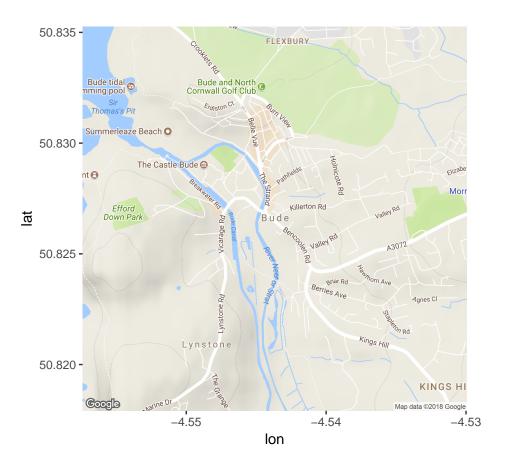
Bude Maps

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```
library(ggmap)
## Loading required package: ggplot2
## Google Maps API Terms of Service: http://developers.google.com/maps/terms.
## Please cite ggmap if you use it: see citation("ggmap") for details.
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.2.1 --
## √ tibble 1.4.2
                         √ purrr
                                      0.2.4
## \sqrt{\text{tidyr}} 0.8.0 \sqrt{\text{dplyr}} 0.7.4 ## \sqrt{\text{readr}} 1.1.1 \sqrt{\text{stringr}} 1.2.0 ## \sqrt{\text{tibble}} 1.4.2 \sqrt{\text{forcats}} 0.2.0
## -- Conflicts -----
                                                 ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                        masks stats::lag()
library(devtools)
```

Road map

```
map <- get_googlemap(center = c(-4.5437, 50.8266), zoom = 15)
## Source : https://maps.googleapis.com/maps/api/staticmap?center=50.8266,-4.5437&zoom=15&size=640x640&
ggmap(map)</pre>
```



Watercolor Map

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

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

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

## Source : https://maps.googleapis.com/maps/api/staticmap?center=Bude&zoom=15&size=640x640&scale=2&map

## Source : https://maps.googleapis.com/maps/api/geocode/json?address=Bude

## Source : http://tile.stamen.com/watercolor/15/15969/10993.jpg

## Source : http://tile.stamen.com/watercolor/15/15970/10993.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10993.jpg

## Source : http://tile.stamen.com/watercolor/15/15969/10994.jpg

## Source : http://tile.stamen.com/watercolor/15/15970/10994.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10994.jpg

## Source : http://tile.stamen.com/watercolor/15/15969/10995.jpg

## Source : http://tile.stamen.com/watercolor/15/15970/10995.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10995.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10995.jpg

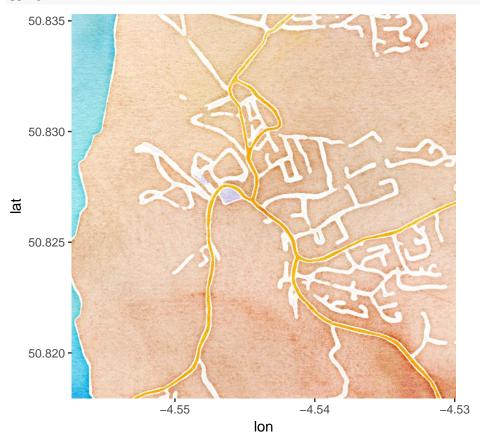
## Source : http://tile.stamen.com/watercolor/15/15971/10995.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10995.jpg

## Source : http://tile.stamen.com/watercolor/15/15971/10996.jpg

## Source : http://tile.stamen.com/watercolor/15/15991/10996.jpg</pre>
```

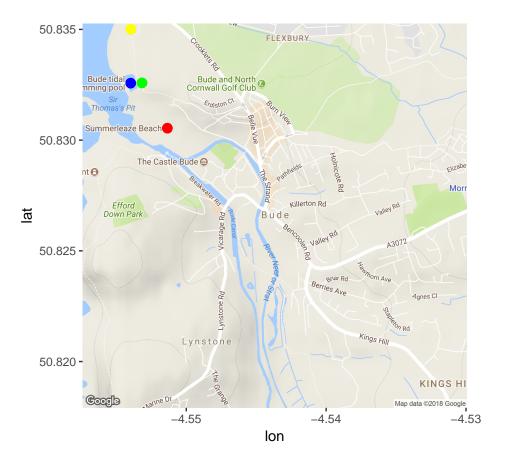
```
## Source : http://tile.stamen.com/watercolor/15/15970/10996.jpg
## Source : http://tile.stamen.com/watercolor/15/15971/10996.jpg
ggmap(watercolor)
```



Marked road map

Crooklets beach, Cricket grounds, Bude sea pool, Summerleaze beach

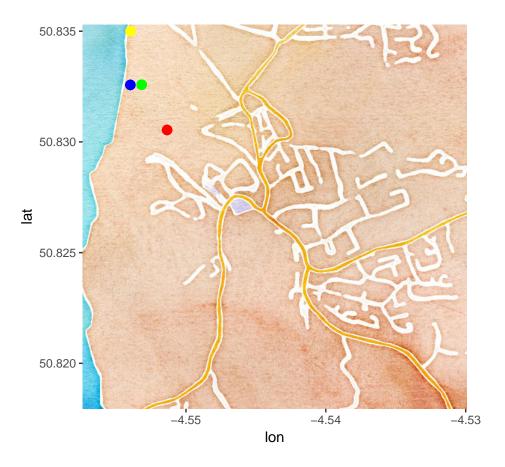
```
ggmap(map) +
  geom_point(
    aes(x = -4.553962 , y = 50.835),
    color = "yellow", size = 3) +
  geom_point(
    aes(x = -4.553165 , y = 50.832584),
    color = "green", size = 3) +
  geom_point(
    aes(x = -4.553974 , y = 50.832574),
    color = "blue", size = 3)+
  geom_point(
    aes(x = -4.551349, y = 50.830540),
    color = "red", size = 3)
```



