# Spatial Analysis in R

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# The Plan

incremental: true

* Intro to GIS in R
* Importing/Exporting spatial data
* Projections, extents, and units
* Spatial data manipulation
* Intro to spatial analysis

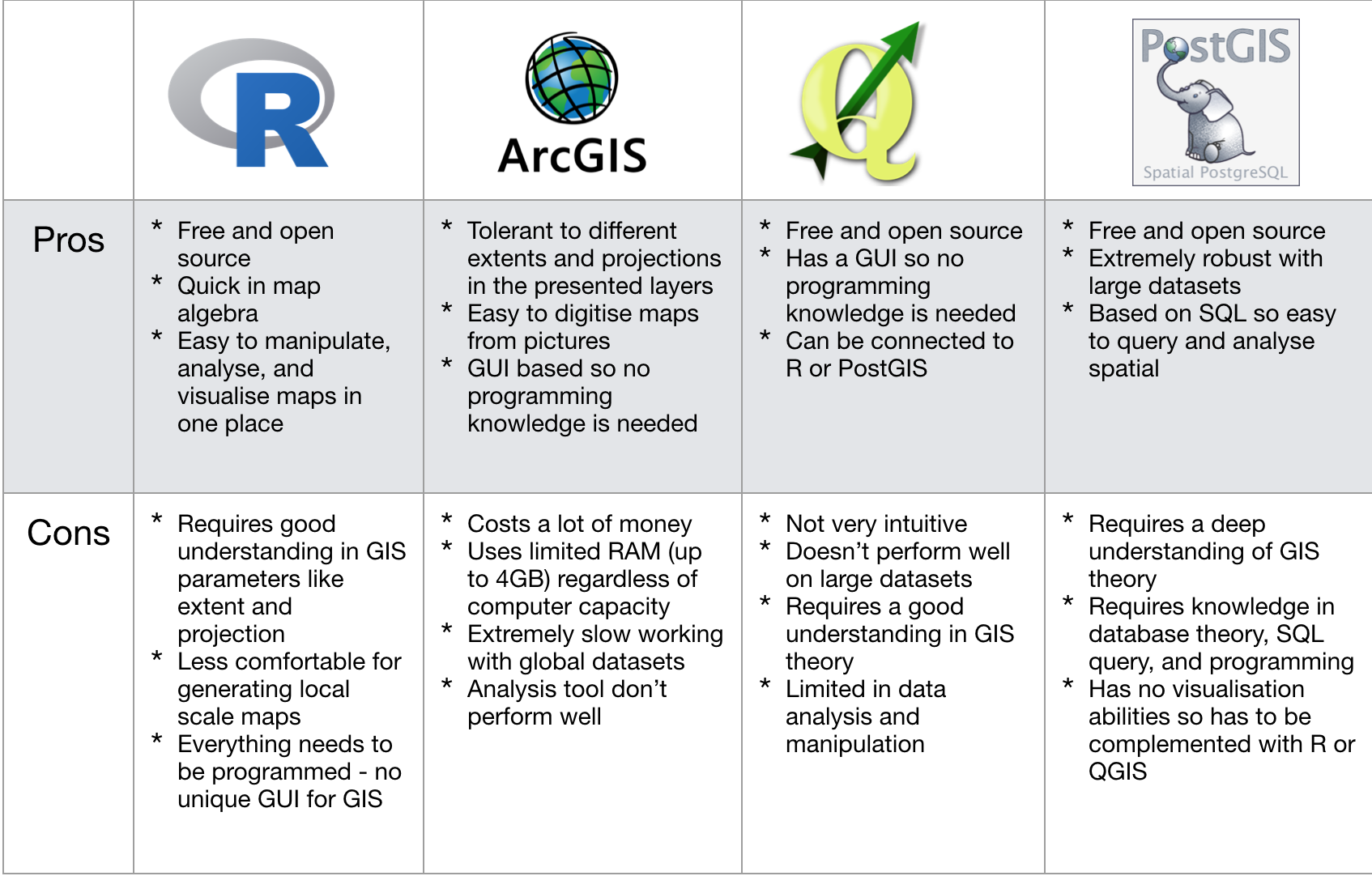
# Intro to GIS (in R)

type: section

# What do you mean, GIS?

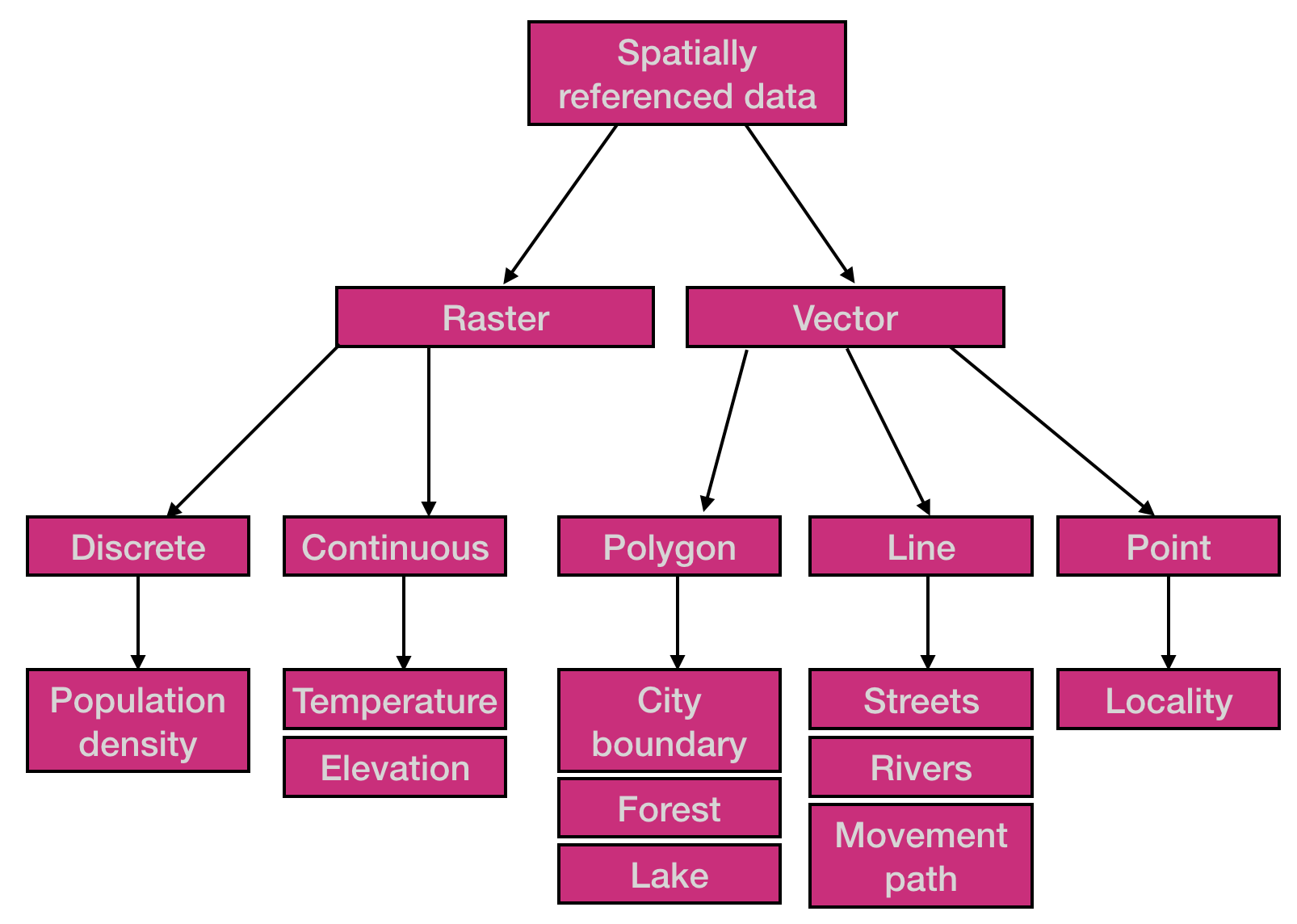
“a framework for gathering, managing, and analyzing spatial data”

# GIS in R



GIS applications

# Data Types



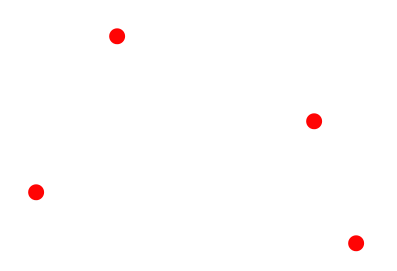
Data types

# Vector Data

* Spreadsheets with a geometry columns
* Vertices and paths

# Vector Data: Points

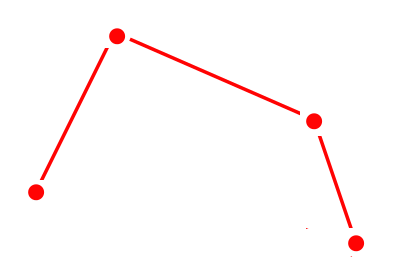
* X - Y coordinates in a spatial reference frame
  + Generally latitude and longitude
  + Careful! X = longitude, Y = latitude!
* e.g. locality



Vector points

# Vector Data: Lines

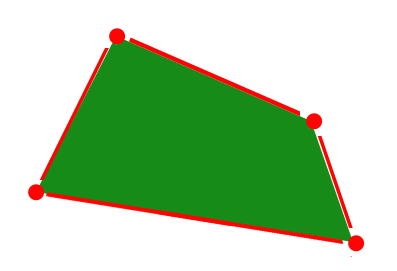
* Links bewteen X - Y coordinates
* Represent one-dimensional features
* e.g. rivers, streets, movement paths



Vector points

# Vector Data: Polygons

* Connect X - Y coordinates and close the path
* Represent two-dimensional features
* e.g. conservation areas, country boundaries, distribution limits



Vector points

# Vector Data: File types

* Points can be text files (e.g. csv files) **OR** shapefiles
  + X - Y table with additional features
* Lines and polygons must be shapefiles

# Vector Data: Shapefiles

* Shapefiles actually require 4 main files:
  + **shp** - geometry of features
  + **dbf** - a dBase file with the attribute data for each feature
    - Can be opened as a spreadsheet
    - Stores data associated with each feature
  + **prj** - projection file (more on projections in a bit)
  + **shx** - helps a GIS program find the features in the .shp file quickly

**IMPORTANT:** each shapefile can only store one type of geometry - point/ polygon/ line

# Raster Data

* Made up of pixels
  + Each pixel has a value
  + Can be continuous or discrete
* Many different file types
  + GeoTIFF
  + Ascii

# Comparing Vectors and Rasters

Data\_type

Pros

Cons

Vector

High geographical accuracy

Doesn’t work well with continuous data

Follows topology rules which increases integrity

Processing intensive due to topology checks

Used for measurements of proximity

Raster

Very good for representing remote sensing data

Less aesthetically pleasing

Performs well with map algebra

Lacks attribute data flexibility

Data size increases with increase in resolution

# Importing/Exporting Spatial Data

type: section

# Reading Vectors

The rgdal library contains a lot of really useful GIS tools. Make friends with it.

**Note:** Mac users will need the slash after “Data”, PC users will need to leave it off.

library(rgdal)  
pkmng\_countries <- readOGR(dsn = "Data/",  
 layer = "pkmng\_polygons")

OGR data source with driver: ESRI Shapefile   
Source: "/Users/Hannah/Dropbox/RWorkingGroup/SpatialAnalysis1/Data", layer: "pkmng\_polygons"  
with 246 features  
It has 12 fields

# Reading Vectors

head(pkmng\_countries[,5:8])

An object of class "SpatialPolygonsDataFrame"  
Slot "data":  
 NAME AREA POP2005 REGION  
0 Antigua and Barbuda 44 83039 19  
1 Algeria 238174 32854159 2  
2 Azerbaijan 8260 8352021 142  
3 Albania 2740 3153731 150  
4 Armenia 2820 3017661 142  
5 Angola 124670 16095214 2  
  
Slot "polygons":  
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An object of class "Polygons"  
Slot "Polygons":  
[[1]]  
An object of class "Polygon"  
Slot "labpt":  
[1] -61.78945 17.09768  
  
Slot "area":  
[1] 0.009571241  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] -61.68667 17.02444  
[2,] -61.88722 17.10527  
[3,] -61.79445 17.16333  
[4,] -61.68667 17.02444  
  
  
[[2]]  
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Slot "area":  
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Slot "hole":  
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Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] -61.72917 17.60861  
[2,] -61.85306 17.58305  
[3,] -61.87306 17.70389  
[4,] -61.72917 17.60861  
  
  
  
Slot "plotOrder":  
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Slot "labpt":  
[1] -61.78945 17.09768  
  
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Slot "area":  
[1] 0.01731165  
  
  
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An object of class "Polygon"  
Slot "labpt":  
[1] 2.627813 28.172110  
  
Slot "area":  
[1] 213.9407  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
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 [1,] 2.963610 36.80222  
 [2,] 4.785832 36.89472  
 [3,] 5.328055 36.64027  
 [4,] 6.398333 37.08639  
 [5,] 8.622030 36.94137  
 [6,] 8.183611 36.52416  
 [7,] 8.251665 34.64444  
 [8,] 7.492499 33.88750  
 [9,] 8.348610 32.53333  
[10,] 9.055277 32.10000  
[11,] 9.537113 30.23439  
[12,] 9.303888 30.12250  
[13,] 9.766388 29.42778  
[14,] 9.948332 27.82444  
[15,] 9.871666 26.51416  
[16,] 9.398333 26.15333  
[17,] 10.252222 24.60583  
[18,] 11.558887 24.30250  
[19,] 11.986475 23.52231  
[20,] 7.450807 20.85286  
[21,] 5.812499 19.44611  
[22,] 4.245277 19.14666  
[23,] 3.331944 18.97639  
[24,] 3.233055 19.82027  
[25,] 1.795833 20.30833  
[26,] 1.167500 20.74111  
[27,] 1.169662 21.10254  
[28,] -4.806111 25.00028  
[29,] -6.662778 26.12917  
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[32,] -8.667223 28.70944  
[33,] -7.123889 29.63694  
[34,] -5.538334 29.90250  
[35,] -4.920556 30.50805  
[36,] -3.626667 30.97055  
[37,] -3.818334 31.69555  
[38,] -2.853889 32.08833  
[39,] -1.180556 32.11055  
[40,] -1.010278 32.50833  
[41,] -1.668056 33.26111  
[42,] -1.747222 34.74721  
[43,] -2.209445 35.08583  
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[45,] 2.963610 36.80222  
  
  
  
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Slot "area":  
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Slot "area":  
[1] 8.494524  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
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 [1,] 46.57138 41.87193  
 [2,] 47.76693 41.19609  
 [3,] 48.58396 41.83577  
 [4,] 49.52805 40.66277  
 [5,] 50.37499 40.26222  
 [6,] 49.48805 40.15054  
 [7,] 48.88828 38.44241  
 [8,] 48.02082 38.83554  
 [9,] 48.35979 39.38522  
[10,] 47.97666 39.71923  
[11,] 46.54038 38.87559  
[12,] 46.54138 39.56444  
[13,] 45.59582 39.97804  
[14,] 46.00194 40.22555  
[15,] 45.15387 41.19860  
[16,] 45.02294 41.29705  
[17,] 45.33666 41.46250  
[18,] 46.52082 41.04999  
[19,] 46.69387 41.31220  
[20,] 46.19443 41.68582  
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Slot "hole":  
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Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] 45.08332 39.76805  
[2,] 45.81999 39.54972  
[3,] 46.17825 38.84115  
[4,] 45.00443 39.41638  
[5,] 44.81304 39.63082  
[6,] 44.77886 39.70638  
[7,] 45.08332 39.76805  
  
  
[[3]]  
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Slot "labpt":  
[1] 45.53453 40.63508  
  
Slot "area":  
[1] 0.001693513  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] 45.51305 40.60722  
[2,] 45.51749 40.66554  
[3,] 45.57305 40.63249  
[4,] 45.51305 40.60722  
  
  
[[4]]  
An object of class "Polygon"  
Slot "labpt":  
[1] 45.01879 41.05240  
  
Slot "area":  
[1] 0.0009946189  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] 45.04527 41.03527  
[2,] 45.00999 41.03305  
[3,] 45.00111 41.08888  
[4,] 45.04527 41.03527  
  
  
[[5]]  
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Slot "labpt":  
[1] 45.22342 40.98129  
  
Slot "area":  
[1] 0.0003603638  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
[1,] 45.24527 40.97694  
[2,] 45.22916 40.96915  
[3,] 45.19582 40.99777  
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Slot "labpt":  
[1] 47.67525 40.34927  
  
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Slot "area":  
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Slot "labpt":  
[1] 20.07437 41.13255  
  
Slot "area":  
[1] 2.890429  
  
Slot "hole":  
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Slot "ringDir":  
[1] 1  
  
Slot "coords":  
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Slot "labpt":  
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Slot "area":  
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Slot "Polygons":  
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An object of class "Polygon"  
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[1] 44.98386 40.30433  
  
Slot "area":  
[1] 3.208623  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
 [1,] 45.15387 41.19860  
 [2,] 46.00194 40.22555  
 [3,] 45.59582 39.97804  
 [4,] 46.54138 39.56444  
 [5,] 46.54038 38.87559  
 [6,] 46.17825 38.84115  
 [7,] 45.81999 39.54972  
 [8,] 45.08332 39.76805  
 [9,] 44.77886 39.70638  
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[11,] 43.65750 40.10860  
[12,] 43.75194 40.74000  
[13,] 43.46077 41.11296  
[14,] 45.02294 41.29705  
[15,] 45.15387 41.19860  
  
  
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Slot "labpt":  
[1] 45.53453 40.63508  
  
Slot "area":  
[1] 0.001693513  
  
Slot "hole":  
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Slot "ringDir":  
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Slot "coords":  
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[4,] 45.57305 40.63249  
  
  
[[3]]  
An object of class "Polygon"  
Slot "labpt":  
[1] 45.01879 41.05240  
  
Slot "area":  
[1] 0.0009946189  
  
Slot "hole":  
[1] TRUE  
  
Slot "ringDir":  
[1] -1  
  
Slot "coords":  
 [,1] [,2]  
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[2,] 45.04527 41.03527  
[3,] 45.00111 41.08888  
[4,] 45.00999 41.03305  
  
  
[[4]]  
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Slot "labpt":  
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Slot "area":  
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Slot "hole":  
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Slot "ringDir":  
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Slot "coords":  
 [,1] [,2]  
[1,] 45.19582 40.99777  
[2,] 45.22916 40.96915  
[3,] 45.24527 40.97694  
[4,] 45.19582 40.99777  
  
  
  
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Slot "ID":  
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Slot "area":  
[1] 3.208623  
  
  
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An object of class "Polygons"  
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Slot "area":  
[1] 103.8622  
  
Slot "hole":  
[1] FALSE  
  
Slot "ringDir":  
[1] 1  
  
Slot "coords":  
 [,1] [,2]  
 [1,] 13.99750 -5.848612  
 [2,] 16.57972 -5.900833  
 [3,] 16.94167 -7.198610  
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[8,] 13.08889 -4.662500  
  
  
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Slot "area":  
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Slot "hole":  
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Slot "ringDir":  
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Slot "coords":  
 [,1] [,2]  
[1,] 11.75083 -16.75528  
[2,] 11.69361 -16.53556  
[3,] 11.77500 -16.80473  
[4,] 11.75083 -16.75528  
  
  
  
Slot "plotOrder":  
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Slot "labpt":  
[1] 17.55246 -12.35038  
  
Slot "ID":  
[1] "5"  
  
Slot "area":  
[1] 104.4794  
  
  
  
