

Bude Maps

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```
library(ggmap)
```

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

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.2.1 --
```

```
## √ tibble 1.4.2      √ purrr 0.2.4
```

```
## √ tidyr 0.8.0      √ dplyr 0.7.4
```

```
## √ readr 1.1.1      √ stringr 1.2.0
```

```
## √ tibble 1.4.2      √ forcats 0.2.0
```

```
## Warning: package 'tibble' was built under R version 3.4.3
```

```
## Warning: package 'tidyr' was built under R version 3.4.3
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag() masks stats::lag()
```

```
library(devtools)
```

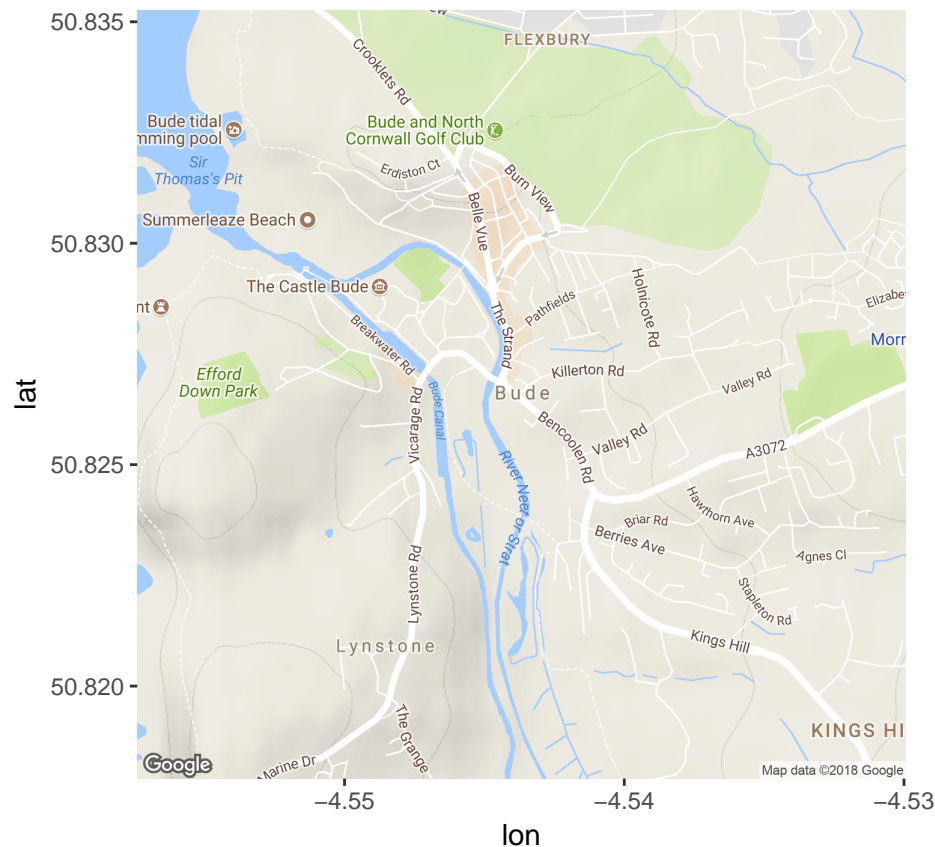
```
## Warning: package 'devtools' was built under R version 3.4.3
```

Road map

```
map <- get_googlemap(center = c(-4.5437, 50.8266), zoom = 15)
```

```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=50.8266,-4.5437&zoom=15&size=640x480
```

```
ggmap(map)
```



Watercolor Map

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

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

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

```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=Bude&zoom=15&size=640x640&scale=
```

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

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

```
## Map from URL : http://tile.stamen.com/watercolor/15/15970/10993.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15971/10993.jpg
```

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

```
## Map from URL : http://tile.stamen.com/watercolor/15/15970/10994.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15971/10994.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
```

