

Forked R map

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part1

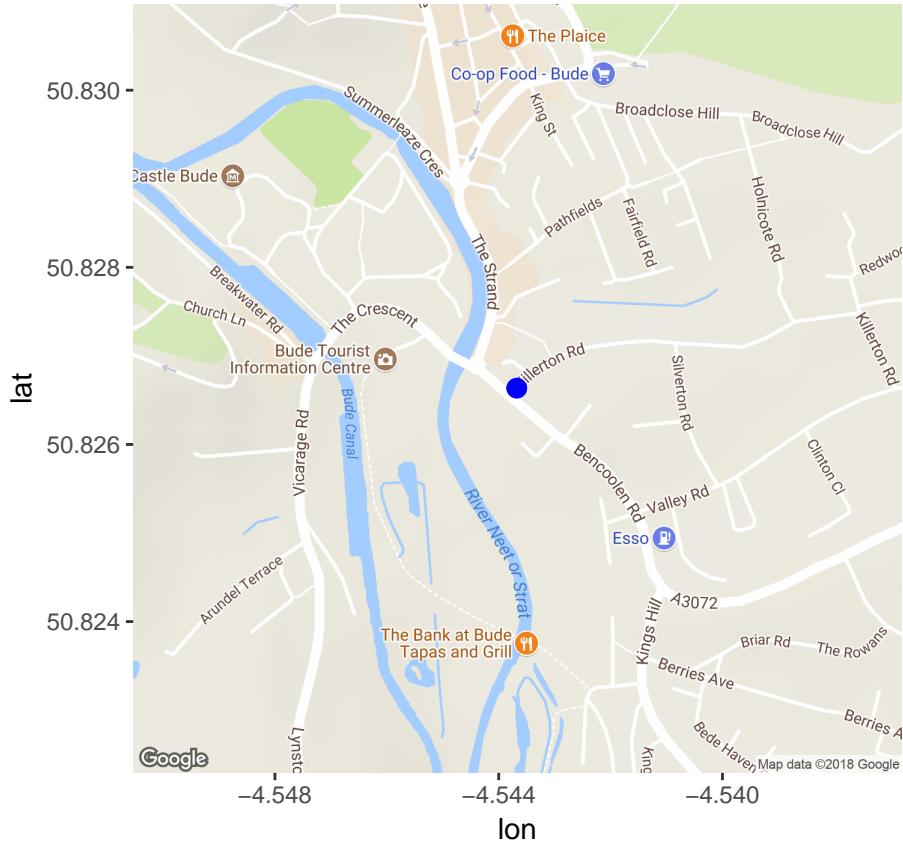
Find the town of Bude in Western England. This is a town that is well-known as a beach resort. Ana here are two maps of Bude - a road map and a watercolor map:

road map:

```
## Warning: package 'ggmap' was built under R version 3.4.4  
## Warning: package 'ggplot2' was built under R version 3.4.4
```