Slot "plotOrder":  
[1] 2 6 3 5 4 1  
  
Slot "bbox":  
 min max  
x -61.88722 50.37499  
y -18.01639 42.61805  
  
Slot "proj4string":  
CRS arguments:  
 +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0

# Reading Vectors: Tidyverse

There is a tidyverse alternative - View spatial objects - Edit the associated data

library(spdplyr)  
pkmng\_countries

class : SpatialPolygonsDataFrame   
features : 246   
extent : -180, 180, -90, 83.57027 (xmin, xmax, ymin, ymax)  
variables : 12  
# A tibble: 246 x 12  
 FIPS ISO2 ISO3 UN NAME AREA POP2005 REGION SUBREGI LON LAT  
 <fct> <fct> <fct> <int> <fct> <int> <dbl> <int> <int> <dbl> <dbl>  
 1 AC AG ATG 28 Anti… 44 8.30e4 19 29 -61.8 17.1  
 2 AG DZ DZA 12 Alge… 238174 3.29e7 2 15 2.63 28.2  
 3 AJ AZ AZE 31 Azer… 8260 8.35e6 142 145 47.4 40.4  
 4 AL AL ALB 8 Alba… 2740 3.15e6 150 39 20.1 41.1  
 5 AM AM ARM 51 Arme… 2820 3.02e6 142 145 44.6 40.5  
 6 AO AO AGO 24 Ango… 124670 1.61e7 2 17 17.5 -12.3  
 7 AQ AS ASM 16 Amer… 20 6.41e4 9 61 -171. -14.3  
 8 AR AR ARG 32 Arge… 273669 3.87e7 19 5 -65.2 -35.4  
 9 AS AU AUS 36 Aust… 768230 2.03e7 9 53 136. -25.0  
10 BA BH BHR 48 Bahr… 71 7.25e5 142 145 50.6 26.0  
# … with 236 more rows, and 1 more variable: pkmn\_rc <int>

# Reading Vectors: Tidyverse

Use tidyverse functions to manipulate spatial data:

#filter out all countries without any Pokemon sightings, and let's rename the column while we're at it:  
pkmng\_countries %>%  
 filter(pkmn\_rc > 0) %>%  
 rename(Country = NAME)

class : SpatialPolygonsDataFrame   
features : 72   
extent : -179.999, 179.999, -55.9175, 83.10942 (xmin, xmax, ymin, ymax)  
variables : 12  
# A tibble: 72 x 12  
 FIPS ISO2 ISO3 UN Country AREA POP2005 REGION SUBREGI LON LAT  
 <fct> <fct> <fct> <int> <fct> <int> <dbl> <int> <int> <dbl> <dbl>  
 1 AO AO AGO 24 Angola 124670 1.61e7 2 17 17.5 -12.3   
 2 AR AR ARG 32 Argent… 273669 3.87e7 19 5 -65.2 -35.4   
 3 AS AU AUS 36 Austra… 768230 2.03e7 9 53 136. -25.0   
 4 BK BA BIH 70 Bosnia… 5120 3.92e6 150 39 17.8 44.2   
 5 BM MM MMR 104 Burma 65755 4.80e7 142 35 96.0 21.7   
 6 BR BR BRA 76 Brazil 845942 1.87e8 19 5 -53.1 -10.8   
 7 BX BN BRN 96 Brunei… 527 3.74e5 142 35 115. 4.47  
 8 CA CA CAN 124 Canada 909351 3.23e7 19 21 -109. 59.1   
 9 CB KH KHM 116 Cambod… 17652 1.40e7 142 35 105. 12.7   
10 CI CL CHL 152 Chile 74880 1.63e7 19 5 -69.4 -23.4   
# … with 62 more rows, and 1 more variable: pkmn\_rc <int>

