```
devtools::install_github("cmu-delphi/covidcast", ref = "main",
                         subdir = "R-packages/covidcast")
```

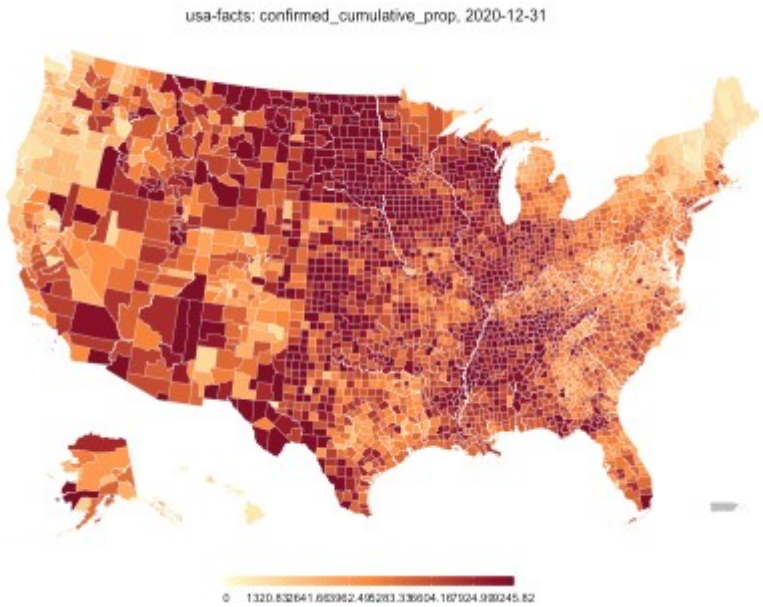
The code below pulls data on cumulative COVID cases per 100k people on 2020-12-31 at the county level. `covidcast_signal` is the function to use for pulling data, and it returns an object of class `c("covidcast_signal", "data.frame")`.

```
library(covidcast)

# Cumulative COVID cases per 100k people on 2020-12-31
df <- covidcast_signal(data_source = "usa-facts",
                       signal = "confirmed_cumulative_prop",
                       start_day = "2020-12-31", end_day = "2020-12-31")
summary(df)
# A `covidcast_signal` data frame with 3142 rows and 9 columns.
#
# data_source : usa-facts
# signal      : confirmed_cumulative_prop
# geo_type    : county
#
# first date                          : 2020-12-31
# last date                           : 2020-12-31
# median number of geo_values per day : 3142
```

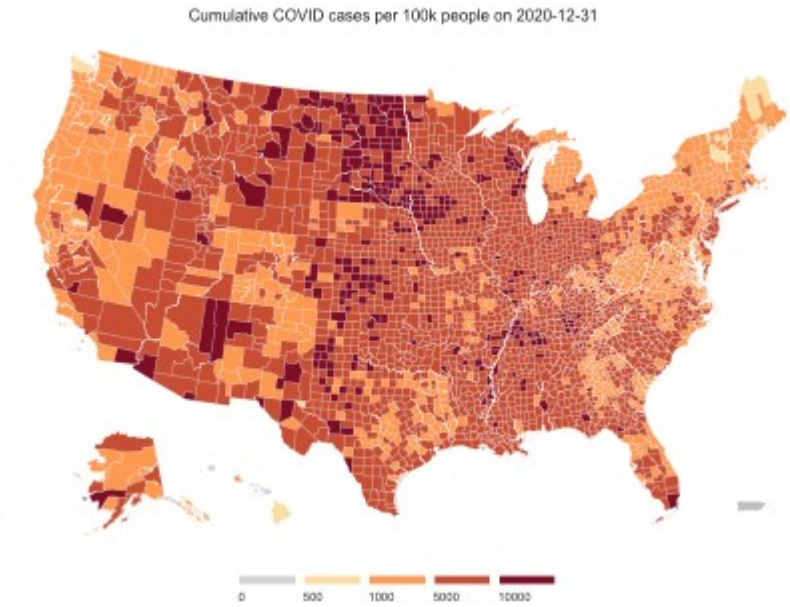
There is a `plot` method for calss `covidcast_signal` objects:

```
plot(df)
```



The automatic plot is usually not bad. The `plot` method comes with some arguments that the user can use to customize the plot (full documentation here):

```
breaks <- c(0, 500, 1000, 5000, 10000)
colors <- c("#D3D3D3", "#FEDDA2",  "#FD9950", "#C74E32", "#800026")
plot(df, choro_col = colors, choro_params = list(breaks = breaks),
     title = "Cumulative COVID cases per 100k people on 2020-12-31")
```



The plot returned is actually created using the `ggplot2` package, so it is possible to add your own `ggplot2` code on top of it:

```
library(ggplot2)
plot(df, choro_col = colors, choro_params = list(breaks = breaks),
     title = "Cumulative COVID cases per 100k people on 2020-12-31") +
  theme(title = element_text(face = "bold"))
```