Package 'labeleR'

February 9, 2025

Title Automate the Production of Custom Labels, Badges, Certificates, and Other Documents

Version 0.4.0

Description Create custom labels, badges, certificates

and other documents. Automate the production of potentially large numbers of herbarium and collection labels, accreditation badges, attendance and participation certificates, etc, and deliver them automatically. Documents are generated in PDF format, which requires a working installation of 'LaTeX', such as 'TinyTeX'.

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

URL https://github.com/EcologyR/labeleR/,

https://ecologyr.github.io/labeleR/

BugReports https://github.com/EcologyR/labeleR/issues/

Depends R (>= 3.5.0)

LazyData true

Suggests blastula, keyring, testthat (>= 3.0.0)

Config/testthat/edition 3

Imports rmarkdown

NeedsCompilation no

Author Ignacio Ramos-Gutierrez [aut, cre, cph]

```
(<https://orcid.org/0000-0002-8675-0114>),
Julia G. de Aledo [aut, cph] (<https://orcid.org/0000-0001-9065-9316>),
Jimena Mateo-Martín [aut, cph]
(<https://orcid.org/0000-0002-9757-5497>),
Francisco Rodriguez-Sanchez [aut, cph]
(<https://orcid.org/0000-0002-7981-1599>),
Giorgio Comai [ctb]
```

Maintainer Ignacio Ramos-Gutierrez <ig.ramosgutierrez@gmail.com>

Repository CRAN

Date/Publication 2025-02-09 00:10:06 UTC

Contents

abstract.table	 2
attendance.table	 3
badges.table	 3
collection.table	 4
configure_email	 5
create_abstractbook	6
create_attendance_certificate	 8
create_badge	 10
create_collection_label	 12
create_herbarium_label	 13
create_multichoice	
create_participation_certificate	 18
create_tiny_label	 20
herbarium.table	 22
multichoice.table	 22
participation.table	 23
tiny.table	 24

Index

abstract.table abstract.table

Description

Example data to create abstract books

Usage

abstract.table

Format

An object of class data. frame with 8 rows and 4 columns.

Details

abstract_title

New Progress in Healing Potions, A Magical Alternative to Muggle Medicine Advances in Magical Creature Protection: A New Approach to Hippogriff Conservation The Ethical Use of Legilimency, Where Should the Limits Be Drawn? The Influence of Dark Magic on Contemporary Magical Arts Wandlore and Its Impact on Spellcasting Efficiency: A Comparative Study Magical Plants and Their Role in Potion Brewing: Discovering New Ingredients The Role of the Patronus Charm in Combatting Dark Creatures: A Defensive Approach Time-Turners and Temporal Ethics: Should the Laws Be Reconsidered?

authors

Severus Snape(1,2,*); Poppy Pomf Newt Scamander(1,2);Rubeus Hag Albus Dumbledore(1,2,3,*); Emme Bellatrix Lestrange(1,2); Fenrir Gra Garrick Ollivander(1,*); Albus Dun Pomona Sprout(1,*); Severus Snap Remus Lupin(1,*); Kingsley Shack Hermione Granger(1,*); Amelia Bo

26

attendance.table attendance.table

Description

Example data to create attendance certificates

Usage

attendance.table

Format

An object of class data.frame with 4 rows and 1 columns.

Details

A data frame with the name of attendees

Names Harry Potter Hermione Granger Neville Longbottom Ginny Weasley

badges.table

badges.table

Description

Example data to create identification badges

Usage

badges.table

Format

An object of class data. frame with 8 rows and 2 columns.

Details

List	Affiliation
Cornelius Fudge	Ministry of Magic
Rita Skeeter	The Daily Prophet
Bartemius Crouch	Magic Security Department, Ministry of Magic
Newt Scamander	Department of Magizoology (Ministry of Magic)
Garrick Ollivander	Ollivander's Wand Shop in Diagon Alley
Lily Potter	Gryffindor House (Hogwarts S.W.W.)
Peter Pettigrew	Gryffindor House (Hogwarts S.W.W.)
Sirius Black	Azkaban prisoner

collection.table collection.table

Description

Example data to create collection labels

Usage

collection.table

Format

An object of class data.frame with 40 rows and 8 columns.

Details

field1	field2	field3	field4	fie
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite

Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trorgssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trorgssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
-				

configure_email

Configure email sending

Description

Configure the email application to automatically send certificates.