# Reading Vectors: Point data

pkmng\_points\_dat <- read.csv("Data/pkmng\_points.csv")  
pkmng\_points\_dat

pokemonId latitude longitude appearedLocalTime cellId\_90m  
1 16 53.685735 -0.443450 2016-09-04T09:31:44Z 5.222182e+18  
2 60 46.004027 8.957153 2016-09-06T07:57:06Z 5.153294e+18  
3 19 46.235403 15.254241 2016-09-04T08:33:55Z 5.144642e+18  
4 16 50.675427 14.541165 2016-09-04T09:23:24Z 5.118738e+18  
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475 46 38.986282 -84.693548 2016-09-03T13:28:44Z 9.818344e+18  
476 32 41.759899 -72.458222 2016-09-06T01:17:49Z 9.936728e+18  
477 19 52.157406 -106.705144 2016-09-02T22:32:43Z 5.982179e+18  
478 29 34.646621 -118.146052 2016-09-04T18:16:03Z 9.278077e+18  
479 48 29.167187 -80.977567 2016-09-03T05:11:30Z 9.864809e+18  
480 46 36.809144 -119.761650 2016-09-07T23:29:47Z 9.265133e+18  
481 140 33.313270 -112.054297 2016-09-03T04:50:37Z 9.739909e+18  
482 13 33.760078 -84.387756 2016-09-04T21:59:42Z 9.868799e+18  
483 48 53.614217 -113.383720 2016-09-04T15:06:41Z 6.025883e+18  
 cellId\_180m cellId\_370m cellId\_730m cellId\_1460m cellId\_2920m  
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1 5.222182e+18 morning 11 31  
2 5.153294e+18 morning 9 57  
3 5.144642e+18 morning 10 33  
4 5.118738e+18 morning 11 23  
5 5.152070e+18 evening 18 2  
6 5.119451e+18 evening 17 51  
7 9.868787e+18 night 3 5  
8 5.153294e+18 morning 8 22  
9 9.278210e+18 morning 7 13  
10 9.289152e+18 evening 16 49  
11 5.220700e+18 evening 18 12  
12 5.153299e+18 evening 16 26  
13 9.815863e+18 night 4 55  
14 5.154011e+18 morning 11 23  
15 9.777943e+18 night 0 28  
16 6.094904e+18 morning 9 22  
17 5.120010e+18 afternoon 13 8  
18 5.180957e+18 afternoon 14 39  
19 1.349697e+18 night 23 56  
20 3.522552e+18 evening 16 13  
21 5.153294e+18 afternoon 15 24  
22 6.025854e+18 morning 8 24  
23 3.748104e+18 afternoon 15 25  
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25 5.119398e+18 evening 19 19  
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28 9.931792e+18 night 2 51  
29 5.120231e+18 evening 18 39  
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16 FALSE Los\_Angeles America Clear  
17 FALSE Prague Europe PartlyCloudy  
18 FALSE Paris Europe LightRain  
19 TRUE Madrid Europe PartlyCloudy  
20 FALSE Bangkok Asia Clear  
21 FALSE Zurich Europe Clear  
22 FALSE Edmonton America Clear  
23 TRUE Hong\_Kong Asia Clear  
24 FALSE London Europe Clear  
25 FALSE Prague Europe MostlyCloudy  
26 FALSE New\_York America Clear  
27 FALSE Prague Europe MostlyCloudy  
28 TRUE Toronto America LightRain  
29 FALSE Prague Europe MostlyCloudy  
30 FALSE Los\_Angeles America Clear  
31 TRUE Rome Europe Overcast  
32 FALSE Mexico\_City America Humid  
33 FALSE Zurich Europe Clear  
34 TRUE Toronto America Clear  
35 FALSE Vienna Europe MostlyCloudy  
36 FALSE Monterrey America MostlyCloudy  
37 FALSE Kolkata Asia Clear  
38 FALSE Denver America PartlyCloudy  
39 FALSE Mexico\_City America PartlyCloudy  
40 FALSE Chicago America Clear  
41 FALSE Dublin Europe Overcast  
42 FALSE New\_York America Clear  
43 FALSE New\_York America Clear  
44 TRUE Chicago America Clear  
45 FALSE Prague Europe PartlyCloudy  
46 FALSE Edmonton America Clear  
47 FALSE Prague Europe Clear  
48 FALSE Los\_Angeles America Clear  
49 TRUE Chicago America PartlyCloudy  
50 FALSE New\_York America Clear  
51 FALSE Mexico\_City America HumidandOvercast  
52 FALSE Paris Europe PartlyCloudy  
53 FALSE Chicago America Clear  
54 TRUE Rome Europe Clear  
55 FALSE London Europe Clear  
56 FALSE New\_York America Clear  
57 FALSE Warsaw Europe Clear  
58 FALSE Los\_Angeles America Clear  
59 FALSE New\_York America Clear  
60 FALSE Vienna Europe MostlyCloudy  
61 FALSE Bangkok Asia Clear  
62 FALSE Kolkata Asia Clear  
63 FALSE Ljubljana Europe MostlyCloudy  
64 TRUE Oslo Europe Clear  
65 FALSE London Europe Clear  
66 FALSE New\_York America Drizzle  
67 FALSE Melbourne Australia Overcast  
68 FALSE New\_York America Clear  
69 TRUE Winnipeg America Clear  
70 FALSE Edmonton America PartlyCloudy  
71 FALSE Phoenix America Clear  
72 FALSE New\_York America Clear  
73 FALSE Rome Europe Clear  
74 FALSE Rome Europe Clear  
75 FALSE New\_York America Clear  
76 FALSE Prague Europe PartlyCloudy  
77 FALSE Vienna Europe MostlyCloudy  
78 FALSE Prague Europe PartlyCloudy  
79 TRUE Brunei Asia Clear  
80 FALSE Prague Europe MostlyCloudy  
81 FALSE New\_York America Clear  
82 TRUE Stockholm Europe PartlyCloudy  
83 TRUE New\_York America Clear  
84 TRUE Vancouver America Drizzle  
85 FALSE Ljubljana Europe PartlyCloudy  
86 FALSE New\_York America Clear  
87 TRUE Regina America Rain  
88 FALSE New\_York America Clear  
89 TRUE Madrid Europe MostlyCloudy  
90 FALSE Vancouver America Clear  
91 FALSE Bucharest Europe Clear  
92 FALSE Rome Europe Clear  
93 FALSE Mexico\_City America MostlyCloudy  
94 FALSE Los\_Angeles America Clear  
95 FALSE London Europe Clear  
96 FALSE Stockholm Europe Clear  
97 FALSE Los\_Angeles America Clear  
98 FALSE Prague Europe PartlyCloudy  
99 FALSE Melbourne Australia Overcast  
100 FALSE Edmonton America PartlyCloudy  
101 TRUE Toronto America Clear  
102 TRUE Dubai Asia Clear  
103 FALSE Edmonton America Clear  
104 TRUE Puerto\_Rico America Clear  
105 FALSE New\_York America Clear  
106 FALSE Melbourne Australia Overcast  
107 TRUE Vancouver America PartlyCloudy  
108 FALSE New\_York America Clear  
109 FALSE Chicago America Clear  
110 TRUE Hong\_Kong Asia MostlyCloudy  
111 FALSE Chicago America Clear  
112 FALSE Rome Europe Clear  
113 FALSE Stockholm Europe MostlyCloudy  
114 FALSE Prague Europe MostlyCloudy  
115 FALSE Prague Europe PartlyCloudy  
116 TRUE New\_York America Clear  
117 TRUE Bahia America PartlyCloudy  
118 FALSE Phoenix America Clear  
119 FALSE Los\_Angeles America Clear  
120 TRUE London Europe Clear  
121 FALSE Edmonton America PartlyCloudy  
122 TRUE Auckland Pacific Clear  
123 FALSE Prague Europe Clear  
124 TRUE Denver America Clear  
125 FALSE Amsterdam Europe MostlyCloudy  
126 TRUE Denver America PartlyCloudy  
127 FALSE Denver America Clear  
128 FALSE Rome Europe Clear  
129 FALSE Prague Europe MostlyCloudy  
130 TRUE Rome Europe PartlyCloudy  
131 TRUE Sao\_Paulo America PartlyCloudy  
132 FALSE Dublin Europe PartlyCloudy  
133 FALSE Denver America Clear  
134 FALSE London Europe Clear  
135 FALSE New\_York America Clear  
136 FALSE Mexico\_City America Clear  
137 FALSE Chicago America Clear  
138 FALSE New\_York America Clear  
139 TRUE New\_York America Clear  
140 TRUE New\_York America LightRain  
141 FALSE Ljubljana Europe PartlyCloudy  
142 FALSE Kuala\_Lumpur Asia Clear  
143 FALSE Prague Europe Overcast  
144 FALSE Warsaw Europe MostlyCloudy  
145 FALSE New\_York America Clear  
146 FALSE Stockholm Europe MostlyCloudy  
147 TRUE London Europe Breezy  
148 FALSE Chicago America PartlyCloudy  
149 FALSE Paris Europe Clear  
150 FALSE New\_York America PartlyCloudy  
151 TRUE Helsinki Europe MostlyCloudy  
152 FALSE Madrid Europe PartlyCloudy  
153 FALSE New\_York America Clear  
154 FALSE Paris Europe Overcast  
155 FALSE London Europe Overcast  
156 FALSE Mexico\_City America Clear  
157 FALSE Prague Europe MostlyCloudy  
158 FALSE Rome Europe Clear  
159 FALSE Mexico\_City America Humid  
160 FALSE Prague Europe Drizzle  
161 FALSE Prague Europe MostlyCloudy  
162 TRUE Paris Europe Clear  
163 FALSE Monterrey America Clear  
164 FALSE New\_York America Clear  
165 FALSE Rome Europe Clear  
166 FALSE Madrid Europe PartlyCloudy  
167 FALSE Ljubljana Europe MostlyCloudy  
168 FALSE Edmonton America MostlyCloudy  
169 FALSE Ljubljana Europe MostlyCloudy  
170 FALSE Los\_Angeles America Clear  
171 FALSE Melbourne Australia Overcast  
172 FALSE New\_York America Clear  
173 FALSE London Europe PartlyCloudy  
174 FALSE New\_York America Clear  
175 TRUE Rome Europe PartlyCloudy  
176 TRUE Chicago America Clear  
177 TRUE Oslo Europe Drizzle  
178 FALSE Madrid Europe PartlyCloudy  
179 FALSE Phoenix America Clear  
180 FALSE London Europe Clear  
181 FALSE Zurich Europe Dry  
182 FALSE Edmonton America Clear  
183 FALSE New\_York America Clear  
184 FALSE New\_York America Clear  
185 TRUE Chicago America PartlyCloudy  
186 TRUE Los\_Angeles America PartlyCloudy  
187 FALSE New\_York America Clear  
188 FALSE London Europe Clear  
189 TRUE Warsaw Europe PartlyCloudy  
190 FALSE New\_York America Clear  
191 FALSE Copenhagen Europe Clear  
192 TRUE New\_York America PartlyCloudy  
193 FALSE London Europe Overcast  
194 FALSE Prague Europe MostlyCloudy  
195 TRUE Oslo Europe Clear  
196 FALSE Prague Europe PartlyCloudy  
197 FALSE Paris Europe MostlyCloudy  
198 FALSE Prague Europe MostlyCloudy  
199 FALSE Rome Europe Clear  
200 FALSE Vancouver America Clear  
201 FALSE Oslo Europe MostlyCloudy  
202 TRUE New\_York America Clear  
203 FALSE Mexico\_City America Clear  
204 FALSE London Europe Overcast  
205 TRUE Chicago America Clear  
206 FALSE London Europe Clear  
207 FALSE Los\_Angeles America PartlyCloudy  
208 TRUE Chicago America PartlyCloudy  
209 TRUE Zurich Europe Overcast  
210 FALSE Rome Europe Clear  
211 FALSE Denver America Clear  
212 FALSE Melbourne Australia Clear  
213 FALSE Chicago America PartlyCloudy  
214 FALSE Warsaw Europe MostlyCloudy  
215 FALSE London Europe PartlyCloudy  
216 FALSE Los\_Angeles America PartlyCloudy  
217 TRUE Stockholm Europe Overcast  
218 FALSE Paris Europe Clear  
219 FALSE Dublin Europe MostlyCloudy  
220 TRUE New\_York America Clear  
221 FALSE London Europe Clear  
222 FALSE Edmonton America PartlyCloudy  
223 FALSE Mexico\_City America PartlyCloudy  
224 FALSE Prague Europe PartlyCloudy  
225 FALSE New\_York America Clear  
226 FALSE Prague Europe MostlyCloudy  
227 FALSE New\_York America Clear  
228 FALSE Edmonton America Clear  
229 FALSE Prague Europe Overcast  
230 FALSE Stockholm Europe MostlyCloudy  
231 FALSE London Europe Clear  
232 FALSE London Europe PartlyCloudy  
233 FALSE New\_York America Clear  
234 FALSE London Europe Clear  
235 FALSE New\_York America Clear  
236 FALSE Chicago America Clear  
237 FALSE Prague Europe PartlyCloudy  
238 FALSE New\_York America Clear  
239 FALSE New\_York America Clear  
240 FALSE Stockholm Europe Clear  
241 FALSE Prague Europe MostlyCloudy  
242 FALSE New\_York America Clear  
243 FALSE Denver America LightRain  
244 TRUE Chicago America Clear  
245 FALSE Prague Europe MostlyCloudy  
246 FALSE Prague Europe PartlyCloudy  
247 FALSE Prague Europe PartlyCloudy  
248 TRUE Chicago America Clear  
249 TRUE Rome Europe PartlyCloudy  
250 TRUE Los\_Angeles America PartlyCloudy  
251 FALSE Prague Europe PartlyCloudy  
252 FALSE Ljubljana Europe MostlyCloudy  
253 FALSE Mexico\_City America Clear  
254 FALSE London Europe Overcast  
255 FALSE Dublin Europe MostlyCloudy  
256 FALSE Rome Europe PartlyCloudy  
257 FALSE Stockholm Europe MostlyCloudy  
258 FALSE Denver America Clear  
259 FALSE Prague Europe MostlyCloudy  
260 FALSE Prague Europe MostlyCloudy  
261 FALSE Dublin Europe PartlyCloudy  
262 FALSE Kuching Asia Clear  
263 FALSE New\_York America Clear  
264 FALSE New\_York America Clear  
265 TRUE Los\_Angeles America Clear  
266 FALSE Bangkok Asia Overcast  
267 TRUE Stockholm Europe PartlyCloudy  
268 FALSE Warsaw Europe PartlyCloudy  
269 FALSE Oslo Europe Clear  
270 TRUE Los\_Angeles America Clear  
271 FALSE New\_York America Clear  
272 FALSE Rome Europe MostlyCloudy  
273 FALSE Prague Europe Drizzle  
274 FALSE Monterrey America MostlyCloudy  
275 TRUE Buenos\_Aires America/Argentina Overcast  
276 FALSE New\_York America Clear  
277 FALSE Monterrey America PartlyCloudy  
278 TRUE Warsaw Europe Clear  
279 FALSE Rome Europe MostlyCloudy  
280 FALSE Buenos\_Aires America/Argentina Clear  
281 FALSE Oslo Europe Clear  
282 FALSE New\_York America Clear  
283 FALSE Los\_Angeles America Clear  
284 FALSE New\_York America Clear  
285 TRUE Chicago America Clear  
286 FALSE Edmonton America Clear  
287 TRUE Chicago America Clear  
288 FALSE Los\_Angeles America Clear  
289 TRUE London Europe Overcast  
290 TRUE Madrid Europe Clear  
291 TRUE Chicago America Clear  
292 FALSE Chicago America Clear  
293 TRUE Hong\_Kong Asia MostlyCloudy  
294 FALSE Rome Europe PartlyCloudy  
295 FALSE Los\_Angeles America Clear  
296 FALSE New\_York America Clear  
297 FALSE Prague Europe MostlyCloudy  
298 TRUE New\_York America Clear  
299 FALSE Prague Europe MostlyCloudy  
300 FALSE Zurich Europe Clear  
301 FALSE Prague Europe Drizzle  
302 FALSE Edmonton America Clear  
303 FALSE Chicago America PartlyCloudy  
304 FALSE Dublin Europe Overcast  
305 TRUE Paris Europe Drizzle  
306 FALSE Mexico\_City America Overcast  
307 FALSE London Europe PartlyCloudy  
308 TRUE New\_York America Clear  
309 FALSE Rome Europe PartlyCloudy  
310 FALSE Los\_Angeles America Clear  
311 FALSE Paris Europe Clear  
312 FALSE London Europe Clear  
313 TRUE Chicago America BreezyandPartlyCloudy  
314 TRUE Oslo Europe Clear  
315 FALSE New\_York America Clear  
316 FALSE New\_York America Clear  
317 TRUE Vancouver America Clear  
318 TRUE Chicago America PartlyCloudy  
319 FALSE Brunei Asia MostlyCloudy  
320 FALSE Montreal America Clear  
321 FALSE Amsterdam Europe Overcast  
322 TRUE Buenos\_Aires America/Argentina Clear  
323 FALSE Ljubljana Europe Overcast  
324 TRUE New\_York America Rain  
325 FALSE Los\_Angeles America PartlyCloudy  
326 TRUE Oslo Europe Clear  
327 FALSE New\_York America Clear  
328 TRUE Stockholm Europe PartlyCloudy  
329 FALSE Los\_Angeles America Clear  
330 FALSE London Europe Clear  
331 TRUE New\_York America PartlyCloudy  
332 FALSE Denver America Clear  
333 FALSE London Europe PartlyCloudy  
334 FALSE New\_York America Clear  
335 FALSE Warsaw Europe Clear  
336 FALSE New\_York America Clear  
337 FALSE New\_York America Clear  
338 TRUE New\_York America Clear  
339 FALSE Bangkok Asia MostlyCloudy  
340 FALSE Rome Europe Clear  
341 FALSE London Europe Clear  
342 FALSE Prague Europe Overcast  
343 TRUE Puerto\_Rico America Clear  
344 FALSE Mexico\_City America HumidandOvercast  
345 FALSE New\_York America PartlyCloudy  
346 FALSE Mexico\_City America Clear  
347 FALSE Prague Europe MostlyCloudy  
348 FALSE New\_York America PartlyCloudy  
349 FALSE Rome Europe Clear  
350 FALSE New\_York America Clear  
351 TRUE Oslo Europe MostlyCloudy  
352 TRUE New\_York America Clear  
353 TRUE Hong\_Kong Asia PartlyCloudy  
354 FALSE Auckland Pacific Clear  
355 FALSE Stockholm Europe MostlyCloudy  
356 FALSE New\_York America Clear  
357 FALSE New\_York America Clear  
358 FALSE Prague Europe PartlyCloudy  
359 FALSE Stockholm Europe Clear  
360 FALSE New\_York America Clear  
361 TRUE New\_York America PartlyCloudy  
362 FALSE Edmonton America Clear  
363 FALSE London Europe Clear  
364 FALSE Prague Europe MostlyCloudy  
365 FALSE Bangkok Asia Overcast  
366 FALSE Prague Europe PartlyCloudy  
367 FALSE Auckland Pacific Clear  
368 FALSE London Europe Clear  
369 FALSE London Europe Clear  
370 FALSE Chicago America Clear  
371 FALSE New\_York America Clear  
372 FALSE Singapore Asia Clear  
373 FALSE New\_York America Clear  
374 FALSE Vancouver America Clear  
375 FALSE New\_York America Clear  
376 FALSE London Europe Clear  
377 FALSE Dublin Europe Overcast  
378 FALSE New\_York America Clear  
379 TRUE Rome Europe PartlyCloudy  
380 FALSE New\_York America Clear  
381 FALSE New\_York America Clear  
382 FALSE New\_York America PartlyCloudy  
383 FALSE Prague Europe Clear  
384 FALSE Vancouver America Clear  
385 FALSE Prague Europe PartlyCloudy  
386 FALSE Berlin Europe Clear  
387 TRUE Toronto America LightRain  
388 FALSE Denver America Clear  
389 FALSE New\_York America Clear  
390 FALSE Los\_Angeles America Clear  
391 TRUE Noumea Pacific MostlyCloudy  
392 FALSE Los\_Angeles America Clear  
393 TRUE Tokyo Asia Clear  
394 FALSE Chicago America Clear  
395 FALSE New\_York America Clear  
396 TRUE Chicago America Clear  
397 FALSE New\_York America Clear  
398 FALSE New\_York America Clear  
399 FALSE Rome Europe PartlyCloudy  
400 TRUE London Europe Clear  
401 FALSE Tokyo Asia Clear  
402 TRUE London Europe Clear  
403 FALSE Rome Europe Clear  
404 FALSE Warsaw Europe PartlyCloudy  
405 FALSE New\_York America LightRain  
406 TRUE Stockholm Europe Clear  
407 FALSE Prague Europe MostlyCloudy  
408 FALSE Denver America Clear  
409 TRUE Chicago America PartlyCloudy  
410 FALSE Rome Europe PartlyCloudy  
411 FALSE Ho\_Chi\_Minh Asia Overcast  
412 FALSE Chicago America Clear  
413 FALSE Denver America Clear  
414 TRUE Stockholm Europe Clear  
415 FALSE New\_York America Clear  
416 TRUE Los\_Angeles America Clear  
417 FALSE Oslo Europe Clear  
418 FALSE New\_York America Clear  
419 FALSE Los\_Angeles America Clear  
420 FALSE New\_York America Clear  
421 FALSE New\_York America PartlyCloudy  
422 FALSE Los\_Angeles America Clear  
423 FALSE Mexico\_City America LightRain  
424 FALSE Prague Europe MostlyCloudy  
425 FALSE Rome Europe MostlyCloudy  
426 FALSE Denver America Clear  
427 FALSE Paris Europe Clear  
428 TRUE Stockholm Europe Clear  
429 FALSE New\_York America Clear  
430 TRUE New\_York America LightRainandBreezy  
431 FALSE London Europe Clear  
432 FALSE Oslo Europe MostlyCloudy  
433 FALSE Prague Europe PartlyCloudy  
434 FALSE Rome Europe MostlyCloudy  
435 FALSE Vancouver America Clear  
436 TRUE Brunei Asia Clear  
437 FALSE New\_York America Clear  
438 FALSE London Europe Clear  
439 FALSE London Europe Clear  
440 FALSE Bangkok Asia MostlyCloudy  
441 FALSE Mexico\_City America Clear  
442 FALSE Edmonton America Clear  
443 TRUE Chicago America Clear  
444 FALSE Edmonton America Clear  
445 TRUE Chicago America Clear  
446 FALSE Monterrey America Clear  
447 FALSE Prague Europe Rain  
448 FALSE Ljubljana Europe MostlyCloudy  
449 FALSE Mexico\_City America Clear  
450 FALSE Warsaw Europe PartlyCloudy  
451 FALSE Chicago America Clear  
452 FALSE New\_York America Clear  
453 FALSE Chicago America Clear  
454 FALSE Edmonton America Overcast  
455 FALSE Los\_Angeles America Clear  
456 FALSE Mexico\_City America Clear  
457 TRUE New\_York America MostlyCloudy  
458 TRUE Madrid Europe PartlyCloudy  
459 FALSE Zurich Europe PartlyCloudy  
460 FALSE Paris Europe Overcast  
461 FALSE Prague Europe Overcast  
462 FALSE New\_York America Clear  
463 TRUE Prague Europe Overcast  
464 FALSE London Europe Clear  
465 FALSE Manila Asia MostlyCloudy  
466 FALSE Chicago America PartlyCloudy  
467 FALSE Oslo Europe Clear  
468 FALSE Stockholm Europe MostlyCloudy  
469 TRUE Stockholm Europe MostlyCloudy  
470 TRUE Madrid Europe Clear  
471 TRUE Chicago America Clear  
472 FALSE New\_York America Clear  
473 TRUE New\_York America Clear  
474 FALSE Chicago America Clear  
475 FALSE New\_York America Clear  
476 FALSE New\_York America PartlyCloudy  
477 FALSE Regina America PartlyCloudy  
478 FALSE Los\_Angeles America Clear  
479 TRUE New\_York America PartlyCloudy  
480 FALSE Los\_Angeles America Clear  
481 FALSE Phoenix America PartlyCloudy  
482 FALSE New\_York America Clear  
483 FALSE Edmonton America PartlyCloudy  
 temperature windSpeed windBearing pressure weatherIcon  
1 17.0 13.07 295 1007.84 clear-day  
2 24.7 15.32 2 1017.44 clear-day  
3 23.3 0.84 311 1017.10 partly-cloudy-day  
4 21.9 5.12 238 1012.70 partly-cloudy-day  
5 28.9 6.92 105 1014.84 partly-cloudy-day  
6 24.6 8.54 240 1016.33 partly-cloudy-day  
7 24.5 5.00 230 1021.24 clear-night  
8 24.7 15.32 2 1017.44 clear-day  
9 18.0 5.03 271 1009.11 clear-night  
10 16.6 3.02 49 1011.09 clear-day  
11 21.1 6.02 178 1023.00 partly-cloudy-day  
12 25.1 3.23 233 1016.15 clear-day  
13 18.8 3.59 90 1023.04 clear-night  
14 25.4 1.72 173 1012.85 partly-cloudy-day  
15 29.3 8.51 143 1014.72 clear-day  
16 12.8 2.99 337 1016.50 clear-night  
17 18.4 12.43 32 1024.46 partly-cloudy-day  
18 20.9 9.11 259 1016.87 rain  
19 25.7 3.46 302 1017.74 partly-cloudy-night  
20 28.9 8.02 260 1008.15 clear-day  
21 28.4 7.48 1 1012.16 clear-day  
22 8.2 6.47 259 1007.77 clear-night  
23 27.5 6.99 180 1006.60 clear-day  
24 13.4 2.14 276 1014.46 clear-night  
25 16.0 9.29 301 1018.22 partly-cloudy-day  
26 29.8 5.21 86 1019.64 clear-day  
27 22.0 4.21 299 1017.02 partly-cloudy-day  
28 24.6 3.64 90 1013.39 rain  
29 15.1 4.47 234 1016.29 partly-cloudy-day  
30 21.5 9.95 226 1008.51 clear-day  
31 24.4 6.61 352 1013.57 cloudy  
32 25.1 10.35 18 1012.70 clear-day  
33 28.4 7.48 1 1012.16 clear-day  
34 22.0 5.52 80 1023.92 clear-day  
35 23.4 4.23 241 1017.18 partly-cloudy-night  
36 31.7 5.45 121 1013.10 partly-cloudy-day  
37 29.8 3.84 84 1003.65 clear-day  
38 18.8 3.50 304 1007.84 partly-cloudy-night  
39 22.9 0.79 139 1018.71 partly-cloudy-night  
40 25.4 0.92 123 1020.69 clear-night  
41 15.8 8.88 175 1009.69 cloudy  
42 28.1 7.54 5 1022.47 clear-day  
43 23.6 9.75 342 1017.35 clear-day  
44 26.8 2.90 153 1017.78 clear-night  
45 14.8 6.00 308 1020.04 partly-cloudy-night  
46 7.5 2.45 96 1017.10 clear-night  
47 14.5 6.45 88 1028.15 clear-night  
48 27.0 6.25 148 1007.64 clear-day  
49 26.6 5.25 150 1020.27 partly-cloudy-night  
50 22.8 2.41 110 1023.04 clear-night  
51 25.9 5.67 40 1010.08 cloudy  
52 21.0 6.94 218 1019.82 partly-cloudy-day  
53 24.9 0.73 353 1014.57 clear-night  
54 22.1 8.20 348 1016.46 clear-day  
55 15.7 13.50 233 1004.47 clear-night  
56 32.0 9.12 345 1015.59 clear-day  
57 13.9 5.48 358 1019.94 clear-night  
58 19.3 7.67 254 1008.57 clear-day  
59 17.2 5.98 105 1022.68 clear-night  
60 17.4 9.08 302 1023.91 partly-cloudy-day  
61 32.8 11.00 240 1008.92 clear-day  
62 27.2 8.51 230 1008.29 clear-day  
63 16.8 1.17 53 1020.97 partly-cloudy-day  
64 12.3 5.24 110 1004.54 clear-day  
65 20.0 4.35 211 1021.23 clear-night  
66 19.2 15.82 21 1010.66 rain  
67 10.4 12.44 243 1009.10 cloudy  
68 21.3 3.00 230 1020.23 clear-night  
69 21.4 3.28 262 1008.24 clear-day  
70 12.3 4.38 329 1010.99 partly-cloudy-day  
71 24.9 6.78 151 1005.86 clear-night  
72 23.2 7.00 190 1019.47 clear-night  
73 11.5 20.31 74 1014.20 clear-night  
74 21.2 1.39 212 1015.26 clear-day  
75 31.5 2.28 182 1020.72 clear-day  
76 11.8 4.04 211 1017.35 partly-cloudy-night  
77 27.6 2.48 277 1012.55 partly-cloudy-day  
78 20.9 7.06 0 1025.19 partly-cloudy-day  
79 24.8 3.64 166 1010.86 clear-day  
80 24.9 5.79 263 1016.38 partly-cloudy-day  
