

Spatial ML - class 1 - intro to sf

Total points 90/100 

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What is an sf object in R? *

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- A matrix of coordinates only
- A data.frame with a geometry column
- A special type of plot
- A tibble with a geometry column

What does the geometry column store? *

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- Plot aesthetics
- CRS definition
- Spatial shapes (points, lines, polygons)
- Variable names



What is a LINESTRING? *

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- A bounding box
- An ordered sequence of points connected by segments
- A polygon with two vertices
- A collection of unrelated points

Why should buffering is usually done in a projected CRS? *

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- Because sf cannot buffer in longitude/latitude
- Because shapefiles require meters
- Because degrees are not meaningful distance units
- Because ggplot only works in meters



What does st_within() return by default? *

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- A logical list (sparse structure)
- A new sf object
- A bounding box
- A numeric distance matrix

What is the difference between st_intersects() and st_intersection()? *

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- No difference
- First returns logical test, second returns shared geometry
- First works only for points
- Second works only for polygons



What is the purpose of st_transform()? *

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- Simplify geometry
- Change the coordinate reference system
- Convert between sf and sp
- Change geometry type

If st_is_valid() returns FALSE, it means: *

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- The dataset has NA values
- The geometry is topologically incorrect
- The CRS is missing
- The object has no geometry



In ggplot() + geom_sf(), what does aes(color = networking) do? *

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- Sets all points to blue
- Maps color to the variable “networking”
- Changes CRS
- Filters the data

Why might we convert sf to sp? *

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- For compatibility with older packages
- To improve visualization
- Because sf cannot handle polygons
- Because sp is faster

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