

# Package ‘geospark’

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**Type** Package

**Title** Bring Local Sf to Spark

**Version** 0.3.1

**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](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

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**Repository** CRAN

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`register_gis`*Enable GIS SQL*

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**Description**

Enable GIS SQL

**Usage**

```
register_gis(sc)
```

**Arguments**

|                 |                                           |
|-----------------|-------------------------------------------|
| <code>sc</code> | 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)
```

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`st_example`*Spark geometry example.*

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**Description**

Spark geometry example.

**Usage**

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

**Arguments**

|                   |                               |
|-------------------|-------------------------------|
| <code>sc</code>   | an object of spark connection |
| <code>geom</code> | 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")
```

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