.fct	<i>Copies data to external file</i>
-------------	-------------------------------------

Description

Copies data to external file

Usage

```
my.copy.fct(  
  df.in,  
  name.df,  
  base.file.name,  
  type.export = "xlsx",  
  csv.dir = tempdir()  
)
```

Arguments

df.in	Dataframe to be copied
name.df	Name of dataframe to be copied
base.file.name	The basename of excel file (make sure you dont include the file extension)
type.export	The extension of the desired format: 'xlsx' (default) or 'csv'
csv.dir	Location where to save csv files prior to zipping (default = tempdir())

Value

TRUE (invisible), if successfull

Examples

```
test.data <- data.frame(test.data = runif(100))  
name.df <- 'TestData'  
base.file.name <- 'TestData'  
type.export <- 'csv'  
  
my.copy.fct(df.in = test.data, name.df, base.file.name, type.export)
```

my.merge.dfs.lists	<i>Merges (row wise) dataframes from different list, using names of dataframes as index</i>
--------------------	---

Description

Merges (row wise) dataframes from different list, using names of dataframes as index

Usage

```
my.merge.dfs.lists(l.1, l.2)
```

Arguments

l.1	First dataframe
l.2	Second dataframe

Value

A list with binded dataframes (same names as l.1)

Examples

```
l.1 <- list(x = data.frame(runif(10)) )  
l.2 <- list(x = data.frame(runif(10)) )  
  
l <- my.merge.dfs.lists(l.1, l.2)
```

xml.fct.auditing	<i>Reads XML data for auditing</i>
------------------	------------------------------------

Description

Reads XML data for auditing

Usage

```
xml.fct.auditing(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.board.composition
```

Reads XML data for board composition

Description

Reads XML data for board composition

Usage

```
xml.fct.board.composition(x)
```

Arguments

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.capital
```

Reads XML data for capita

Description

Reads XML data for capita

Usage

```
xml.fct.capital(x)
```

Arguments

x A list with capital summary data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

`xml.fct.capital.reduction`*Reads XML data for capital reduction data*

Description

Reads XML data for capital reduction data

Usage`xml.fct.capital.reduction(x)`**Arguments**

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

`xml.fct.committee.composition`*Reads XML data for committee composition*

Description

Reads XML data for committee composition

Usage`xml.fct.committee.composition(x)`**Arguments**

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.compensation *Reads XML data for compensation*

Description

Reads XML data for compensation

Usage

xml.fct.compensation(x)

Arguments

x A list with compensation data

Value

A dataframe

Examples

No example (INTERNAL)

xml.fct.compensation.summary
 Reads XML data for compensation summary data

Description

Reads XML data for compensation summary data

Usage

xml.fct.compensation.summary(x)

Arguments

x A list with compensation summary data

Value

A dataframe

Examples

No example (INTERNAL)

xml.fct.debt	<i>Reads XML data for debt</i>
--------------	--------------------------------

Description

Reads XML data for debt

Usage

```
xml.fct.debt(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.div.details	<i>Reads XML data for div details</i>
---------------------	---------------------------------------

Description

Reads XML data for div details

Usage

```
xml.fct.div.details(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.family.related.parts
```

Reads XML data for family related parts

Description

Reads XML data for family related parts

Usage

```
xml.fct.family.related.parts(x)
```

Arguments

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.family.relations
```

Reads XML data for family relations

Description

Reads XML data for family relations

Usage

```
xml.fct.family.relations(x)
```

Arguments

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

`xml.fct.intangible.details`*Reads XML data for patents details*

Description

Reads XML data for patents details

Usage

```
xml.fct.intangible.details(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

`xml.fct.repurchases`*Reads XML data for repurchases*

Description

Reads XML data for repurchases

Usage

```
xml.fct.repurchases(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.responsible	<i>Reads XML data for responsables documents</i>
---------------------	--

Description

Reads XML data for responsables documents

Usage

```
xml.fct.responsible(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.splits.inplits	<i>Reads XML data for splits/inplits data</i>
------------------------	---

Description

Reads XML data for splits/inplits data

Usage

```
xml.fct.splits.inplits(x)
```

Arguments

x	A list with data
---	------------------

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.stock.values *Reads XML data for stock value*

Description

Reads XML data for stock value

Usage

```
xml.fct.stock.values(x)
```

Arguments

x A list with stock value data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

xml.fct.stockholder *Reads XML data for stockholder data*

Description

Reads XML data for stockholder data

Usage

```
xml.fct.stockholder(x)
```

Arguments

x A list with stockholder data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.stocks.details
```

Reads XML data for stock details

Description

Reads XML data for stock details

Usage

```
xml.fct.stocks.details(x)
```

Arguments

x A list with data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

```
xml.fct.transactions.related
```

Reads XML data for transaction data

Description

Reads XML data for transaction data

Usage

```
xml.fct.transactions.related(x)
```

Arguments

x A list with transaction data

Value

A dataframe

Examples

```
# No example (INTERNAL)
```

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