

```

# Google maps
library(ggplot2)
library(ggmap)

#
# Register your GOOGLE KEY!!
#
register_google(key='YOUR_GOOGLE_KEY') # Register the google key.

gc <- geocode(enc2utf8("종로구")) # longitude and latitude
gc
cen <- as.numeric(gc) # transit longitude and latitude into numbers
cen
map <- get_googlemap(center=cen) # create the map
ggmap(map) # Show the map

#
# Create a google map of Seoul.
#
gc2 <- geocode(enc2utf8("Seoul"))
gc2
cen2 <- as.numeric(gc2) # transit longitude and latitude into numbers
cen2
map2 <- get_googlemap(center=cen2) # create the map
ggmap(map2) # Show the map

#
# Create a google map of Paris.
#
gc3 <- geocode(enc2utf8("Paris"))
gc3
cen3 <- as.numeric(gc3) # transit longitude and latitude into numbers
cen3
map3 <- get_googlemap(center=cen3) # create the map
ggmap(map3) # Show the map

# Seol-Ak-San mountain
gc <- geocode(enc2utf8("설악산")) # longitude and latitude
cen <- as.numeric(gc) # transit them into numbers
map <- get_googlemap(center=cen, # Centralized
  zoom=9, # Zoom out
  size=c(640,640), # map size
  maptype="roadmap") # map type
ggmap(map) # Show the map

# London
gc4 <- geocode(enc2utf8("London")) # longitude and latitude
cen4 <- as.numeric(gc4) # transit them into numbers
map4 <- get_googlemap(center=cen4, # Centralized
  zoom=9, # Zoom out
  size=c(640,640), # map size
  maptype="hybrid") # map type
ggmap(map4) # Show the map

# Show the map by entering the longitude and latitude
# library(ggmap)
# register_google(key='AlzaSyCK...E9urxjSpPOA') # Register your google key

```

```
cen <- c(-118.233248, 34.085015) # It is a google map for LA.
map <- get_googlemap(center=cen)      # Create the map
ggmap(map)                          # Show the map
```

# Make a marker on the center of a google map

```
gc5 <- geocode(enc2utf8("용인시"))    # longitude, latitude
cen5 <- as.numeric(gc5)               # transit them into numbers
map5 <- get_googlemap(center=cen5,     # Centralized
  maptype="roadmap",                 # map type
  marker=gc5)                       # make a marker
ggmap(map5)                          # Show a google map
```

# London

```
gc6 <- geocode(enc2utf8("London"))    # longitude, latitude
cen6 <- as.numeric(gc6)               # transit them into numbers
map6 <- get_googlemap(center=cen6,     # Centralized
  maptype="roadmap",                 # map type
  marker=gc6)                       # make a marker
ggmap(map6)                          # Show a google map
```

# Sejong University

```
gc7 <- geocode(enc2utf8("Sejong University")) # longitude and latitude
cen7 <- as.numeric(gc7)               # transit them into numbers
map7 <- get_googlemap(center=cen7,     # Centralized
  zoom=9,                            # Zoom out
  size=c(320,320),                   # map size
  maptype="roadmap",                 # map type
  marker=gc7)                       # map type
ggmap(map7)                          # Show the map
```