

Verdun\_donnees.R x Verdun\_donnees.R x

Source on Save Run

```

1 file.choose()
2 ls()
3 load("D:/29.04_Bertrand/Rstudio_Verdun.RData")
4 > library(sf)
5 Linking to GEOS 3.13.1, GDAL 3.10.2, PROJ 9.5.1; sf_use_s2() is TRUE
6 > library(units)
7 udunits database from C:/Users/Nnest/AppData/Local/R/win-library/4.5/units/share/udunits/udunits2.xml
8 > library(dplyr)
9 Attachement du package : 'dplyr'
10
11 Les objets suivants sont masqués depuis 'package:stats':
12
13   filter, lag
14
15 Les objets suivants sont masqués depuis 'package:base':
16
17   intersect, setdiff, setequal, union
18 > library(ggplot2)
19 > bâtiments_historiques <- st_read(file.choose())
20 Reading layer 'export_batiment' from data source 'C:/Users/Nnest/Downloads/export_batiment.geojson' using
21 Simple feature collection with 706 features and 115 fields
22 Geometry type: GEOMETRY
23 Dimension: XY
24 Bounding box: xmin: -73.58297 ymin: 42.78681 xmax: 7.090156 ymax: 49.61693
25 Geodetic CRS: WGS 84
26 > arrêts_metro <- st_read(file.choose())
27 Reading layer 'export_bus' from data source 'C:/Users/Nnest/Downloads/export_bus.geojson' using driver 'G
28 Simple feature collection with 626 features and 36 fields
29 Geometry type: POINT
30 Dimension: XY
31 Bounding box: xmin: -73.59742 ymin: -35.01796 xmax: 138.8065 ymax: 49.54189
32 Geodetic CRS: WGS 84
33 > bâtiments_historiques <- st_transform(bâtiments_historiques, 2154)
34 > arrêts_metro <- st_transform(arrêts_metro, 2154)
35 > distances <- st_distance(bâtiments_historiques, arrêts_metro)
36 > distance_min <- apply(distances, 1, min)
37 > bâtiments_historiques$distance_metro <- set_units(distance_min, "m")
38 > bâtiments$distance_bus <- as.numeric(distance_min)
39 > bâtiments_historiques <- bâtiments_historiques %<%>%
40

```



```
Source on Save Run Source
40 + mutate(accessibilité = ifelse(distance_metro < set_units(500, "m"), "Bien desservi", "Mal desservi")
41 >
42 > library(units)
43 > package(units)
44 Erreur dans package(units) : impossible de trouver la fonction "package"
45
46 > install.packages("units")
47 Error in install.packages : Updating loaded packages
48
49 > install.packages("units")
50 WARNING: Rtools is required to build R packages but is not currently installed. Please download and install
51
52 https://cran.rstudio.com/bin/windows/Rtools/
53 Warning in install.packages :
54 le package 'units' est en cours d'utilisation et ne sera pas installé
55 > library(units)
56 > bâtiments_historiques <- bâtiments_historiques %>%
57 + mutate(accessibilité = ifelse(distance_metro < set_units(500, "m"), "Bien desservi", "Mal desservi"))
58 > bâtiments_historiques$distance_metro <- as.numeric(distance_min)
59 > bâtiments_historiques <- bâtiments_historiques %>%
60 + mutate(accessibilité = ifelse(distance_metro < 500, "Bien desservi", "Mal desservi"))
61 > ggplot() +
62 + geom_sf(data = bâtiments_historiques, aes(color = accessibilité)) +
63 + theme_minimal()
64 > library(sf)
65 > library(ggplot2)
66 > verdun <- st_read(file.choose())
67 Erreur : Cannot open "D:\29.04_Bertrand\Verdun.Rproj"; The source could be corrupt or not supported. See
68
69 > verdun <- st_read(file.choose())
70 Reading layer 'sections' from data source
71 'C:\Users\Nnest\Downloads\donnée sig\cadastre-200049187-sections-shp\sections.shp' using driver 'ESRI Shapefile'
72 Simple feature collection with 288 features and 6 fields
73 Geometry type: MULTIPOLYGON
74 Dimension: XY
75 Bounding box: xmin: 856838.7 ymin: 6892082 xmax: 884940.2 ymax: 6913872
76 Projected CRS: RGF93 v1 / Lambert-93
77 > commune <- st_read(file.choose())
78
```



```

70 Reading layer 'sections' from data source
71 'C:\Users\Nnest\Downloads\donnée sig\cadastre-200049187-sections-shp\sections.shp' using driver 'ESRI Shapefile'
72 Simple feature collection with 288 features and 6 fields
73 Geometry type: MULTIPOLYGON
74 Dimension: XY
75 Bounding box: xmin: 856838.7 ymin: 6892082 xmax: 884940.2 ymax: 6913872
76 Projected CRS: RGF93 v1 / Lambert-93
77 > commune <- st_read(file.choose())
78 Reading layer 'sections' from data source
79 'C:\Users\Nnest\Downloads\donnée sig\cadastre-200049187-sections-shp\sections.shp' using driver 'ESRI Shapefile'
80 Simple feature collection with 288 features and 6 fields
81 Geometry type: MULTIPOLYGON
82 Dimension: XY
83 Bounding box: xmin: 856838.7 ymin: 6892082 xmax: 884940.2 ymax: 6913872
84 Projected CRS: RGF93 v1 / Lambert-93
85 > commune_proj <- st_transform(commune, 2154)
86 >
87 > ggplot() +
88 +   geom_sf(data = commune_proj, fill = "grey90", color = "black") +
89 +   geom_sf(data = bâtiments_proj, aes(color = accessibilité), size = 2) +
90 +   geom_sf(data = arrêts_proj, shape = 3, color = "blue", size = 1) +
91 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
92 +   theme_minimal() +
93 +   labs(title = "Accessibilité aux bâtiments historiques à Verdun",
94 +         subtitle = "Vert = bien desservi / Rouge = mal desservi",
95 +         color = "Accessibilité")
96 Erreur : objet 'bâtiments_proj' introuvable
97
98 > ggplot() +
99 +   +   geom_sf(data = bâtiments_historiques, aes(color = accessibilité)) +
100 +   +   theme_minimal()
101 Erreur dans +geom_sf(data = bâtiments_historiques, aes(color = accessibilité)) :
102   argument incorrect pour un opérateur unitaire
103
104 > ggplot() +
105 +   geom_sf(data = bâtiments, aes(color = accessible)) +
106 +   geom_sf(data = bus_arrets, color = "blue", size = 1) +
107 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
108