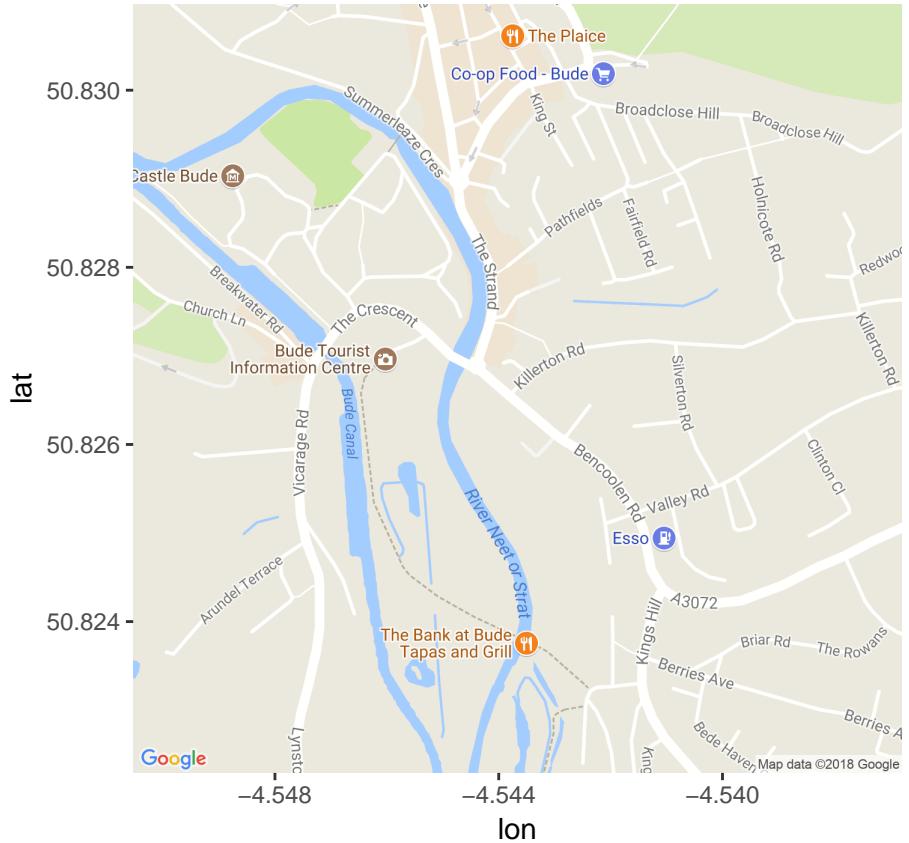


```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=50.826636,-4.543678&zoom=16&size
```



set the zoom

```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=town+of+bude&zoom=16&size=640x640
## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=town%20of%20bude&sen
```