Usage

```
configure_email(
   user = NULL,
   app.name = NULL,
   subject = NULL,
   body = NULL,
   cc = NULL,
   bcc = NULL
)
```

Arguments

user	Character. Gmail account that will be used to send certificates.
app.name	Name of the mail application used to send emails. To create one, access https: //myaccount.google.com/apppasswords.
subject	Character. Subject of the email to be sent. If not specified, labeleR will use a default value.
body	Character. Body text of the email to be sent. If not specified, labeleR will use a default value.
сс	Character. String (or vector of strings) containing the email addresses to send the email as a copy.
bcc	Character. String (or vector of strings) containing the email addresses to send the email as a hidden copy.

Value

A list including at least a 'user' string' and an 'app.name' string. Optionally, slots 'subject', 'body', 'cc' and 'bcc' can be edited to compile the email to send.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Jimena Mateo-Martín, Francisco Rodriguez-Sanchez

Examples

```
## Not run:
email.info <- configure_email(user = 'example@gmail.com')
## If you already have created an application:
email.info <- configure_email(user = 'example@gmail.com', app.name = "emailsend")</pre>
```

End(Not run)

create_abstractbook Create Book of Abstracts

Description

Create a book of abstracts given a dataframe or tibble.

create_abstractbook

Usage

```
create_abstractbook(
  data = NULL,
  path = NULL,
  filename = NULL,
  title.column = NULL,
  authors.column = NULL,
  affiliation.column = NULL,
  text.column = NULL,
  frontpage = NULL,
  toc = TRUE,
  toc.title = "Index",
  title.cex = 22,
  authors.cex = 16,
  affiliations.cex = 14,
  text.cex = 14,
  keep.files = FALSE,
  template = NULL
```

```
)
```

Arguments

data	a data frame including titles, author names, affiliations and abstracts.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "AbstractBook".
title.column	Character. Name of the column in data storing abstracts' titles.
authors.column	Character. Name of the column in data storing authors' names and affiliations. Numeric (and symbol, e.g. '*') affiliations MUST be specified between brack- ets. Authors must be separated using a semi-colon (';').
affiliation.col	umn
	Character. Name of the column in data storing the addresses for each affiliation number (specified between brackets after author names, in authors.column). Separations between authors must be specified using a semi-colon (';').
text.column	Name of the column in data storing the abstract text.
frontpage	Character. Path to PDF file to be inserted before the book of abstracts (as front page and/or introduction).
toc	Logical. If TRUE, a Table of Contents will be included.
toc.title	Character. Title to name the Table of Contents. Default is "Index".
title.cex	Text font size used for the title. Default is 22.
authors.cex affiliations.ce	Text font size used for the authors' names. Default is 16.
	Text font size used for the affiliation addresses Default is 14.
text.cex	Text font size used for the abstract main text body. Default is 14.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.

template Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Details

You can copy and modify at your convenience this Google form template to retrieve abstract information which will match labeleR's requirements for a straightforward use.

Value

A PDF file named after filename is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Jimena Martín-Mateo, Francisco Rodriguez-Sanchez

Examples

```
create_abstractbook(
data=abstract.table,
path = "labeleR_output",
filename = "congress_abstractbook",
title.column = "abstract_title",
authors.column = "authors",
affiliation.column = "affiliation",
text.column = "abstract_text",
title.cex = 20,
authors.cex = 15,
affiliations.cex = 14,
text.cex = 12,
frontpage = "Congress_frontpage.pdf"
)
```

create_attendance_certificate
Create certificate of attendance

Description

Create certificate of attendance (1 certificate per DIN-A4 page)

Usage

```
create_attendance_certificate(
  data = NULL,
  path = NULL,
  filename = NULL,
```

```
language = c("English", "Spanish"),
name.column = NULL,
email.column = NULL,
email.info = NULL,
type = "",
title = "",
date = "",
hours = "",
freetext = "",
signer = "",
signer.role = "",
signature.pic = NULL,
lpic = NULL,
rpic = NULL,
keep.files = FALSE,
template = NULL
)
```

