Package 'idx2r'

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Type Package		
Title Convert Files to and from IDX Format to Vectors, Matrices and Arrays		
Version 1.0.0		
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Description Convert files to and from IDX format to vectors, matrices and arrays. IDX is a very simple file format designed for storing vectors and multidimensional matrices in binary format. The format is described on the website from Yann LeCun <http: exdb="" mnist="" yann.lecun.com=""></http:> .		
License MIT + file LICENSE		
<pre>URL https://github.com/edoffagne/idx2r</pre>		
Suggests testthat		
RoxygenNote 6.0.1		
NeedsCompilation no		

Repository CRAN

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R topics documented:

	idx2r-package	2
	read_idx	2
	write_idx	3
Index		4

```
idx2r-package
```

Description

Convert files to and from IDX format to arrays in R. IDX is a format to store vector and arrays in binary format. Reading IDX format is needed for instance to use the MNIST database of handwritten digits from http://yann.lecun.com/exdb/mnist/ provided by Yann LeCun.

Author(s)

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See Also

Useful links:

https://github.com/edoffagne/idx2r

Examples

```
m = matrix(1:16, nrow = 4)
file_name = file.path(tempdir(),"m.idx")
write_idx(m, file_name)
mr = read_idx(file_name)
```

read_idx Read an IDX file

Description

This function allows to read an IDX file

Usage

```
read_idx(file_name, endian = "big")
```

Arguments

file_name	character vector containing the name of the file to be read
endian	whether the file has "big" or "little" endian

Examples

```
m = matrix(1:16, nrow = 4)
file_name = file.path(tempdir(),"m.idx")
write_idx(m, file_name)
mr = read_idx(file_name)
```

write_idx

Description

This function allows to write an array into an IDX file.

Usage

write_idx(x, file_name, endian = "big")

Arguments

Х	must be a array or a matrix
file_name	character vector containing the name of the file to be created
endian	whether the file has "big" or "little" endian.

Examples

m = matrix(1:16, nrow = 4)
file_name = file.path(tempdir(),"m.idx")
write_idx(m, file_name)

Index

idx2r(idx2r-package), 2
idx2r-package, 2

 $read_idx, 2$

write_idx, 3