Bude

Brianna Kincaid March 21, 2018

Set up

```
First import necessary libraries.
```

```
library(ggmap)
## Warning: package 'ggmap' was built under R version 3.4.4
## Loading required package: ggplot2
library(tidyverse)
## -- Attaching packages --
## v tibble 1.4.2
                       v purrr
                                 0.2.4
           0.8.0
                                 0.7.4
## v tidyr
                       v dplyr
## v readr
           1.1.1
                      v stringr 1.2.0
## v tibble 1.4.2
                      v forcats 0.2.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(knitr)
```

Bude is a town in Western England, well-known as a beach resort. We find the coordinates using geocode().

```
Bude_coord <- geocode("S W Coast Path, Bude EX23 8HN, UK")</pre>
```

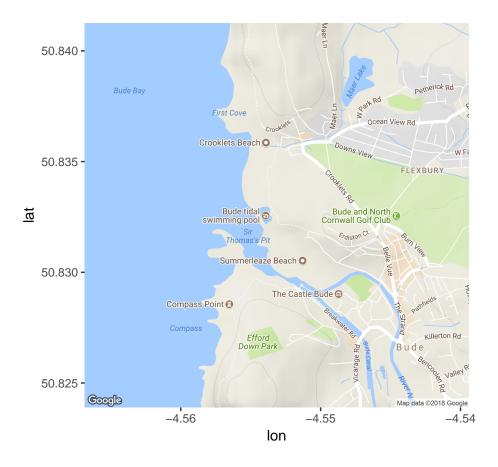
Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=S%20W%20Coast%20Path I chose the center of the map to be the Bude North Cornwall Cricket Club, as that is the central location of

this assignment, and allows for better viewing of the surrounding area.

Road map

```
Bude_roadmap <- get_map(Bude_coord, zoom = 15)

## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=50.832584,-4.553165&zoom=15&size=
ggmap(Bude_roadmap)</pre>
```



Watercolor map

```
Bude_watercolor <- get_map(Bude_coord, maptype = "watercolor", zoom = 15)

## maptype = "watercolor" is only available with source = "stamen".

## resetting to source = "stamen"...

## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=50.832584,-4.553165&zoom=15&size

## Map from URL : http://tile.stamen.com/watercolor/15/15968/10992.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15969/10992.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15968/10993.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15969/10993.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15969/10993.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15968/10994.jpg

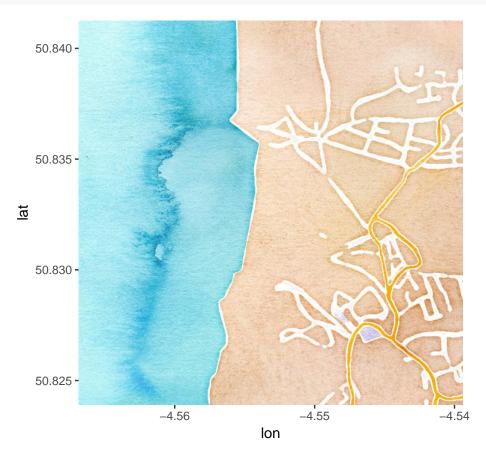
## Map from URL : http://tile.stamen.com/watercolor/15/15969/10994.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15969/10994.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15968/10994.jpg

## Map from URL : http://tile.stamen.com/watercolor/15/15968/10995.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15969/10995.jpg
## Map from URL : http://tile.stamen.com/watercolor/15/15970/10995.jpg
ggmap(Bude_watercolor)
```



Marking vacation spots

There are a number of good beaches in the Bude area, many of which offer good surfing conditions.

