Package 'plume'

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Type Package

```
Title A Simple Author Handler for Scientific Writing
Version 0.2.5
Description Handles and formats author information in scientific writing
      in 'R Markdown' and 'Quarto'. 'plume' provides easy-to-use and
      flexible tools for injecting author metadata in 'YAML' headers as well
      as generating author and contribution lists (among others) as strings
      from tabular data.
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URL https://arnaudgallou.github.io/plume/,
      https://github.com/arnaudgallou/plume
BugReports https://github.com/arnaudgallou/plume/issues
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Imports dplyr (>= 1.0.0), glue (>= 1.3.2), jsonlite (>= 1.6.0), knitr
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```

credit_roles

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Contents

Index	1
	set_default_names
	sequential
	PlumeQuarto
	Plume
	plm_template
	orcid
	enumerate
	encyclopedists
	credit_roles

credit_roles

CRediT roles

Description

Helper function returning the 14 contributor roles of the Contributor Roles Taxonomy (CRediT). This function is the default argument of the roles and role_cols parameters in plume classes and plm_template(), respectively.

Usage

```
credit_roles(oxford_spelling = TRUE)
```

Arguments

oxford_spelling

Should the suffix -ize/-ization be used?

Value

A named vector.

Examples

credit_roles()

encyclopedists 3

encyclopedists

Famous encyclopedists

Description

Data on four famous authors of the Encyclopédie (originally "Encyclopédie, ou dictionnaire raisonné des sciences, des arts et des métiers") published in France in the second half of the 18th century. The data set is available in English (encyclopedists) and French (encyclopedists_fr).

Usage

```
encyclopedists
encyclopedists_fr
```

Format

A tibble with 4 rows and 10 variables:

```
given_name,prénom authors' given names
family_name,nom authors' family names
email,courriel authors' email addresses
phone,téléphone authors' phone numbers
orcid authors' ORCID
affiliation_1,affiliation_2 authors' affiliations
supervision authors that supervised the project
writing,rédaction authors involved in the writing
note special notes about authors
```

```
encyclopedists
encyclopedists_fr
```

4 orcid

enumerate

Enumerate vector elements

Description

Wrapper around glue_collapse() using sep = ", " and last = " and " as default arguments.

Usage

```
enumerate(x, sep = ", ", last = " and ")
```

Arguments

x A character vector.

sep Separator used to separate the terms.

last Separator used to separate the last two items if x has at least 2 items.

Value

A character string with the same class as x.

Examples

```
aut <- Plume$new(encyclopedists)
aut$get_author_list() |> enumerate()
```

orcid

ORCID icon

Description

Helper function to control the size and colour of the ORCID icon.

Usage

```
orcid(size = 16, bw = FALSE)
```

Arguments

size Size (in pixels) of the icon.

bw Should the black and white version of the icon be used?

Value

A plume icon.

plm_template 5

Examples

```
aut <- Plume$new(encyclopedists, orcid_icon = orcid(bw = TRUE))</pre>
```

plm_template

Create a table template for plume classes

Description

This helper function allows you to generate an empty tibble that you can use as a template to supply author data.

Usage

```
plm_template(minimal = TRUE, role_cols = credit_roles(), credit_roles = FALSE)
```

Arguments

minimal If TRUE, returns an empty tibble with the following columns: given_name,

family_name, email, orcid, affiliation and note. Otherwise the function returns a template with all columns that can be supplied to plume classes that

are not PlumeQuarto-specific.

role_cols A vector of names defining role columns to create. If the vector contains key-

value pairs, columns will be named after the keys.

credit_roles [Deprecated]

It is now recommended to use role_cols = credit_roles() to use the Con-

tributor Roles Taxonomy.

Value

An empty tibble.

```
plm_template()
plm_template(role_cols = paste0("role_", 1:5))
```

Plume

Plume class

Description

Class that generates author lists and other author-related information as character strings.

Super classes

```
plume::NameHandler->plume::PlumeHandler->plume::StatusSetter->plume::StatusSetterPlume
-> Plume
```

Methods

Public methods:

```
• Plume$new()
```

- Plume\$get_author_list()
- Plume\$get_affiliations()
- Plume\$get_notes()
- Plume\$get_orcids()
- Plume\$get_contact_details()
- Plume\$get_contributions()
- Plume\$clone()

Method new(): Create a Plume object.

