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A Capitalized Title: Something about a Package foo

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Abstract

The abstract of the article.

Keywords: keywords, not capitalized, Java.

1. Introduction

SHORT INTRO [Geo data is increasingly important, review]
Our aim was to develop a R package to help researcher (in the clinical, social sciences, etc) in dealing with geospatial data.
We searched for geospatial packages in the CRAN repository. A short description of each package is avaliable in Table1. Few of them are intended for the researcher who is not familiar with more complex coding.
Since tabular is the most used type of dataset, our package offers functions to extract and transform data from shapefiles to regular datasets.
@ Merge tabular and geospatial data
We also included functions to calculate distances between points in a shapefile. Our package calculate distances from raw addresses or coordinates (latidude, longitude). @ Minimum Distance
@ Given a list of address, returns the closest one

@ Adicionar quais aceitam endereços como entrada

2. An Example with Simulated Data

@ Distance to the school and school performance (school p ~ distance); @ Minimum distance to two schools.

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Package	Description
APfun	Utilities for handling shapefiles and polygons (merge, etc.)
aspace	Centrographic statistics, computational geometry, and home range ecology for exploring human activities in cities
bbo	Geographical distribution of biological organisms
biogeo	Conversion of standards and units, outliers and error detection
BPEC	DNA Analysis of clusters and migration patterns using mitochondrial DNA
btb	Kernel density estimator for urban environment with geolocal data
ClustGeo	Hierarchical clustering with Ward criterion for geolocal data
gcKrig	Geospatial analysis with gaussian copulas
gdalUtils	Utilities for gdal (Geospatial Data Abstraction Library)
gdistance	Routes and distances in heterogeneous spaces using grids
gear	Statistical methods for spatial analysis (e.g. glm)
geoaxe	Cuts 'geospatial' objects into disjoint areas
geoBayes	Bayesian analysis with geographical data
GeoBoxplot	Boxplot for geospatial plots
geoCount	Generalized spatial models for count data
geodist	High performance geodesical distances
geofacet	Creates grid of plots in ggplot following the contour of a map
geofd	Kriging methods for predictiong of spatially dependet curves.
geoGAM	Spatial prediction using complex models
geomerge	Merges rasters, polygons and points
geoR	Complete framework for geospatial analysis
geoRglm	geoR extension for generalized linear models
georob	Linear models with spatially correlated errors and cross-validation
georob	Functions for dealing with linear models with spatially correlated errors
geospacom	Calculate distance matrix from shapefiles
geospt	Network measures, variogram
geosptdb	Geostatistical analysis of spatial data
geostatsp	Geostatistical Analysis, satial sampling networks
geotools	Functions for dealing with postal codes; distances between two coordinates
geotoolsR	Bootstraping methods for geostatistics
geozoning	Zoning
Gmedian	Estimation of the geometric median, k-Gmedian clustering, PCA
gstat	Spatial and Spatio-Temporal geostatistical modelling, prediction and simulation
GWLelast	Geographically weighted logistic elastic net regression
gwrr	Geographically weighted regression
krige	Kriging models for geographical point-referenced data
mapStats	Calculation and visualization of survey data
nngeo	K-nearest neighboor (Clustering) for spatial data
pointdensityP	Point density for geospatial data
ramps	Bayesian geostatistical modeling of Gaussian processes
revgeo	Reverse geocode with APIs
rgdal	Bindings for the 'Geospatial' Data Abstraction Library (GDAL)
sgeostat	Functions for variogram estimation, variogram fitting, kriging, plotting
spcosa	Spatial coverage sampling and random sampling, clustering
vapour	Binding for GDAL
georob	Methods for fitting linear models with spatially correlated errors
geospacom DW	Distance matrix from shape files
geoSpectral DW	Functions for dealing with geo-spectral data