```



```
108 + labs(title = "Accessibilité des bâtiments historiques aux arrêts de bus") +
109 + theme_minimal()
110 Error in `geom_sf()` :
111 ! Problem while computing aesthetics.
112 i Error occurred in the 1st layer.
113 Caused by error:
114 ! objet 'accessible' introuvable
115 Run `rlang::last_trace()` to see where the error occurred.
116
117 > ggplot() +
118 +   geom_sf(data = bâtiments, aes(color = accessible)) +
119 +   geom_sf(data = bus_arrêts, color = "blue", size = 1) +
120 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
121 +   labs(title = "Accessibilité des bâtiments historiques aux arrêts de bus") +
122 +   theme_minimal()
123 Error in `geom_sf()` :
124 ! Problem while computing aesthetics.
125 i Error occurred in the 1st layer.
126 Caused by error:
127 ! objet 'accessible' introuvable
128 Run `rlang::last_trace()` to see where the error occurred.
129
130 > ggplot() +
131 +   geom_sf(data = commune_proj, fill = "grey90", color = "black") +
132 +   geom_sf(data = bâtiments, aes(color = accessibilité), size = 2) +
133 +   geom_sf(data = arrêts, shape = 3, color = "blue", size = 1) +
134 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
135 +   theme_minimal() +
136 +   labs(title = "Accessibilité aux bâtiments historiques à Verdun",
137 +         subtitle = "Vert = bien desservi / Rouge = mal desservi",
138 +         color = "Accessibilité")
139 Erreur : objet 'arrêts' introuvable
140
141 > ggplot() +
142 +   geom_sf(data = commune_proj, fill = "grey90", color = "black") +
143 +   geom_sf(data = bâtiments, aes(color = accessibilité), size = 2) +
144 +   geom_sf(data = bus_arrêts, shape = 3, color = "blue", size = 1) +
145 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
146 +
```



```

149 + color = "Accessibilité")
150 Erreur : objet 'bus_arrêts' introuvable
151
152 > ggplot() +
153 +   geom_sf(data = commune_proj, fill = "grey90", color = "black") +
154 +   geom_sf(data = bâtiments, aes(color = accessibilité), size = 2) +
155 +   geom_sf(data = bus_arrêts, shape = 3, color = "blue", size = 1) +
156 +   scale_color_manual(values = c("Bien desservi" = "green", "Mal desservi" = "red")) +
157 +   theme_minimal() +
158 +   labs(title = "Accessibilité aux bâtiments historiques à Verdun",
159 +         subtitle = "Vert = bien desservi / Rouge = mal desservi",
160 +         color = "Accessibilité")
161 Error in `geom_sf()` :
162 ! Problem while computing aesthetics.
163 i Error occurred in the 2nd layer.
164 Caused by error:
165 ! objet 'accessibilité' introuvable
166 Run `rlang::last_trace()` to see where the error occurred.
167
168 > ggplot() +
169 +   geom_sf(data = bâtiments_historiques, aes(color = accessibilité), size = 1) +
170 +   scale_color_manual(values = c("Bonne" = "green", "Moyenne" = "orange", "Faible" = "red")) +
171 +   labs(
172 +     title = "Accessibilité des bâtiments historiques à Saint-Fons",
173 +     subtitle = "Classification selon les critères d'accessibilité",
174 +     color = "Niveau d'accessibilité"
175 +   ) +
176 +   theme_minimal() +
177 +   theme(
178 +     plot.title = element_text(face = "bold", size = 16),
179 +     plot.subtitle = element_text(size = 12),
180 +     legend.position = "right"
181 +   )
182 Messages d'avis :
183 1: No shared levels found between `names(values)` of the manual scale and the data's colour values.
184 2: No shared levels found between `names(values)` of the manual scale and the data's colour values.
185 > library(sf)
186 >
187 > fond_de_carte <- sf_read(file_choose()) # ou sf_