Arguments

data	a data frame containing attendees' names (in name.column)		
path	Character. Path to folder where the PDF certificates will be saved.		
filename	Character. Filename of the pdf. If NULL, default is "Attendance" for English, "Asistencia" for Spanish".		
language	Character. Select 'English' or 'Spanish'.		
name.column	Character. Name of the column in data storing attendees' name.		
email.column	Character. Name of the column in data storing attendees' email address to automatically send them their certificates.		
email.info	Object created using configure_email() function.		
type	Character (optional). Type of event (conference, workshop, seminar)		
title	Character. Title of the event		
date	Date of the event		
hours	Number of hours the event has lasted		
freetext	Character (optional). Free text to insert between the event title and date. Can include LaTeX commands (see examples).		
signer	Character. Person who signs the certificate		
signer.role	Character. Signer's role or position		
signature.pic	Character (optional). Path to a PNG image to appear in the bottom, above signer's name.		
lpic	Character (optional). Path to a PNG image to appear in the top-left.		
rpic	Character (optional). Path to a PNG image to appear in the top-right.		
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.		
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.		

Value

PDF certificates are saved on disk, in the folder defined by path. If keep.files = TRUE, the RMarkdown template and PNG logo files will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_attendance_certificate(
  data = attendance.table,
  path = "labeleR_output",
  language = "English",
  name.column = "Names",
  type = "class",
  title = "Potions Class",
  date = "01/01/2021",
  hours = 200,
  freetext = "organised by {\\bf Hogwarts School year 1992-1993}",
  signer = "A.P.W.B. Dumbledore",
  signer.role = "School Headmaster",
  lpic = NULL,
  rpic = NULL,
  signature.pic = NULL,
)
```

create_badge

Create badges

Description

Create badges (8 badges per DIN-A4 page)

Usage

```
create_badge(
  data = NULL,
  path = NULL,
  filename = NULL,
  event = NULL,
  name.column = NULL,
  affiliation.column = NULL,
  lpic = NULL,
  rpic = NULL,
  keep.files = FALSE,
  template = NULL
)
```

create_badge

Arguments

data	a data frame including names and (optionally) affiliations.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Badges".
event	Character. Title of the event.
name.column	Character. Name of the column in data storing participants' name.
affiliation.co	lumn
	Character (optional). Name of the column in data storing participants' affilia- tion.
lpic	Character (optional) Path to a PNG image to be located in the badge top-left.
rpic	Character (optional) Path to a PNG image to be located in the badge top-right.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

A PDF file named "Badges.pdf" is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown and PNG lpic and rpic files will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_badge(
  data = badges.table,
  path = "labeleR_output",
  filename = NULL,
  event = "INTERNATIONAL CONFERENCE OF MUGGLEOLOGY",
  name.column = "List",
  affiliation.column = "Affiliation",
  lpic = NULL,
  rpic = NULL)
```

create_collection_label

Create collection labels

Description

Create collection labels (8 labels per DIN-A4 page)

Usage

```
create_collection_label(
  data = NULL,
  path = NULL,
  filename = NULL,
  qr = NULL,
  field1.column = NULL,
  field2.column = NULL,
  field3.column = NULL,
  field4.column = NULL,
  field5.column = NULL,
  logo = NULL,
  bgcolor = "D0ECC1",
  textcolor = "1E3F20",
  keep.files = FALSE,
  template = NULL
)
```

Arguments

data	a data frame. Each row contains the information by species that will appear in the label.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Collection_label".
qr	String. Free text or column of data that specifies the link for the QR code. If the specified value of qr is not a column name of data, all the QRs will be equal, pointing to the same link.
field1.column	Character (optional). Name of the column in data storing the first free text to appear at the top of the label.
field2.column	Character (optional). Name of the column in data storing the second free text to appear below field1.
field3.column	Character (optional). Name of the column in data storing the third free text to appear below field2.
field4.column	Character (optional). Name of the column in data storing the fourth free text to appear below field3.

field5.column	Character (optional). Name of the column in data storing the fifth free text to appear below field4.
logo	Character (optional) Path to a PNG image to be located in the label bottom.
bgcolor	HTML color for label background. Default is D0ECC1
textcolor	HTML color for label text. Default is 1E3F20
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

A PDF file named "Collection_label.pdf" is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown and PNG logo files will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_collection_label(
  data = collection.table,
  path = "labeleR_output",
  qr = "QR_code",
  field1.column = "field1",
  field2.column = "field2",
  field3.column = "field3",
  field4.column = "field6",
  field5.column = "field7"
)
```

create_herbarium_label

Create herbarium labels

Description

Create herbarium labels (4 labels per DIN-A4 page)

Usage

