

Package: plover (via r-universe)

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Title What the Package Does (One Line, Title Case)

Version 0.0.1

Description Point in polygon.

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Encoding UTF-8

Language es

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.0

LinkingTo cpp11

SystemRequirements C++11

URL <https://github.com/hypertidy/plover>

BugReports <https://github.com/hypertidy/plover/issues>

Suggests testthat (>= 3.0.0)

Config/testthat.edition 3

Imports vctrs, wk

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

RemoteUrl https://github.com/hypertidy/plover

RemoteRef HEAD

RemoteSha b707d33fad16848d78918e09cdc032e2b3878755

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ic_over*insidclipper 'over(pts, polygons)' point in polygon lookup***Description**

point in polygon

Usage`ic_over(pts, pol0, xyeps = NULL)`**Arguments**

<code>pts</code>	matrix of points
<code>pol0</code>	list of polygon matrices (or sf, sfc_M/POLYGON)
<code>xyeps</code>	offset,precision (WIP)

Value

integer of polygon

Examples`ic_over(matrix(runif(10), ncol = 2), list(c(0, .5, .5, 0, 0)))`**inside_clipper***Inside with clipper lib***Description**

Call the clipper lib ...

Usage`inside_clipper(pts, coords, extent = NULL)`**Arguments**

<code>pts</code>	matrix of points 2 columns x,y
<code>coords</code>	matrix of polygon ring 2 columns x,y
<code>extent</code>	optional extents (WIP)

Details

WIP

Value

integer vector of point in polygon status, see Details

Examples

```
inside_clipper(matrix(runif(10), ncol = 2), cbind(c(0, .5, .5, 0, 0), c(0, 0, .5, 0, 0)))
```

inside_clipper_loop_mat

Loop inside clipper polygon as matrixes

Description

Loop clipper

Usage

```
inside_clipper_loop_mat(pts, lcoords, xyeps = NULL)
```

Arguments

pts	matrix of points
lcoords	list of matrixes
xyeps	offset x, offset y, precision

Value

list

Examples

```
inside_clipper_loop_mat(matrix(runif(10), ncol = 2),  
list(cbind(c(0, .5, .5, 0, 0), c(0, 0, .5, 0, 0))))
```

`inside_clipper_loop_x_y`

Loop inside clipper polygon as vectors

Description

Loop cliper

Usage

```
inside_clipper_loop_x_y(pts, coordsx, coordsy)
```

Arguments

<code>pts</code>	matrix of points
<code>coordsx</code>	list of vectors polygon x
<code>coordsy</code>	list of vectors polygon y

Value

list

Examples

```
inside_clipper_loop_x_y(matrix(runif(10), ncol = 2), list(c(0, .5, .5, 0, 0)),
list(c(0, 0, .5, 0, 0)))
```

`inside_orourke`

Inside with O'Rourke's InPoly

Description

Call the O'Rourke InPoly function with cpp11.

Usage

```
inside_orourke(pts, coords)
```

Arguments

<code>pts</code>	matrix of points 2 columns x,y
<code>coords</code>	matrix of polygon ring 2 columns x,y

Details

For each query point 'pts', returns one of the following relative to P 'coords': 0 : is strictly interior to P 1 : is strictly exterior to P 3 : is a vertex of P 2 : lies on the relative interior of an edge of P

Value

integer vector of point in polygon status, see Details

NOTE

this was called `inside_cpp11` in the `insidecpp11` package

Examples

```
inside_orourke(matrix(runif(10), ncol = 2), cbind(c(0, .5, .5, 0, 0), c(0, 0, .5, 0, 0)))
```

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