

Package ‘geospark’

October 4, 2019

Type Package

Title Bring Local Sf to Spark

Version 0.2.1

Maintainer Harry Zhu <7harryprince@gmail.com>

BugReports <https://github.com/harryprince/geospark/issues>

Description R binds 'GeoSpark' <<http://geospark.datasyslab.org/>> extending 'sparklyr' <<https://spark.rstudio.com/>> R package to make distributed 'geocomputing' easier. Sf is a package that provides [simple features] <https://en.wikipedia.org/wiki/Simple_Features> access for R and which is a leading 'geospatial' data processing tool. 'Geospark' R package bring the same simple features access like sf but running on Spark distributed system.

License Apache License (>= 2.0)

Encoding UTF-8

LazyData true

Depends R (>= 3.1.2)

Imports sparklyr (>= 1.0.0), dplyr (>= 0.8.3), dbplyr (>= 1.3.0)

RoxygenNote 6.1.1

Suggests testthat, knitr, utils

NeedsCompilation no

Author Harry Zhu [aut, cre],
Javier Luraschi [ctb]

Repository CRAN

Date/Publication 2019-10-04 11:00:02 UTC

R topics documented:

register_gis	2
st_example	2

Index	4
--------------	----------

register_gis	<i>Enable GIS SQL</i>
--------------	-----------------------

Description

Enable GIS SQL

Usage

```
register_gis(sc)
```

Arguments

sc	a spark connection Used by 'sparklyr' to initialize GIS SQL.
----	---

Value

a GIS spark connection

Examples

```
library(geospark)
library(sparklyr)

sc <- spark_connect(master = "spark://HOST:PORT")

# spark_connect() calls register_gis() automatically, as in:
register_gis(sc)
```

st_example	<i>Spark geometry example.</i>
------------	--------------------------------

Description

Spark geometry example.

Usage

```
st_example(sc, geom = "polygons")
```

Arguments

sc	an object of spark connection
geom	a string of geometry type

Details

geometry can be "polygons" or "points"

Value

a data.frame contains wkt format column example

Examples

```
library(geospark)
library(sparklyr)
library(utils)

# use the proper master, like 'local', 'yarn', etc.
sc <- spark_connect(master = "spark://HOST:PORT")

st_example(sc, "polygons")
st_example(sc, "points")
```

Index

`register_gis`, 2

`st_example`, 2