

# Package ‘neighborhood’

July 16, 2020

**Type** A package

**Title** An R package to determine the neighborhood competitive environment of trees

**Version** 0.1.0

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**Description** Functions to define and characterize neighborhoods and estimate their effects on forest dynamics

**License** MIT

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.0

**Imports** dplyr, tidyr, likelihood

## R topics documented:

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create_nci_files	<i>create_nci_files</i>
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## Description

Function to compute the RDPI (Relative Distance Plasticity Index, Valladares et al, (2006) Quantitative estimation of phenotypic plasticity: bridging the gap between the evolutionary concept and its ecological applications, Journal of Ecology, 94(6):1103-1116.

## Usage

```
create_nci_files(df, plot_ID, var)
```

## Arguments

var

## Details

Title

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get\_neighbors

*get\_neighbors*

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## Description

Function to compute the RDPI (Relative Distance Plasticity Index, Valladares et al, (2006) Quantitative estimation of phenotypic plasticity: bridging the gap between the evolutionary concept and its ecological applications, Journal of Ecology, 94(6):1103-1116.

## Usage

```
get_neighbors(df, plot_ID)
```

## Arguments

plot\_ID

## Examples

```
plot <- c(rep(1:2, 9), rep(3:6, 14), rep(7,6))
sps_pool <- c("PINI", "PISY", "ABAL")
sps <- sample(sps_pool, length(plot), replace = T)
dbh <- rnorm(length(plot), 15, 5)
x <- rnorm(length(plot), 0, 5)
y <- rnorm(length(plot), 0, 5)
data <- data.frame(plot, sps, dbh, x, y)
neighbors <- get_neighbors(data, plot)
```

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