

Package: idmlr (via r-universe)

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Type Package

Title Read InDesign Markup Language (IDML) Files

Version 0.1.0

Maintainer The package maintainer <yourself@somewhere.net>

Description Read InDesign Markup Language (IDML) Files into R.
Additional functions to modify and write IDML files may be added in the future.

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Imports cli, fs, purrr, readr, rlang, utils, vctrs, xml2

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URL <https://elipousson.github.io/idmlr/>

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Repository <https://elipousson.r-universe.dev>

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idml	<i>S3 object functions for idml class objects</i>
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Description

S3 object functions for idml class objects

Usage

```
new_idml(file, path, contents)

validate_idml(
  idml,
  what = "idml",
  nm = c("file", "path", "contents"),
  type = "application/vnd.adobe.indesign-idml-package",
  error_call = caller_env()
)
```

Arguments

file	File name for input IDML file.
path	Path to location of unzipped IDML file. This is the directory where the XML files are located.
contents	A named list of xml_document objects.
idml	A object to validate as an idml class object.
type	MIMETYPE value to use in validating idml objects.

idml_contents	<i>Get contents from an IDML object</i>
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Description

`get_idml_contents()` is a helper for extracting or converting xml_document objects from the idml list object.

Usage

```
get_idml_contents(
  idml,
  dir = NULL,
  file = NULL,
  format = "xml_document",
  ns = character(),
```

```

    parent_nm = NULL,
    unique_nm = TRUE,
    type = "attr",
    ...,
    error_call = caller_env()
)

format_idml_content(
  content,
  format = "xml_document",
  ns = character(),
  parent_nm = NULL,
  unique_nm = TRUE,
  type = "attr",
  names_to = zap(),
  allow_list = TRUE,
  ...,
  error_call = caller_env()
)

```

Arguments

idml	A idml class object created with read_idml() .
dir, file	Directory and file name from IDML contents to return. If file is NULL,
format	"list", "xml_document", or "data.frame". If "list", contents are converted with xml2::as_list() using the supplied ns parameter.
ns	Optionally, a named vector giving prefix-url pairs, as produced by xml_ns() . If provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is ignored when using xml_name<-() and xml_set_name() .
parent_nm	Name of top-level parent node. If parent_nm is a character vector, extract_doc_df() returns a data frame list.
unique_nm	If TRUE, ensure that parent_node names are unique before using them to extract data from the xml_document. Ignored if node_names is supplied.
type	Type of data to extract from children nodes: "attr" (attributes) or "text".
...	Needed for compatibility with generic. Unused.
error_call	The execution environment of a currently running function, e.g. caller_env() . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

A list, XML document, data frame, or data frame list depending on format and the input idml object.

idml_meta	<i>Get metadata from an IDML object</i>
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Description

Get metadata from an IDML object

`get_idml_meta()` extracts a metadata elements from an `idml` object in the supplied format.

Usage

```
get_idml_meta(idml, format = "xml_document", ..., error_call = caller_env())
```

Arguments

<code>idml</code>	A <code>idml</code> class object created with <code>read_idml()</code> .
<code>format</code>	"list", "xml_document", or "data.frame". If "list", contents are converted with <code>xml2::as_list()</code> using the supplied <code>ns</code> parameter.
<code>...</code>	Arguments passed on to <code>get_idml_contents</code>
<code>ns</code>	Optionally, a named vector giving prefix-url pairs, as produced by <code>xml_ns()</code> . If provided, all names will be explicitly qualified with the <code>ns</code> prefix, i.e. if the element <code>bar</code> is defined in namespace <code>foo</code> , it will be called <code>foo:bar</code> . (And similarly for attributes). Default namespaces must be given an explicit name. The <code>ns</code> is ignored when using <code>xml_name<-()</code> and <code>xml_set_name()</code> .
<code>parent_nm</code>	Name of top-level parent node. If <code>parent_nm</code> is a character vector, <code>extract_doc_df()</code> returns a data frame list.
<code>unique_nm</code>	If TRUE, ensure that <code>parent_node</code> names are unique before using them to extract data from the <code>xml_document</code> . Ignored if <code>node_names</code> is supplied.
<code>type</code>	Type of data to extract from children nodes: "attr" (attributes) or "text".
<code>error_call</code>	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of <code>abort()</code> for more information.

idml_resource	<i>Get fonts, styles, and graphics from an IDML object</i>
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Description

By default, if `format = "data.frame"`, `get_idml_fonts()` returns a single `data.frame` and `get_idml_styles()`, `get_idml_graphic()`, and `get_idml_preferences()` returns a list of `data.frame` objects values present in the input `idml` object. This format option is still under development and does not return all available data from the `xml_document`.