```
create_herbarium_label(
  data = data,
  path = NULL,
  filename = NULL,
  title = NULL,
  subtitle = NULL,
  qr = NULL,
  family.column = NULL,
  taxon.column = NULL,
  author.column = NULL,
  det.column = NULL,
  date.det.column = NULL,
  location.column = NULL,
  area.description.column = NULL,
  latitude.column = NULL,
  longitude.column = NULL,
  elevation.column = NULL,
  field1.column = NULL,
  field2.column = NULL,
  field3.column = NULL,
  collector.column = NULL,
  collection.column = NULL,
  assistants.column = NULL,
  date.column = NULL,
  keep.files = FALSE,
  template = NULL
)
```

Arguments

data	a data frame. Each row contains the information by species that will appear in the label.		
path	Character. Path to folder where the PDF file will be saved.		
filename	Character. Filename of the pdf. If NULL, default is "Herbarium".		
title	Main title at the top of the labels. Can be blank if set to NULL.		
subtitle	Subtitle at the bottom of the labels. Can be blank if set to NULL.		
qr	String. Free text or column of data that specifies the link for the QR code. If the specified value of qr is not a column name of data, all the QRs will be equal, pointing to the same link.		
family.column	Character (optional). Name of the column in data storing the family of the taxon.		
taxon.column	Character (optional). Name of the column in data storing the taxon name.		
author.column	Character (optional). Name of the column in data storing the taxon author.		
det.column	Character (optional). Name of the column in data storing the determiner of the voucher.		

14

date.det.columr	
	Character (optional). Name of the column in data storing the date when the voucher was determined.
location.columr	1
	Character (optional). Name of the column in data storing where the voucher was collected.
area.descriptio	on.column
	Character (optional). Name of the column in data storing the description of the area.
latitude.columr	
	Character (optional). Name of the column in data storing the latitude where the specimen was collected.
longitude.colum	In
	Character (optional). Name of the column in data storing the longitude where the specimen was collected.
elevation.colum	In
	Character (optional). Name of the column in data storing the elevation where the specimen was collected.
field1.column	Character (optional). Name of the column in data storing the first free text to appear at the top of the label.
field2.column	Character (optional). Name of the column in data storing the second free text to appear below field1.
field3.column	Character (optional). Name of the column in data storing the second free text to appear below field2.
collector.colum	n
	Character (optional). Name of the column in data storing the name of the collector.
collection.colu	Imn
	Character (optional). Name of the column in data storing the voucher's collec- tion number.
assistants.colu	
	Character (optional). Name of the column in data storing the names of the collector's assistants.
date.column	Character (optional). Name of the column in data storing the date when the specimen was collected.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

A pdf file with four herbarium labels per page within an 'output' folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_herbarium_label (
 data = herbarium.table,
 path = "labeleR_output",
 title = "Magical flora of the British Isles",
 subtitle = "Project: Eliminating plant blindness in Hogwarts students",
 qr = "QR_code",
 family.column ="Family",
 taxon.column = "Taxon",
 author.column = "Author",
 det.column = "det",
 date.det.column = "Det_date",
 location.column = "Location",
 latitude.column = "Latitude",
 longitude.column = "Longitude",
 elevation.column = "Elevation",
 field1.column = "life_form",
 field3.column = "Height",
 collector.column = "Collector",
 collection.column = "Collection_number",
 assistants.column = "Assistants",
 date.column = "Date"
)
```

create_multichoice Create multichoice exam

Description

Creates a multichoice exam, with 4 questions per page (first one has title plus 3 questions).

