Package 'esutils'

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Type Package

Title esutils

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Description Various Tools.

License GPL (>=2)

SystemRequirements ssconvert (Gnumeric), pdftotext (Xpdf)

Imports crayon, datetimeutils, graphics, textutils, tools, utils, zip, zoo

Suggests tinytest, weaver

URL http://enricoschumann.net/esutils/

NeedsCompilation no

Author Enrico Schumann [aut, cre] (<https://orcid.org/0000-0001-7601-6576>)

R topics documented:

esutils-package *Enrico Schumann's Tools*

Description

Various tools.

Details

Tools.

Author(s)

Enrico Schumann <es@enricoschumann.net>

char2num *Convert Strings to Numbers*

Description

Convert strings to numbers.

Usage

```
char2num(s, dec = ",", big.mark = ".")
```

Arguments

s	a character vector
dec	character: the decimal point; will be replaced with "."
big.mark	character: will be removed, see Details.

Details

char2num uses as.numeric on a character vector after removing/replacing certain characters: all occurences of big.mark are removed, and dec is changed to a dot.

Value

a character vector

Author(s)

Enrico Schumann

See Also

as.numeric, type.convert

Examples

```
char2num("12.000,23")
char2num("12,000.23", big.mark = ",")
char2num("12000.23",  big.mark = " ") ## but 'as.numeric' is simpler
char2num("12'000.23", big.mark = "'")
char2num("12 000|23", dec = "|", big.mark = " ")
```

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map01 *Map Numeric Values to Range*

Description

Rescale a numeric vector in such a way that all values lie within a specified range (per default 0 to 1).

Usage

```
map01(x, min = 0, max = 1, omin = min(x), omax = max(x), na.rm = FALSE)
```

Arguments

x	a numeric vector
min	a numeric vector of length one
max	a numeric vector of length one
omin	a numeric vector of length one
omax	a numeric vector of length one
na.rm	logical

Details

Maps the elements of a numeric vector to a specified range; default is 0 to 1.

Value

a numeric vector

Author(s)

Enrico Schumann

See Also

scale

Examples

```
map01(0:10)          ## 0, 0.1, 0.2 ... 1.0
map01(0:10, 0, 100)  ## 0, 10, 20 ... 100
```

`nth` *Every Nth Element of a Vector*

Description

Every nth element of a vector.

Usage

```
nth(x, n, first = 1L)
```

Arguments

`x`	a vector (or a list)
`n`	an integer
`first`	where to start

Details

Subsets are chosen with `Extract`, so for a list a new list is returned.

Value

a vector (or a list)

Author(s)

Enrico Schumann

See Also

`Extract`

Examples

```
nth(1:20, 2, 1)
nth(1:20, 2, 2)
```

pdf2txt *Pdf to Text File*

Description

Pdf to Text File

Usage

```
pdf2txt(file, out, path.exec = "pdftotext", ..., layout = TRUE)
```

Arguments

file	the file to be converted. Note that the file is not actually changed.
out	the outfile
path.exec	path to pdftotext
...	passed to system
layout	logical; defaults to TRUE

Details

Relies on ssconvert, which ships with Gnumeric.

Value

The return value of system (0 signals success).

Author(s)

Enrico Schumann

References

http://www.foolabs.com/xpdf/home.html

Examples

```
## Not run:
## runs in the current directory
pdf2txt("test.pdf")
## End(Not run)
```

pkg_build *Tools for Building and Installing R Packages*

Description

Building, checking and installing R packages.

Usage

```
pkg_build(pkg, parent.dir = ".", check = FALSE,
          build.vignettes = TRUE,
          run.tests = TRUE, install = FALSE,
          keep.source = FALSE,
          clean = FALSE,
          bump.version = FALSE,
          bump.date = FALSE,
          resave.data = TRUE,
          show.test.results = TRUE,
          verbose = TRUE,
          use.crayon = FALSE)
latest_version(pkg, path = ".", type = "source")
```

Arguments

pkg	package name
parent.dir	a string: the path in which the source directories reside
type	string: source or zip

Details

pkg_build builds a package from a source directory, and optionally checks and installs it.

Value

a character vector, insisibly

Author(s)

Enrico Schumann

Examples

```
basedir <- "~/Packages"
packages <- c("NMOF", "PMwR")

for (p in packages)
    pkg_build(pkg = p,
              parent.dir = basedir,
```

```
                install = TRUE,
                check = TRUE,
                clean = FALSE,
                keep.source = TRUE)
```

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qrequire *Loading/Attaching of Packages, but quietly*

Description

Load package quietly.

Usage

```
qrequire(package, lib.loc = NULL, quietly = TRUE,
         warn.conflicts = TRUE, character.only = FALSE,
         file = tempfile())
```

Arguments

package	see require
lib.loc	require
quietly	require
warn.conflicts	require
character.only	require
file	character

Details

Just as require, but quiet.

Value

Logical, invisibly.

Author(s)

Enrico Schumann

See Also

require

Examples

```
## Not run: qrequire("zoo")
```

ss2csv *Spreadsheet to CSV*

Description

Spreadsheet to CSV

Usage

```
ss2csv(file, out, path.exec = "ssconvert", ...)
```

Arguments

file	the file to be converted. Note that the file is not actually changed.
out	the outfile
path.exec	path to ssconvert
...	passed to system

Details

Relies on ssconvert, which ships with Gnumeric.

Value

The return value of system (0 signals success).

Author(s)

Enrico Schumann

References

http://projects.gnome.org/gnumeric/

http://projects.gnome.org/gnumeric/doc/sect-files-ssconvert.shtml

Examples

```
## Not run:
## runs in the current directory
ss2csv("Journal.ods")
## End(Not run)
```

xy_text *Add Text to Plot at Relative Coordinates*

Description

Add text to a plot at specific relative coordinates, e.g. 50%, 50%.

Usage

```
xy_text(x, y, labels, ...)
```

Arguments

x	numeric
y	numeric
labels	string
...	arguments passed to text

Details

See text.

Value

A vector of coordinates, returned invisibly.

Author(s)

Enrico Schumann

See Also

text

Examples

```
plot(0:10, 0:10)
lines(5,5, col = "blue", pch = 19, type = "p")
xy_text(0.5,0.5, "The Centre", pos = 1)
xy_text(0.5,0.5, "The Centre", pos = 2)
xy_text(0.5,0.5, "The Centre", pos = 3)
xy_text(0.5,0.5, "The Centre", pos = 4)
```

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