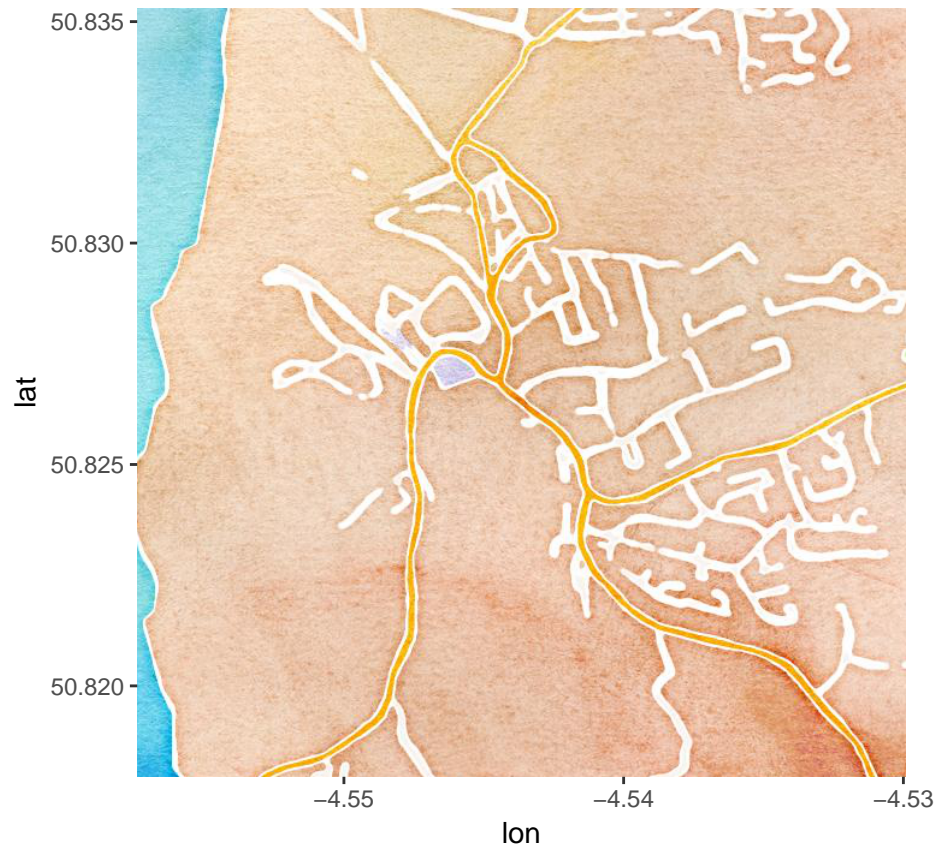
```
## Map from URL : http://tile.stamen.com/watercolor/15/15971/10995.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15969/10996.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15970/10996.jpg
```

```
## Map from URL : http://tile.stamen.com/watercolor/15/15971/10996.jpg
```

