

Using ggmap

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It is a package interfacing ggplot2 and RGoogleMaps.

There are two steps in making a map.

- download raster data for the map with `get_map()`
- plot with the `ggmap()` and overlay with layers

Raster data is downloaded with:

- location of center
- zoom factor: 3=continent, 10=city, 21=building

Location specification can be done with:

- address OR
- lon/lat longitude and latitude

maptype in `ggmap`:

- `satellite`
- `roadmap`
- `hybrid`

Geographic coordinates can be obtained with `geocode()` function.

Example:

```
library(ggmap)
```

```
## Loading required package: ggplot2
```

```
site <- geocode("Pokhara")
```

```
## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=Pokhara&sensor=false
```

```
Pokhara<- ggmap(get_map(location=site, source="google", zoom=10), extent="panel")
```

```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=28.237987,83.995588&zoom=10&size=
```

```
Pokhara
```

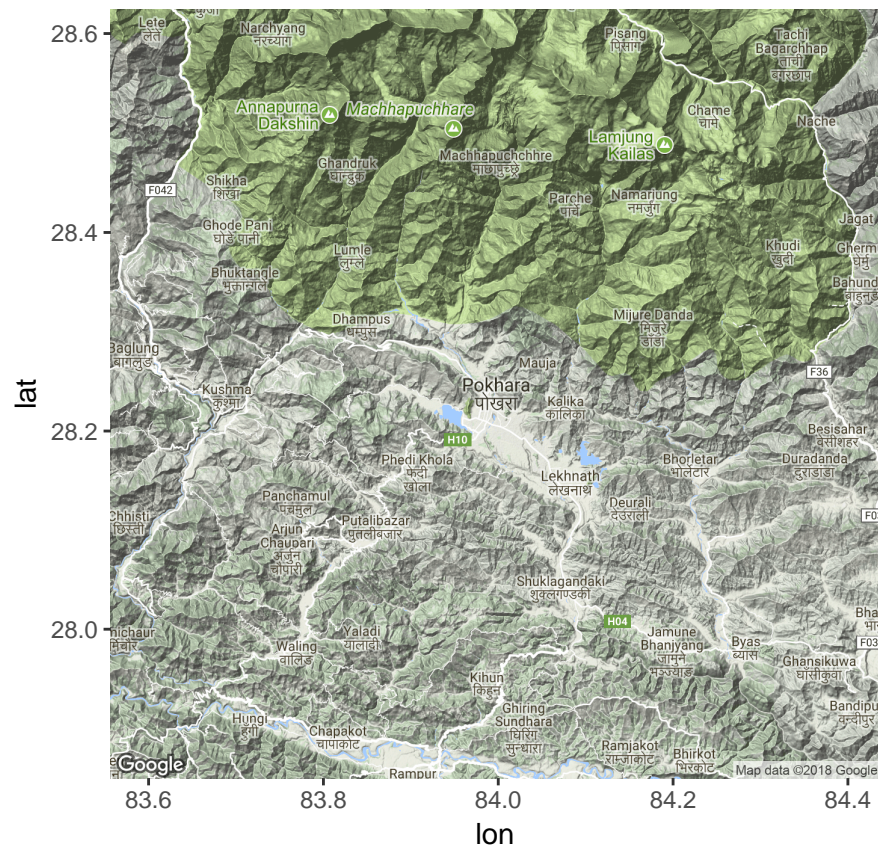


Figure 1: Pokhara