

# polygonNeighbors

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polygonNeighbors	<i>Find the neighboring regions of each region in a shapefile.</i>
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## Description

Find the neighboring regions of each region in a shapefile. Outputs a dataframe with each region and optionally a matrix and plot of adjacencies.

## Usage

```

polygonNeighbors(shp, id = NULL, nb.matrix = FALSE, plot = FALSE)

```

## Arguments

shp	A SpatialPolygonsDataFrame
id	The name of the variable in shp@data to find adjacencies for.
nb.matrix	Whether to output the adjacency matrix as well.
plot	Whether to plot the adjacencies (for checking).

## Value

Returns a list with a data.frame of each adjacency and optionally the adjacency matrix and/or a plot of the adjacencies.

**Examples**

```
# Get a shapefile of US States:
file <- "http://www2.census.gov/geo/tiger/GENZ2015/shp/cb_2015_us_state_20m.zip"
download.file(file, "states.zip")
unzip("states.zip")
shp <- rgdal::readOGR(".", "cb_2015_us_state_20m")
shp <- shp[!(shp@data$STATEFP
polygonNeighbors(shp, id = "NAME")
```

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