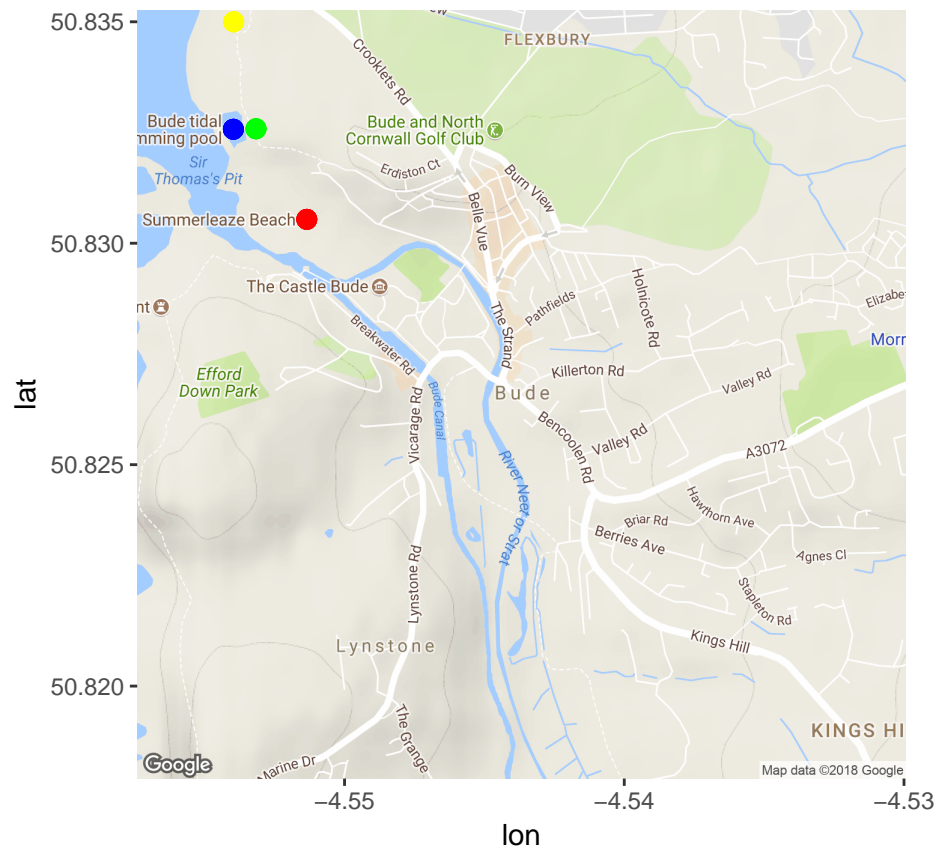
```
ggmap(watercolor)
```



Marked road map

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

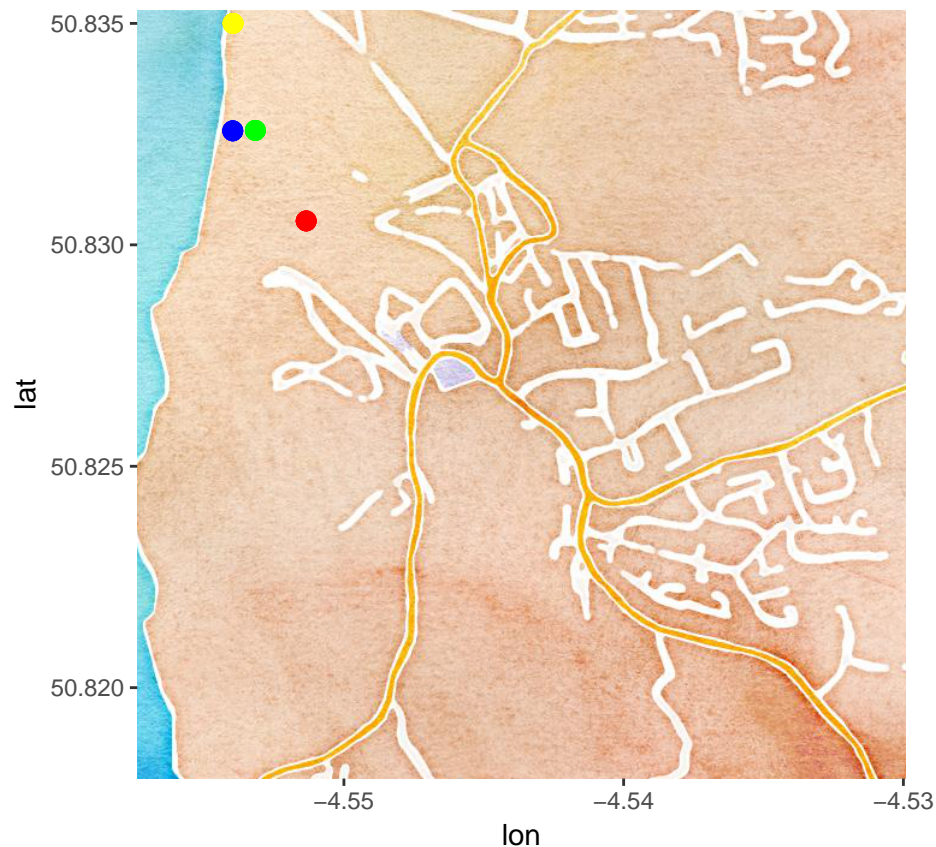
```
ggmap(map) +  
  geom_point(  
    aes(x = -4.553962 , y = 50.835),  
    color = "yellow", size = 3) +  
  geom_point(  
    aes(x = -4.553165 , y = 50.832584),  
    color = "green", size = 3) +  
  geom_point(  
    aes(x = -4.553974 , y = 50.832574),  
    color = "blue", size = 3)+  
  geom_point(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



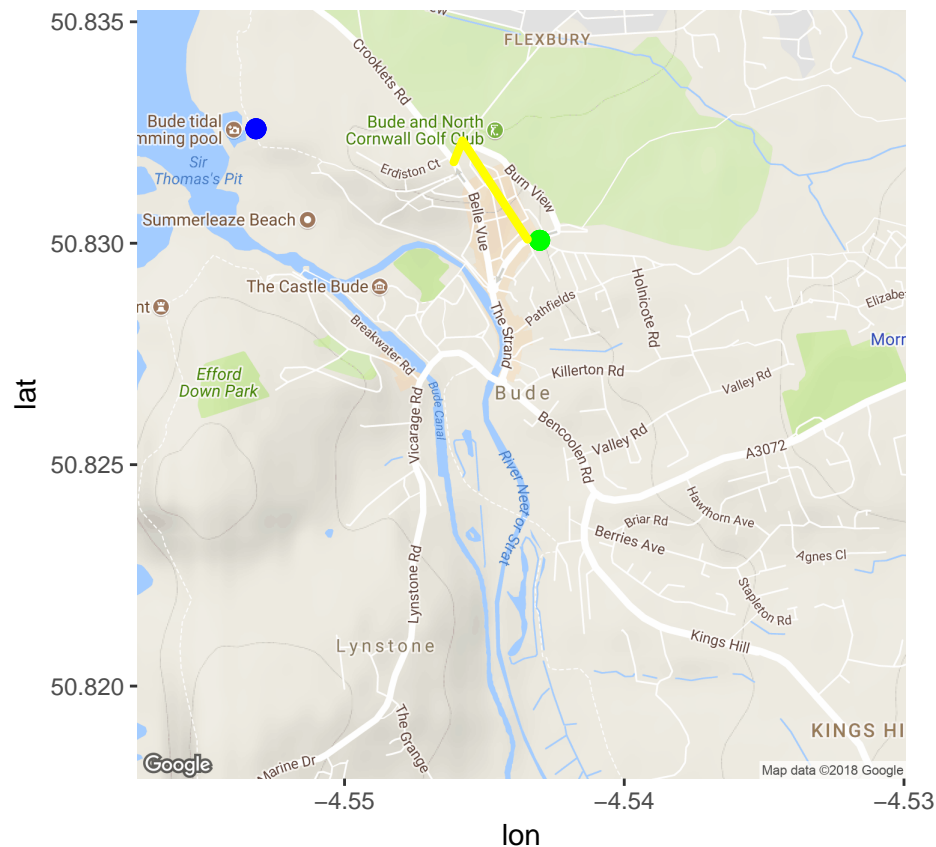
Route

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