watercolor map



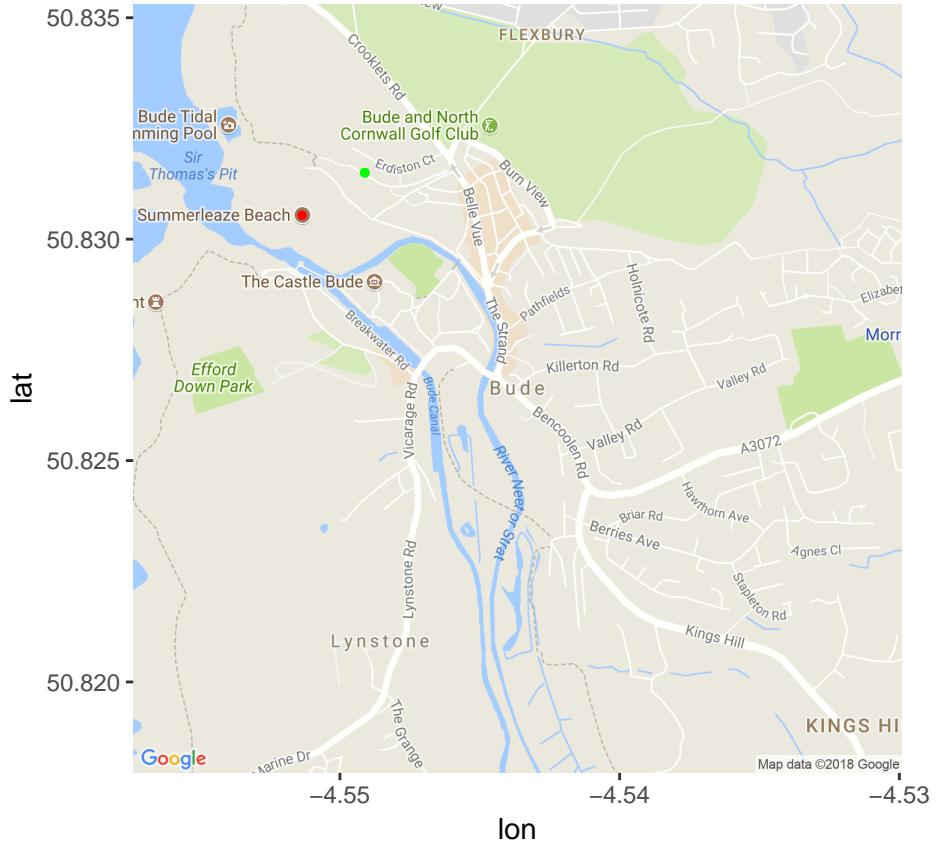
part 2

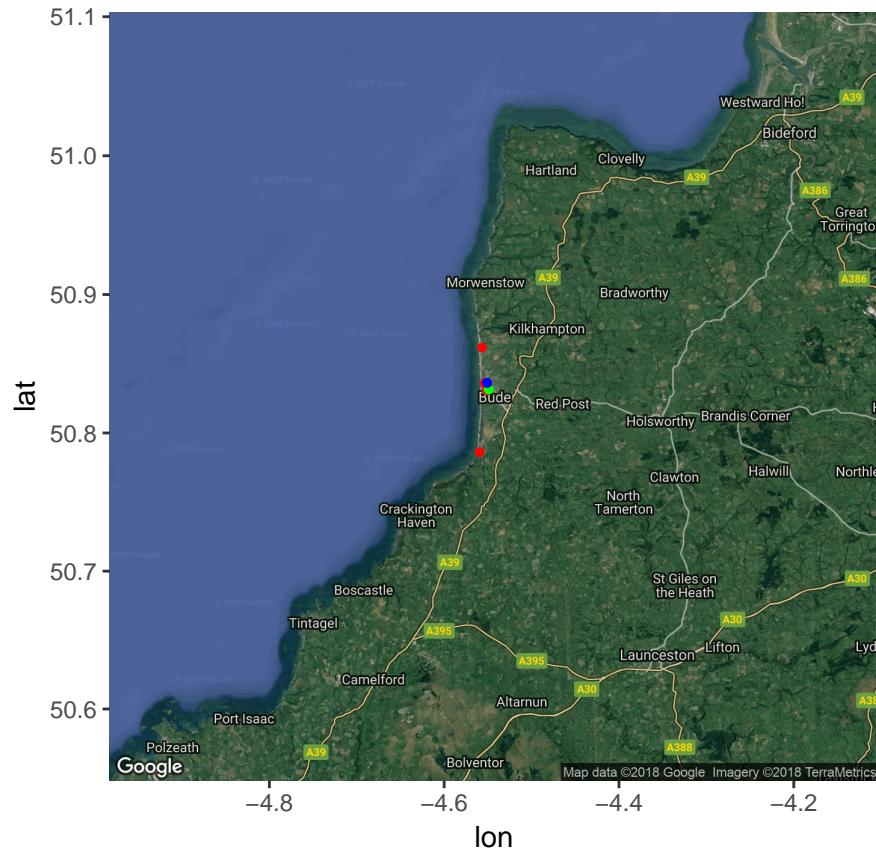
Green: The Beach At Bude: -4.549112,50.831502