81 23.3 3.80 91 1020.75 clear-day  
82 16.5 5.33 271 1011.67 partly-cloudy-day  
83 18.1 4.62 110 1022.54 clear-night  
84 14.7 7.99 170 1014.07 rain  
85 20.1 0.17 38 1018.02 partly-cloudy-night  
86 22.0 6.75 255 1021.76 clear-day  
87 22.5 3.17 231 1003.77 rain  
88 19.1 6.78 55 1021.89 clear-day  
89 30.5 0.95 177 1018.55 partly-cloudy-day  
90 13.3 4.38 158 1015.41 clear-night  
91 14.6 5.96 8 1024.55 clear-night  
92 24.4 4.65 207 1012.81 clear-day  
93 30.5 7.02 86 1012.00 partly-cloudy-day  
94 16.3 3.82 293 1018.22 clear-night  
95 14.3 8.13 155 1012.13 clear-day  
96 20.4 8.77 215 1025.97 clear-day  
97 34.4 7.86 148 1007.33 clear-day  
98 16.3 11.28 343 1025.83 partly-cloudy-day  
99 9.8 8.84 117 1029.59 cloudy  
100 12.3 4.38 329 1010.99 partly-cloudy-day  
101 19.4 4.20 130 1023.30 clear-night  
102 34.4 10.80 123 1001.85 clear-day  
103 9.0 3.54 121 1010.36 clear-night  
104 32.5 6.91 96 1014.90 clear-day  
105 31.4 7.03 235 1015.49 clear-day  
106 13.8 9.74 309 1028.73 cloudy  
107 14.0 5.58 228 1015.96 partly-cloudy-day  
108 13.8 5.26 62 1024.80 clear-night  
109 33.0 10.62 119 1018.83 clear-day  
110 26.7 6.05 135 1007.51 partly-cloudy-night  
111 27.1 6.38 144 1017.95 clear-night  
112 27.8 6.16 220 1015.59 clear-day  
113 15.6 12.60 243 1009.24 partly-cloudy-day  
114 17.4 13.45 290 1014.64 partly-cloudy-day  
115 20.9 7.06 0 1025.19 partly-cloudy-day  
116 27.6 17.42 354 1017.03 clear-day  
117 25.0 9.90 101 1020.50 partly-cloudy-night  
118 34.3 1.88 202 1006.44 clear-night  
119 14.6 5.68 329 1016.30 clear-night  
120 17.4 13.03 202 1005.28 clear-night  
121 5.2 0.82 265 1011.93 partly-cloudy-night  
122 10.0 11.33 1 1019.06 clear-night  
123 12.8 3.34 345 1023.30 clear-night  
124 26.5 7.80 201 1001.20 clear-day  
125 21.8 8.98 189 1025.44 partly-cloudy-day  
126 27.5 11.31 194 1007.22 partly-cloudy-day  
127 21.0 12.12 312 1002.61 clear-night  
128 27.6 5.48 212 1015.68 clear-day  
129 24.4 16.45 251 1011.44 partly-cloudy-day  
130 27.8 8.77 60 1018.17 partly-cloudy-day  
131 21.8 1.33 316 1017.90 partly-cloudy-night  
132 14.0 13.43 246 1006.17 partly-cloudy-night  
133 18.7 9.23 340 1011.72 clear-day  
134 19.8 5.23 213 1018.72 clear-night  
135 21.7 4.46 301 1018.33 clear-night  
136 32.1 6.95 61 1013.02 clear-day  
137 24.2 5.55 164 1016.94 clear-night  
138 16.5 1.88 348 1023.00 clear-day  
139 21.0 16.92 49 1024.01 clear-day  
140 27.9 2.79 69 1018.78 rain  
141 17.4 2.57 347 1019.05 partly-cloudy-night  
142 32.2 7.69 238 1010.62 clear-day  
143 13.8 7.88 298 1019.78 cloudy  
144 26.0 12.31 278 1014.17 partly-cloudy-day  
145 24.6 7.06 200 1015.18 clear-night  
146 17.6 9.48 262 1011.90 partly-cloudy-day  
147 17.8 20.67 237 1012.08 wind  
148 25.6 4.97 158 1018.09 partly-cloudy-night  
149 29.0 8.25 1 1017.18 clear-day  
150 27.1 3.96 242 1018.55 partly-cloudy-day  
151 16.1 7.60 135 1010.09 partly-cloudy-day  
152 20.0 2.49 7 1019.40 partly-cloudy-night  
153 27.3 5.00 326 1016.26 clear-night  
154 19.7 3.07 161 1022.09 cloudy  
155 22.5 6.91 229 1023.87 cloudy  
156 25.6 2.15 354 1012.37 clear-night  
157 25.9 11.62 245 1011.87 partly-cloudy-day  
158 31.2 6.49 116 1015.26 clear-day  
159 26.2 7.46 67 1010.81 clear-day  
160 14.1 4.88 346 1013.02 rain  
161 19.2 1.89 218 1019.21 partly-cloudy-day  
162 24.0 7.33 333 1024.16 clear-day  
163 26.9 14.24 95 1014.19 clear-day  
164 19.9 3.02 72 1023.82 clear-night  
165 21.9 3.00 320 1018.30 clear-night  
166 20.0 2.50 5 1019.40 partly-cloudy-night  
167 18.5 3.08 134 1014.10 partly-cloudy-day  
168 8.0 2.02 114 1010.11 partly-cloudy-night  
169 16.6 2.69 31 1022.69 partly-cloudy-night  
170 14.6 5.68 329 1016.30 clear-night  
171 9.8 8.84 117 1029.59 cloudy  
172 24.3 2.79 198 1015.29 clear-night  
173 19.0 12.88 289 1013.19 partly-cloudy-day  
174 20.5 3.86 120 1022.18 clear-night  
175 28.5 8.55 74 1015.84 partly-cloudy-day  
176 25.2 3.64 154 1020.14 clear-night  
177 13.0 1.49 206 1005.75 rain  
178 31.6 6.82 245 1015.49 partly-cloudy-night  
179 36.1 4.86 316 1005.10 clear-night  
180 13.6 6.00 204 1015.09 clear-day  
181 27.0 11.16 21 1013.85 clear-day  
182 9.0 3.54 121 1010.36 clear-night  
183 29.0 6.85 284 1024.23 clear-day  
184 27.0 5.26 250 1018.99 clear-night  
185 28.6 7.17 62 1016.44 partly-cloudy-day  
186 19.1 5.78 259 1011.36 partly-cloudy-day  
187 28.5 8.42 229 1017.08 clear-night  
188 15.8 10.37 305 1010.00 clear-day  
189 16.3 6.93 1 1020.42 partly-cloudy-night  
190 21.8 4.58 120 1022.27 clear-night  
191 11.9 7.38 151 1025.46 clear-night  
192 25.8 3.41 19 1019.29 partly-cloudy-night  
193 22.5 6.11 225 1024.01 cloudy  
194 17.6 14.31 291 1014.64 partly-cloudy-day  
195 11.3 1.82 57 1003.81 clear-night  
196 16.3 8.24 21 1025.89 partly-cloudy-night  
197 24.6 1.34 249 1019.98 partly-cloudy-day  
198 25.5 8.17 267 1016.41 partly-cloudy-day  
199 24.7 3.32 41 1014.97 clear-day  
200 16.8 1.90 173 1014.60 clear-day  
201 10.5 1.16 159 1011.85 partly-cloudy-day  
202 17.5 10.15 32 1025.24 clear-night  
203 27.2 6.30 91 1014.07 clear-night  
204 20.5 6.40 245 1024.10 cloudy  
205 30.1 10.88 217 1016.82 clear-day  
206 17.5 12.69 207 1005.19 clear-night  
207 17.4 4.06 310 1017.65 partly-cloudy-day  
208 26.6 5.25 150 1020.27 partly-cloudy-night  
209 23.0 5.65 289 1017.66 cloudy  
210 22.7 6.20 260 1013.61 clear-night  
211 18.7 9.23 340 1011.72 clear-day  
212 7.8 2.81 43 1029.14 clear-night  
213 27.9 8.55 202 1016.29 partly-cloudy-night  
214 14.8 5.12 352 1020.00 partly-cloudy-night  
215 23.1 7.00 257 1023.13 partly-cloudy-day  
216 17.4 3.17 107 1009.88 partly-cloudy-night  
217 16.2 3.97 103 1007.00 cloudy  
218 16.4 2.27 59 1012.35 clear-night  
219 14.4 12.82 239 1005.02 partly-cloudy-night  
220 25.8 3.29 23 1019.32 clear-night  
221 16.1 11.16 150 1016.06 clear-day  
222 5.0 0.70 315 1011.75 partly-cloudy-night  
223 27.3 4.42 90 1012.44 partly-cloudy-day  
224 19.4 8.40 52 1025.92 partly-cloudy-day  
225 30.2 6.63 242 1019.03 clear-day  
226 16.8 12.91 288 1014.19 partly-cloudy-day  
227 23.7 3.00 340 1021.10 clear-day  
228 8.2 6.47 259 1007.77 clear-night  
229 13.8 7.88 298 1019.78 cloudy  
230 18.0 15.33 191 1022.75 partly-cloudy-day  
231 14.3 8.13 155 1012.13 clear-day  
232 19.3 3.35 190 1021.63 partly-cloudy-night  
233 25.3 6.00 180 1025.63 clear-day  
234 15.4 1.60 226 1014.98 clear-night  
235 21.2 6.00 180 1022.19 clear-night  
236 24.0 5.98 160 1012.90 clear-night  
237 15.2 6.82 206 1016.85 partly-cloudy-day  
238 22.4 6.39 85 1018.40 clear-night  
239 23.3 5.05 335 1019.15 clear-night  
240 14.1 6.07 210 1025.00 clear-night  
241 16.1 9.29 12 1024.81 partly-cloudy-day  
242 19.9 3.02 72 1023.82 clear-night  
243 12.4 4.86 23 1014.90 rain  
244 22.7 9.93 128 1019.71 clear-day  
245 23.3 4.07 271 1016.81 partly-cloudy-day  
246 17.6 2.15 206 1015.66 partly-cloudy-day  
247 17.1 5.86 198 1017.03 partly-cloudy-night  
248 22.3 6.33 133 1023.43 clear-day  
249 27.9 7.14 58 1017.58 partly-cloudy-day  
250 14.0 3.82 171 1015.86 partly-cloudy-night  
251 15.1 12.80 330 1017.57 partly-cloudy-night  
252 16.5 9.94 341 1023.55 partly-cloudy-day  
253 17.5 3.00 130 1014.14 partly-cloudy-night  
254 22.5 6.11 225 1024.01 cloudy  
255 16.3 6.40 277 1014.21 partly-cloudy-day  
256 25.2 2.14 209 1017.04 partly-cloudy-day  
257 17.9 15.26 192 1023.09 partly-cloudy-day  
258 21.8 1.68 11 1002.88 clear-night  
259 24.9 5.23 233 1017.38 partly-cloudy-day  
260 19.1 5.97 253 1011.04 partly-cloudy-night  
261 13.8 10.20 252 1007.51 partly-cloudy-night  
262 32.2 4.72 147 1011.15 clear-day  
263 18.0 4.08 53 1022.01 clear-night  
264 28.0 5.22 148 1021.27 clear-day  
265 17.8 4.34 188 1010.68 clear-night  
266 26.1 6.50 120 1007.62 cloudy  
267 13.0 1.04 166 1009.98 partly-cloudy-day  
268 23.4 8.32 21 1025.40 partly-cloudy-day  
269 9.6 8.98 39 1013.92 clear-night  
270 17.7 4.92 204 1011.42 clear-day  
271 20.5 4.91 284 1020.28 clear-day  
272 26.1 6.14 314 1012.47 partly-cloudy-day  
273 14.1 12.49 320 1017.82 rain  
274 31.4 3.72 143 1011.51 partly-cloudy-day  
275 10.8 15.04 99 1029.16 cloudy  
276 24.3 2.79 198 1015.29 clear-night  
277 25.6 7.33 100 1010.89 partly-cloudy-night  
278 13.1 4.54 116 1019.86 clear-night  
279 26.3 3.03 66 1017.03 partly-cloudy-day  
280 8.9 14.10 219 1015.19 wind  
281 12.9 5.64 313 1012.27 clear-day  
282 27.3 3.23 336 1019.48 clear-day  
283 16.4 1.09 116 1009.90 clear-night  
284 26.3 4.01 13 1019.86 clear-night  
285 22.9 7.52 102 1022.52 clear-day  
286 7.1 2.34 120 1016.61 clear-night  
287 28.2 3.51 136 1017.68 clear-day  
288 25.1 10.75 222 1010.28 clear-day  
289 18.1 4.19 241 1023.78 cloudy  
290 33.0 9.37 164 1017.00 clear-day  
291 30.6 3.54 34 1020.02 clear-day  
292 20.8 6.53 79 1021.21 clear-day  
293 26.7 6.05 135 1007.51 partly-cloudy-night  
294 24.1 5.10 204 1012.45 partly-cloudy-night  
295 11.5 3.19 280 1016.68 clear-night  
296 23.8 4.12 162 1017.92 clear-night  
297 15.7 11.39 18 1024.20 partly-cloudy-day  
298 25.8 3.29 23 1019.32 clear-night  
299 15.9 3.35 208 1011.65 partly-cloudy-night  
300 29.6 5.13 24 1013.15 clear-day  
301 17.1 7.33 261 1012.56 rain  
302 7.1 2.34 120 1016.61 clear-night  
303 27.2 10.10 79 1017.95 partly-cloudy-day  
304 17.1 4.41 174 1018.81 cloudy  
305 17.2 15.75 257 1013.40 rain  
306 25.8 5.57 44 1012.07 cloudy  
307 19.1 4.28 178 1021.05 partly-cloudy-night  
308 20.6 10.24 35 1023.42 clear-night  
309 26.3 7.45 74 1017.16 partly-cloudy-day  
310 30.0 10.34 311 1007.32 clear-day  
311 18.6 3.56 81 1014.34 clear-night  
312 19.0 10.49 294 1013.47 clear-day  
313 32.6 18.57 215 1014.02 wind  
314 9.4 13.60 92 1001.75 clear-day  
315 31.0 12.40 246 1019.70 clear-day  
316 19.9 4.18 4 1022.51 clear-night  
317 13.2 3.35 110 1019.13 clear-night  
318 31.8 13.46 218 1014.26 partly-cloudy-day  
319 30.8 5.68 228 1012.21 partly-cloudy-day  
320 22.8 5.21 158 1019.94 clear-night  
321 17.6 15.64 267 1009.44 cloudy  
322 8.9 14.10 219 1015.19 wind  
323 17.2 2.52 234 1019.19 cloudy  
324 27.8 4.99 60 1019.31 rain  
325 17.4 4.06 310 1017.65 partly-cloudy-day  
326 10.8 10.83 323 1007.22 clear-day  
327 14.7 0.44 350 1023.73 clear-night  
328 14.8 3.34 228 1011.80 partly-cloudy-night  
329 25.1 10.75 222 1010.28 clear-day  
330 17.5 12.69 207 1005.19 clear-night  
331 26.0 10.54 61 1021.17 partly-cloudy-day  
332 12.4 7.28 23 1007.78 clear-night  
333 18.4 4.64 212 1018.58 partly-cloudy-night  
334 26.8 9.89 48 1019.59 clear-day  
335 14.6 1.90 142 1021.84 clear-night  
336 25.8 1.88 188 1019.64 clear-night  
337 20.5 3.86 120 1022.18 clear-night  
338 27.4 13.83 346 1015.68 clear-day  
339 30.3 6.39 200 1007.29 partly-cloudy-night  
340 27.8 6.16 220 1015.59 clear-day  
341 20.3 5.16 183 1020.95 clear-night  
342 22.4 4.40 258 1011.91 cloudy  
343 25.5 2.90 110 1014.33 clear-night  
344 26.2 6.00 20 1009.90 cloudy  
345 24.2 2.39 345 1016.65 partly-cloudy-night  
346 26.7 1.01 280 1018.00 clear-night  
347 18.3 3.42 208 1017.27 partly-cloudy-night  
348 19.7 4.27 1 1023.54 partly-cloudy-day  
349 22.6 4.50 199 1017.30 clear-day  
350 17.7 4.14 106 1024.33 clear-night  
351 10.2 10.50 310 1008.59 partly-cloudy-day  
352 19.9 8.99 3 1023.02 clear-day  
353 27.8 9.32 92 1005.74 partly-cloudy-night  
354 9.2 1.90 328 1018.99 clear-night  
355 17.0 9.74 252 1011.80 partly-cloudy-day  
356 21.8 6.10 93 1022.44 clear-night  
357 18.9 6.22 9 1025.11 clear-day  
358 19.1 8.07 114 1019.18 partly-cloudy-night  
359 20.4 8.77 215 1025.97 clear-day  
360 12.7 0.62 60 1025.76 clear-night  
361 27.9 6.18 72 1020.35 partly-cloudy-day  
362 14.6 5.67 305 1009.86 clear-day  
363 20.7 5.87 204 1019.76 clear-day  
364 17.9 12.04 298 1015.98 partly-cloudy-day  
365 26.7 3.63 208 1005.60 cloudy  
366 17.3 5.21 213 1017.06 partly-cloudy-night  
367 9.2 1.90 328 1018.99 clear-night  
368 20.7 5.91 185 1022.08 clear-night  
369 17.4 9.30 284 1014.71 clear-day  
370 26.8 2.99 123 1013.43 clear-night  
371 27.7 3.61 146 1020.83 clear-night  
372 32.7 6.25 187 1010.53 clear-day  
373 18.4 3.62 250 1021.62 clear-night  
374 12.9 1.16 111 1013.87 clear-night  
375 23.7 3.00 340 1021.10 clear-day  
376 12.1 4.09 224 1016.98 clear-night  
377 19.8 10.90 199 1019.87 cloudy  
378 18.5 0.60 319 1023.74 partly-cloudy-day  
379 27.4 9.27 54 1014.01 partly-cloudy-day  
380 15.7 2.41 90 1024.10 clear-night  
381 23.6 1.90 170 1021.91 clear-night  
382 31.1 7.33 347 1017.06 partly-cloudy-day  
383 14.2 5.37 101 1028.06 clear-night  
384 12.2 0.08 155 1015.68 clear-night  
385 16.3 8.24 21 1025.89 partly-cloudy-night  
386 9.9 1.97 90 1026.50 clear-night  
387 24.6 3.64 90 1013.39 rain  
388 20.4 6.38 303 1004.46 clear-night  
389 18.1 3.12 117 1023.20 clear-night  
390 25.1 10.75 222 1010.28 clear-day  
391 25.2 7.40 81 1020.26 partly-cloudy-day  
392 24.1 9.63 218 1008.15 clear-day  
393 24.9 8.21 53 1016.20 clear-night  
394 26.5 3.12 188 1015.95 clear-night  
395 16.4 7.49 43 1022.30 clear-night  
396 29.4 8.83 204 1015.01 clear-night  
397 13.4 3.00 160 1026.01 clear-night  
398 21.7 6.97 120 1016.04 clear-night  
399 28.2 7.45 114 1017.18 partly-cloudy-day  
400 19.0 10.44 183 1017.49 clear-day  
401 22.9 1.65 76 1009.12 clear-night  
402 16.4 18.04 294 1009.90 clear-day  
403 18.7 7.29 185 1017.30 clear-day  
404 24.5 6.70 208 1013.15 partly-cloudy-day  
405 22.9 5.05 15 1015.76 rain  
406 18.0 5.44 48 1018.44 clear-day  
407 16.0 11.66 302 1015.36 partly-cloudy-day  
408 21.8 1.68 11 1002.88 clear-night  
409 26.6 5.25 150 1020.27 partly-cloudy-night  
410 21.0 2.39 76 1018.32 partly-cloudy-night  
411 27.7 5.73 288 1007.46 cloudy  
412 31.3 4.58 125 1016.28 clear-day  
413 22.6 8.55 212 1004.24 clear-night  
414 17.9 6.21 214 1025.20 clear-day  
415 11.7 0.00 172 1026.06 partly-cloudy-day  
416 17.5 5.68 277 1010.40 clear-night  
417 14.7 0.49 109 1008.72 clear-day  
418 12.9 3.00 70 1021.24 clear-night  
419 22.2 5.26 174 1002.90 clear-night  
420 22.9 3.62 101 1023.02 clear-night  
421 26.1 10.27 45 1019.18 partly-cloudy-day  
422 24.0 10.96 270 1009.49 clear-day  
423 12.8 4.98 340 1013.11 rain  
424 25.9 11.25 245 1012.39 partly-cloudy-day  
425 23.6 6.83 322 1012.72 partly-cloudy-day  
426 18.0 9.71 352 1004.93 clear-night  
427 17.3 2.22 255 1019.28 clear-night  
428 20.1 13.30 216 1024.33 clear-day  
429 15.9 5.98 20 1025.84 clear-night  
430 17.4 18.60 23 1015.67 rain  
431 17.9 8.53 208 1005.23 clear-night  
432 20.0 7.95 273 1005.52 partly-cloudy-day  
433 22.9 11.54 232 1012.14 partly-cloudy-day  
434 25.7 10.85 130 1015.90 partly-cloudy-day  
435 16.2 2.11 215 1015.15 clear-day  
436 27.0 1.79 155 1011.65 clear-day  
437 26.0 8.06 54 1019.45 clear-day  
438 19.4 10.15 223 1015.93 clear-day  
439 14.8 10.74 147 1016.20 clear-day  
440 28.6 5.98 200 1007.91 partly-cloudy-night  
441 25.6 4.98 270 1015.60 clear-night  
442 15.1 4.67 326 1010.20 clear-day  
443 27.5 7.52 210 1015.37 clear-night  
444 8.3 6.17 269 1007.69 clear-night  
445 26.1 3.49 140 1020.14 clear-night  
446 27.4 5.13 92 1013.23 clear-night  
447 12.0 14.06 10 1019.72 rain  
448 20.5 4.74 126 1014.19 partly-cloudy-day  
449 26.7 3.00 320 1013.30 clear-night  
450 15.8 5.55 191 1020.67 partly-cloudy-night  
451 27.6 7.73 176 1016.64 clear-night  
452 21.6 6.71 321 1017.90 clear-night  
453 24.9 3.26 113 1016.73 clear-night  
454 7.3 2.47 119 1016.54 cloudy  
455 16.6 3.08 297 1018.50 clear-night  
456 11.2 5.00 20 1010.84 clear-day  
457 25.3 7.62 28 1018.23 partly-cloudy-day  
458 27.8 2.84 269 1016.96 partly-cloudy-night  
459 25.6 11.06 16 1012.86 partly-cloudy-day  
460 17.2 3.47 115 1021.16 cloudy  
461 16.1 4.61 27 1026.73 cloudy  
462 27.0 5.98 100 1021.19 clear-night  
463 22.4 6.63 260 1011.52 cloudy  
464 19.7 7.74 117 1014.18 clear-night  
465 31.2 4.76 305 1011.27 partly-cloudy-day  
466 31.9 9.26 233 1022.12 partly-cloudy-day  
467 11.7 3.43 207 1016.43 clear-night  
468 17.3 1.48 122 1008.41 partly-cloudy-day  
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470 22.9 3.36 304 1018.95 clear-night  
471 26.8 2.90 153 1017.78 clear-night  
472 21.1 2.96 68 1024.60 clear-night  
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474 27.5 6.58 132 1017.54 clear-night  
475 19.1 6.78 55 1021.89 clear-day  
476 23.3 15.28 19 1016.27 partly-cloudy-night  
477 20.8 14.31 259 1007.75 partly-cloudy-day  
478 25.3 19.58 232 1007.68 clear-day  
479 24.6 6.54 199 1015.01 partly-cloudy-night  
480 35.7 7.10 345 1011.38 clear-day  
481 31.1 3.50 146 1007.13 partly-cloudy-day  
482 29.8 5.34 84 1019.64 clear-day  
483 6.8 3.85 339 1020.80 partly-cloudy-day  
 sunriseMinutesMidnight sunriseHour sunriseMinute sunriseMinutesSince  
1 377 6 17 296  
2 412 6 52 187  
3 384 6 24 282  
4 382 6 22 301  
5 402 6 42 735  
6 380 6 20 697  
7 436 7 16 883  
8 412 6 52 187  
9 389 6 29 1046  
10 395 6 35 92  
11 391 6 31 688  
12 409 6 49 725  
13 424 7 4 970  
14 410 6 50 302  
15 424 7 4 583  
16 399 6 39 -340  
17 378 6 18 480  
18 433 7 13 526  
19 439 7 19 1000  
20 367 6 7 1072  
21 411 6 51 548  
22 408 6 48 -289  
23 369 6 9 950  
24 377 6 17 881  
25 385 6 25 782  
26 435 7 15 652  
27 381 6 21 744  
28 409 6 49 885  
29 377 6 17 758  
30 389 6 29 721  
31 417 6 57 -364  
32 436 7 16 278  
33 411 6 51 548  
34 406 6 46 732  
35 376 6 16 907  
36 445 7 25 562  
37 348 5 48 181  
38 391 6 31 947  
39 436 7 16 -383  
40 405 6 45 1034  
41 410 6 50 -266  
42 403 6 43 376  
43 406 6 46 681  
44 401 6 41 1018  
45 385 6 25 933  
46 411 6 51 -337  
47 387 6 27 932  
48 392 6 32 719  
49 401 6 41 983  
50 403 6 43 796  
51 435 7 15 553  
52 442 7 22 262  
53 422 7 2 971  
54 405 6 45 408  
55 381 6 21 1021  
56 404 6 44 726  
57 366 6 6 951  
58 386 6 26 745  
59 430 7 10 978  
60 380 6 20 756  
61 367 6 7 340  
62 385 6 25 964  
63 390 6 30 723  
64 336 5 36 610  
65 390 6 30 839  
66 418 6 58 705  
67 404 6 44 263  
68 408 6 48 910  
69 398 6 38 500  
70 414 6 54 785  
71 362 6 2 -317  
72 437 7 17 973  
73 401 6 41 -342  
74 400 6 40 -341  
75 436 7 16 696  
76 377 6 17 -264  
77 386 6 26 569  
78 386 6 26 573  
79 376 6 16 32  
80 381 6 21 578  
81 428 7 8 755  
82 376 6 16 750  
83 417 6 57 -375  
84 394 6 34 504  
85 386 6 26 913  
86 408 6 48 130  
87 376 6 16 823  
88 431 7 11 156  
89 440 7 20 223  
90 392 6 32 -333  
91 401 6 41 -2  
92 401 6 41 -342  
93 436 7 16 546  
94 400 6 40 885  
95 384 6 24 400  
96 382 6 22 577  
97 377 6 17 627  
98 386 6 26 213  
99 400 6 40 1024  
100 414 6 54 785  
101 404 6 44 792  
102 363 6 3 176  
103 414 6 54 -295  
104 376 6 16 398  
105 419 6 59 660  
106 401 6 41 405  
107 396 6 36 181  
108 378 6 18 934  
109 423 7 3 476  
110 369 6 9 1033  
111 424 7 4 908  
112 412 6 52 392  
113 378 6 18 168  
114 386 6 26 288  
115 386 6 26 573  
116 388 6 28 561  
117 335 5 35 979  
118 366 6 6 848  
119 398 6 38 921  
120 376 6 16 -334  
121 414 6 54 965  
122 398 6 38 981  
123 391 6 31 -167  
124 419 6 59 362  
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126 418 6 58 240  
127 419 6 59 959  
128 412 6 52 361  
129 384 6 24 530  
130 396 6 36 415  
131 361 6 1 -199  
132 407 6 47 971  
133 421 7 1 326  
134 388 6 28 870  
135 404 6 44 -357  
136 436 7 16 462  
137 384 6 24 920  
138 411 6 51 780  
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141 391 6 31 1045  
142 429 7 9 529  
143 384 6 24 935  
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145 405 6 45 910  
146 375 6 15 370  
147 386 6 26 993  
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150 406 6 46 457  
151 381 6 21 472  
152 466 7 46 -227  
153 403 6 43 912  
154 434 7 14 705  
155 384 6 24 362  
156 435 7 15 996  
157 381 6 21 460  
158 400 6 40 559  
159 435 7 15 463  
160 370 6 10 318  
161 372 6 12 222  
162 455 7 35 648  
163 445 7 25 943  
164 402 6 42 903  
165 416 6 56 -316  
166 465 7 45 -226  
167 389 6 29 236  
168 414 6 54 -184  
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170 398 6 38 921  
171 400 6 40 1024  
172 405 6 45 1016  
173 377 6 17 696  
174 436 7 16 -282  
175 398 6 38 446  
176 401 6 41 -42  
177 371 6 11 732  
178 466 7 46 811  
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180 376 6 16 114  
181 412 6 52 695  
182 414 6 54 -295  
183 436 7 16 285  
184 416 6 56 776  
185 383 6 23 297  
186 392 6 32 207  
187 431 7 11 766  
188 385 6 25 334  
189 362 6 2 932  
190 436 7 16 -405  
191 402 6 42 -4  
192 424 7 4 -348  
193 382 6 22 331  
194 384 6 24 312  
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197 434 7 14 263  
198 381 6 21 576  
199 412 6 52 742  
200 390 6 30 741  
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202 374 6 14 939  
203 436 7 16 821  
204 382 6 22 157  
205 383 6 23 333  
206 376 6 16 1063  
207 400 6 40 738  
208 401 6 41 983  
209 421 7 1 638  
210 410 6 50 -406  
211 421 7 1 326  
212 401 6 41 982  
213 384 6 24 1000  
214 373 6 13 999  
215 381 6 21 518  
216 388 6 28 -255  
217 381 6 21 689  
218 440 7 20 995  
219 407 6 47 851  
220 424 7 4 -365  
221 387 6 27 246  
222 414 6 54 1019  
223 435 7 15 704  
224 389 6 29 627  
225 412 6 52 667  
226 379 6 19 315  
227 411 6 51 728  
228 408 6 48 -289  
229 384 6 24 935  
230 385 6 25 719  
231 384 6 24 400  
232 379 6 19 1000  
233 379 6 19 554  
234 387 6 27 858  
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236 435 7 15 1004  
237 370 6 10 87  
238 401 6 41 810  
239 404 6 44 -402  
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246 377 6 17 134  
247 381 6 21 999  
248 380 6 20 338  
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250 395 6 35 -382  
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252 386 6 26 46  
253 460 7 40 -309  
254 382 6 22 331  
255 408 6 48 310  
256 404 6 44 375  
257 384 6 24 699  
258 393 6 33 806  
259 381 6 21 397  
260 369 6 9 920  
261 408 6 48 -356  
262 395 6 35 383  
263 380 6 20 888  
264 430 7 10 620  
265 387 6 27 886  
266 368 6 8 -256  
267 378 6 18 78  
268 357 5 57 559  
269 383 6 23 -379  
270 404 6 44 373  
271 405 6 45 39  
272 401 6 41 267  
273 380 6 20 927  
274 445 7 25 687  
275 427 7 7 -284  
276 405 6 45 1016  
277 444 7 24 850  
278 383 6 23 1017  
279 404 6 44 555  
280 424 7 4 950  
281 374 6 14 380  
282 381 6 21 502  
283 387 6 27 -346  
284 404 6 44 795  
285 381 6 21 461  
286 412 6 52 -293  
287 381 6 21 696  
288 388 6 28 511  
289 393 6 33 -230  
290 439 7 19 448  
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 [ reached 'max' / getOption("max.print") -- omitted 29119 rows ]