```
Usage:
Plume$new(
   data,
   names = NULL,
   symbols = NULL,
   roles = credit_roles(),
   credit_roles = FALSE,
   initials_given_name = FALSE,
   family_name_first = FALSE,
   interword_spacing = TRUE,
   orcid_icon = orcid(),
   by = NULL
)
```

Arguments:

data A data frame containing author-related data.

names A vector of key-value pairs specifying custom names to use, where keys are default names and values their respective replacements.

symbols A list of key-value pairs defining the symbols to use to link authors and their metadata. Valid keys are "affiliation", "corresponding" and "note". By default, uses digits for affiliations, "*" for corresponding authors and "†", "‡", "\$", "¶", "#", "**" for notes. Set a key to NULL to use numerals.

roles A vector of key-value pairs defining roles where keys identify role columns and values describe the actual roles to use.

credit_roles [Deprecated]

It is now recommended to use roles = credit_roles() to use the Contributor Roles Taxonomy.

initials_given_name Should the initials of given names be used?

family_name_first Should literal names show family names first?

interword_spacing Should literal names use spacing? This parameter is only useful for people writing in languages that don't separate words with a space such as Chinese or Japanese.

orcid_icon The ORCID icon, as defined by orcid(), to be used.

by A character string defining the default variable used to assign specific metadata to authors in all set_*() methods. By default, uses authors' id.

Returns: A Plume object.

Method get_author_list(): Get author list.

Usage:

```
Plume$get_author_list(suffix = NULL, format = deprecated())
```

Arguments

suffix A character string defining the format of symbols suffixing author names. See details.

format [Deprecated]

Please use the parameter suffix instead.

Details: suffix lets you choose which symbol categories to suffix authors with, using the following keys:

- · a for affiliations
- c for corresponding authors
- n for notes
- · o for ORCIDs

The order of the keys determines the order of symbol types. E.g. "ac" shows affiliation ids first and corresponding author mark second, when "ca" shows corresponding author mark first and affiliation ids second. Use "," to separate and "^" to superscript symbols. Use NULL or an empty string to list author names without suffixes.

Returns: A character vector.

Method get_affiliations(): Get authors' affiliations.

```
Usage:
```

```
Plume$get_affiliations(superscript = TRUE, sep = "")
```

Arguments:

superscript Should affiliation ids be superscripted?

sep Separator used to separate affiliation ids and affiliations.

Returns: A character vector.

Method get_notes(): Get authors' notes.

Usage:

```
Plume$get_notes(superscript = TRUE, sep = "")
 Arguments:
 superscript Should note ids be superscripted?
 sep Separator used to separate note ids and notes.
 Returns: A character vector.
Method get_orcids(): Get authors' ORCID.
 Usage:
 Plume$get_orcids(compact = FALSE, icon = TRUE, sep = "")
 Arguments:
 compact Should links only display the 16-digit identifier?
 icon Should the ORCID icon be shown?
 sep Separator used to separate authors and their respective ORCID.
 Returns: A character vector.
Method get_contact_details(): Get the contact details of corresponding authors.
 Usage:
 Plume$get_contact_details(
    format = "{details} ({name})",
   email = TRUE,
   phone = FALSE,
   fax = FALSE,
   url = FALSE,
   sep = ", "
 )
 Arguments:
 format A glue specification that uses the variables name and/or details.
 email, phone, fax, url Arguments equal to TRUE are evaluated and passed to the variable
     details. By default, only email is set to TRUE.
 sep Separator used to separate details items.
 Returns: A character vector.
Method get_contributions(): Get authors' contributions.
 Usage:
 Plume$get_contributions(
   roles_first = TRUE,
   by_author = FALSE,
    alphabetical_order = FALSE,
    dotted_initials = TRUE,
   literal_names = FALSE,
   divider = ": ",
   sep = ", ",
   sep_last = " and "
 )
```

```
Arguments:
  roles_first If TRUE, displays roles first and authors second. If FALSE, roles follow authors.
 by_author Should roles be grouped by author?
  alphabetical_order Should authors be listed in alphabetical order? By default, lists authors
     in the order they are defined in the data.
 dotted_initials Should initials be dot-separated?
  literal_names Should literal names be used?
 divider Separator used to separate roles from authors.
  sep Separator used to separate roles or authors.
  sep_last Separator used to separate the last two roles or authors if more than one item is
     associated to a role or author.
 Returns: A character vector.
Method clone(): The objects of this class are cloneable with this method.
```

```
Plume$clone(deep = FALSE)
Arguments:
deep Whether to make a deep clone.
```

```
# Create a Plume instance
aut <- Plume$new(encyclopedists)</pre>
# Set the desired corresponding authors, using
# authors' id by default
aut$set_corresponding_authors(1, 4)
# Getting authors suffixed by affiliation ids
# and the corresponding author mark:
aut$get_author_list("^a,c^")
# Or maybe with the corresponding author mark
# coming before affiliation ids:
aut$get_author_list("^c,a^")
# Getting more author metadata
aut$get_affiliations()
aut$get_contributions()
# Use `symbols` to change the default symbols.
# E.g. to use letters as affiliation ids:
aut <- Plume$new(</pre>
  encyclopedists,
  symbols = list(affiliation = letters)
)
aut$get_author_list("^a^")
```

10 PlumeQuarto

```
aut$get_affiliations()

# It is also possible to output contributions in the
# active voice
aut <- Plume$new(encyclopedists, roles = c(
    supervision = "supervised the project",
    writing = "contributed to the Encyclopédie"
))
aut$get_contributions(roles_first = FALSE, divider = " ")</pre>
```

PlumeQuarto

PlumeQuarto class

Description

Class that pushes author metadata in YAML files or the YAML header of Quarto files.

Super classes

```
plume::NameHandler->plume::PlumeHandler->plume::StatusSetter->plume::StatusSetterPlumeQuarto
->PlumeQuarto
```

Methods

Public methods:

```
• PlumeQuarto$new()
```

- PlumeQuarto\$to_yaml()
- PlumeQuarto\$clone()

Method new(): Create a PlumeQuarto object.