Usage

```
create_multichoice(
  data = NULL,
  path = NULL,
  filename = NULL,
  title = NULL,
  question.column = NULL,
  option1.column = NULL,
  option2.column = NULL,
  option3.column = NULL,
  image.column = NULL,
  solutions = F,
  start = 1,
  seeds = NULL,
```

16

```
frontpage = NULL,
keep.files = FALSE,
template = NULL
)
```

Arguments

data	a data frame including the questions and choices, and may include a column with adjacent image paths.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "multichoice".
title	Title of the exam. If different models are rendered, they will be shown too.
question.columr	1
	Character. Name of the column in data storing the question to be shown.
option1.column	Character. Name of the column in data storing the CORRECT answer. It will not always appear on the first place; options will be randomly sorted.
option2.column	Character. Name of the column in data storing the second choice (INCOR-RECT).
option3.column	Character (optional for 2 choice questions). Name of the column in data storing the third choice (INCORRECT).
option4.column	Character (optional for 3 choice questions). Name of the column in data storing the fourth choice (INCORRECT).
image.column	Character (optional). Name of the column containing file paths to an image which may appear by the side of the question.
solutions	Logical. Whether or not a PDF with the solutions should be rendered.
start	Numeric. Number of the first question (useful if exams are split in several parts).
seeds	Numeric vector of undefined length. Seeds to randomize question order and choice order. If the length of seeds is longer than one, a multiple choice exam will be rendered for EACH ONE specified.
frontpage	Character (optional). Path to PDF file to be inserted before the document (as front page and/or instructions).
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

A PDF file is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown file will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Jimena Mateo-Martín, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_multichoice(
data = multichoice.table,
path = "labeleR_output",
filename = "example_exam",
title = "Example test",
question.column = "question",
option1.column = "opt1.correct",
option2.column = "opt2",
option3.column = "opt3",
option4.column = "opt4",
start = 1,
solutions=T,
seeds = c(1:2)
)
```

create_participation_certificate Create certificate of participation

Description

Create certificate of participation (1 certificate per DIN-A4 page)

Usage

```
create_participation_certificate(
  data = NULL,
  path = NULL,
  filename = NULL,
  language = c("English", "Spanish"),
  name.column = NULL,
  affiliation.column = "",
  comm.type.column = "",
  title.column = "",
  coauthor.column = "",
  date.column = "",
  email.column = NULL,
  email.info = NULL,
  type = "",
  event = ""
  freetext = "",
  signer = "",
  signer.role = "",
  signature.pic = NULL,
  lpic = NULL,
  rpic = NULL,
```

18

```
keep.files = FALSE,
template = NULL
)
```

Arguments

data	A data frame containing participants' names and contributions.
path	path Character. Path to folder where the PDF certificates will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Participation" for English, "Participacion" for Spanish".
language	Character. Select 'English' or 'Spanish'.
name.column	Character. Name of the column in data storing participants' name.
affiliation.co	lumn
	Character (optional). Name of the column in data storing participants' affilia- tion
comm.type.colu	
	Character. Name of the column in data reporting participation type (e.g. poster, oral communication, etc)
title.column coauthor.column	Character. Name of the column in data storing the title of the contribution.
	Name of the column in data storing the names of the coauthors to the contribu- tion.
date.column	Character. Name of the column in data storing dates of participation.
email.column	Character. Name of the column in data storing attendees' email address to automatically send them their certificates.
email.info	Object created using configure_email() function.
type	Character (optional). Type of event (conference, workshop, seminar)
event	Character. Title of the event
freetext	Character (optional). Free text to insert before the date. Can include LaTeX commands (see examples).
signer	Character. Person who signs the certificate
signer.role	Character. Signer's role or position
signature.pic	Character (optional) Path to a PNG image to appear in the bottom, above signer's name.
lpic	Character (optional) Path to a PNG image to appear in the top-left.
rpic	Character (optional) Path to a PNG image to appear in the top-right.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

PDF certificates are saved on disk, in the folder defined by path. If keep.files = TRUE, the RMarkdown template and PNG logo files will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_participation_certificate(
  data = participation.table,
  path = "labeleR_output",
  language = "Spanish",
  name.column = "Name",
  affiliation.column = "House",
  comm.type.column = "Comm.type",
  title.column = "Title",
  date.column = "Date",
  type = "online seminar",
  event = "Hogwarts School of Witchcraft and Wizardry",
  freetext = "which lasted 2 hours",
  signer = "A.P.W.B. Dumbledore",
  signer.role = "School Headmaster",
  lpic = NULL,
  rpic = NULL,
  signature.pic = NULL
)
```

create_tiny_label Create tiny labels

Description

Create tiny labels (16 labels per DIN-A4 page)

Usage

```
create_tiny_label(
   data = NULL,
   qr = NULL,
   path = NULL,
   filename = NULL,
   field1.column = NULL,
   field2.column = NULL,
   field3.column = NULL,
   field5.column = NULL,
   keep.files = FALSE,
   template = NULL
)
```