Watercolor marked map

crooklets beach, cricket grounds, bude sea pool, summerleaze beach

```
ggmap(watercolor) +
  geom_point(
    aes(x = -4.553962 , y = 50.835),
    color = "yellow", size = 3) +
  geom_point(
    aes(x = -4.553165 , y = 50.832584),
    color = "green", size = 3) +
  geom_point(
    aes(x = -4.553974 , y = 50.832574),
    color = "blue", size = 3)+
  geom_point(
    aes(x = -4.551349, y = 50.830540),
    color = "red", size = 3)
```

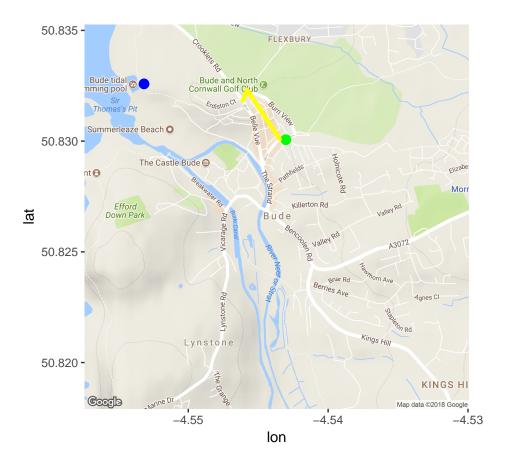


Route

```
from <- "Bude North Cornwall Cricket Club"
to <- "The Barrell at Bude"
route_df <- route(from, to, structure = "route")

## Source : https://maps.googleapis.com/maps/api/directions/json?origin=Bude%20North%20Cornwall%20Crick
ggmap(map) +
    geom_point(
        aes(x = -4.553165 , y = 50.832584),
        color = "blue", size = 3) +
    geom_point(
        aes(x = -4.543023, y = 50.830066),
        color = "green", size = 3) +
    geom_path(
        aes(x = lon, y = lat), colour = "yellow", size = 1.5,
        data = route_df, lineend = "round"</pre>
```

Warning: Removed 3 rows containing missing values (geom_path).

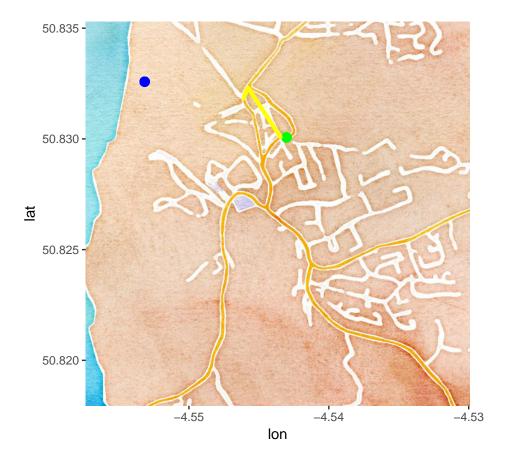


Route on watercolor map

```
from <- "Bude North Cornwall Cricket Club"
to <- "The Barrell at Bude"
route_df <- route(from, to, structure = "route")

## Source : https://maps.googleapis.com/maps/api/directions/json?origin=Bude%20North%20Cornwall%20Crick
ggmap(watercolor) +
   geom_point(
    aes(x = -4.553165 , y = 50.832584),
    color = "blue", size = 3) +
   geom_point(
   aes(x = -4.543023, y = 50.830066),
    color = "green", size = 3) +
   geom_path(
   aes(x = lon, y = lat), colour = "yellow", size = 1.5,
   data = route_df, lineend = "round"
)</pre>
```

Warning: Removed 3 rows containing missing values (geom_path).



Crooklets Beach

Crooklets beach is great for experienced surfers. Be aware of submerged rocks at high tide though. This beach has a large parking lot, a playground, skate park, a beach cafe and showers and has lifeguards on duty. https://www.visitcornwall.com/beaches/lifeguards-seasonal/north-coast/bude/crooklets-beach

Bude North Cornwall Cricket Club

Bude North Cornwall Cricket Club is on the cliff overlooking the ocean. It was founded in 1870 and has hosted cricket matches as well as hockey and tennis matches. Now, it hosts cricket teams from around the world.

http://budecc.play-cricket.com

Bude Sea Pool

Bude Sea Pool is on the South West Coast Path, above Summerleaze Beach. It provides a safer environment for swimmers, as it is enclosed. However, it is a natural environment so there are still sharp rocks and the bottom is slippery.

• http://www.budeseapool.org/frequently-asked-questions/



Figure 1:



Figure 2:



Figure 3:



Figure 4:

Summerleaze Beach

Summerleaze Beach is located only 5 minutes from the center of Bude. Is has a large breakwater with a tower that protects the harbour and the mouth of the Bude canal with a lock gate.

 $\bullet \ \ https://www.cornwall-beaches.co.uk/north-cornwall/summerleaze.htm$

Barrel at Bude



Figure 5:

The Barrel at Bude is the second largest micropub to open in Cornwall. Its in one of the oldest cottages and in the center of Bude. The bar insisde is made from local beach hut timbers that were destroyed in a winter

storm.

 $\bullet \ \, \rm http://www.micropubassociation.co.uk/micropubs/the-barrel-at-bude/$