# Reading Vectors: Point data

Now we use another common GIS package,sp, to convert this table into a point shapefile.

library(sp)  
xy <- tibble(longitude = pkmng\_points\_dat$longitude,  
 latitude = pkmng\_points\_dat$latitude)  
pkmng\_points <- SpatialPointsDataFrame(coords = xy,  
 data = pkmng\_points\_dat)

# Reading Vectors: Point data

pkmng\_points

class : SpatialPointsDataFrame   
features : 29602   
extent : -158.0198, 175.6162, -42.9845, 68.43698 (xmin, xmax, ymin, ymax)  
variables : 207  
# A tibble: 29,602 x 207  
 pokemonId latitude longitude appearedLocalTi… cellId\_90m cellId\_180m  
 <int> <dbl> <dbl> <fct> <dbl> <dbl>  
 1 16 53.7 -0.443 2016-09-04T09:3… 5.22e18 5.22e18  
 2 60 46.0 8.96 2016-09-06T07:5… 5.15e18 5.15e18  
 3 19 46.2 15.3 2016-09-04T08:3… 5.14e18 5.14e18  
 4 16 50.7 14.5 2016-09-04T09:2… 5.12e18 5.12e18  
 5 23 44.5 11.3 2016-09-04T16:0… 5.15e18 5.15e18  
 6 120 50.2 14.7 2016-09-03T15:5… 5.12e18 5.12e18  
 7 46 33.6 -84.3 2016-09-07T01:0… 9.87e18 9.87e18  
 8 10 46.0 8.95 2016-09-06T06:2… 5.15e18 5.15e18  
 9 27 33.9 -118. 2016-09-06T05:1… 9.28e18 9.28e18  
10 23 34.3 -119. 2016-09-06T14:4… 9.29e18 9.29e18  
# … with 29,592 more rows, and 201 more variables: cellId\_370m <dbl>,  
# cellId\_730m <dbl>, cellId\_1460m <dbl>, cellId\_2920m <dbl>,  
# cellId\_5850m <dbl>, appearedTimeOfDay <fct>, appearedHour <int>,  
# appearedMinute <int>, appearedDayOfWeek <fct>, appearedDay <int>,  
# appearedMonth <int>, appearedYear <int>, terrainType <int>,  
# closeToWater <lgl>, city <fct>, continent <fct>, weather <fct>,  
# temperature <dbl>, windSpeed <dbl>, windBearing <int>, pressure <dbl>,  
# weatherIcon <fct>, sunriseMinutesMidnight <int>, sunriseHour <int>,  
# sunriseMinute <int>, sunriseMinutesSince <int>,  
# sunsetMinutesMidnight <int>, sunsetHour <int>, sunsetMinute <int>,  
# sunsetMinutesBefore <int>, population\_density <dbl>, urban <lgl>,  
# suburban <lgl>, midurban <lgl>, rural <lgl>, gymDistanceKm <dbl>,  
# gymIn100m <lgl>, gymIn250m <lgl>, gymIn500m <lgl>, gymIn1000m <lgl>,  
# gymIn2500m <lgl>, gymIn5000m <lgl>, pokestopDistanceKm <dbl>,  
# pokestopIn100m <lgl>, pokestopIn250m <lgl>, pokestopIn500m <lgl>,  
# pokestopIn1000m <lgl>, pokestopIn2500m <lgl>, pokestopIn5000m <lgl>,  
# cooc\_1 <lgl>, cooc\_2 <lgl>, cooc\_3 <lgl>, cooc\_4 <lgl>, cooc\_5 <lgl>,  
# cooc\_6 <lgl>, cooc\_7 <lgl>, cooc\_8 <lgl>, cooc\_9 <lgl>, cooc\_10 <lgl>,  
# cooc\_11 <lgl>, cooc\_12 <lgl>, cooc\_13 <lgl>, cooc\_14 <lgl>, cooc\_15 <lgl>,  
# cooc\_16 <lgl>, cooc\_17 <lgl>, cooc\_18 <lgl>, cooc\_19 <lgl>, cooc\_20 <lgl>,  
# cooc\_21 <lgl>, cooc\_22 <lgl>, cooc\_23 <lgl>, cooc\_24 <lgl>, cooc\_25 <lgl>,  
# cooc\_26 <lgl>, cooc\_27 <lgl>, cooc\_28 <lgl>, cooc\_29 <lgl>, cooc\_30 <lgl>,  
# cooc\_31 <lgl>, cooc\_32 <lgl>, cooc\_33 <lgl>, cooc\_34 <lgl>, cooc\_35 <lgl>,  
# cooc\_36 <lgl>, cooc\_37 <lgl>, cooc\_38 <lgl>, cooc\_39 <lgl>, cooc\_40 <lgl>,  
# cooc\_41 <lgl>, cooc\_42 <lgl>, cooc\_43 <lgl>, cooc\_44 <lgl>, cooc\_45 <lgl>,  
# cooc\_46 <lgl>, cooc\_47 <lgl>, cooc\_48 <lgl>, cooc\_49 <lgl>, cooc\_50 <lgl>,  
# cooc\_51 <lgl>, …

# Reading Rasters

Finally, importing rasters is easily done with the raster package.

library(raster)  
pkmng\_raster <- raster("Data/pkmng\_raster.tif")

# Reading Rasters

Parts of a raster object

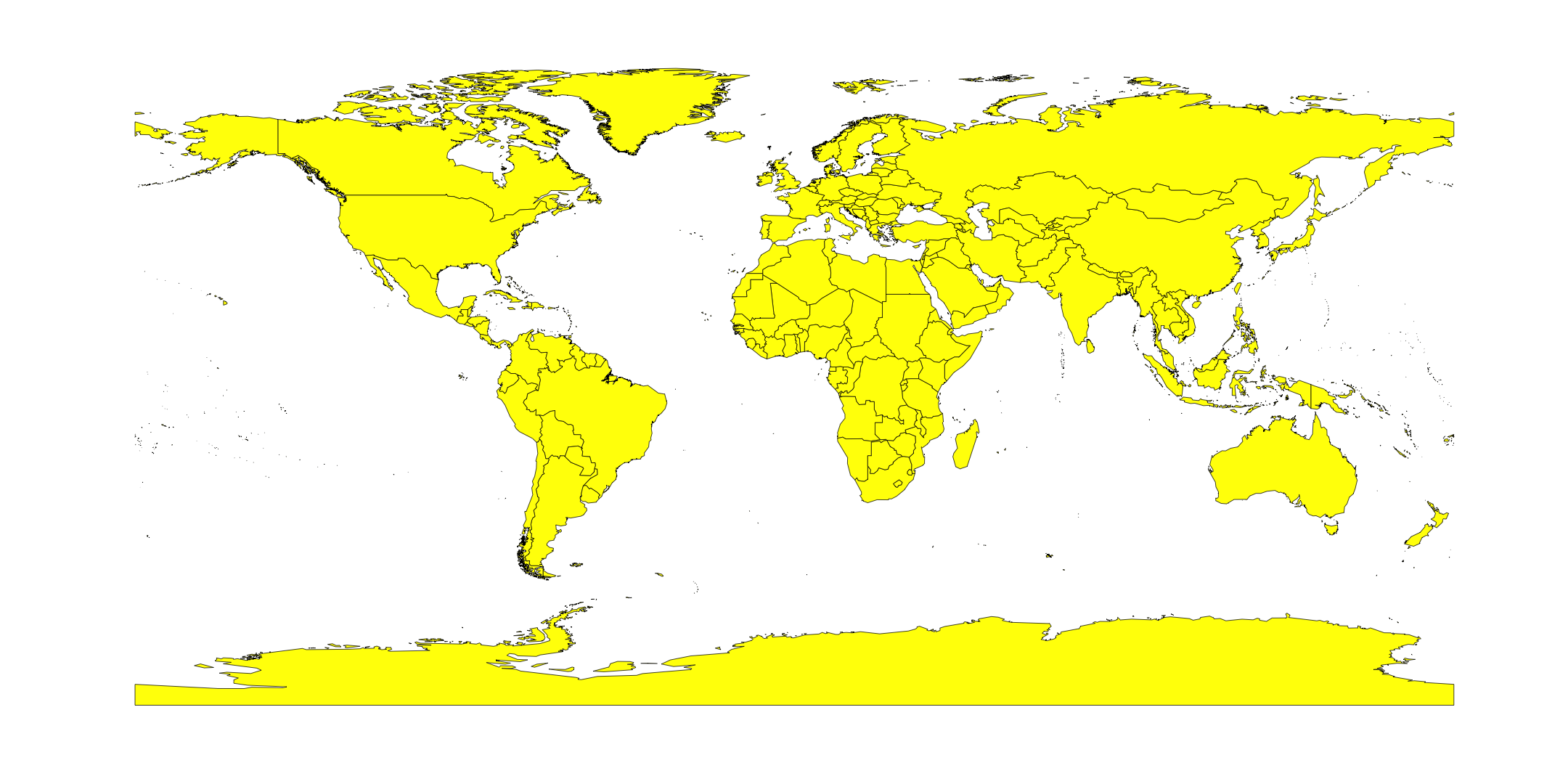
pkmng\_raster

class : RasterLayer   
dimensions : 87, 180, 15660 (nrow, ncol, ncell)  
resolution : 2, 2 (x, y)  
extent : -180, 180, -90.42973, 83.57027 (xmin, xmax, ymin, ymax)  
crs : +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0   
source : /Users/Hannah/Dropbox/RWorkingGroup/SpatialAnalysis1/Data/pkmng\_raster.tif   
names : pkmng\_raster   
values : 0, 9.535896 (min, max)

# Basic visualization

Just use the plot() function!

plot(pkmng\_countries, col = "yellow")

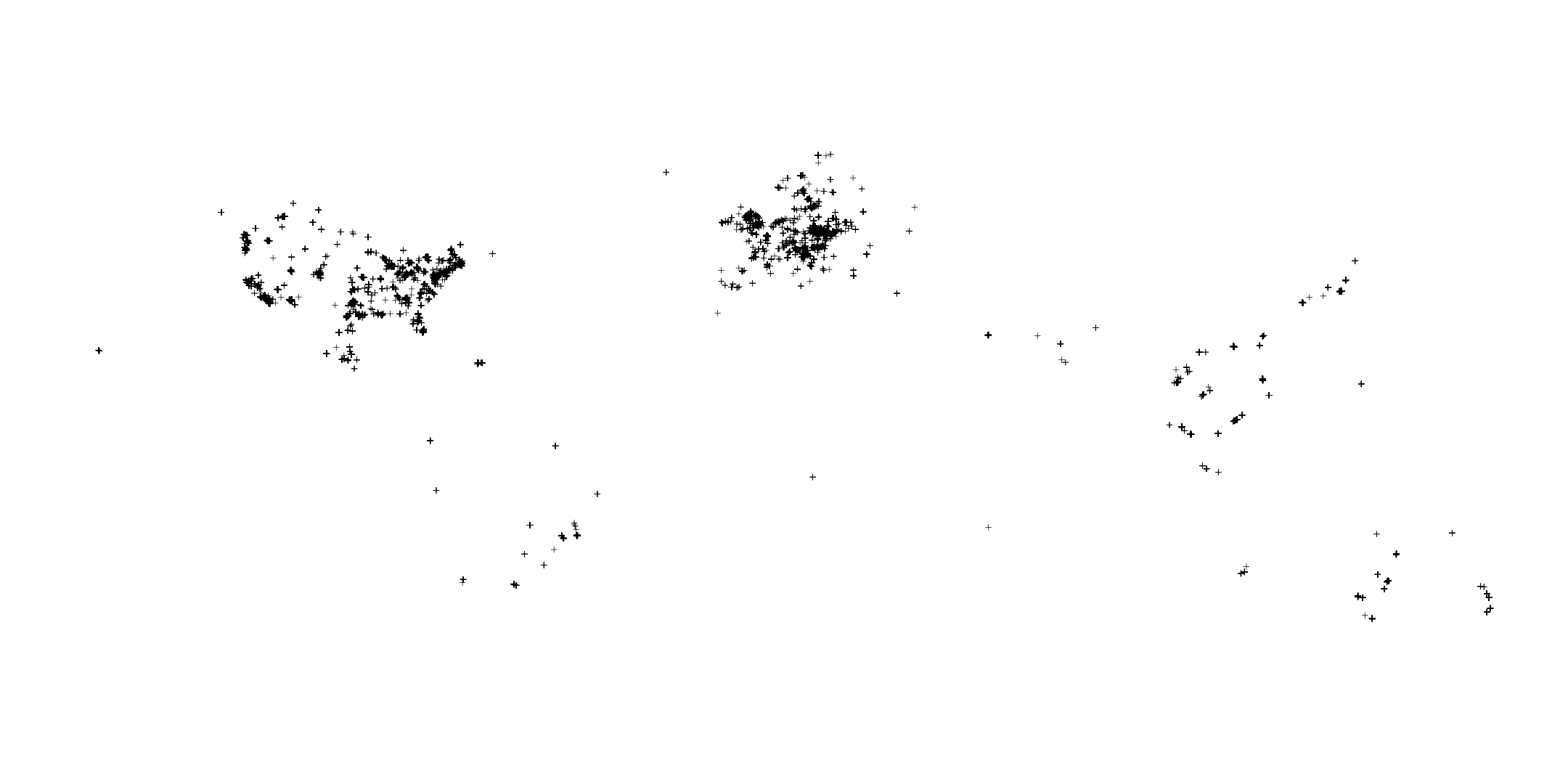


plot of chunk basic plot polygon

# Basic visualization

Just use the plot() function!

plot(pkmng\_points)



plot of chunk basic plot points

# Basic visualization

You can stack map layers, too.

plot(pkmng\_countries, col = "yellow")  
points(pkmng\_points, pch = 20, cex = .7, col = "red")