```



```

184 2: No shared levels found between `names(values)` of the manual scale and the data's colour values.
185 > library(sf)
186 >
187 > fond_de_carte <- st_read(file.choose()) # ou .shp
188 Reading layer `sections' from data source
189 `C:\Users\Nnest\Downloads\donnée sig\cadastre-200049187-sections-shp\sections.shp' using driver `ESRI S
190 Simple feature collection with 288 features and 6 fields
191 Geometry type: MULTIPOLYGON
192 Dimension: XY
193 Bounding box: xmin: 856838.7 ymin: 6892082 xmax: 884940.2 ymax: 6913872
194 Projected CRS: RGF93 v1 / Lambert-93
195 > ggplot() +
196 +   geom_sf(data = fond_de_carte, fill = "grey95", color = "grey70") +
197 +   geom_sf(data = bâtiments_historiques, aes(color = accessibilité), size = 1) +
198 +   scale_color_manual(values = c("bonne" = "green", "moyenne" = "orange", "faible" = "red")) +
199 +   theme_minimal()
200 Messages d'avis :
201 1: No shared levels found between `names(values)` of the manual scale and the data's colour values.
202 2: No shared levels found between `names(values)` of the manual scale and the data's colour values.
203 > ggplot() +
204 +   geom_sf(data = bâtiments_historiques, aes(color = accessibilité), size = 1) +
205 +   scale_color_manual(values = c("Bonne" = "green", "Moyenne" = "orange", "Faible" = "red")) +
206 +   labs(
207 +     title = "Accessibilité des bâtiments historiques à Verdun",
208 +     subtitle = "Classification selon les critères d'accessibilité",
209 +     color = "Niveau d'accessibilité"
210 +   ) +
211 +   theme_minimal() +
212 +   theme(
213 +     plot.title = element_text(face = "bold", size = 16),
214 +     plot.subtitle = element_text(size = 12),
215 +     legend.position = "right"
216 +   )
217 Messages d'avis :
218 1: No shared levels found between `names(values)` of the manual scale and the data's colour values.
219 2: No shared levels found between `names(values)` of the manual scale and the data's colour values.
220 > git remote add origin <https://github.com/D-Nnesta/DANSOKO.N_GIROUX.A.git>
221 Erreur : symbole inattendu dans "git remote"

```



Environment

History

Connections

Tutorial

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📶

Import Dataset

212 MiB

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List

🔄

R

Global Environment

🔍

Data

arrêts_metro	4759 obs. of 14 variables	📄
bâtiments_histor...	1845 obs. of 23 variables	📄
bbox_lyon	num [1:2, 1:2] 4.77 45.71 4.9 45.81	📄
communes	278 obs. of 3 variables	📄
df	3 obs. of 2 variables	📄
df_geo	3 obs. of 4 variables	📄
df_sf	3 obs. of 3 variables	📄

Values

bâtiments	chr [1:3] "Bâtiment 1" "Bâtiment 2" "Bâtiment 3"
bbox	num [1:4] 4.86 45.7 4.9 45.74
distance_metro	num [1:3] 500 1200 800
distances	Large units (8780355 elements, 70.2 MB)
lat	45.7113
latitudes	num [1:3] 45.8 45.8 45.8
lon	4.8863
longitudes	num [1:3] 4.86 4.86 4.86
query	"\n[out:json][timeout:25];\n(\n node['amenity'=...