Package: digitize (via r-universe)

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Version 0.0.4

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Title Use Data from Published Plots in R

Depends R (>= 2.2.0)

Description Import data from a digital image; it requires user input for calibration and to locate the data points. The end result is similar to 'DataThief' and other other programs that 'digitize' published plots or graphs.

License GPL (>= 2)

Encoding UTF-8

URL https://github.com/tpoisot/digitize/

BugReports https://github.com/tpoisot/digitize/issues

Imports graphics, readbitmap (>= 0.1-4)

RoxygenNote 5.0.1

Suggests testthat

Repository https://tpoisot.r-universe.dev

RemoteUrl https://github.com/tpoisot/digitize

RemoteRef HEAD

RemoteSha f25bbfc3164c54ae2d4b360fb2fef091afb78734

Contents

`digitize-package` *digitize : a plot digitizer in R*

Description

Get data from a graph by providing calibration points

Details

The package provides one main function, `digitize`, which runs functions that 1) Read the image in and calibrate it, and 2) Digitize the data. The first step requires user input.

`Calibrate` *(deprecated) Digitize the data*

Description

(deprecated) Digitize the data

Usage

```
Calibrate(data, calpoints, x1, x2, y1, y2)
```

Arguments

`data`	output of 'DigitData'
`calpoints`	output of 'ReadAndCal'
`x1`	X-coordinate of the leftmost x point (corrected)
`x2`	X-coordinate of the rightmost x point (corrected)
`y1`	Y-coordinate of the lower y point (corrected)
`y2`	Y-coordinate of the upper y point (corrected)

Details

deprecated, use `digitize` instead. This function corrects the data according to the calibration information. Usage further explained at http://lukemiller.org/index.php/2011/06/digitizing-data-from-old-plots-using-digitize/

Value

'data' A data frame with the corrected coordinates of the points

Examples

```
## Not run: Calibrate(data,calpoints,x1,x2,y1,y2)
```

DigitData *(deprecated) Mark the data on an image*

Description

(deprecated) Mark the data on an image

Usage

```
DigitData(col = "red", type = "p", ...)
```

Arguments

col	color of marker as in 'par'
type	shape of marker as in 'par'
...	other args for 'locator'

Details

deprecated, use digitize instead. This function waits for the user to click the points of the coordinates. See 'graphics::locator' for more. Usage explained at http://lukemiller.org/index.php/2011/06/digitizing-data-from-old-plots-using-digitize/

Value

'data' A list with the coordinates of the points

digitize *digitize an image*

Description

digitize an image

Usage

```
digitize(image_filename, ..., x1, x2, y1, y2)
```

Arguments

image_filename	the image file you wish to digitze
...	pass parameters col or type to change data calibration points
x1	(optional) left-most x-axis point
x2	(optional) right-most axis point
y1	(optional) the lower y-axis point
y2	(optional) the upper y-axis point

Details

Proceeds in two steps, both of which require user input from the mouse:

1) Read the image in and calibrate it

2) Digitize the data

Calibration points are optionally passed via arguments x1, x2, y1, y2. These **must be named in full** if passed.

If not specified, you are prompted to enter these in the console. Note, you don't need to choose the end points of each axis, only two points for which you know the x or y return.

Value

a data.frame containing the digitized data

Examples

```
## Not run:
tmp <- tempfile()
png(tmp)
plot(rnorm(10) + 1:10, xlab="x", ylab="y")
dev.off()

mydata <- digitize(tmp)

## End(Not run)
```

`ReadAndCal` *(deprecated) Read image and calibrate*

Description

(deprecated) Read image and calibrate

Usage

```
ReadAndCal(fname)
```

Arguments

`fname`	Filename of the graphic to read

Details

deprecated, use `digitize` instead. Called for side effect of user locating points. See 'graphics::locator' for more. Usage explained at http://lukemiller.org/index.php/2011/06/digitizing-data-from-old-plots-using-digitize/

Value

'calpoints' List of the x and y coordinates of the calibration points

Examples

```
## Not run: ReadAndCal(fname)
```

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