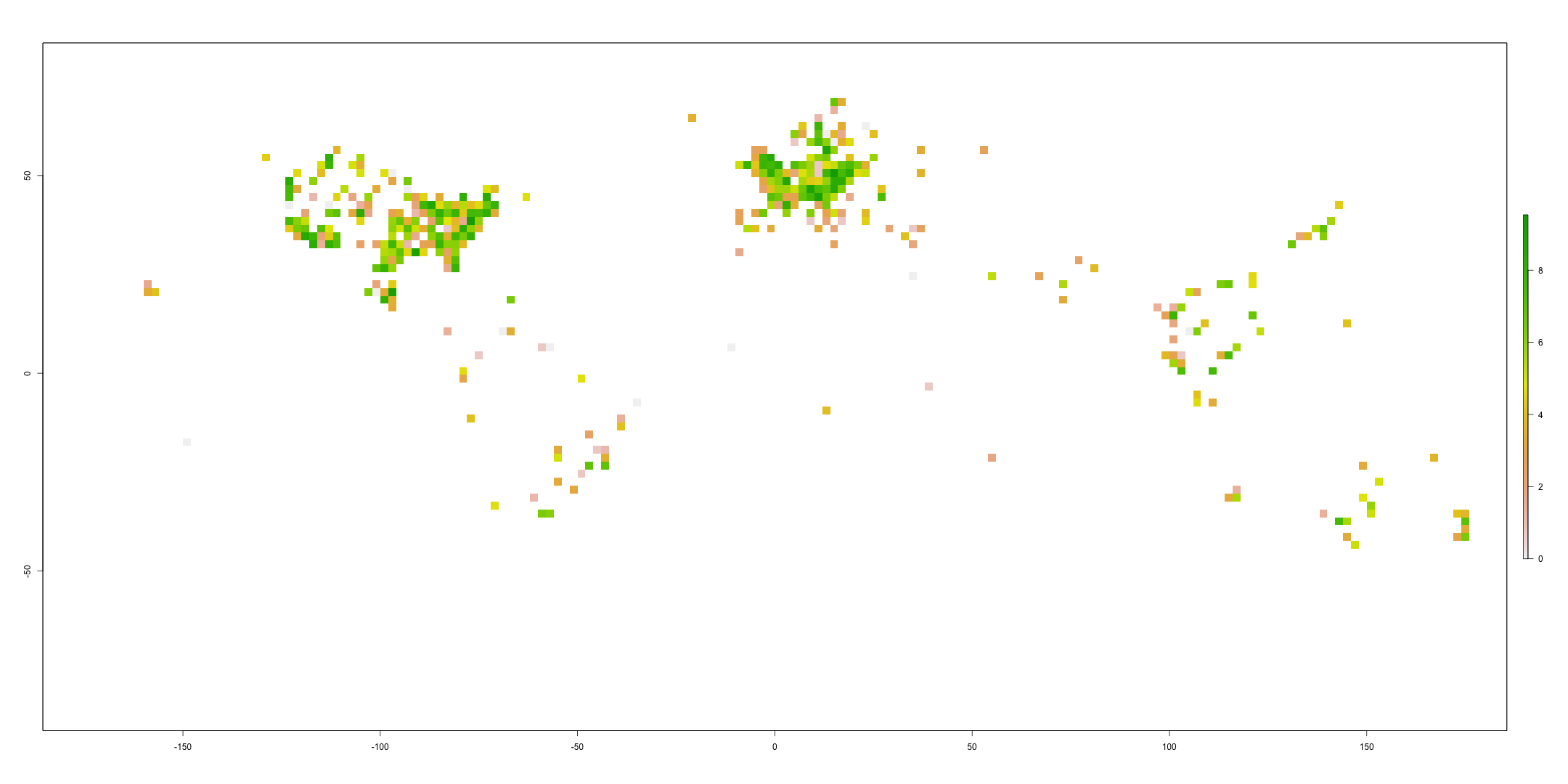


plot of chunk basic plot polygon and points

# Basic visualization

Rasters also use the plot() function!

plot(pkmng\_raster)

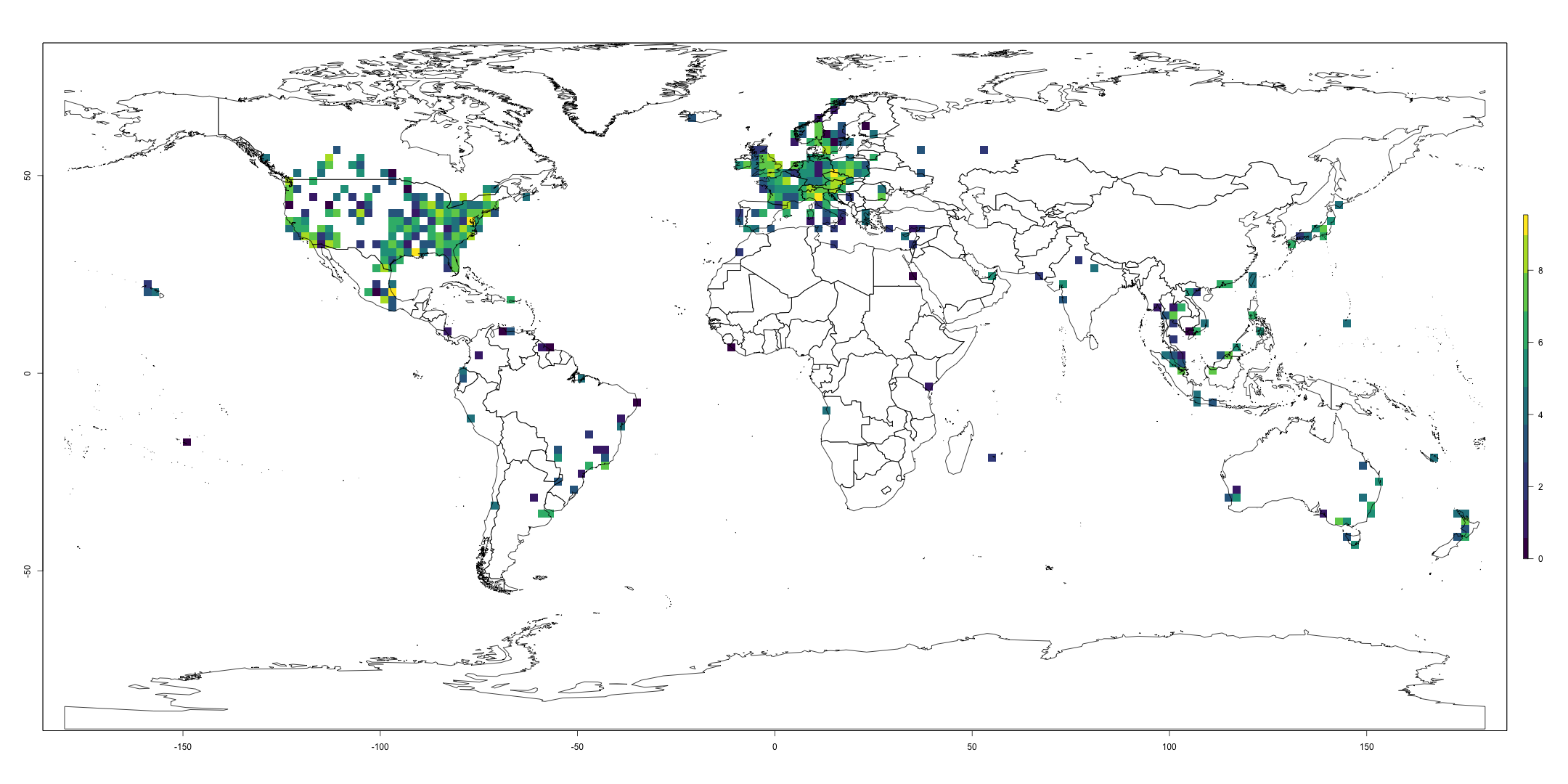


plot of chunk plot raster 1

# Basic visualization

You can stack multiple plots that mix rasters and vectors using add argument.

plot(pkmng\_raster, col = viridis::viridis(n = 10))  
plot(pkmng\_countries, add = T)

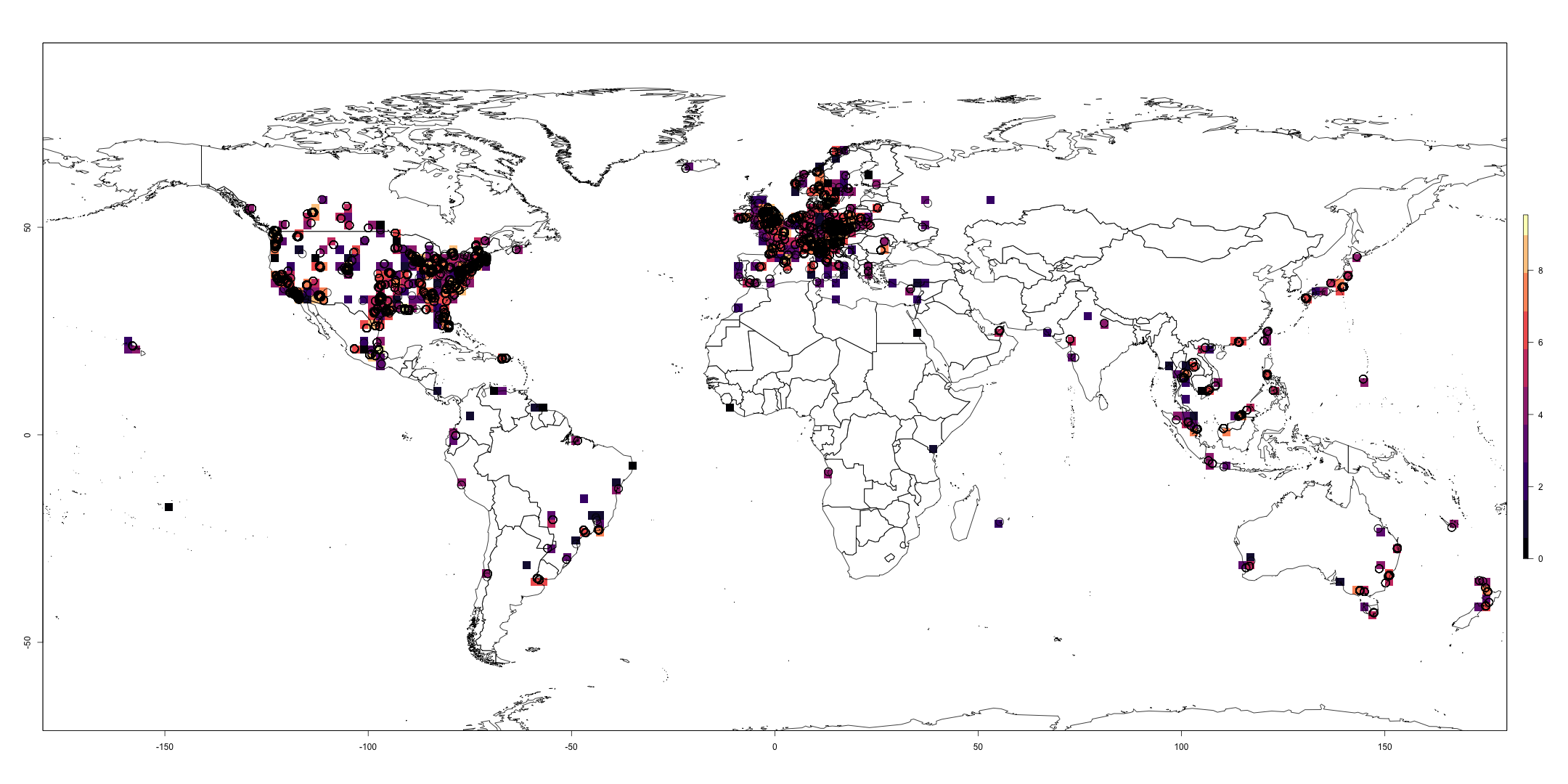


plot of chunk plot raster 2

# Challenge 1: Load and display spatial data

type: prompt

Now it’s your turn! Load the shapefile, point csv, and raster and plot them all together. Data can be found in the “Data” folder in the SpatialAnalysis project on GitHub.

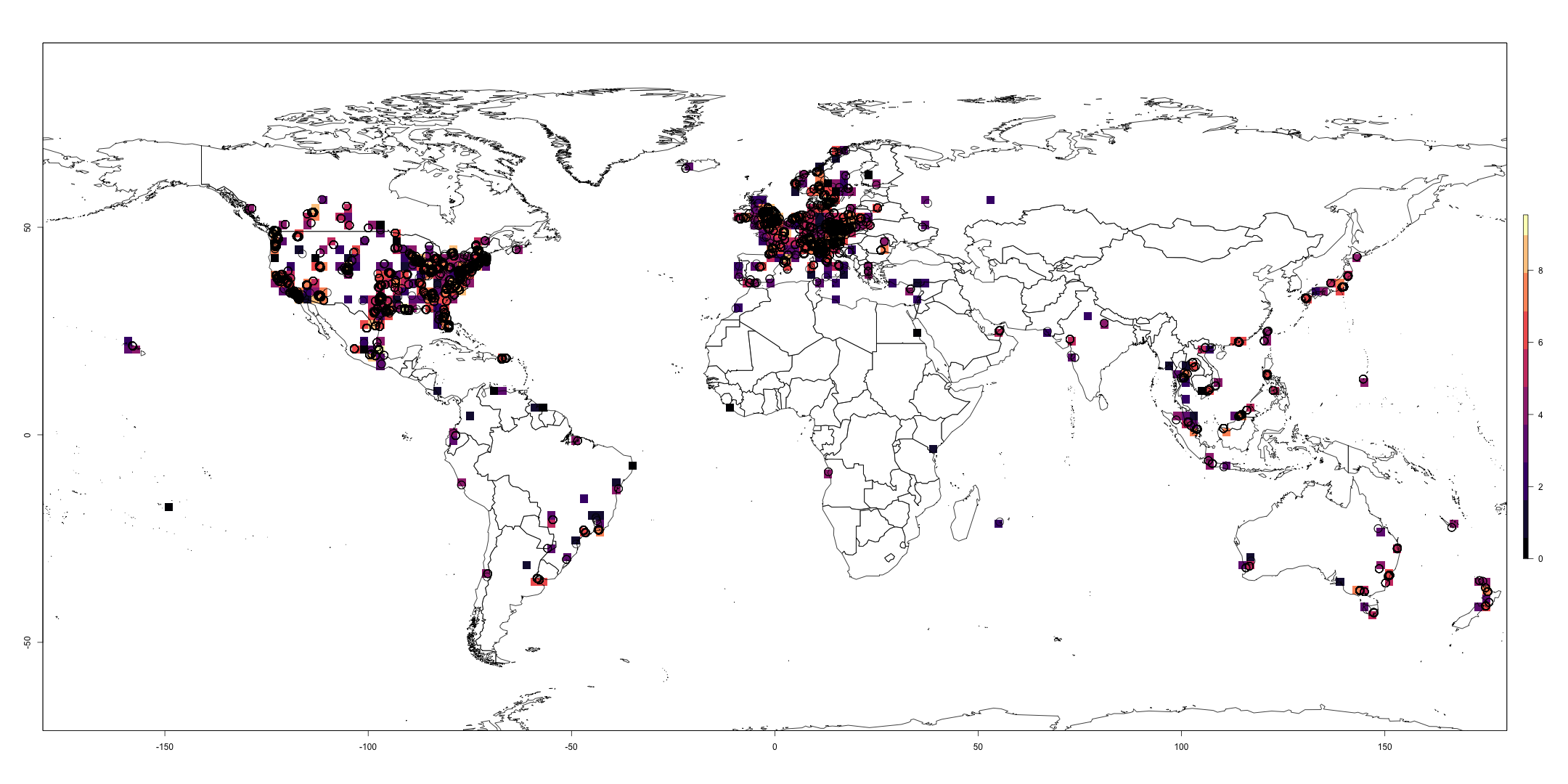


plot of chunk Challenge 1 Map

# Solution 1: Load and display spatial data

type: prompt

Now it’s your turn! Load the shapefile, point csv, and raster and plot them all together. Data can be found in the “Data” folder in the SpatialAnalysis project on GitHub.



plot of chunk Challenge 2 Map

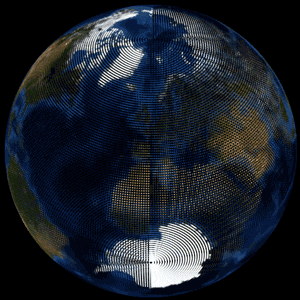
# Projections, Extents, and Units

type: section

# Projections

One of the most important things to remember when dealing with spatial data!!

A projection is a mathematical transformation of coordinates from the surface of a sphere on a 2D plane.



Demo of projection

# Types of projections

By surface: \* Cylindrical \* Conic \* Azimuthal

By preservation of a metric property \* Conformal (preserves shape, distorts area) \* Equal-area (preserves area, distorts shape) \* Equidistant (preserves distance from some point or line)

# Checking projection of your spatial objects

You can view the Coordinate Reference System of your spatial objects:

crs(pkmng\_countries)

CRS arguments:  
 +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0

crs(pkmng\_raster)

CRS arguments:  
 +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0

# Checking projection of spatial objects

But our points shapefile has no projection, because we didn’t set it when creating the object.

crs(pkmng\_points)

CRS arguments: NA

# Setting projection of spatial objects

Two options for defining projections: - Writing a string of desired projection - Extract projection from existing object

proj1 <- crs("+proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0")  
proj2 <- crs(pkmng\_countries)  
proj2

CRS arguments:  
 +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0

# Setting projection of spatial objects

Once you’ve defined the projection, add it to your object

proj4string(pkmng\_points) <- proj1  
pkmng\_points

class : SpatialPointsDataFrame   
features : 29602   
extent : -158.0198, 175.6162, -42.9845, 68.43698 (xmin, xmax, ymin, ymax)  
crs : +proj=longlat +datum=WGS84 +no\_defs +ellps=WGS84 +towgs84=0,0,0   
variables : 207  
names : pokemonId, latitude, longitude, appearedLocalTime, cellId\_90m, cellId\_180m, cellId\_370m, cellId\_730m, cellId\_1460m, cellId\_2920m, cellId\_5850m, appearedTimeOfDay, appearedHour, appearedMinute, appearedDayOfWeek, ...   
min values : 1, -42.984504, -158.019758, 2016-09-02T21:50:11Z, 43172735374852096, 43172735576178688, 43172735307743232, 43172732086517760, 43172719201615872, 43172667662008320, 43172598942531584, afternoon, 0, 0, dummy\_day, ...   
max values : 149, 68.43698, 175.616223, 2016-09-08T03:51:27Z, 12280882455157669888, 12280882455224778752, 12280882455493214208, 1.2280882456567e+19, 12280882443682054144, 12280882495221661696, 12280882701380091904, night, 23, 59, Wednesday, ...