Usage

```

get_idml_resource(
  idml,
  resource,
  format = "xml_document",
  ...,
  error_call = caller_env()
)

get_idml_fonts(idml, format = "xml_document", parent_nm = NULL, ...)

get_idml_styles(idml, format = "xml_document", parent_nm = NULL, ...)

get_idml_graphic(idml, format = "xml_document", parent_nm = NULL, ...)

get_idml_preferences(idml, format = "xml_document", parent_nm = NULL, ...)

```

Arguments

idml	A idml class object created with read_idml() .
resource	One or more resource names: "Graphic.xml", "Fonts.xml", or "Styles.xml"
format	"list", "xml_document", or "data.frame". If "list", contents are converted with xml2::as_list() using the supplied ns parameter.
...	Arguments passed on to get_idml_contents
	ns Optionally, a named vector giving prefix-url pairs, as produced by xml_ns() . If provided, all names will be explicitly qualified with the ns prefix, i.e. if the element bar is defined in namespace foo, it will be called foo:bar. (And similarly for attributes). Default namespaces must be given an explicit name. The ns is ignored when using xml_name<-() and xml_set_name() .
	unique_nm If TRUE, ensure that parent_node names are unique before using them to extract data from the xml_document. Ignored if node_names is supplied.
	type Type of data to extract from children nodes: "attr" (attributes) or "text".
error_call	The execution environment of a currently running function, e.g. caller_env() . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
parent_nm	Name of top-level parent node. If parent_nm is a character vector, extract_doc_df() returns a data frame list.

Description

Get spreads from an IDML object

`get_idml_spreads()` extracts a list of xml documents for spreads or a data frame from a `idml` object.

Usage

```
get_idml_spreads(
  idml,
  format = "list",
  names_to = "Spread",
  ...,
  error_call = caller_env()
)
```

Arguments

<code>idml</code>	A <code>idml</code> class object created with <code>read_idml()</code> .
<code>format</code>	"list", "xml_document", or "data.frame". If "list", contents are converted with <code>xml2::as_list()</code> using the supplied <code>ns</code> parameter.
<code>names_to</code>	By default, <code>names(x)</code> are lost. To keep them, supply a string to <code>names_to</code> and the names will be saved into a column with that name. If <code>names_to</code> is supplied and <code>x</code> is not named, the position of the elements will be used instead of the names.
<code>...</code>	Arguments passed on to <code>get_idml_contents</code>
<code>ns</code>	Optionally, a named vector giving prefix-url pairs, as produced by <code>xml_ns()</code> . If provided, all names will be explicitly qualified with the <code>ns</code> prefix, i.e. if the element <code>bar</code> is defined in namespace <code>foo</code> , it will be called <code>foo:bar</code> . (And similarly for attributes). Default namespaces must be given an explicit name. The <code>ns</code> is ignored when using <code>xml_name<-()</code> and <code>xml_set_name()</code> .
<code>parent_nm</code>	Name of top-level parent node. If <code>parent_nm</code> is a character vector, <code>extract_doc_df()</code> returns a data frame list.
<code>unique_nm</code>	If TRUE, ensure that <code>parent_node</code> names are unique before using them to extract data from the <code>xml_document</code> . Ignored if <code>node_names</code> is supplied.
<code>type</code>	Type of data to extract from children nodes: "attr" (attributes) or "text".
<code>error_call</code>	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of <code>abort()</code> for more information.

read_idml	<i>Read an InDesign Markup Language (IDML) file to a idml object</i>
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Description

`read_idml()` takes a file path for an idml file and returns an idml object: a list containing a file name, file path, and the contents of the file as a list of `xml_document` objects and character vectors (for the MIMETYPE file only).

Usage

```
read_idml(file, ..., exdir = tempdir())
```

Arguments

file	Path to a file ending in a .idml file extension.
...	Additional parameters passed to <code>xml2::read_xml()</code>
exdir	Directory to extract files to when using <code>utils::unzip()</code> , Default: <code>tempdir()</code> .

Value

A idml class object.

See Also

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