

Package: crosswordio (via r-universe)

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Type Package

Title Read/Write Crosswords in PUZ Format

Version 0.1.0

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URL <https://github.com/coolbutuseless/crosswordio>

BugReports <https://github.com/coolbutuseless/crosswordio/issues>

Description Read and write crosswords in the standard PUZ format.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports ctypesio, gridExtra

Depends R (>= 4.1.0)

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

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plot.puz

Plot a crossword PUZ

Description

Plot a crossword PUZ

Usage

```
## S3 method for class 'puz'
plot(x, ...)
```

Arguments

x	PUZ object
...	passed to plot_puz()

Value

None

plot_puz

Create a simple plot of a crossword

Description

Create a simple plot of a crossword

Usage

```
plot_puz(grid, across, down, add_position = TRUE, scale = 20, cex = 0.95)
```

Arguments

grid	character matrix containing the solution to the crossword. Non-letter grid squares (i.e. black squares) are denoted by the "." character.
across, down	character vectors for the across and down clues in the order they appear when traversing the puzzle grid row-by-row. Note: Text should be utf8, convert if necessary e.g. iconv(..., to = "UTF-8")
add_position	Add position indices to the start of the text for the clues.
scale	overall scale applied to grid size and text size. Default: 20
cex	extra adjustment factor for text size of clues. Default: 0.95

Value

None.

read_puz	<i>Read a crossword file in PUZ format</i>
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Description

Read a crossword file in PUZ format

Usage

```
read_puz(puz_file)
```

Arguments

```
puz_file      filename
```

Value

named list of crossword information

Examples

```
# This grid is the "Sator Square"
grid <- matrix(c(
  "S", "A", "T", "O", "R",
  "A", "R", "E", "P", "O",
  "T", "E", "N", "E", "T",
  "O", "P", "E", "R", "A",
  "R", "O", "T", "A", "S"
), 5, 5, byrow = TRUE)

# In the Sator Square, all down and across words are identical
# and in Latin!
down <- across <- c(
  "sower, planter",
  "unknown word, perhaps a proper name of a non-Latin origin",
  "holds, keeps, comprehends, possesses, masters, preserves, sustains",
  "service, pains, labor; care, effort, attention",
  "wheels"
)

# Write crossword to a file in "puz" format
file <- tempfile()
write_puz(
  grid = grid,
  across = across,
  down = down,
  title = "SATOR SQUARE",
  file = file
)
```

```
# Read the data back
read_puz(file)
```

```
write_puz
```

```
Create a crossword in '.puz' format
```

Description

Create a crossword in '.puz' format

Usage

```
write_puz(
  grid,
  across,
  down,
  title = "",
  author = "",
  copyright = "",
  notes = "",
  file = NULL
)
```

Arguments

grid	character matrix containing the solution to the crossword. Non-letter grid squares (i.e. black squares) are denoted by the "." character.
across, down	character vectors for the across and down clues in the order they appear when traversing the puzzle grid row-by-row. Note: Text should be utf8, convert if necessary e.g. <code>iconv(..., to = "UTF-8")</code>
title, author, copyright, notes	free text strings giving information about the crossword. Default: empty string. Note: Text should be utf8, convert if necessary e.g. <code>iconv(..., to = "UTF-8")</code>
file	filename for output. Default: NULL means to return the raw vectors.

Value

Returns raw vector of data if no filename is set, otherwise returns nothing.

Examples

```
# This grid is the "Sator Square"
grid <- matrix(c(
  "S", "A", "T", "O", "R",
  "A", "R", "E", "P", "O",
  "T", "E", "N", "E", "T",
  "O", "P", "E", "R", "A",
```

```
"R", "O", "T", "A", "S"
), 5, 5, byrow = TRUE)

# In the Sator Square, all down and across words are identical
# and in Latin!
down <- across <- c(
  "sower, planter",
  "unknown word, perhaps a proper name of a non-Latin origin",
  "holds, keeps, comprehends, possesses, masters, preserves, sustains",
  "service, pains, labor; care, effort, attention",
  "wheels"
)

# Write crossword to a file in "puz" format
file <- tempfile()
write_puz(
  grid = grid,
  across = across,
  down = down,
  title = "SATOR SQUARE",
  file = file
)

# Read the data back
read_puz(file)
```

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