# Transform projection of spatial objects

When you want to change the projection of a spatial object

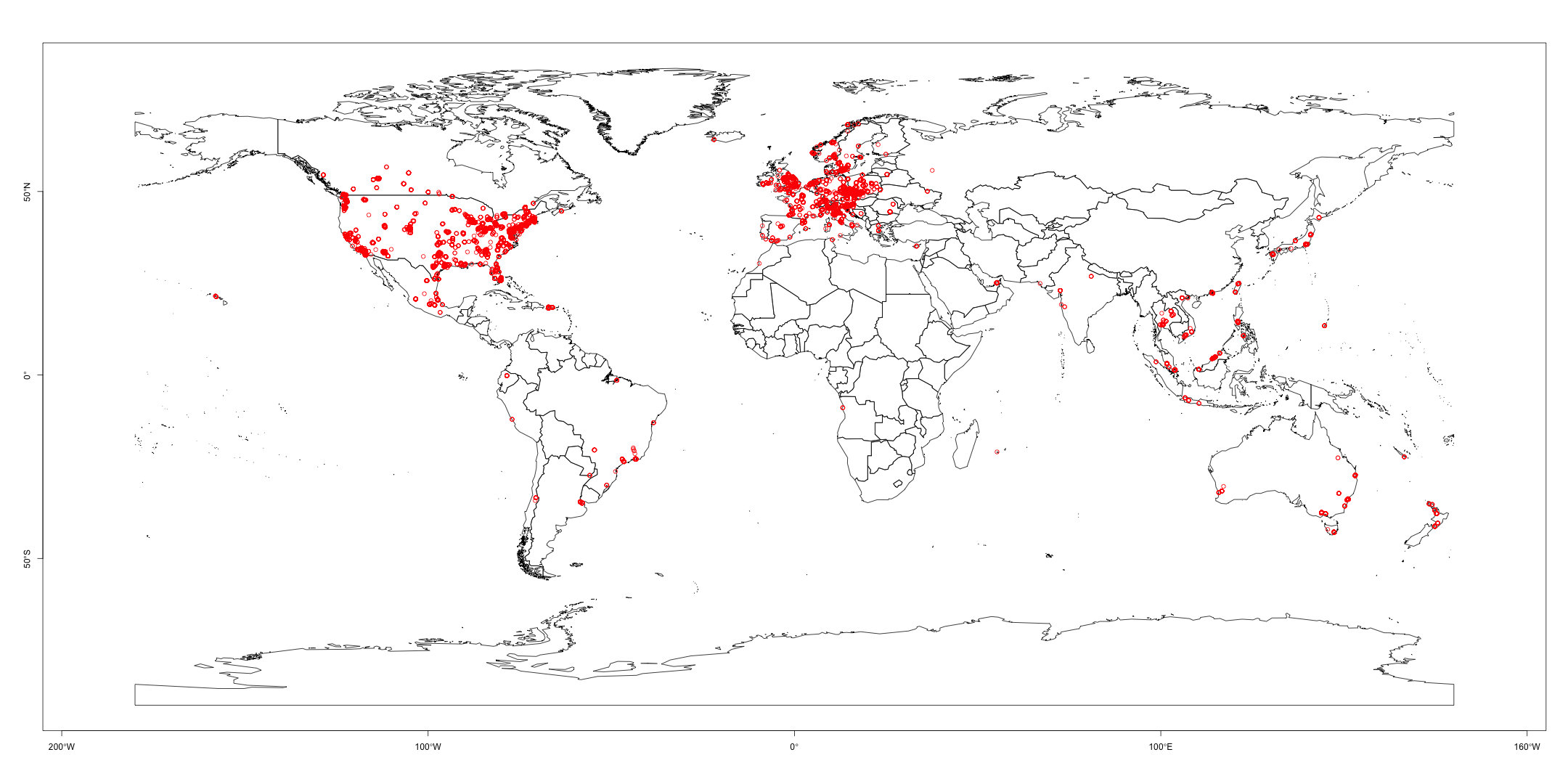
pkmng\_points\_p <- spTransform(pkmng\_points,  
 crs("+proj=laea +lat\_0=0 +lon\_0=0"))  
pkmng\_points\_p

class : SpatialPointsDataFrame   
features : 29602   
extent : -9285067, 11178209, -11993372, 9520128 (xmin, xmax, ymin, ymax)  
crs : +proj=laea +lat\_0=0 +lon\_0=0 +ellps=WGS84   
variables : 207  
names : pokemonId, latitude, longitude, appearedLocalTime, cellId\_90m, cellId\_180m, cellId\_370m, cellId\_730m, cellId\_1460m, cellId\_2920m, cellId\_5850m, appearedTimeOfDay, appearedHour, appearedMinute, appearedDayOfWeek, ...   
min values : 1, -42.984504, -158.019758, 2016-09-02T21:50:11Z, 43172735374852096, 43172735576178688, 43172735307743232, 43172732086517760, 43172719201615872, 43172667662008320, 43172598942531584, afternoon, 0, 0, dummy\_day, ...   
max values : 149, 68.43698, 175.616223, 2016-09-08T03:51:27Z, 12280882455157669888, 12280882455224778752, 12280882455493214208, 1.2280882456567e+19, 12280882443682054144, 12280882495221661696, 12280882701380091904, night, 23, 59, Wednesday, ...

# Why are projections so important?

Here’s our points mapped on top of a shapefile of countries:

plot(pkmng\_countries, axes = T)  
plot(pkmng\_points, add = T, pch = 1, col = "red")

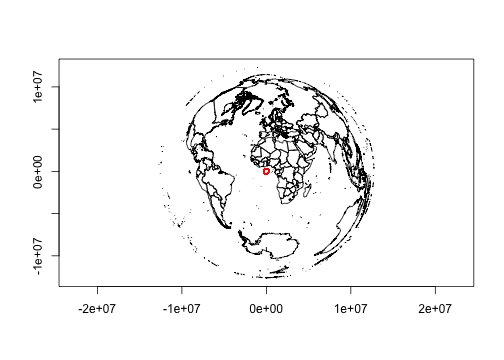


plot of chunk map

# Why are projections so important?

Projections don’t match:

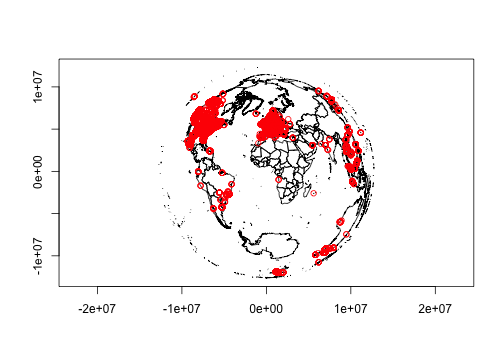
countries\_p <- spTransform(pkmng\_countries,  
 crs("+proj=laea +lat\_0=0 +lon\_0=0"))  
plot(countries\_p, axes = T)  
plot(pkmng\_points, add = T, pch = 1, col = "red")



plot of chunk map 2

Projections do match:

plot(countries\_p, axes = T)  
plot(pkmng\_points\_p, add = T, pch = 1, col = "red")



plot of chunk map 3

# Extent: Vectors

* Minimum and maximum X and Y coordinates of the object
* Depends on projections for units

pkmng\_countries@bbox

min max  
x -180 180.00000  
y -90 83.57027

countries\_p@bbox

min max  
x -12726751 12733710  
y -12641498 12299760

# Extent: Rasters

For raster objects, you find the extent with this syntax:

pkmng\_raster@extent

class : Extent   
xmin : -180   
xmax : 180   
ymin : -90.42973   
ymax : 83.57027

# Changing raster extents

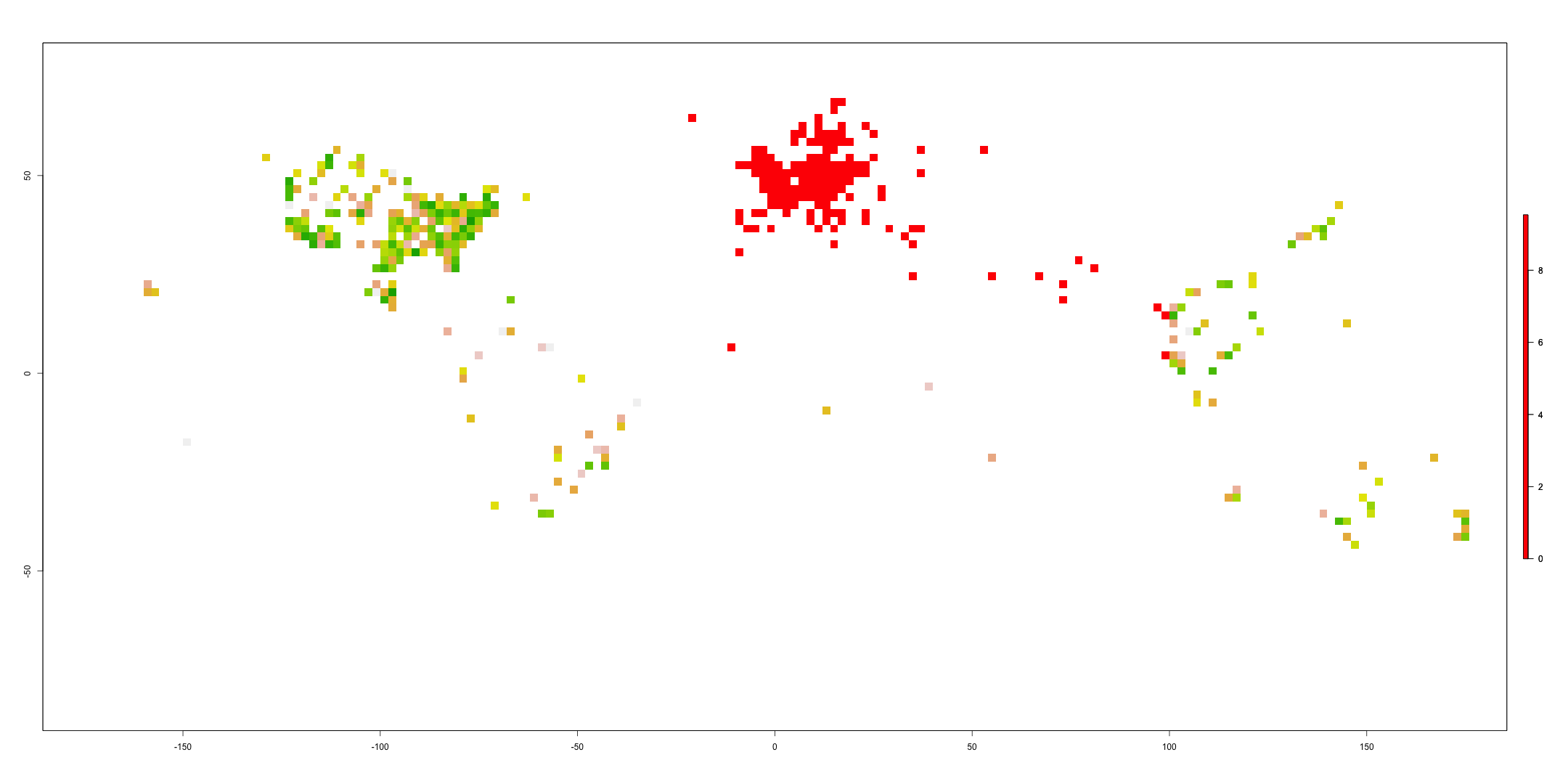
* Reduce extent using crop()
* Increase extent using extend()

pkmng\_raster\_c <- crop(pkmng\_raster,  
 extent(-50, 100, 0, 80))

# Changing raster extents

All the red cells are in the new, limited extent!

plot(pkmng\_raster)  
plot(pkmng\_raster\_c, add = T, col = "red")



plot of chunk extent 4

# Why is extent important?

Mismatching extents and projections result in errors

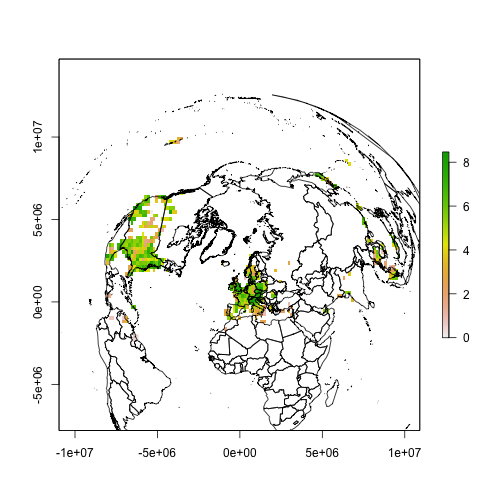
raster::intersect(countries\_p, pkmng\_raster\_c)

NULL

# Challenge 2: Load and display spatial data

type: prompt

Now it’s your turn! Try cropping the pkmng\_raster to the Northern Hemisphere and then projecting it using “+proj=laea +lat\_0=45 +lon\_0=0”. Bonus if you reproject and plot the country spatial file on top of it.



plot of chunk Challenge 2 Proj

# Solution 2: Load and display spatial data

type: prompt

pkmnh\_rast\_crop <- crop(pkmng\_raster, extent(c(-180, 180, 0, 90)))  
pkmng\_raster\_crop\_rprj <- projectRaster(pkmnh\_rast\_crop,   
 crs = "+proj=laea +lat\_0=45 +lon\_0=0")  
plot(pkmng\_raster\_crop\_rprj)  
plot(spTransform(pkmng\_countries,   
 CRSobj = "+proj=laea +lat\_0=45 +lon\_0=0"), add = T)

# Some Basic Spatial Manipulation and Analysis

type: section

# Geoprocessing

* GIS operations used to manipulate spatial data
* Input dataset -> operation -> output dataset

# Geoprocessing: Buffer points

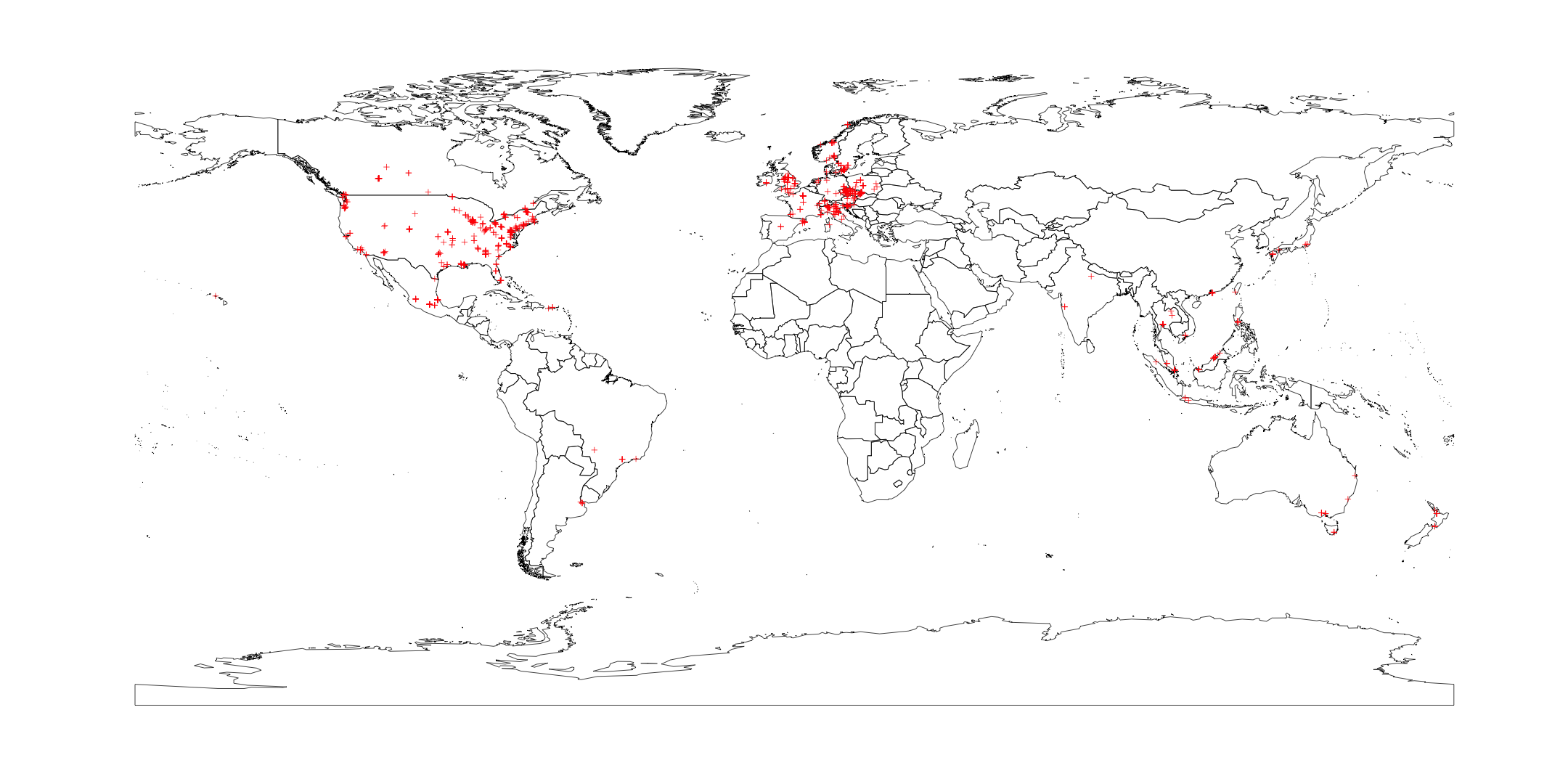
* creates a polygon based on proximity

**Example:** buffer some pokemon points to 100km radius

# Geoprocessing: Buffer points

First, subset data

sub\_pkmng\_p<- subset(pkmng\_points, pokemonId %in% c(8:10))  
plot(pkmng\_countries)  
plot(sub\_pkmng\_p,add = T, col = "red")