Blue: Tommy Jacks Beach Hotel: -4.550904,50.836184

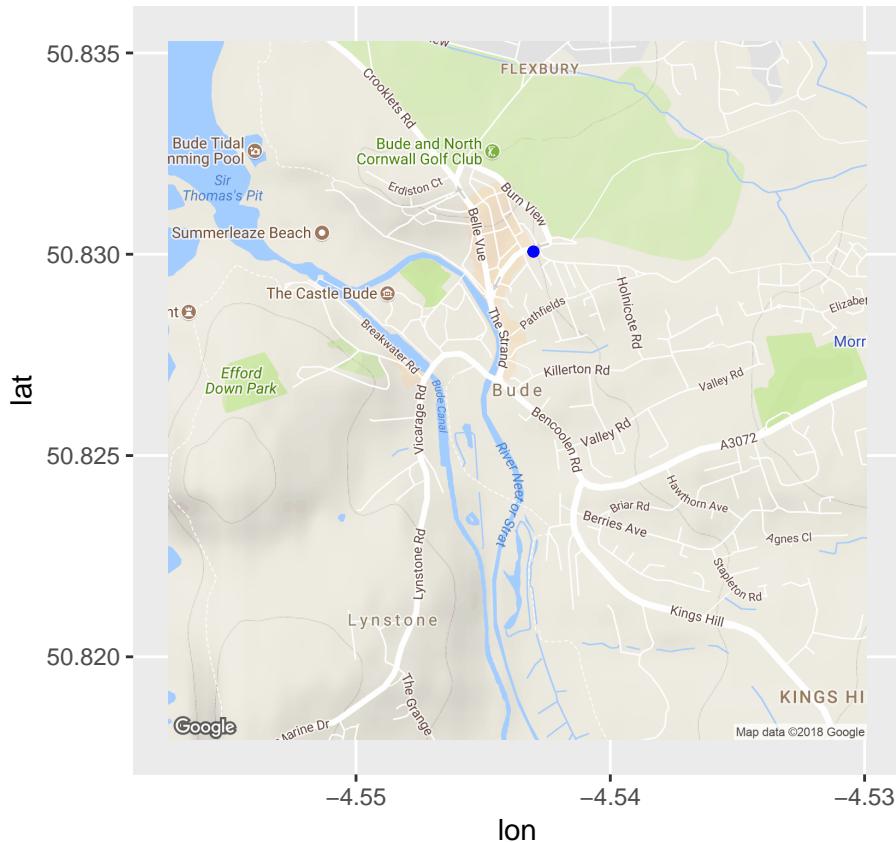
here is the vacation spots that I might like:

```
ggmap(get_googlemap(center = 'town of bude',zoom= 15, maptype = "roadmap"))+
  geom_point(data=vs,aes(x=lon,y=lat),colour = 'red',size=1)+  
  geom_point(aes(x = -4.549112 , y = 50.831502),color = "green", size = 1) +  
  geom_point(aes(x = -4.550904 , y = 50.836184),color = "blue", size = 1)  
  
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=town+of+bude&zoom=15&size=640x640  
## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=town%20of%20bude&sen  
## Warning: Removed 8 rows containing missing values (geom_point).  
## Warning: Removed 4 rows containing missing values (geom_point).
```