20

Arguments

data	a data frame including information of a species
qr	String. Free text or column of data that specifies the link for the QR code. If the specified value of qr is not a column name of data, all the QRs will be equal, pointing to the same link.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Tiny_label".
field1.column	Character (optional). Name of the column in data storing the first free text to appear at the top of the label.
field2.column	Character (optional). Name of the column in data storing the second free text to appear below field1.
field3.column	Character (optional). Name of the column in data storing the third free text to appear below field2.
field4.column	Character (optional). Name of the column in data storing the fourth free text to appear below field3.
field5.column	Character (optional). Name of the column in data storing the fifth free text to appear below field4.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

Value

A PDF file named "Tiny_label.pdf" is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown file will also appear in the same folder.

Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

Examples

```
create_tiny_label(
  data = tiny.table,
  qr = "QR_code",
  path = "labeleR_output",
  field1.column = "field1",
  field2.column = "field2",
  field3.column = "field3",
  field4.column = "field4",
  field5.column = "field5"
)
```

herbarium.table *herbarium.table*

Description

Example data to create herbarium labels

Usage

herbarium.table

Format

An object of class data.frame with 6 rows and 19 columns.

Details

ID	Collector	Collection_number	Assistants	Family	Taxon
1	Hermione Granger	2	Sprout, P., Potter, H., Weasley, R.	SOLANACEAE	Mandragora officinar
2	Ron Weasley	5	Potter, H.	SALICACEAE	Salix muhammadalii
3	Dobby H.E.	1	Winky H.E.	Zosteraceae	Zostera phycobranch
4	Pomona Sprout	1990-301a	Dumbledore, A.	Suffocaceae	Lucifericaptia obscur
5	Luna Lovegood	5	Xenophilius Lovegood	rosaceae	Prunus zeppelin
6	Algie Longbottom	3	Longbottom, N.	Mimbulaceae	Mimbulus mimbletor

multichoice.table multichoice.table

Description

Example data to create multiple choice tests

Usage

multichoice.table

Format

An object of class data.frame with 7 rows and 5 columns.

participation.table

Details

opt1.correct	opt2	opt3
Gryffindor	Slytherin	Hufflepu
A house elf	A hippogryph	A muggl
Neville	Ronald	Bill
The Whomping Willow	The Elder Alder	The Mig
Hogsmeade	London	Godric's
Sirius Black	Remus Lupin	Severus
Billius	Wulfric	Brian
	A house elf Neville The Whomping Willow Hogsmeade Sirius Black	GryffindorSlytherinA house elfA hippogryphNevilleRonaldThe Whomping WillowThe Elder AlderHogsmeadeLondonSirius BlackRemus Lupin

participation.table *participation.table*

Description

Example data to create participation certificates

Usage

participation.table

Format

An object of class data. frame with 4 rows and 5 columns.

Details

Name	Date	Title	Comm.type
Severus Snape	01/01/1993	Advanced potions with more than six plants	oral communication
Minerva McGonagall	01/01/1994	From cat to ape: transformations in the XX century	poster
Alastor Moody	01/01/1995	Disentangling the three unforgivable curses	poster
Rubeus Hagrid	01/01/1996	Why is your hippogriff not flying? Insights on flight efficiency	oral communication

tiny.table

tiny.table

Description

Example data to create tinylabels

Usage

tiny.table

Format

An object of class data.frame with 40 rows and 8 columns.

Details

field1	field2	field3	field4	fie
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae			
		05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trorgssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
	Licoluac	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	110

tiny.table

Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trorgssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trorgssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite

Index

* datasets abstract.table,2 attendance.table, 3 badges.table,3 collection.table,4 herbarium.table, 22 multichoice.table, 22 participation.table, 23 tiny.table, 24 abstract.table,2 attendance.table, 3 badges.table,3 collection.table,4 configure_email, 5 configure_email(), 9, 19 create_abstractbook, 6 create_attendance_certificate, 8 create_badge, 10 create_collection_label, 12 create_herbarium_label, 13 create_multichoice, 16 $\verb|create_participation_certificate, 18||$ create_tiny_label, 20 herbarium.table, 22

multichoice.table, 22

participation.table, 23

tiny.table, 24