Package: brio (via r-universe)

December 5, 2024

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Title Basic R Input Output				
Version 1.1.5.9000				
Description Functions to handle basic input output, these functions always read and write UTF-8 (8-bit Unicode Transformation Format) files and provide more explicit control over line endings.				
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<pre>BugReports https://github.com/r-lib/brio/issues</pre>				
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Contents				
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file_line_endings
```

Retrieve the type of line endings used by a file

Description

Retrieve the type of line endings used by a file

Usage

```
file_line_endings(path)
```

Arguments

path

A character string of the path to the file to read.

Value

The line endings used, one of

- '\n' if the file uses Unix line endings
- '\r\n' if the file uses Windows line endings
- NA if it cannot be determined

```
tf1 <- tempfile()
tf2 <- tempfile()
write_lines("foo", tf1, eol = "\n")
write_lines("bar", tf2, eol = "\r\n")
file_line_endings(tf1)
file_line_endings(tf2)
unlink(c(tf1, tf2))</pre>
```

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readLines	Read text lines from a file	

Description

This is a drop in replacement for base::readLines() with restricted functionality. Compared to base::readLines() it:

- Only works with file paths, not connections.
- Assumes the files are always UTF-8 encoded.
- Does not warn or skip embedded nulls, they will likely crash R.
- Does not warn if the file is missing the end of line character.
- The arguments ok, warn, encoding and skipNul are ignored, with a warning.

Usage

```
readLines(con, n = -1, ok, warn, encoding, skipNul)
```

Arguments

con	A character string of the path to a file. Throws an error if a connection object is passed.
n	integer. The number of lines to read. A negative number means read all the lines in the file.
ok	Ignored, with a warning.
warn	Ignored, with a warning.
encoding	Ignored, with a warning.
skipNul	Ignored, with a warning.

Value

A UTF-8 encoded character vector of the lines in the file.

See Also

```
writeLines()
```

```
authors_file <- file.path(R.home("doc"), "AUTHORS")
data <- readLines(authors_file)

# Trying to use connections throws an error
con <- file(authors_file)
try(readLines(con))
close(con)</pre>
```

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```
# Trying to use unsupported args throws a warning
data <- readLines(authors_file, encoding = "UTF-16")</pre>
```

read_file

Read an entire file

Description

read_file() reads an entire file into a single character vector. read_file_raw() reads an entire file into a raw vector.

Usage

```
read_file(path)
read_file_raw(path)
```

Arguments

path

A character string of the path to the file to read.

Details

read_file() assumes the file has a UTF-8 encoding.

Value

- read_file(): A length 1 character vector.
- read_file_raw(): A raw vector.

```
authors_file <- file.path(R.home("doc"), "AUTHORS")
data <- read_file(authors_file)
data_raw <- read_file_raw(authors_file)
identical(data, rawToChar(data_raw))</pre>
```

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Read text lines from a file

Description

The file is assumed to be UTF-8 and the resulting text has its encoding set as such.

Usage

```
read_lines(path, n = -1)
```

Arguments

path A character string of the path to the file to read.

n integer. The number of lines to read. A negative number means read all the lines

in the file.

Details

Both '\r\n' and '\n' are treated as a newline.

Value

A UTF-8 encoded character vector of the lines in the file.

Examples

```
authors_file <- file.path(R.home("doc"), "AUTHORS")
data <- read_lines(authors_file)</pre>
```

writeLines

Write lines to a file

Description

This is a drop in replacement for base::writeLines() with restricted functionality. Compared to base::writeLines() it:

- Only works with file paths, not connections.
- Uses enc2utf8() to convert text() to UTF-8 before writing.
- Uses sep unconditionally as the line ending, regardless of platform.
- The useBytes argument is ignored, with a warning.

Usage

```
writeLines(text, con, sep = "\n", useBytes)
```

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Arguments

text A character vector to write

con A character string of the path to a file. Throws an error if a connection object is

passed.

sep The end of line characters to use between lines.

useBytes Ignored, with a warning.

Value

The UTF-8 encoded input text (invisibly).

See Also

```
readLines()
```

Examples

```
tf <- tempfile()
writeLines(rownames(mtcars), tf)
# Trying to use connections throws an error
con <- file(tf)
try(writeLines(con))
close(con)
# Trying to use unsupported args throws a warning
writeLines(rownames(mtcars), tf, useBytes = TRUE)
unlink(tf)</pre>
```

write_file

Write data to a file

Description

This function differs from write_lines() in that it writes the data in text directly, without any checking or adding any newlines.

Usage

```
write_file(text, path)
```

Arguments

text A character vector of length 1 with data to write.

Path A character string giving the file path to write to.

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Value

The UTF-8 encoded input text (invisibly).

Examples

```
tf <- tempfile()
write_file("some data\n", tf)
unlink(tf)</pre>
```

write_file_raw

Write data to a file

Description

This function differs from write_lines() in that it writes the data in text directly, without any checking or adding any newlines.

Usage

```
write_file_raw(raw, path)
```

Arguments

raw A raw vector with data to write.

path A character string giving the file path to write to.

```
tf <- tempfile()
write_file_raw(as.raw(c(0x66, 0x6f, 0x6f, 0x0, 0x62, 0x61, 0x72)), tf)
unlink(tf)</pre>
```

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write_lines

Write lines to a file

Description

The text is converted to UTF-8 encoding before writing.

Usage

```
write_lines(text, path, eol = "\n")
```

Arguments

text A character vector to write

path A character string giving the file path to write to.
eol The end of line characters to use between lines.

Details

The files are opened in binary mode, so they always use exactly the string given in eol as the line separator.

To write a file with windows line endings use write_lines(eol = "\r\n")

Value

The UTF-8 encoded input text (invisibly).

```
tf <- tempfile()
write_lines(rownames(mtcars), tf)
# Write with Windows style line endings
write_lines(rownames(mtcars), tf, eol = "\r\n")
unlink(tf)</pre>
```

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