```
Usage:
PlumeQuarto$new(
   data,
   file,
   names = NULL,
   roles = credit_roles(),
   credit_roles = FALSE,
   initials_given_name = FALSE,
   by = NULL
)
```

Arguments:

data A data frame containing author-related data.

file A .qmd, .yml or .yaml file to insert author data into.

names A vector of key-value pairs specifying custom names to use, where keys are default names and values their respective replacements.

PlumeQuarto 11

roles A vector of key-value pairs defining roles where keys identify columns and values describe the actual roles to use.

```
credit_roles [Deprecated]
```

It is now recommended to use roles = credit_roles() to use the Contributor Roles Taxonomy.

initials_given_name Should the initials of given names be used?

by A character string defining the default variable used to assign specific metadata to authors in all set_*() methods. By default, uses authors' id.

Returns: A PlumeQuarto object.

Method to_yaml(): Push or update author information in a YAML file or YAML header. The generated YAML complies with Quarto's author and affiliations schemas.

Usage:

PlumeQuarto\$to_yaml()

Details: If missing, to_yaml() inserts author information into the desired file. Otherwise, the function replaces old author and affiliations values with the ones provided in the input data.

Returns: The input file invisibly.

Method clone(): The objects of this class are cloneable with this method.

Usage:

PlumeQuarto\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

```
# Create a simple temporary file with a YAML header
# containing a title
tmp_file <- tempfile(fileext = ".qmd")
readr::write_lines("---\ntitle: Encyclopédie\n---", tmp_file)

# View the temporary file
cat(readr::read_file(tmp_file))

# Create a PlumeQuarto instance using the temporary file
# you've just created
aut <- PlumeQuarto$new(
   encyclopedists,
   file = tmp_file
)

# And push author data to the YAML header
aut$to_yaml()
cat(readr::read_file(tmp_file))

# Pushing again with new data updates the YAML</pre>
```

12 sequential

```
# header accordingly
aut <- PlumeQuarto$new(
    dplyr::slice(encyclopedists, 2),
    file = tmp_file
)
aut$to_yaml()

cat(readr::read_file(tmp_file))

# Clean up the temporary file
unlink(tmp_file)</pre>
```

sequential

Control the sequencing behaviour of character vectors

Description

Modifier function used to generate logical sequences of characters.

Usage

```
sequential(x)
```

Arguments

Χ

A character vector.

Value

A character vector with parent S3 class sequential.

```
aut <- Plume$new(
  tibble::tibble(
    given_name = "X",
    family_name = "Y",
    affiliation = 1:60
  ),
  symbols = list(affiliation = sequential(letters))
)
aut$get_affiliations(sep = ": ", superscript = FALSE)</pre>
```

set_default_names 13

set_default_names

Set new default names to a plume subclass

Description

This helper function allows you to set new default names to a plume subclass, e.g. to set default names to a language other than English.

Usage

```
set_default_names(..., .plume_quarto = FALSE)
```

Arguments

... Key-value pairs where keys are default names and values their respective replacements.

.plume_quarto Are you setting new names for PlumeQuarto?

Details

Available names are:

id, initials, literal_name, corresponding, contributor_rank, given_name, family_name, email, phone, fax, url, affiliation, role, note, orcid.

Using .plume_quarto = TRUE adds deceased, equal_contributor, number, dropping_particle and acknowledgements.

Value

A named list.

```
# Extending `Plume` with default names in French
PlumeFr <- R6::R6Class(
    classname = "PlumeFr",
    inherit = Plume,
    private = list(
        plume_names = set_default_names(
        initials = "initiales",
        literal_name = "nom_complet",
        corresponding = "correspondant",
        given_name = "prénom",
        family_name = "nom",
        email = "courriel",
        phone = "téléphone"
    )
)
)</pre>
```

set_default_names

PlumeFr\$new(encyclopedists_fr)

Index

```
\ast datasets
    {\tt encyclopedists}, {\tt 3}
\verb|credit_roles|, 2
encyclopedists, 3
{\tt encyclopedists\_fr} \ ({\tt encyclopedists}), \ 3
enumerate, 4
glue, 8
glue_collapse(), 4
orcid, 4
orcid(), 7
plm_template, 5
plm_template(), 2
Plume, 6
plume::PlumeHandler, 6, 10
plume::StatusSetter, 6, 10
plume::StatusSetterPlume, 6
plume::StatusSetterPlumeQuarto, 10
{\tt PlumeQuarto}, 10, {\tt 13}
sequential, 12
set_default_names, 13
tibble, 5
```