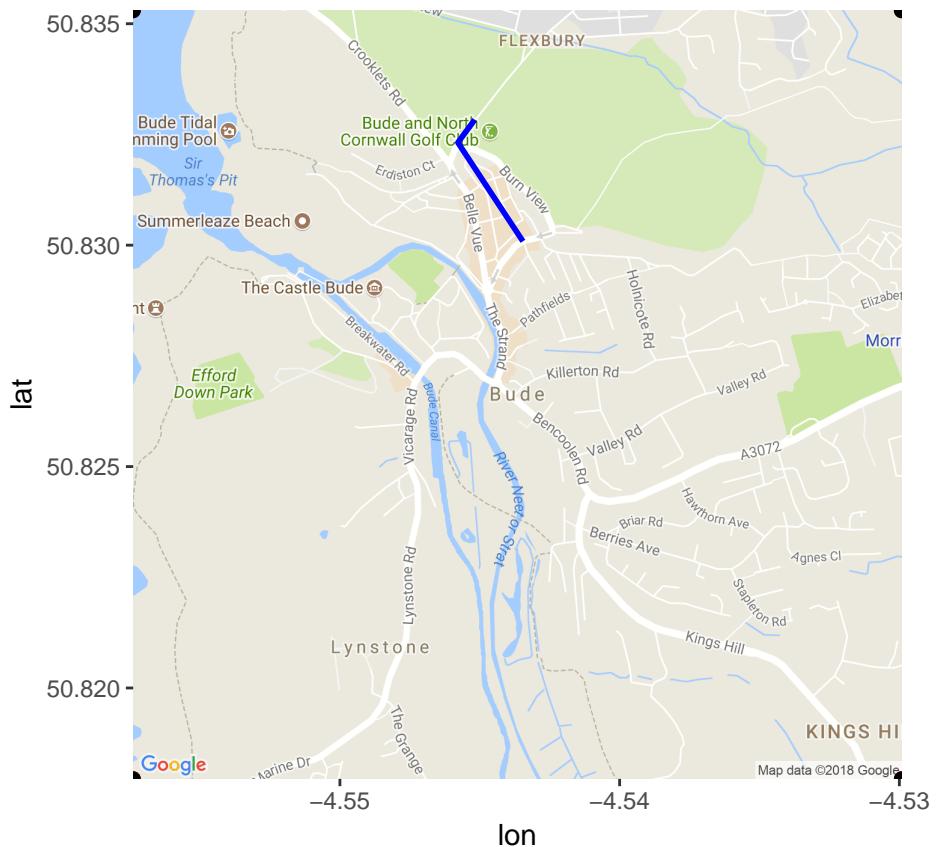


And here is the address of the pub



If we want to navigation from the beach to the pub, we can use this route.

```
## Information from URL : http://maps.googleapis.com/maps/api/directions/json?origin=Bude+and+North+Cornwall&destination=Sir+Thomas's+Pit&mode=driving
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=town+of+bude&zoom=15&size=640x640
## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=town%20of%20bude&sensor=false
## Warning: Ignoring unknown parameters: end
```



Images of the Beach At Bude

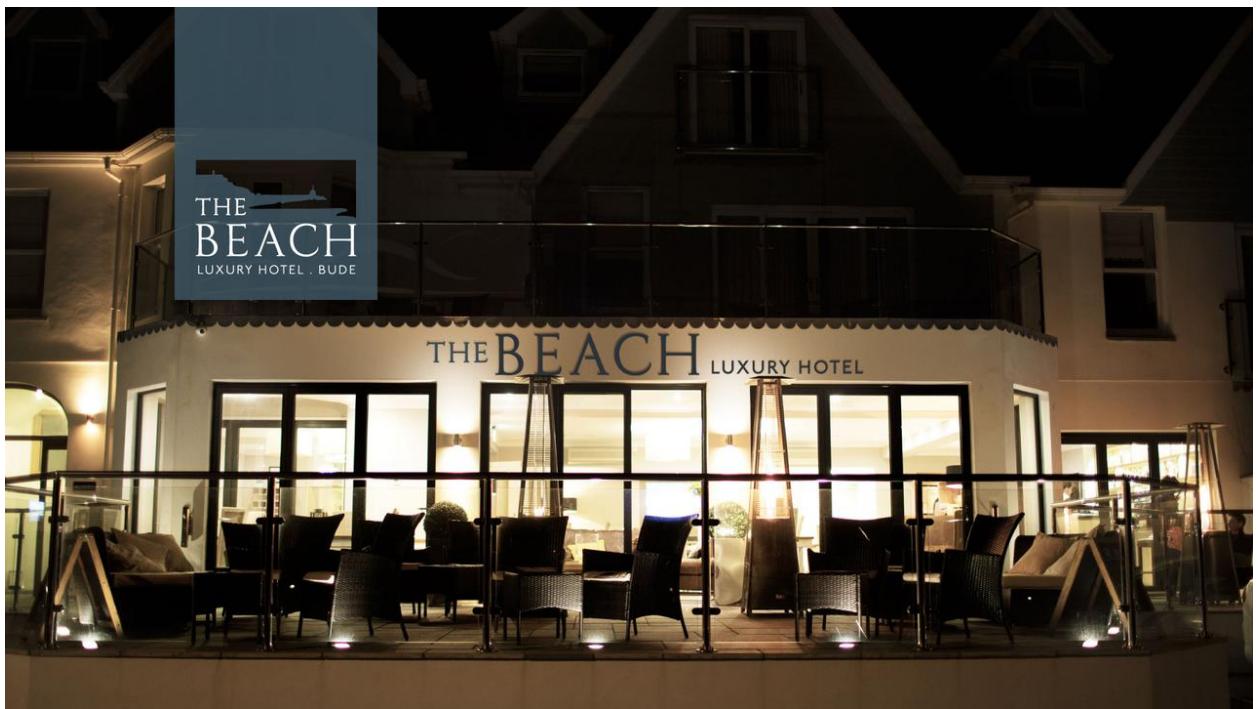


Figure 1: The Beach At Bude



Figure 2: Tommy Jacks Beach Hotel