

Package ‘readelan’

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Type Package

Title Read 'ELAN' Files

Version 0.1.0

Description The goal of the 'readelan' is to provide a simple way to read data and metadata in files created with the annotation software 'ELAN' <<https://archive.mpi.nl/tla/elan>> into R as data frames.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports tools, utils, xml2

URL <https://github.com/borstell/readelan>

BugReports <https://github.com/borstell/readelan/issues>

NeedsCompilation no

Author Carl Börstell [aut, cre, cph] (ORCID:
<<https://orcid.org/0000-0001-7549-4648>>)

Maintainer Carl Börstell <carl.borstell@uib.no>

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Contents

read_cv	2
read_eaf	3
read_media	4
read_tiers	5

Index	6
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read_cv	<i>Read controlled vocabularies (CV) in EAF/ETF file(s)</i>
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Description

Reads the controlled vocabularies in ELAN (.eaf/.etf/.ecv) file(s) from a single file or a vector of files as input.

Usage

```
read_cv(file, full_path = FALSE, ecv = TRUE, progress = FALSE)
```

Arguments

file	Path(s) to ELAN file(s) (.eaf/.etf/.ecv)
full_path	Whether file names should include full path (defaults to 'FALSE')
ecv	Whether to read linked external CVs as well (defaults to 'TRUE')
progress	Whether to display a progress bar (defaults to 'FALSE')

Details

If 'full_path' is set to 'FALSE' (default), the input file names will be listed with their base names only, without the full path.

If 'progress' is set to 'TRUE' (defaults to 'FALSE'), a progress bar is printed to the console to show the iteration across input files.

Value

Data frame of the ELAN media metadata

Examples

```
eaf_file <- system.file("extdata", "example.eaf", package = "readelan", mustWork = TRUE)
read_cv(eaf_file, ecv = FALSE)
```

```
# External CVs (.ecv files) can also be read
ecv_file <- system.file("extdata", "syntax.ecv", package = "readelan", mustWork = TRUE)
read_cv(ecv_file, ecv = FALSE)
```

read_eaf	<i>Read annotations in EAF file(s)</i>
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Description

Reads the annotations in ELAN annotation file(s) (.eaf) from a single file or a vector of files as input.

Usage

```
read_eaf(
  file,
  tiers,
  xpath,
  fill_times = TRUE,
  full_path = FALSE,
  progress = FALSE
)
```

Arguments

file	Path(s) to ELAN annotation file(s) (.eaf)
tiers	Specify tiers (TIER_ID or TIER_TYPE) to be read
xpath	Specify a detailed XPath for tiers to be read
fill_times	Fill empty time slots of child annotations (defaults to 'TRUE')
full_path	Whether file names should include full path (defaults to 'FALSE')
progress	Whether to display a progress bar (defaults to 'FALSE')

Details

Specific tiers or tier types can be targeted with a named list, 'tiers = list(tier = "tier1", tier_type = c("tier_type1", "tier_type2"))', or a custom XPath input, 'xpath = "./TIER[starts-with(@TIER_ID,'gloss')]''. A valid 'tier' input will override any simultaneous 'xpath' input.

If 'fill_times' is set to 'TRUE' (default), the time slots of child annotations will be filled with the values of their parent annotations.

If 'full_path' is set to 'FALSE' (default), the input file names will be listed with their base names only, without the full path.

If 'progress' is set to 'TRUE' (defaults to 'FALSE'), a progress bar is printed to the console to show the iteration across input files.

Value

Data frame of ELAN annotations

Examples

```
eaf_file <- system.file("extdata", "example.eaf", package = "readelan", mustWork = TRUE)
read_eaf(eaf_file)
```

read_media	<i>Read media metadata in EAF file(s)</i>
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Description

Reads the media metadata in ELAN (.eaf) file(s) from a single file or a vector of files as input.

Usage

```
read_media(file, full_path = FALSE, progress = FALSE)
```

Arguments

file	Path(s) to ELAN annotation file(s) (.eaf)
full_path	Whether file names should include full path (defaults to 'FALSE')
progress	Whether to display a progress bar (defaults to 'FALSE')

Details

If 'full_path' is set to 'FALSE' (default), the input file names will be listed with their base names only, without the full path.

If 'progress' is set to 'TRUE' (defaults to 'FALSE'), a progress bar is printed to the console to show the iteration across input files.

Value

Data frame of ELAN media metadata

Examples

```
eaf_file <- system.file("extdata", "example.eaf", package = "readelan", mustWork = TRUE)
read_media(eaf_file)
```

read_tiers	<i>Read tier metadata in in EAF/ETF/ECV file(s)</i>
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Description

Reads the tier metadata in ELAN file(s) (.eaf/.etf/.ecv) from a single file or a vector of files as input.

Usage

```
read_tiers(file, full_path = FALSE, progress = FALSE)
```

Arguments

file	Path(s) to ELAN file(s) (.eaf/.etf/.ecv)
full_path	Whether file names should include full path (defaults to 'FALSE')
progress	Whether to display a progress bar (defaults to 'FALSE')

Details

If 'full_path' is set to 'FALSE' (default), the input file names will be listed with their base names only, without the full path.

If 'progress' is set to 'TRUE' (defaults to 'FALSE'), a progress bar is printed to the console to show the iteration across input files.

Value

Data frame of ELAN tier metadata

Examples

```
eaf_file <- system.file("extdata", "example.eaf", package = "readelan", mustWork = TRUE)
read_tiers(eaf_file)
```

```
etf_file <- system.file("extdata", "CLP_annotation_v2-2.etf", package = "readelan", mustWork = TRUE)
read_tiers(etf_file)
```

Index

read_cv, 2
read_eaf, 3
read_media, 4
read_tiers, 5