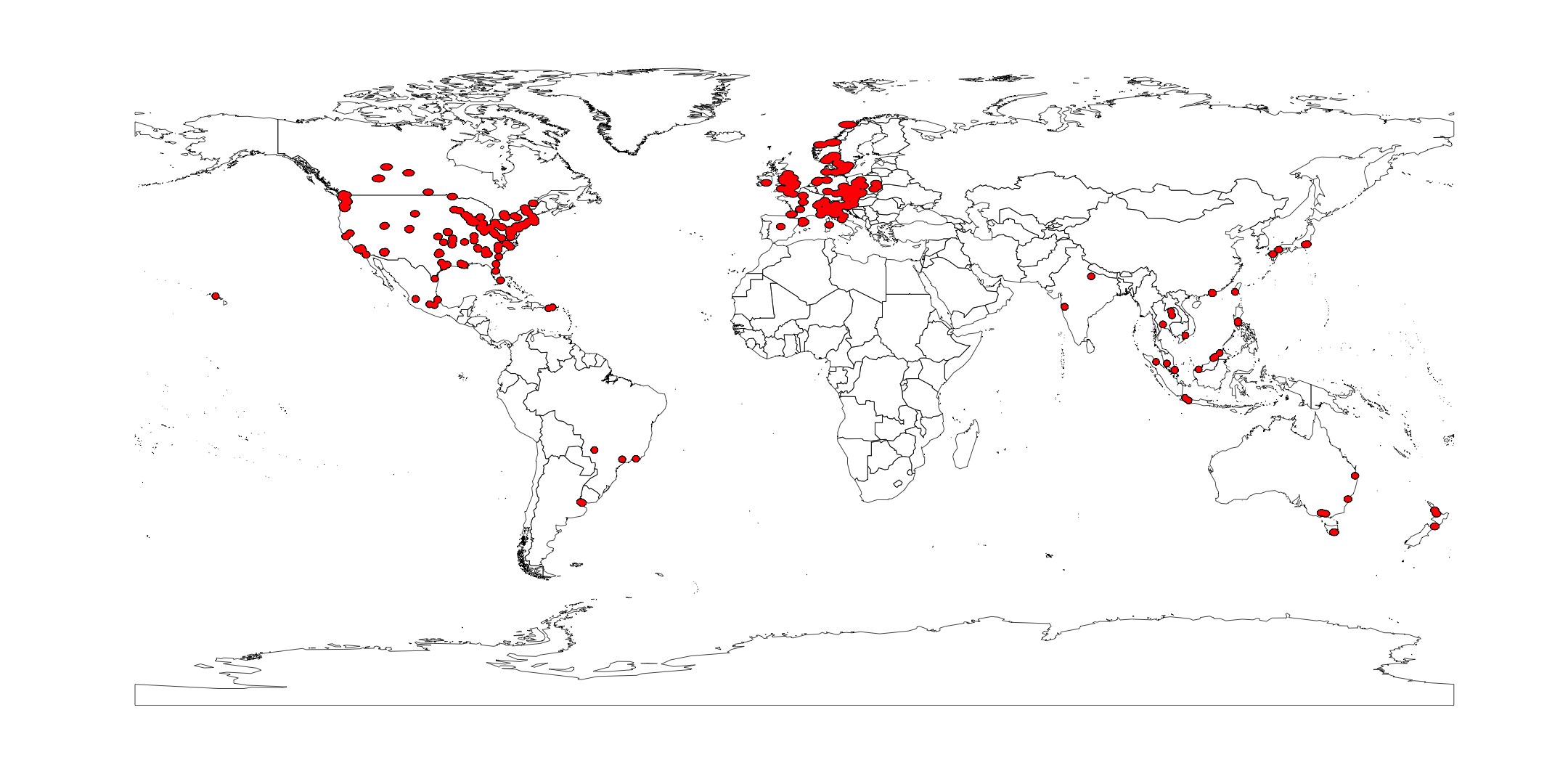


plot of chunk subset pokemon

# Geoprocessing: Buffer points

Then buffer with a 100km radius

buffer\_pkmng\_points<- raster::buffer(sub\_pkmng\_p,width = 100000)  
plot(pkmng\_countries)  
plot(buffer\_pkmng\_points,add = T, col = "red")



plot of chunk buffer pokemon

# Geoprocessing: Clip

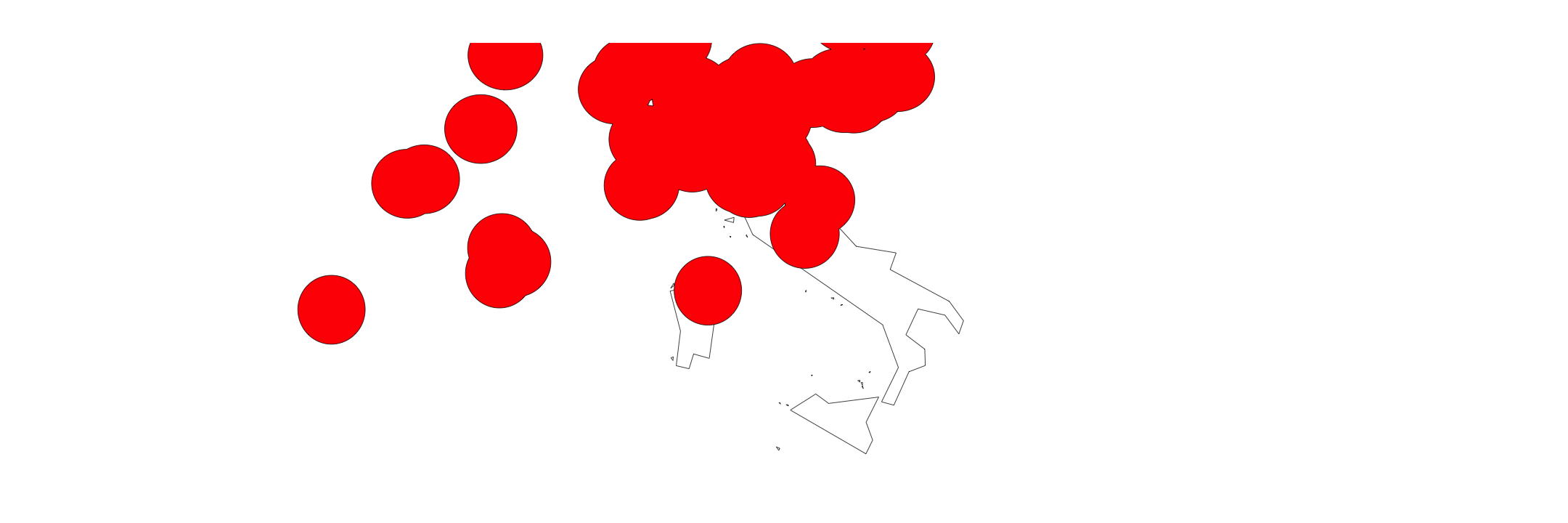
* Overlay function that cuts out an input layer with extent of a defined feature boundary
* Result of this tool is a new clipped output layer.

**Example:** clip buffered points to ones in Italy, and to fit boundaries of Italian coastline.

# Geoprocessing: Clip

First, filter Italy out of the countries shapefile

Italy <- pkmng\_countries %>% filter(NAME == "Italy")  
plot(Italy)  
plot(buffer\_pkmng\_points, add = T, col = "red")

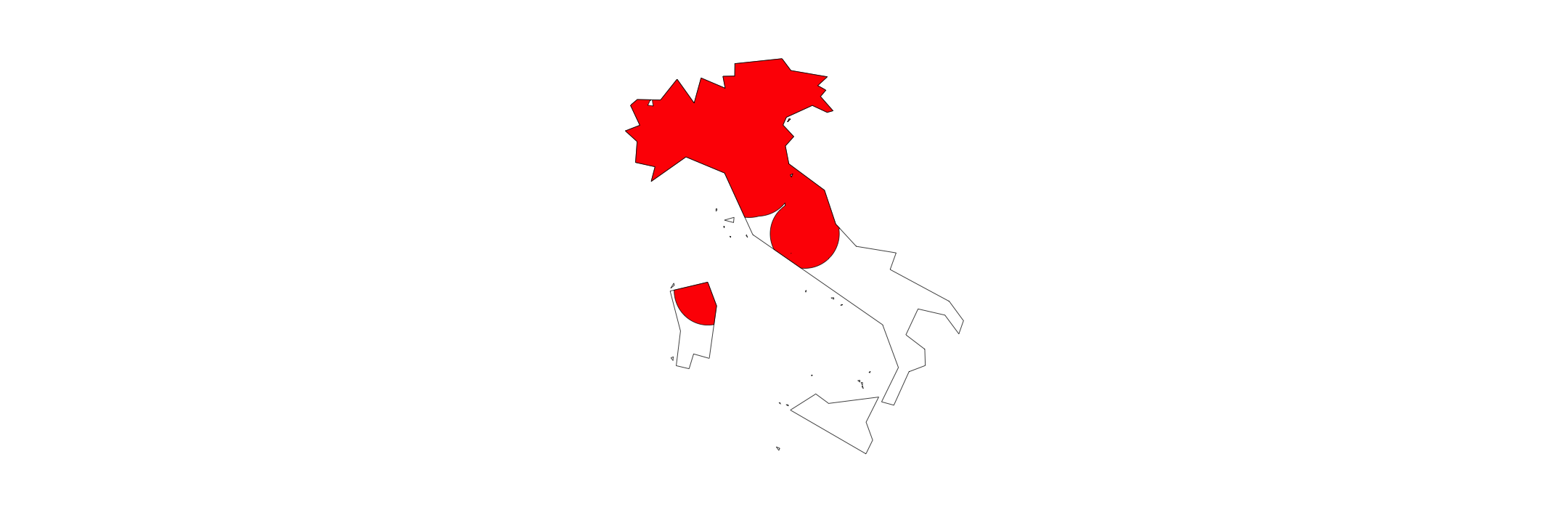


plot of chunk pull out Italy

# Geoprocessing: Clip

Now clip buffered points based on Italian shapefile we created

clip\_pkmng\_rgeos<- rgeos::gIntersection(Italy, buffer\_pkmng\_points,   
 byid = TRUE, drop\_lower\_td = TRUE)  
plot(Italy)  
plot(clip\_pkmng\_rgeos, add = T, col = "red")



plot of chunk clip to Italy

# Geoprocessing: Intersect

* similar to clip tool because the extent of input features defines the output
* BUT it preserves attributes from all data sets that overlap each other in the output

Lets intersect the points with the country shapefile to find which points belong to which country

intersect\_pkmg<- raster::intersect(pkmng\_points,pkmng\_countries)

# Geoprocessing: Intersect

head(pkmng\_countries@data)[,5:7]

NAME AREA POP2005  
0 Antigua and Barbuda 44 83039  
1 Algeria 238174 32854159  
2 Azerbaijan 8260 8352021  
3 Albania 2740 3153731  
4 Armenia 2820 3017661  
5 Angola 124670 16095214

head(intersect\_pkmg@data)[,c(1:3,212:214)]

pokemonId latitude longitude NAME AREA POP2005  
1 16 53.68574 -0.443450 United Kingdom 24193 60244834  
2 60 46.00403 8.957153 Switzerland 4000 7424389  
3 19 46.23540 15.254241 Slovenia 2014 1999425  
4 16 50.67543 14.541165 Czech Republic 7727 10191762  
5 23 44.49420 11.344701 Italy 29411 5864636  
6 120 50.18774 14.657816 Czech Republic 7727 10191762

# Geoprocessing: Merge

* Combines datasets that are the same data type

#subset the countries  
sub\_count<- pkmng\_countries %>% filter(NAME==c("France","Italy"))  
sub\_count\_sf<- sf::st\_as\_sf(sub\_count)  
merge\_count<- sf::st\_combine(sub\_count\_sf)  
plot(merge\_count)



plot of chunk merge

# Geoprocessing: Dissolve

* Unifies boundaries based on common attribute values

diss\_sub\_count<- rgeos::gUnaryUnion(sub\_count)  
plot(diss\_sub\_count)



plot of chunk dissolve

# Zonal statistics

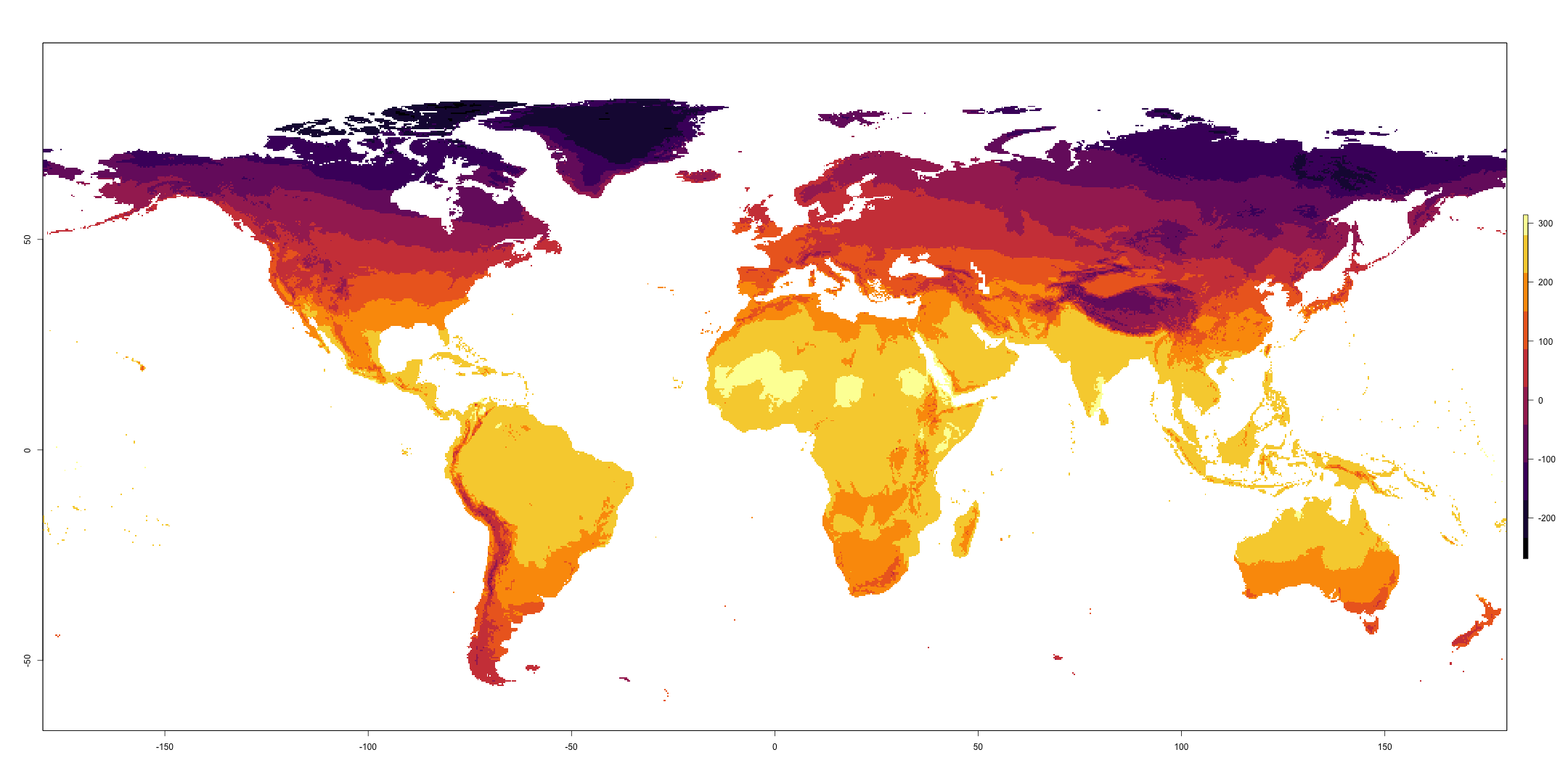
Allows you to calculate statistics from raster data for each feature a vector dataset

**Example:** Calculate mean temperature at pokemons were collected.

# Zonal statistics: Step 1

Download and plot the mean annual temperature from the web using the getData function

climate <- raster::getData('worldclim', var='bio', res=10)  
annual\_temp<- climate$bio1  
plot(annual\_temp, col = viridis::inferno(n=10))



plot of chunk get data

# Zonal statistics: Step 2

Extract temperature at each point

poke\_annual\_temp<- raster::extract(annual\_temp, pkmng\_points, na.rm=T, df=T)  
head(poke\_annual\_temp)

ID bio1  
1 1 95  
2 2 92  
3 3 93  
4 4 73  
5 5 133  
6 6 89

# Zonal statistics: Step 3

Uh-oh, the data has no identification of which point it belongs! We need to merge it with the point identifiers.

poke\_annual\_temp\_final<- cbind(pkmng\_points@data$pokemonId,poke\_annual\_temp$bio1)  
colnames(poke\_annual\_temp\_final)<- c("pokemonId","Annual\_Temp")  
head(poke\_annual\_temp\_final)

pokemonId Annual\_Temp  
[1,] 16 95  
[2,] 60 92  
[3,] 19 93  
[4,] 16 73  
[5,] 23 133  
[6,] 120 89

# Zonal statistics: Results

Ta-da!

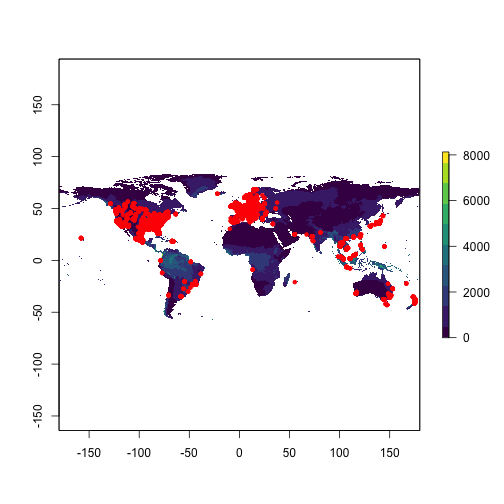
boxplot(poke\_annual\_temp\_final[,2],   
 main = "Pokemon Collection Temperature", col = "#00cc99")

# Challenge 3: Zonal Statistics

type: prompt

Now you try it! What is the mean annual precipitation at which pokemons were collected?

***Hint:*** Mean annual precipitation is bio12 in the climate dataset.



plot of chunk Challenge 3 ZS

# Solution 3: Zonal Statistics

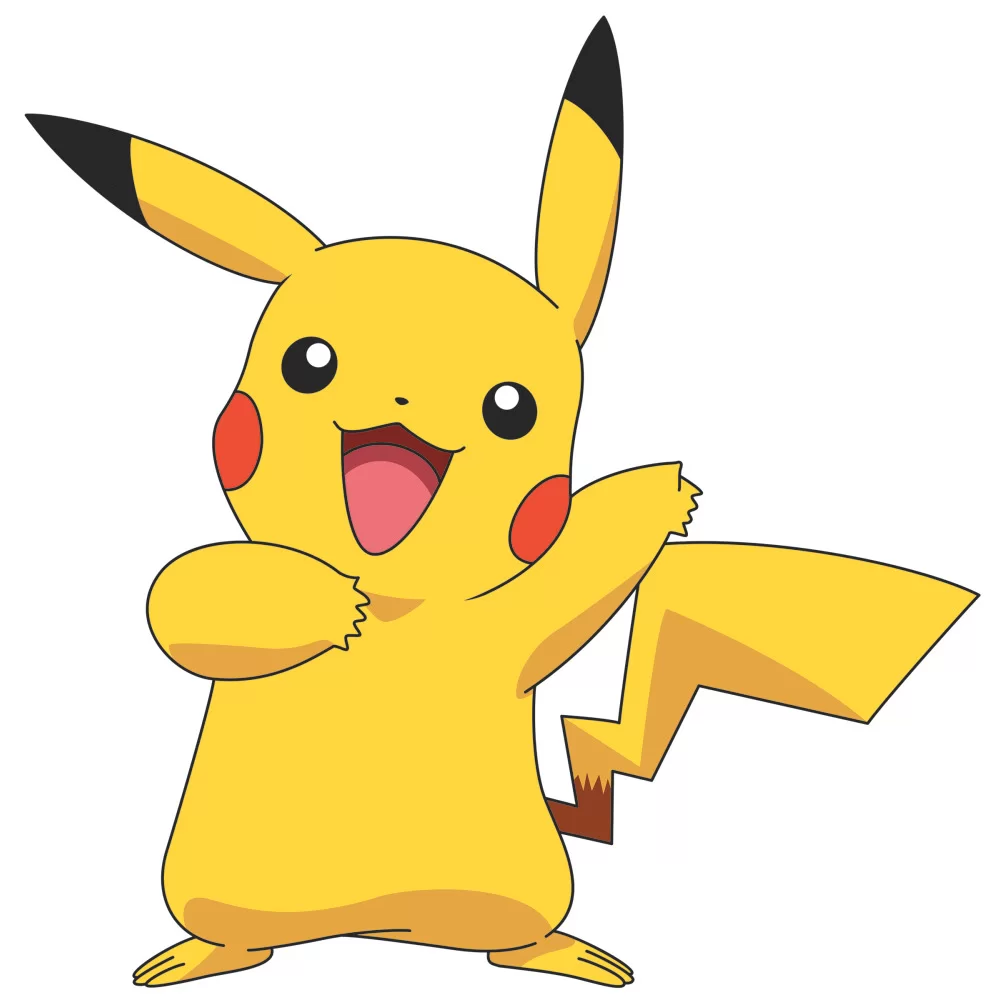
type: prompt

annual\_precip<- climate$bio12  
poke\_annual\_precip<- raster::extract(annual\_precip, pkmng\_points, na.rm=T, df=T)  
poke\_annual\_precip\_final<- cbind(pkmng\_points@data$pokemonId,poke\_annual\_precip$bio12)  
colnames(poke\_annual\_precip\_final)<- c("pokemonId","Annual\_Precip")  
paste0("Mean annual precipitation at pokemon collections: ",   
 round(mean(poke\_annual\_precip\_final[,2], na.rm = T)), digits = 2)

[1] "Mean annual precipitation at pokemon collections: 9372"

# TAKE HOME MESSAGES

* Be mindful of projections!
* Visualize spatial patterns!
* No one tool does everything!



Pikachu