```
## Information from URL : http://maps.googleapis.com/maps/api/directions/json?origin=Bude+North+Cornwall
```

```
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"
  )
```

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



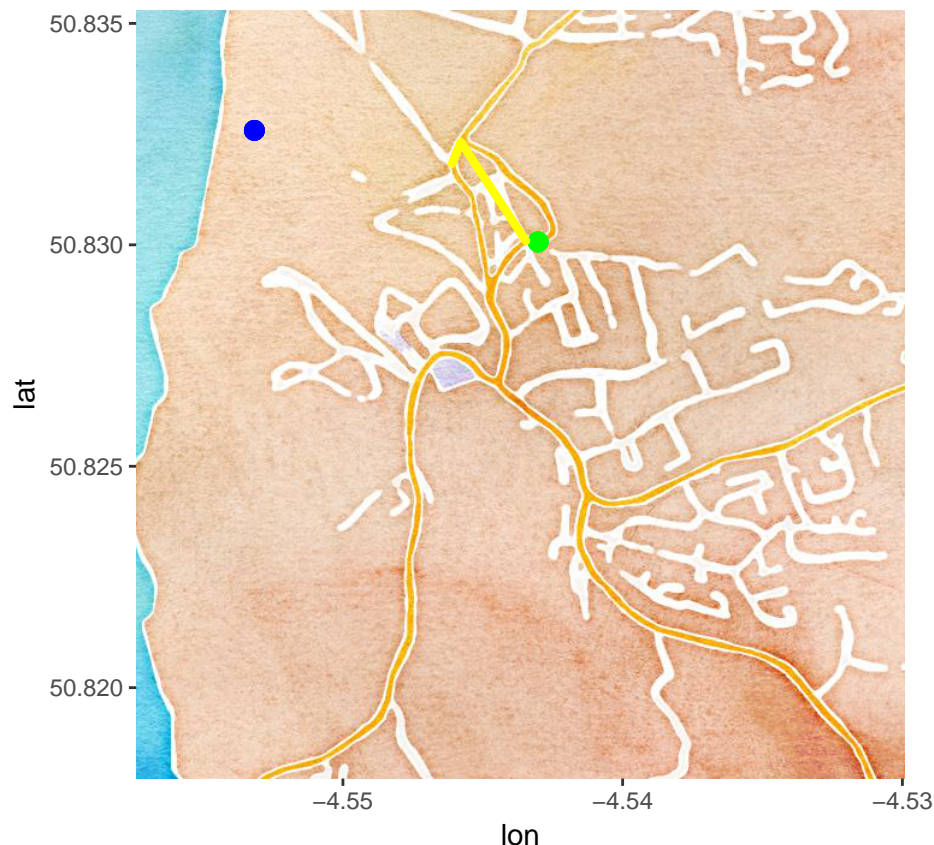
Route on watercolor map

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

```
## Information from URL : http://maps.googleapis.com/maps/api/directions/json?origin=Bude+North+Cornwall
```

```
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"
  )
```

```
## 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. It has a large breakwater with a tower that protects the harbour and the mouth of the Bude canal with a lock gate.

- <https://www.cornwall-beaches.co.uk/north-cornwall/summerleaze.htm>

Barrel at Bude

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

- <http://www.micropubassociation.co.uk/micropubs/the-barrel-at-bude/>

Images



Figure 5:



Figure 6: Edgcumbe



Figure 7: Elements