Package ‘digitize’

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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)
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BugReports https://github.com/tpoisot/digitize/issues
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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, xR, y1, yR)

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. 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

```r
## 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**

```r
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**


**Value**

`'data'` A list with the coordinates of the points

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digitize  

*digitize an image*

**Description**

digitize an image

**Usage**

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

**Arguments**

- `image_filename` the image file you wish to digitize
- `...` 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

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

mydata <- digitize(tmp)

## End(Not run)
```

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

Description

(deprecated) Read image and calibrate

Usage

`ReadAndCal(fname)`

Arguments

- `fname`  
Filename of the graphic to read

Details

ReadAndCal

Value

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

Examples

## Not run: ReadAndCal(fname)
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