Package ‘sss’

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Title Tools for Importing Files in the Triple-s (Standard Survey Structure) Format

LazyData true

Description Tools to import survey files in the .sss (triple-s) format. The package provides the function read.sss() that reads the .asc (or .csv) and .sss files of a triple-s survey data file.

Version 0.1-0

URL https://github.com/andrie/sss

BugReports https://github.com/andrie/sss/issues

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Depends R (>= 2.11.0)

Imports utils, xml2, methods, assertthat

Suggests testthat, covr

RoxygenNote 6.0.1

NeedsCompilation no

Author Andrie de Vries [aut, cre]

Maintainer Andrie de Vries <apdevries@gmail.com>

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R topics documented:

`sss-package` *Tools for importing files in the triple-s (Standard Survey Structure) format.*

Description

sss is a set of tools to import survey files in the .sss (triple-s) format. Triple-s is a standard to transfer survey data between applications.

Author(s)

Andrie de Vries

References

http://www.triple-s.org/

The most important exported function is:

- `read.sss()`

`fast.read.fwf` *Read fixed-width files quickly.*

Description

Experimental replacement for read.fwf that runs much faster. However, it is much less flexible than read.fwf.

Usage

```
fast.read.fwf(file, widths, col.names = NULL, colClasses = NA, tz = "",
  dec = ".", ...)
```

Arguments

`file`	Character vector: name of file
`widths`	Numeric vector: column widths. Negative numbers mean "skip this many columns". Use an NA as the final element if there are likely to be extra characters at the end of each row after the last one that you're interested in.
`col.names`	names for the columns that are NOT skipped
`colClasses`	can be used to control type conversion; see `read.table()`. It is an optional vector whose names must be part of `col.names`. There is one extension of the `read.table()` rules: a `colClasses` string starting `POSIXct` will trigger automatic conversion to POSIXct, using the rest of the string as the format specifier.

`tz` used in auto-conversion to `POSIXct()` when `colClasses` is set

`dec` the character to be assumed for decimal points. Passed to `utils::type.convert()`

`...` ignored

`parseSSSmetadata` *Parses a triple-s XML (sss) metadata file, as specified by the triple-s XML standard.*

Description

This function reads and parses a .sss XML metadata file as well as its associated .asc data file. The .sss standard defines a standard survey structure

Usage

```
parseSSSmetadata(x, XMLdoc)
```

Arguments

`x` An XML document - as returned by `XML::xml()`, or `readSSSmetadata()`

`XMLdoc` No longer used. Use `x` instead.

See Also

readSSSmetadata, read.sss, readSSSdata

`read.sss` *Reads a triple-s XML (asc) data file, as specified by the triple-s XML standard.*

Description

This function reads and parses a `.sss` XML metadata file as well as its associated `.asc` data file. The sss standard defines a standard survey structure.

Usage

```
read.sss(sssFilename, ascFilename, sep = "_")
```

Arguments

`sssFilename` Character string: name of .sss file containing the survey metadata

`ascFilename` Character string: name of .asc file containing survey data

`sep` Character vector defining the string that separates question and subquestion labels, e.g. `c("Q_1", "Q_2")`

Value

A data frame with one element (column) for each variable in the data set.

The data.frame contains several attributes:

- `variable.labels`: a named list of value labels with one element per variable, either NULL or a named character vector
- `label.table`: a named list with one element per question. Every element is a named character strings, that contains the label codes for that question.

References

http://www.triple-s.org/

Examples

```
sampleRoot <- system.file("sampledata", package = "sss")
filenameSSS <- file.path(sampleRoot, "sample-1.sss")

read.sss(filenameSSS)
```

`readSSSdata` *Reads a triple-s XML (asc) data file, as specified by the triple-s XML standard.*

Description

This function reads an '.asc" data file.

Usage

```
readSSSdata(x, ascFilename)
```

Arguments

`x`	Name of .asc file containing the survey metadata
`ascFilename`	No longer used. Use `x` instead.

See Also

`read.sss()`, `readSSSmetadata()`

Examples

```
sampleRoot <- system.file("sampledata", package = "sss")
filenameSSS <- file.path(sampleRoot, "sample-1.sss")
filenameASC <- file.path(sampleRoot, "sample-1.asc")

readSSSdata(filenameSSS)
readSSSmetadata(filenameSSS)
```

readSSSmetadata *Reads a triple-s XML (sss) metadata file, as specified by the triple-s XML standard.*

Description

This function reads a .sss XML metadata file. The .sss standard defines a standard survey structure

Usage

```
readSSSmetadata(x, SSSfilename)
```

Arguments

`x`	Name of .sss file containing the survey metadata
`SSSfilename`	No longer used. Use `x` instead.

See Also

`parseSSSmetadata()`, `read.sss()`, `readSSSdata()`

Examples

```
sampleRoot <- system.file("sampledata", package = "sss")
filenameSSS <- file.path(sampleRoot, "sample-1.sss")
filenameASC <- file.path(sampleRoot, "sample-1.asc")

readSSSdata(filenameSSS)
readSSSmetadata(filenameSSS)
```

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