Mapping Bude

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Bude

Bude is a small town and a nice vacation spot in Western England, here's a portion of it on the map:
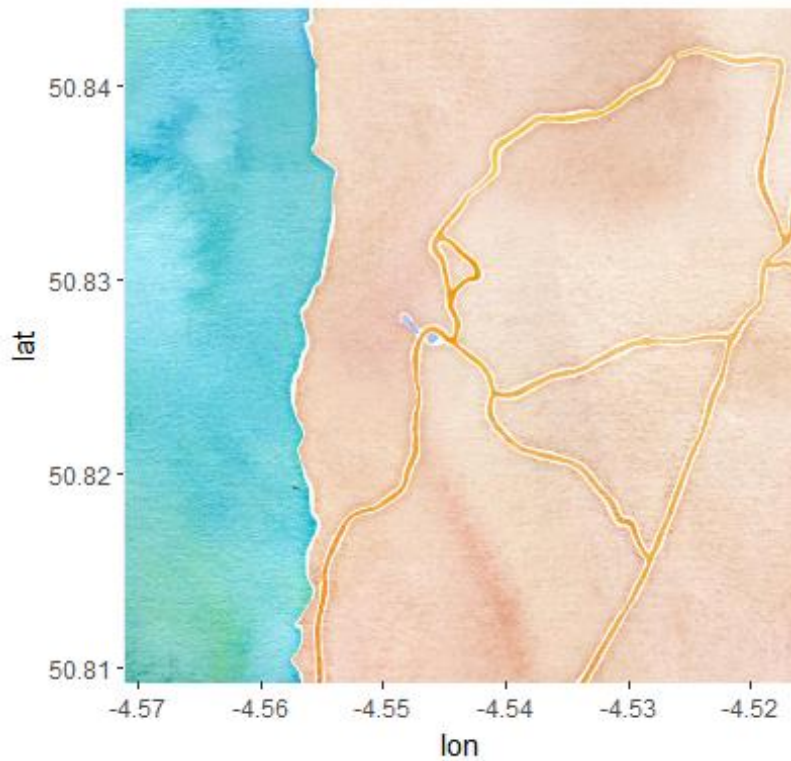
Bude Roadmap

Here is the Bude roadmap:

```
## Map from URL :
http://maps.googleapis.com/maps/api/staticmap?center=Bude&zoom=14&size=640x64
0&scale=2&maptype=roadmap&language=en-EN&sensor=false

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


Here is the watercolor map:

```
mapWater <- get_map(location = 'Bude', zoom = 14, maptype = 'watercolor')
```

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

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

## Map from URL :
http://maps.googleapis.com/maps/api/staticmap?center=Bude&zoom=14&size=640x64
0&scale=2&maptype=terrain&sensor=false

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

## Map from URL : http://tile.stamen.com/watercolor/14/7983/5496.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7984/5496.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7985/5496.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7986/5496.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7983/5497.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7984/5497.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7985/5497.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7986/5497.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7983/5498.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7984/5498.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7985/5498.jpg

## Map from URL : http://tile.stamen.com/watercolor/14/7986/5498.jpg

ggmap(mapWater)
```

Some Nice Cricket Spots

```r
df <- data.frame(location = c('Summerleaze beach', 'The Barrel at Bude'),
sizes = c(30,30), color = 'blue', stringsAsFactors = FALSE)
#May take a couple tries, isn't stable for whatever reason but it works
locs_geo <- geocode(df$location)

## Information from URL :
http://maps.googleapis.com/maps/api/geocode/json?address=Summerleaze%20beach&
sensor=false

## Information from URL :
http://maps.googleapis.com/maps/api/geocode/json?address=The%20Barrel%20at%20
Bude&sensor=false

df <- cbind(df, locs_geo)
ggmap(roadmap) + geom_point(data = df, aes(x = lon, y = lat, size = sizes))
```

Summerleaze Beach

Route From Summerleaze Beach to The Barrel at Bude

```
from <- "Summerleaze beach"
to <- "The Barrel at Bude"
route_df <- route(from, to, structure = "route")

## Information from URL :
http://maps.googleapis.com/maps/api/directions/json?origin=Summerleaze+beach&
destination=The+Barrel+at+Bude&mode=driving&units=metric&alternatives=false&s
ensor=false

#ggmap(mapWater) + geom_point(data = df, aes(x = Lon, y = lat))
ggmap(mapWater) +
  geom_path(
    aes(x = lon, y = lat), colour = "red", size = 1.5,
    data = route_df, lineend = "round"
  ) + geom_point(data = df, aes(x = lon, y = lat))
```