Two local beaches

Summerleaze Beach

include_graphics("summerleaze.jpg")



summerleaze <- geocode("Summerleaze Beach, Summerleaze Cres, Bude EX23 8HN, UK")</pre>

Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=Summerleaze%20Beach,

Crooklets Beach

include_graphics("crooklets.jpg")



crooklets <- geocode("Crooklets Beach, S W Coast Path, Bude EX23 8NE, UK")</pre>

Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=Crooklets%20Beach,%2

Cricket grounds (Bude North Cornwall Cricket Club)

"Bude North Cornwall Cricket Club is situated on the clifftops overlooking the Atlantic Ocean, and is quite simply one of the most stunning locations you could ever wish to visit, let alone play cricket at! Bude North Cornwall Cricket Club was founded in 1870. Over the years it has played host to Hockey matches, Tennis, Cricket and even used for Mortar practice in WW2!" Source.

include_graphics("cricket.jpg")

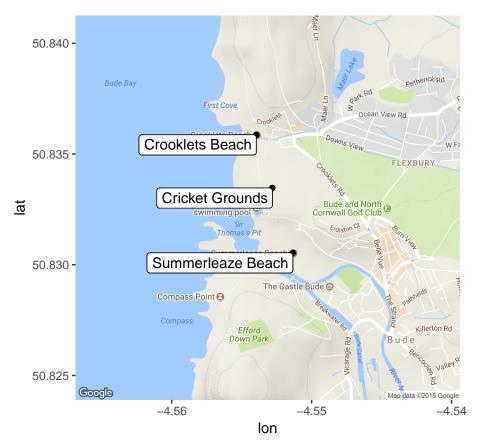


```
cricket_grounds_coord <-geocode("Bude North Cornwall Cricket Club")</pre>
```

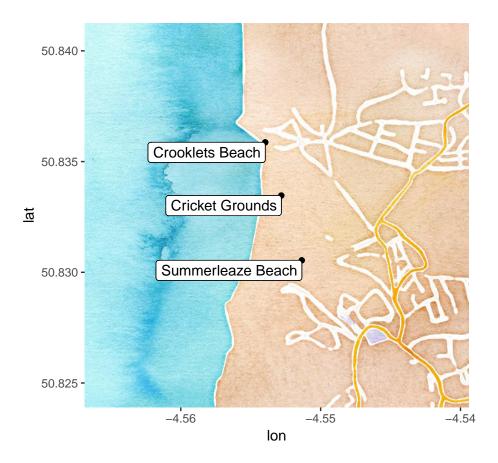
 $\verb|## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=Bude\%20North\%20Cornwarks and the state of the st$

Putting them on the maps

```
ggmap(Bude_roadmap) +
  geom_point(mapping = aes(x = summerleaze$lon, y = summerleaze$lat)) +
  geom_label(x = summerleaze$lon, y = summerleaze$lat, label = "Summerleaze Beach", hjust = 1, vjust=1)
  geom_point(mapping = aes(x = crooklets$lon, y = crooklets$lat)) +
  geom_label(x = crooklets$lon, y = crooklets$lat, label = "Crooklets Beach", hjust = 1, vjust=1) +
  geom_point(mapping = aes(x = cricket_grounds_coord$lon, y = cricket_grounds_coord$lat)) +
  geom_label(x = cricket_grounds_coord$lon, y = cricket_grounds_coord$lat, label = "Cricket Grounds", h
```



```
ggmap(Bude_watercolor) +
  geom_point(mapping = aes(x = summerleaze$lon, y = summerleaze$lat)) +
  geom_label(x = summerleaze$lon, y = summerleaze$lat, label = "Summerleaze Beach", hjust = 1, vjust=1)
  geom_point(mapping = aes(x = crooklets$lon, y = crooklets$lat)) +
  geom_label(x = crooklets$lon, y = crooklets$lat, label = "Crooklets Beach", hjust = 1, vjust=1) +
  geom_point(mapping = aes(x = cricket_grounds_coord$lon, y = cricket_grounds_coord$lat)) +
  geom_label(x = cricket_grounds_coord$lon, y = cricket_grounds_coord$lat, label = "Cricket Grounds", h
```



Marking route from Bude North Cornwall Cricket Club to The Barrel at Bude

The Barrel at Bude:

include_graphics("barrel.jpg")



The Barrel at Bude is one

of the oldest buildings in Bude and was originally a sea canal worker's house. It was only the second micropub to open in Cornwall.

```
barrel <- geocode("36 Lansdown Rd, Bude EX23 8BN, UK")
```

from <- "Bude North Cornwall Cricket Club"</pre>

Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=36%20Lansdown%20Rd,%

The route:

