

# Hotel Reviews

## LA - 1 Exploratory Data Analysis

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### *Introduction*

The Hotel Reviews dataset is a collection of customer reviews and feedback about various hotels, providing valuable insights into the hospitality industry. Typically sourced from online review platforms or booking websites, this dataset encompasses a diverse range of hotels worldwide. Each review entry includes details such as the hotel's name, location, user ratings, and textual feedback from guests. Analyzing this dataset can offer profound insights into customer preferences, satisfaction levels, and specific aspects of hotels that influence their experiences. Researchers and businesses can leverage sentiment analysis and natural language processing techniques to extract sentiments expressed in these reviews, enabling them to understand trends, identify areas for improvement, and enhance overall customer satisfaction in the hotel industry. The Hotel Reviews dataset is a valuable resource for researchers, data scientists, and industry professionals aiming to gain a deeper understanding of customer opinions and preferences in the realm of hospitality.

```
# Load the Dataset
data <- read.csv("C:\\Users\\Shivee Jaiswal\\Desktop\\Datafiniti_Hotel_Reviews.csv")
# Data Summary
summary(data)
```

```
##      id      dateAdded      dateUpdated      address
## Length:10000 Length:10000 Length:10000 Length:10000
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      categories      primaryCategories      city      country
## Length:10000 Length:10000 Length:10000 Length:10000
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      keys      latitude      longitude      name
## Length:10000 Min.   :19.44 Min.   : -159.47 Length:10000
## Class :character 1st Qu.:33.93 1st Qu.: -111.62 Class :character
## Mode  :character Median :37.79 Median :  -84.45 Mode  :character
##                  Mean   :37.00 Mean   :  -92.68
##                  3rd Qu.:40.42 3rd Qu.:  -77.05
##                  Max.   :70.13 Max.   :  -68.20
##      postalCode      province      reviews.date      reviews.dateSeen
## Length:10000 Length:10000 Length:10000 Length:10000
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      reviews.rating reviews.sourceURLs reviews.text      reviews.title
## Min.   :1.000 Length:10000 Length:10000 Length:10000
## 1st Qu.:3.350 Class :character Class :character Class :character
## Median :4.000 Mode  :character Mode  :character Mode  :character
## Mean   :4.034
## 3rd Qu.:5.000
## Max.   :5.000
##      reviews.userCity reviews.userProvince reviews.username      sourceURLs
## Length:10000 Length:10000 Length:10000 Length:10000
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      websites
## Length:10000
## Class :character
## Mode  :character
##
##
##
```

```
# Gives the structure
str(data)
```

```
## 'data.frame':   10000 obs. of  25 variables:
## $ id           : chr  "AVwc252WIN2L1WUfpqLP" "AVwc252WIN2L1WUfpqLP" "AVwc252WIN2L1
WUfpqLP" "AVwdOclqIN2L1WUfti38" ...
## $ dateAdded    : chr  "2016-10-30T21:42:42Z" "2016-10-30T21:42:42Z" "2016-10-30T2
1:42:42Z" "2015-11-28T19:19:35Z" ...
## $ dateUpdated  : chr  "2018-09-10T21:06:27Z" "2018-09-10T21:06:27Z" "2018-09-10T2
1:06:27Z" "2018-09-10T21:06:16Z" ...
## $ address      : chr  "5921 Valencia Cir" "5921 Valencia Cir" "5921 Valencia Cir"
"7520 Teague Rd" ...
## $ categories   : chr  "Hotels,Hotels and motels,Hotel and motel reservations,Resor
ts,Resort,Hotel" "Hotels,Hotels and motels,Hotel and motel reservations,Resorts,Resort,Hotel"
"Hotels,Hotels and motels,Hotel and motel reservations,Resorts,Resort,Hotel" "Hotels,Hotels a
nd motels,Travel agencies and bureaus,Hotel and Motel Management,Hotel & Motel Management,Mot
els,Hotel" ...
## $ primaryCategories : chr  "Accommodation & Food Services" "Accommodation & Food Servic
es" "Accommodation & Food Services" "Accommodation & Food Services" ...
## $ city         : chr  "Rancho Santa Fe" "Rancho Santa Fe" "Rancho Santa Fe" "Hanov
er" ...
## $ country      : chr  "US" "US" "US" "US" ...
## $ keys         : chr  "us/ca/ranchosantafe/5921valenciagir/359754519" "us/ca/ranch
osantafe/5921valenciagir/359754519" "us/ca/ranchosantafe/5921valenciagir/359754519" "us/md/ha
nover/7520teaguerd/-2043779672" ...
## $ latitude     : num  33 33 33 39.2 39.2 ...
## $ longitude    : num  -117.2 -117.2 -117.2 -76.7 -76.7 ...
## $ name         : chr  "Rancho Valencia Resort Spa" "Rancho Valencia Resort Spa" "R
ancho Valencia Resort Spa" "Aloft Arundel Mills" ...
## $ postalCode   : chr  "92067" "92067" "92067" "21076" ...
## $ province     : chr  "CA" "CA" "CA" "MD" ...
## $ reviews.date : chr  "2013-11-14T00:00:00Z" "2014-07-06T00:00:00Z" "2015-01-02T0
0:00:00Z" "2016-05-15T00:00:00Z" ...
## $ reviews.dateSeen : chr  "2016-08-03T00:00:00Z,2016-07-26T00:00:00Z,2016-08-02T00:00:
00Z,2016-07-17T00:00:00Z,2016-08-27T00:00:00Z,2016-0" | __truncated__ "2016-08-02T00:00:00Z,20
16-08-26T00:00:00Z,2016-08-03T00:00:00Z,2016-07-17T00:00:00Z,2016-08-09T00:00:00Z,2016-0" | __
truncated__ "2016-11-15T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-07-26T00:00:
00Z,2016-08-02T00:00:00Z,2016-0" | __truncated__ "2016-05-21T00:00:00Z,2016-07-31T00:00:00Z"
...
## $ reviews.rating : num  5 5 5 2 5 5 5 5 5 5 ...
## $ reviews.sourceURLs : chr  "https://www.hotels.com/hotel/125419/reviews%20/" "https://w
ww.hotels.com/hotel/125419/reviews%20/" "https://www.hotels.com/hotel/125419/reviews%20/" "ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,http" | __truncated__ ...
## $ reviews.text   : chr  "Our experience at Rancho Valencia was absolutely perfect fr
om beginning to end!!!! We felt special and very hap" | __truncated__ "Amazing place. Everyone
was extremely warm and welcoming. We've stayed at some top notch places and this is def" | __t
runcated__ "We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one
of the highest rated tennis re" | __truncated__ "Currently in bed writing this for the past hr
1/2 there have been dogs barking and squealing call the front des" | __truncated__ ...
## $ reviews.title   : chr  "Best romantic vacation ever!!!!" "Sweet sweet serenity" "Am
azing Property and Experience" "Never again...beware, if you want sleep." ...
## $ reviews.userCity : chr  "" "" "" "Richmond" ...
## $ reviews.userProvince: chr  "" "" "" "VA" ...
## $ reviews.username : chr  "Paula" "D" "Ron" "jaeem2016" ...
## $ sourceURLs       : chr  "http://www.hotels.com/ho125419/%25252525253Flocale%25252525
253Den_US%252525252526pos%25252525253DHCOM_US,http:/" | __truncated__ "http://www.hotels.com/h
o125419/%25252525253Flocale%25252525253Den_US%252525252526pos%25252525253DHCOM_US,http:/" | __
```

```
truncated__ "http://www.hotels.com/ho125419/%25252525253Flocale%25252525253Den_US%25252525252
6pos%25252525253DHCOM_US,http:/"| __truncated__ "http://www.yellowbook.com/profile/aloft-arun
del-mills_1896561264.html,https://www.yellowpages.com/hanover-md/mi"| __truncated__ ...
## $ websites : chr "http://www.ranchovalencia.com" "http://www.ranchovalencia.c
om" "http://www.ranchovalencia.com" "http://www.starwoodhotels.com/alofthotels/property/overv
iew/index.html?propertyID=3050?scid=45f93f1b-bd77-45c9-"| __truncated__ ...
```

```
#To find missing values
any(is.na(data))
```

```
## [1] FALSE
```

```
# Retrieves the names of all the columns present in the dataset
names(data)
```

```
## [1] "id" "dateAdded" "dateUpdated"
## [4] "address" "categories" "primaryCategories"
## [7] "city" "country" "keys"
## [10] "latitude" "longitude" "name"
## [13] "postalCode" "province" "reviews.date"
## [16] "reviews.dateSeen" "reviews.rating" "reviews.sourceURLs"
## [19] "reviews.text" "reviews.title" "reviews.userCity"
## [22] "reviews.userProvince" "reviews.username" "sourceURLs"
## [25] "websites"
```

```
# Outputs the initial rows of the dataset
head(data)
```

```

##          id          dateAdded          dateUpdated
## 1 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 2 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 3 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 4 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
## 5 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
## 6 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
##          address
## 1 5921 Valencia Cir
## 2 5921 Valencia Cir
## 3 5921 Valencia Cir
## 4    7520 Teague Rd
## 5    7520 Teague Rd
## 6    7520 Teague Rd
##
categories
## 1          Hotels,Hotels and motels,Hotel and motel rese
rvations,Resorts,Resort,Hotel
## 2          Hotels,Hotels and motels,Hotel and motel rese
rvations,Resorts,Resort,Hotel
## 3          Hotels,Hotels and motels,Hotel and motel rese
rvations,Resorts,Resort,Hotel
## 4 Hotels,Hotels and motels,Travel agencies and bureaus,Hotel and Motel Management,Hotel &
Motel Management,Motels,Hotel
## 5 Hotels,Hotels and motels,Travel agencies and bureaus,Hotel and Motel Management,Hotel &
Motel Management,Motels,Hotel
## 6 Hotels,Hotels and motels,Travel agencies and bureaus,Hotel and Motel Management,Hotel &
Motel Management,Motels,Hotel
##          primaryCategories          city country
## 1 Accommodation & Food Services Rancho Santa Fe      US
## 2 Accommodation & Food Services Rancho Santa Fe      US
## 3 Accommodation & Food Services Rancho Santa Fe      US
## 4 Accommodation & Food Services      Hanover      US
## 5 Accommodation & Food Services      Hanover      US
## 6 Accommodation & Food Services      Hanover      US
##          keys latitude longitude
## 1 us/ca/ranchosantafe/5921valenciagir/359754519 32.99096 -117.18614
## 2 us/ca/ranchosantafe/5921valenciagir/359754519 32.99096 -117.18614
## 3 us/ca/ranchosantafe/5921valenciagir/359754519 32.99096 -117.18614
## 4    us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
## 5    us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
## 6    us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
##          name postalCode province          reviews.date
## 1 Rancho Valencia Resort Spa      92067      CA 2013-11-14T00:00:00Z
## 2 Rancho Valencia Resort Spa      92067      CA 2014-07-06T00:00:00Z
## 3 Rancho Valencia Resort Spa      92067      CA 2015-01-02T00:00:00Z
## 4 Aloft Arundel Mills      21076      MD 2016-05-15T00:00:00Z
## 5 Aloft Arundel Mills      21076      MD 2016-07-09T00:00:00Z
## 6 Aloft Arundel Mills      21076      MD 2016-06-11T00:00:00Z
##
reviews.dateSeen
## 1 2016-08-03T00:00:00Z,2016-07-26T00:00:00Z,2016-08-02T00:00:00Z,2016-07-17T00:00:00Z,2016
-08-27T00:00:00Z,2016-08-23T00:00:00Z,2016-08-09T00:00:00Z,2016-11-07T00:00:00Z,2016-08-26T0
0:00:00Z
## 2 2016-08-02T00:00:00Z,2016-08-26T00:00:00Z,2016-08-03T00:00:00Z,2016-07-17T00:00:00Z,2016

```

```

-08-09T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-11-15T00:00:00Z,2016-07-26T0
0:00:00Z
## 3 2016-11-15T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-07-26T00:00:00Z,2016
-08-02T00:00:00Z,2016-07-17T00:00:00Z,2016-08-03T00:00:00Z,2016-08-09T00:00:00Z,2016-08-26T0
0:00:00Z
## 4
2016-05-21T00:00:00Z,2016-07-31T00:00:00Z
## 5
2016-07-31T00:00:00Z
## 6
2016-07-31T00:00:00Z
## reviews.rating
## 1 5
## 2 5
## 3 5
## 4 2
## 5 5
## 6 5
##
reviews.sourceURLs
## 1
https://www.hotels.com/hotel/125419/reviews%20/
## 2
https://www.hotels.com/hotel/125419/reviews%20/
## 3
https://www.hotels.com/hotel/125419/reviews%20/
## 4 https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Han
over_Maryland.html,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or40-Alof
t_Arundel_Mills-Hanover_Maryland.html%2525252523REVIEWS
## 5
https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or10-Aloft_Arundel_Mills-Han
over_Maryland.html%2525252523REVIEWS
## 6
https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or20-Aloft_Arundel_Mills-Han
over_Maryland.html%2525252523REVIEWS
##
reviews.text
## 1
Our experience at Rancho Valencia was absolutely perfect from beginning to end!!!! We felt sp
ecial and very happy during our stayed. I would come back in a heart beat!!!
## 2
Amazing place. Everyone was extremely warm and welcoming. We've stayed at some top notch plac
es and this is definitely in our top 2. Great for a romantic getaway or take the kids along a
s we did. Had a couple stuffed animals waiting for our girls upon arrival. Can't wait to go b
ack.
## 3 We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one of the
highest rated tennis resorts in America. This place is really over the top from a luxury stan
dpoint and overall experience. The villas are really perfect, the staff is great, attention t
o details (includes fresh squeezed orange juice each morning), restaurants, bar and room serv
ice amazing, and the tennis program was really impressive as well. We will want to come back
here again.
## 4
Currently in bed writing this for the past hr 1/2 there have been dogs barking and squealing
call the front desk to advise basically to be told there's nothing they can do. 315.00 and I
can't sleep.
## 5

```

I live in Md and the Aloft is my Home away from home...we stayed 1 night 7-7-16 ...Staff is great ! Especially Olivia who was Extra special because she remembered me by my voice over the phone ...which tells me she is very alert and pays attention to the customer their needs.AND SHE DID ! Thumbs up... More

## 6

I stayed here with my family for my daughters wedding. It had a very accommodating staff, Olivia was excellent. The rooms were very well maintained. Would highly recommend this hotel, especially if your wedding venue is Celebrations at the Bay!

## reviews.title reviews.userCity

## 1 Best romantic vacation ever!!!!

## 2 Sweet sweet serenity

## 3 Amazing Property and Experience

## 4 Never again...beware, if you want sleep. Richmond

## 5 ALWAYS GREAT STAY... Laurel

## 6 Wonderful stay Laurel

## reviews.userProvince reviews.username

## 1 Paula

## 2 D

## 3 Ron

## 4 VA jaeem2016

## 5 MD MamaNiaOne

## 6 MD kevan777

##

sourceURLs

## 1 [http://www.hotel.com/ho125419/%252525253Flocale%252525253Den\\_US%2525252526pos%252525253DHCOM\\_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa\\_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02](http://www.hotel.com/ho125419/%252525253Flocale%252525253Den_US%2525252526pos%252525253DHCOM_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02)

## 2 [http://www.hotel.com/ho125419/%252525253Flocale%252525253Den\\_US%2525252526pos%252525253DHCOM\\_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa\\_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02](http://www.hotel.com/ho125419/%252525253Flocale%252525253Den_US%2525252526pos%252525253DHCOM_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02)

## 3 [http://www.hotel.com/ho125419/%252525253Flocale%252525253Den\\_US%2525252526pos%252525253DHCOM\\_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa\\_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02](http://www.hotel.com/ho125419/%252525253Flocale%252525253Den_US%2525252526pos%252525253DHCOM_US,http://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hotels.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb79f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-Diego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02)

## 4 [http://www.yellowbook.com/profile/aloft-arundel-mills\\_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel\\_Review-g41185-d1239660-Reviews-Aloft\\_Arundel\\_Mills-Hanover\\_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145](http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145)

## 5 [http://www.yellowbook.com/profile/aloft-arundel-mills\\_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel\\_Review-g41185-d1239660-Reviews-Aloft\\_Arundel\\_Mills-Hanover\\_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145](http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145)

## 6 [http://www.yellowbook.com/profile/aloft-arundel-mills\\_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel\\_Review-g41185-d1239660-Reviews-Aloft\\_Arundel\\_Mills-Hanover\\_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145](http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/reviews%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Maryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145)

```
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
##
websites
## 1
http://www.ranchovalencia.com
## 2
http://www.ranchovalencia.com
## 3
http://www.ranchovalencia.com
## 4 http://www.starwoodhotels.com/aloft-hotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
## 5 http://www.starwoodhotels.com/aloft-hotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
## 6 http://www.starwoodhotels.com/aloft-hotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
```

```
# Outputs the summary of the dataset like max, min, Quartiles etc..
summary(data$latitude)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  19.44   33.93   37.79   37.00   40.42   70.13
```

```
# Outputs the standard deviation of the dataset
sd(data$longitude)
```

```
## [1] 19.34799
```

```
sum(is.na(data))
```

```
## [1] 0
```

```
# for data manipulation
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.3.2
```

```
##
## Attaching package: 'dplyr'
```



```
## The following objects are masked from 'package:stats':  
##  
##   filter, lag
```

```
## The following objects are masked from 'package:base':  
##  
##   intersect, setdiff, setequal, union
```

```
# visualizing interesting and interactive graphs  
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.3.2
```

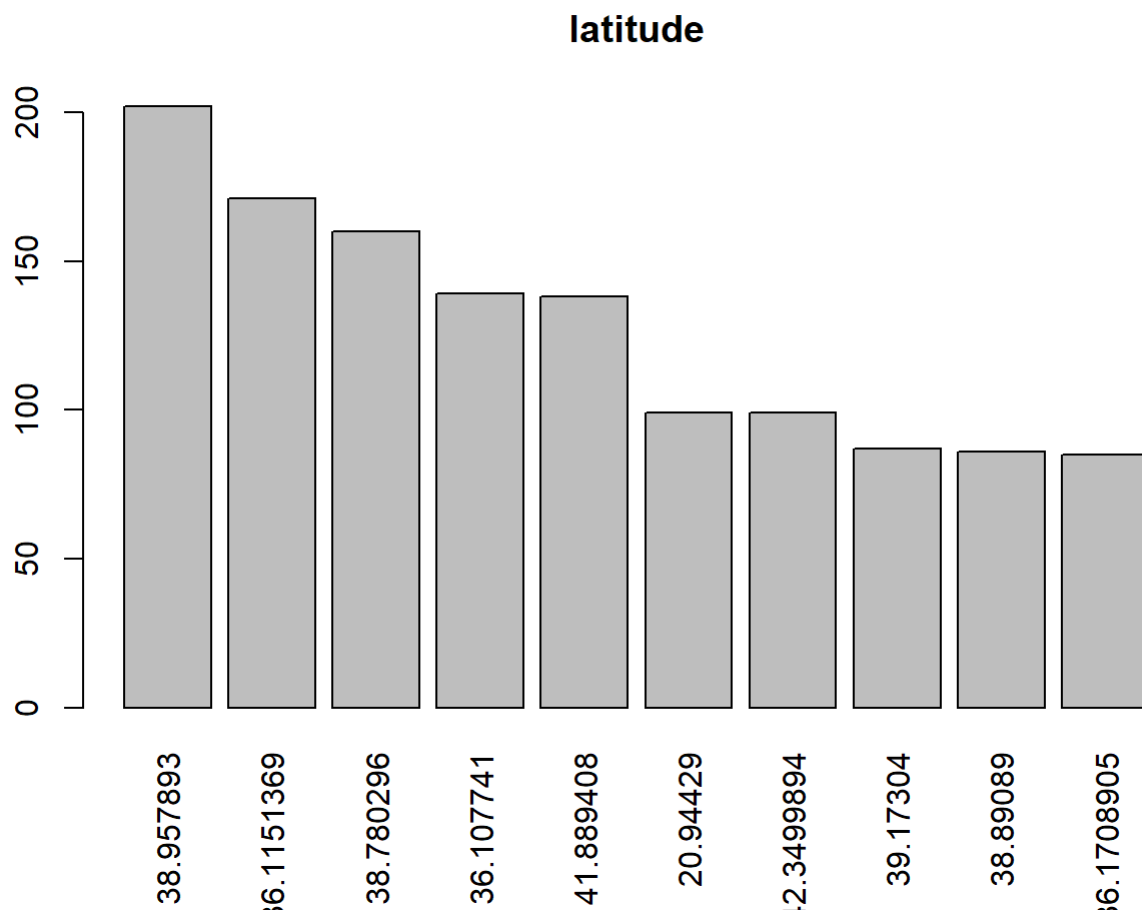
```
#Calculate mean of a specific column  
mean(data$latitude)
```

```
## [1] 37.00363
```

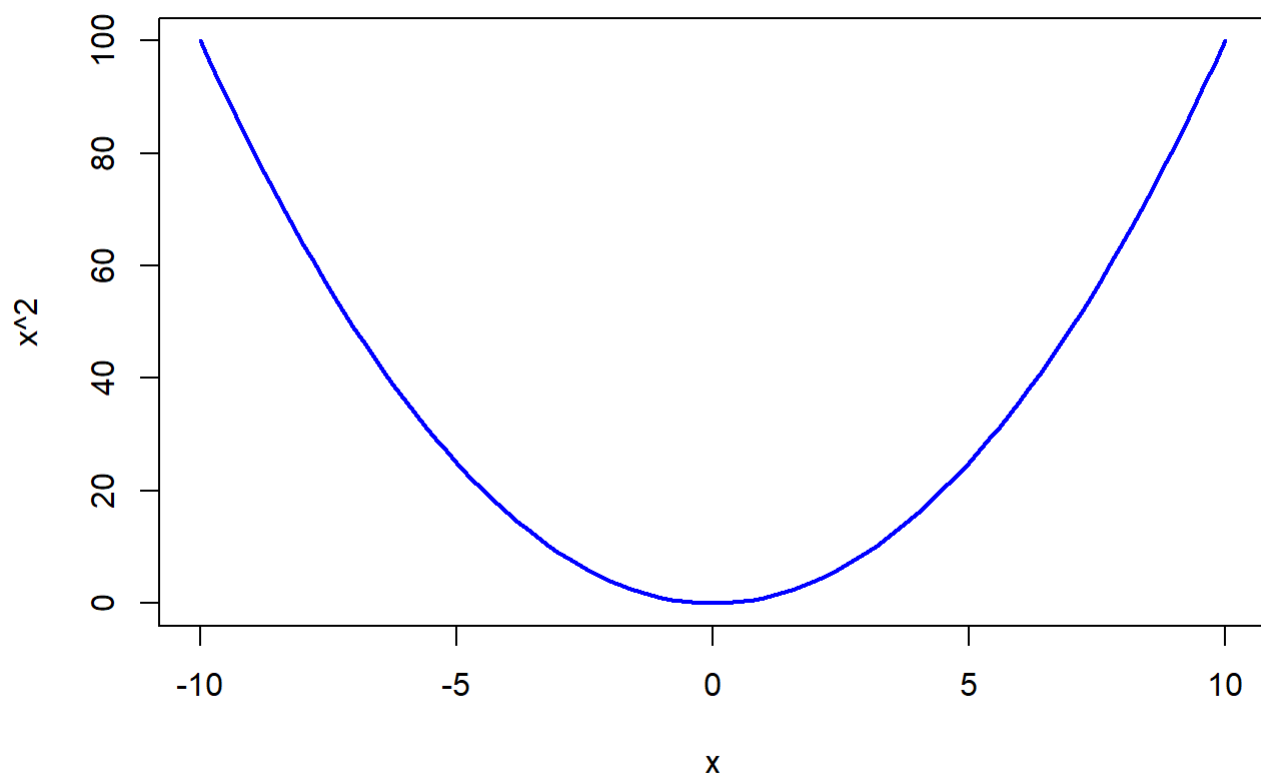
```
#checking data type of a column  
class(data$latitude)
```

```
## [1] "numeric"
```

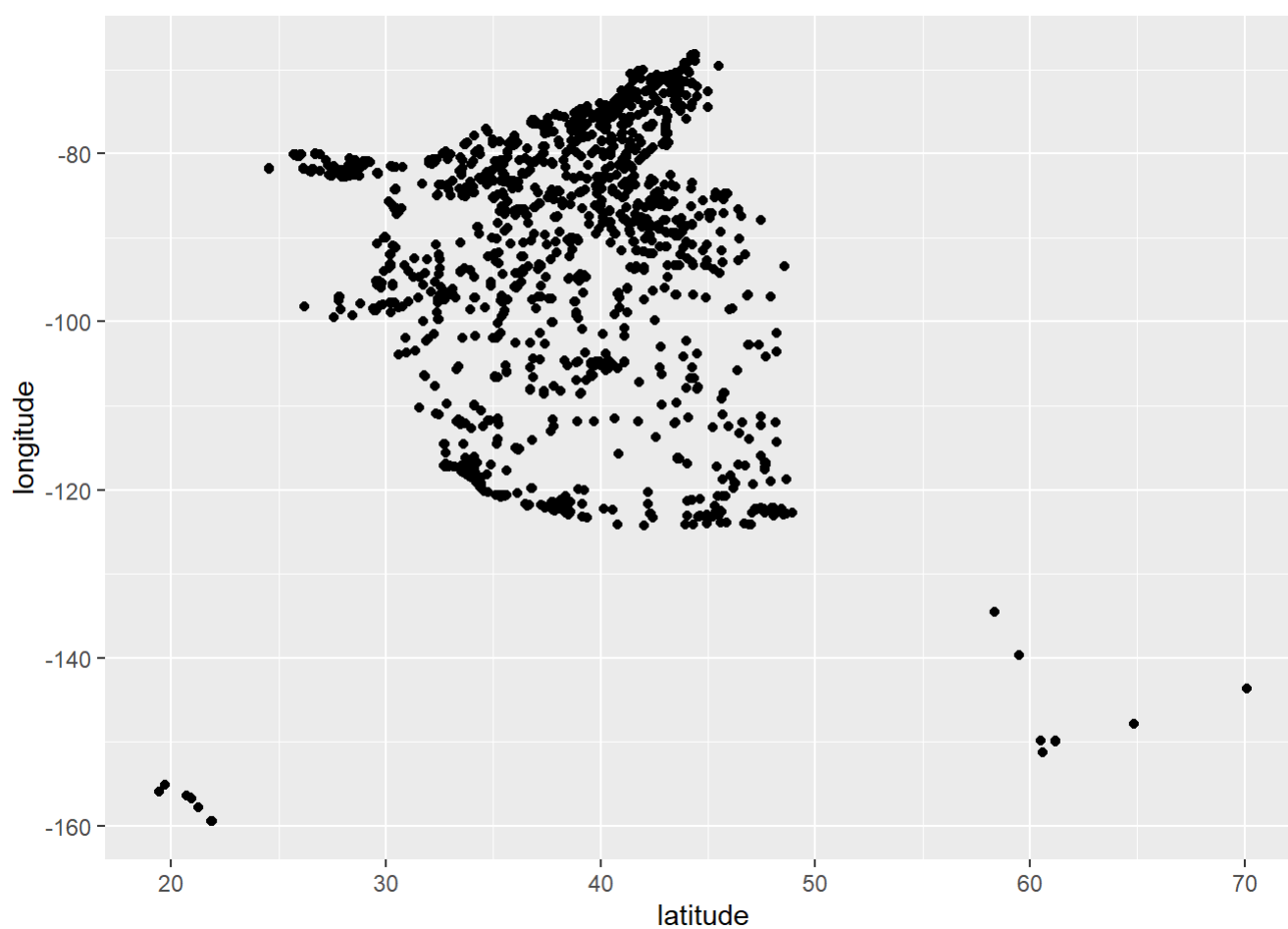
```
#Visualizing the latitude  
  
height<- sort(table(data$latitude), decreasing = TRUE)  
  
barplot(height[1:10], las = 3, main = "latitude")
```



```
# Plotting a Function Curve for the given dataset  
curve(x^2, from = -10, to = 10, col = "blue", lwd = 2)
```

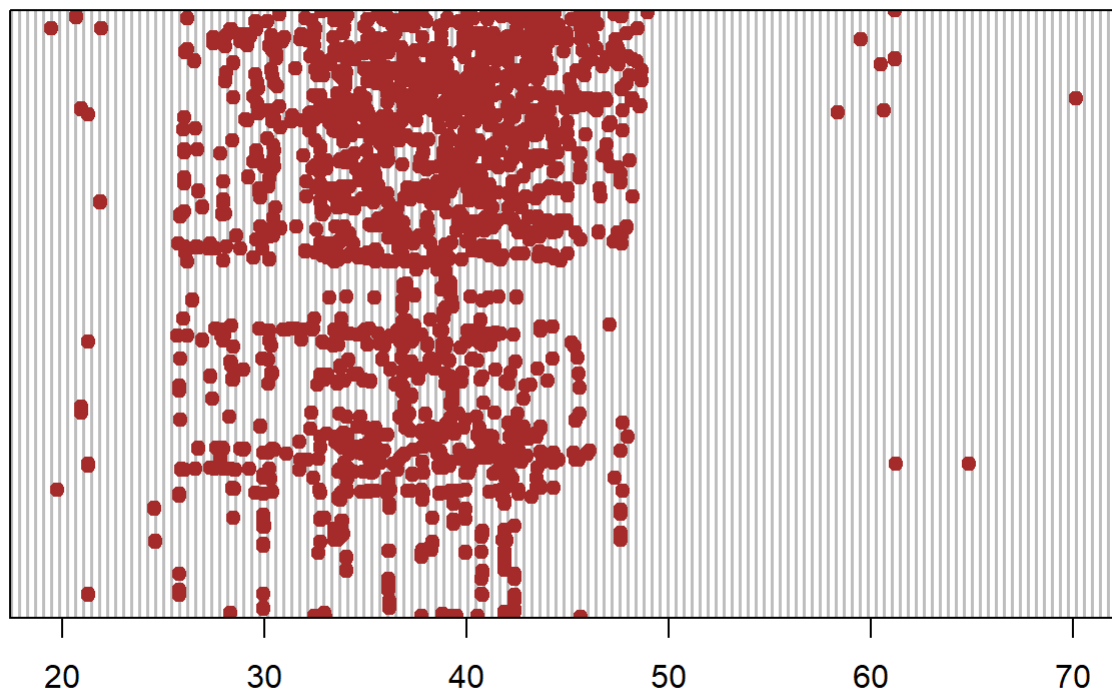


```
# Creating a Scatter Plot for latitude and Longitude  
library(ggplot2)  
ggplot(data, aes(x = latitude, y = longitude)) + geom_point()
```

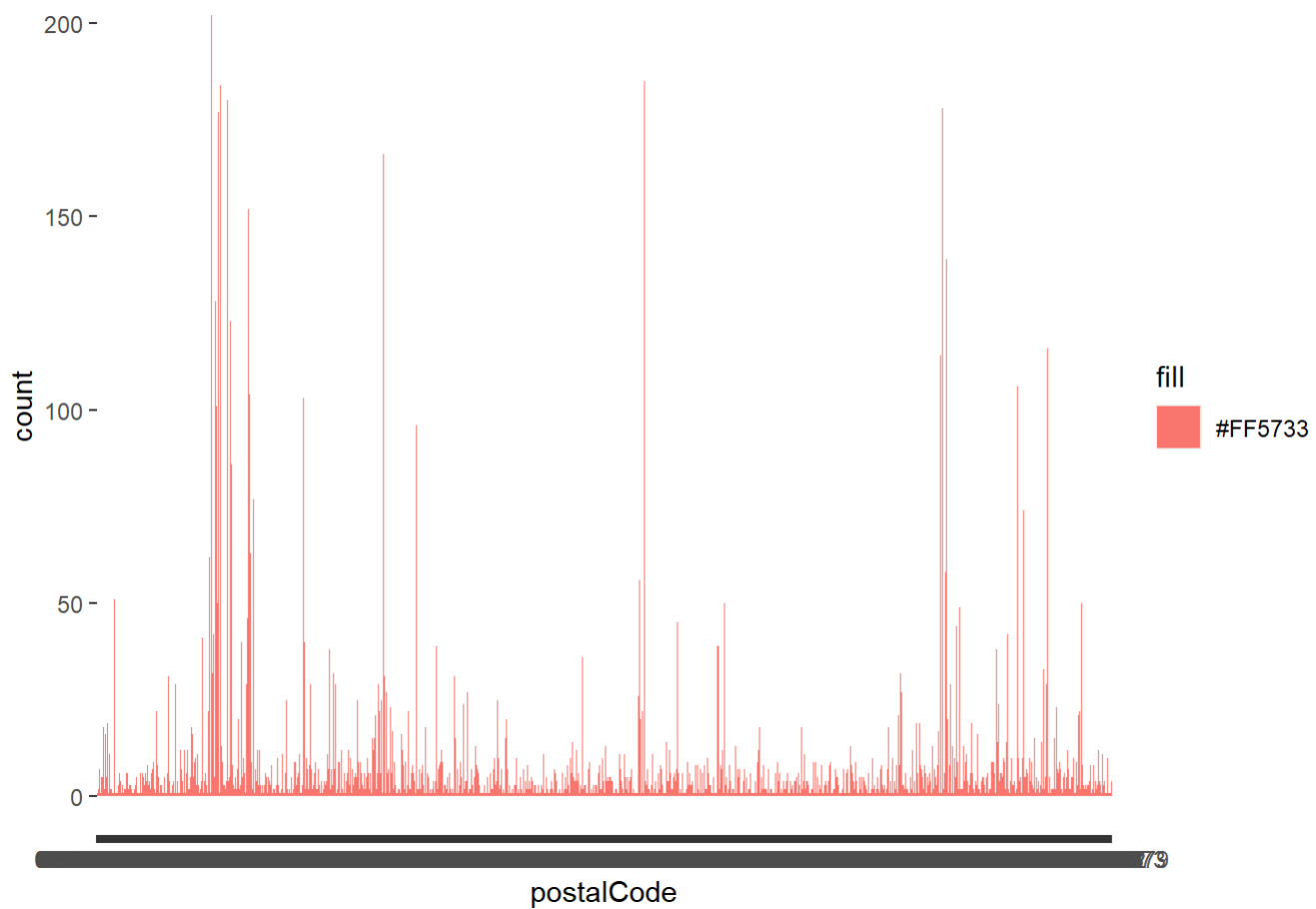


```
# Making a Dot Plot of Hotel Review  
dotchart(data$latitude, pch = 19, col = "brown", main = "Dot Plot")
```

## Dot Plot



```
# generates a bar plot  
ggplot(data,aes(x= postalCode, fill = "#FF5733")) + geom_bar ()
```



```
#View(tweets)  
data[3:4,]
```

```

##          id          dateAdded          dateUpdated
## 3 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 4 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
##          address
## 3 5921 Valencia Cir
## 4 7520 Teague Rd
##
categories
## 3 Hotels,Hotels and motels,Hotel and motel rese
rvations,Resorts,Resort,Hotel
## 4 Hotels,Hotels and motels,Travel agencies and bureaus,Hotel and Motel Management,Hotel &
Motel Management,Motels,Hotel
##          primaryCategories          city country
## 3 Accommodation & Food Services Rancho Santa Fe US
## 4 Accommodation & Food Services Hanover US
##          keys latitude longitude
## 3 us/ca/ranchosantafe/5921valenciagir/359754519 32.99096 -117.18614
## 4 us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
##          name postalCode province          reviews.date
## 3 Rancho Valencia Resort Spa 92067 CA 2015-01-02T00:00:00Z
## 4 Aloft Arundel Mills 21076 MD 2016-05-15T00:00:00Z
##
reviews.dateSeen
## 3 2016-11-15T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-07-26T00:00:00Z,2016
-08-02T00:00:00Z,2016-07-17T00:00:00Z,2016-08-03T00:00:00Z,2016-08-09T00:00:00Z,2016-08-26T0
0:00:00Z
## 4
2016-05-21T00:00:00Z,2016-07-31T00:00:00Z
## reviews.rating
## 3 5
## 4 2
##
reviews.sourceURLs
## 3
https://www.hotels.com/hotel/125419/reviews%20/
## 4 https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Han
over_Maryland.html,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or40-Alof
t_Arundel_Mills-Hanover_Maryland.html%2525252523REVIEWS
##
reviews.text
## 3 We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one of the
highest rated tennis resorts in America. This place is really over the top from a luxury stan
dpoint and overall experience. The villas are really perfect, the staff is great, attention t
o details (includes fresh squeezed orange juice each morning), restaurants, bar and room serv
ice amazing, and the tennis program was really impressive as well. We will want to come back
here again.
## 4
Currently in bed writing this for the past hr 1/2 there have been dogs barking and squealing
call the front desk to advise basically to be told there's nothing they can do. 315.00 and I
can't sleep.
##          reviews.title reviews.userCity
## 3 Amazing Property and Experience
## 4 Never again...beware, if you want sleep. Richmond
## reviews.userProvince reviews.username
## 3 Ron

```

```
## 4          VA          jaeem2016
##
sourceURLs
## 3          http://www.hotel
s.com/ho125419/%25252525253Flocale%25252525253Den_US%252525252526pos%25252525253DHCOM_US,htt
p://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hot
els.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb7
9f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-D
iego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02
## 4 http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellow
pages.com/hanover-md/mip/aloft-arundel-mills-458499145,https://www.hotels.com/hotel/309972/re
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
##
websites
## 3
http://www.ranchovalencia.com
## 4 http://www.starwoodhotels.com/aloft-hotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
```

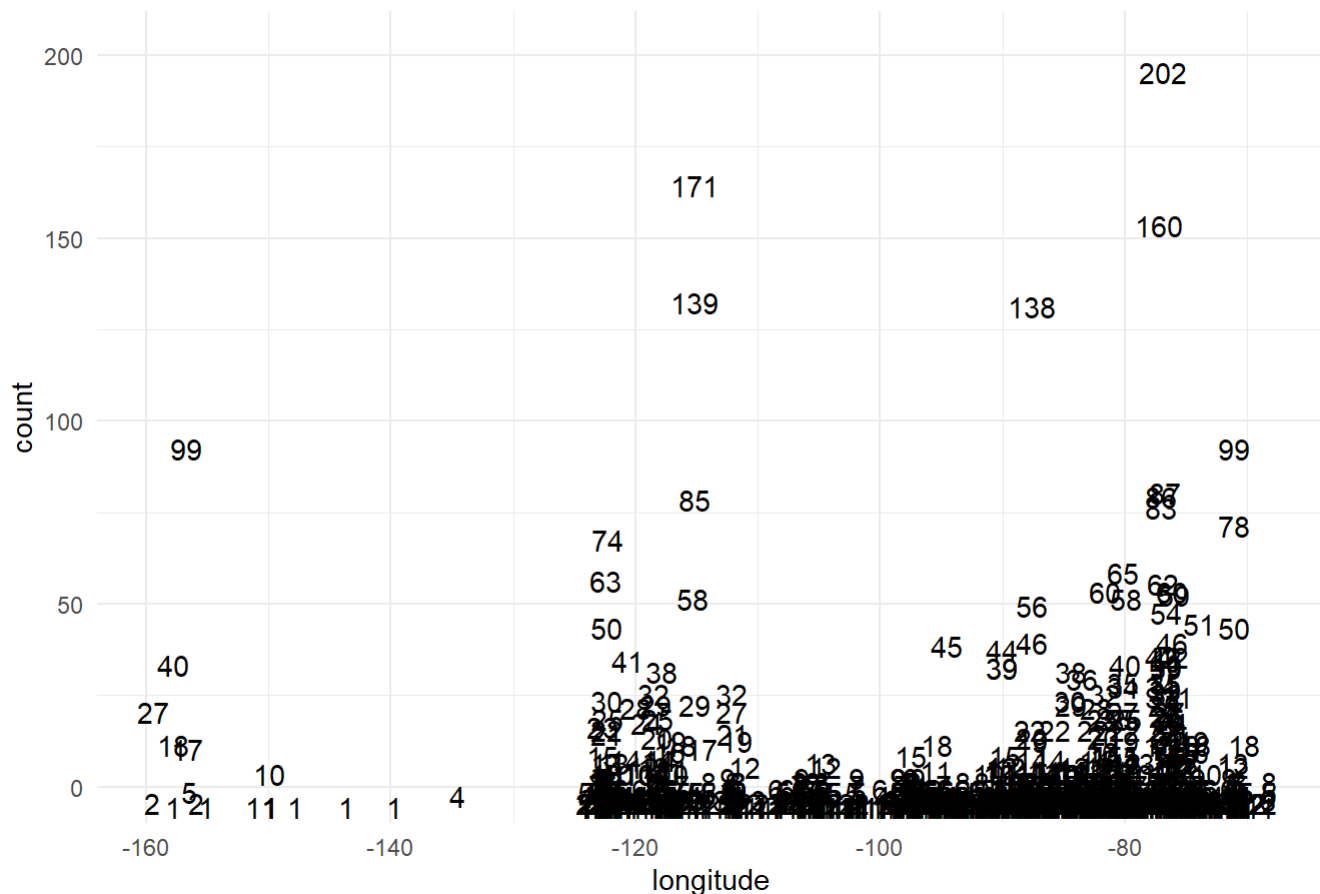
```
ggplot(data) + aes(longitude,fill= longitude) + geom_bar() +geom_text(stat='count', aes(label
=..count..), vjust=1.6, color="black") + labs(title= 'Plot of longitude') + theme_minimal()
+ guides(fill = F)
```

```
## Warning: The `<scale>` argument of `guides()` cannot be `FALSE`. Use "none" instead as
## of ggplot2 3.3.4.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

```
## Warning: The dot-dot notation (`..count..`) was deprecated in ggplot2 3.4.0.
## i Please use `after_stat(count)` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

```
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
## The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
```

## Plot of longitude

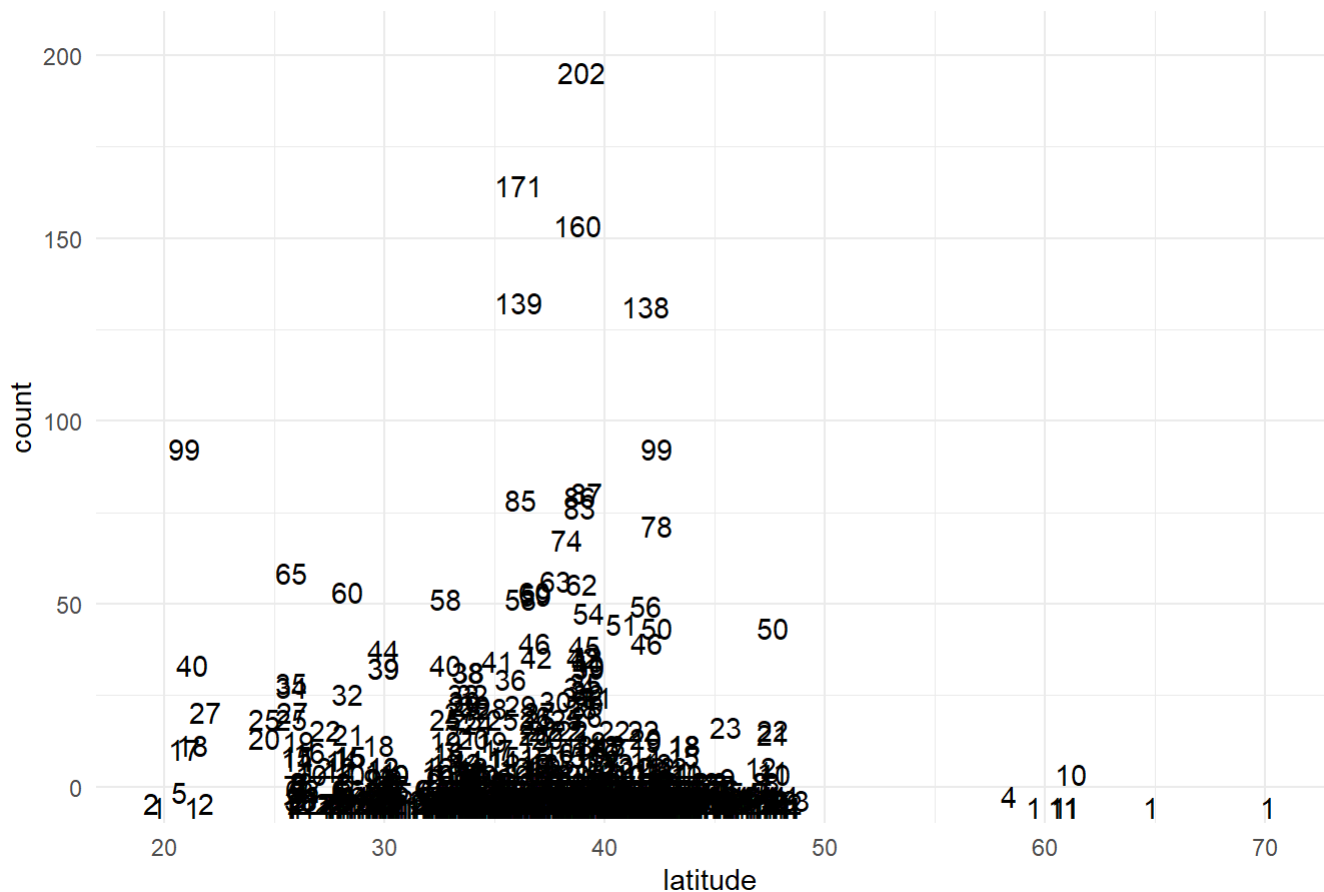


```
ggplot(data) + aes(latitude, fill= latitude) + geom_bar() + geom_text(stat='count', aes(label
=..count..), vjust=1.6, color="black") + labs(title= 'Plot of Sentiments') +
  scale_fill_manual(values = c("#ff576a", "#3db5ff", "#66CC99"))+ theme_minimal() + guides(fi
ll= F)
```

```
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
## The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
```



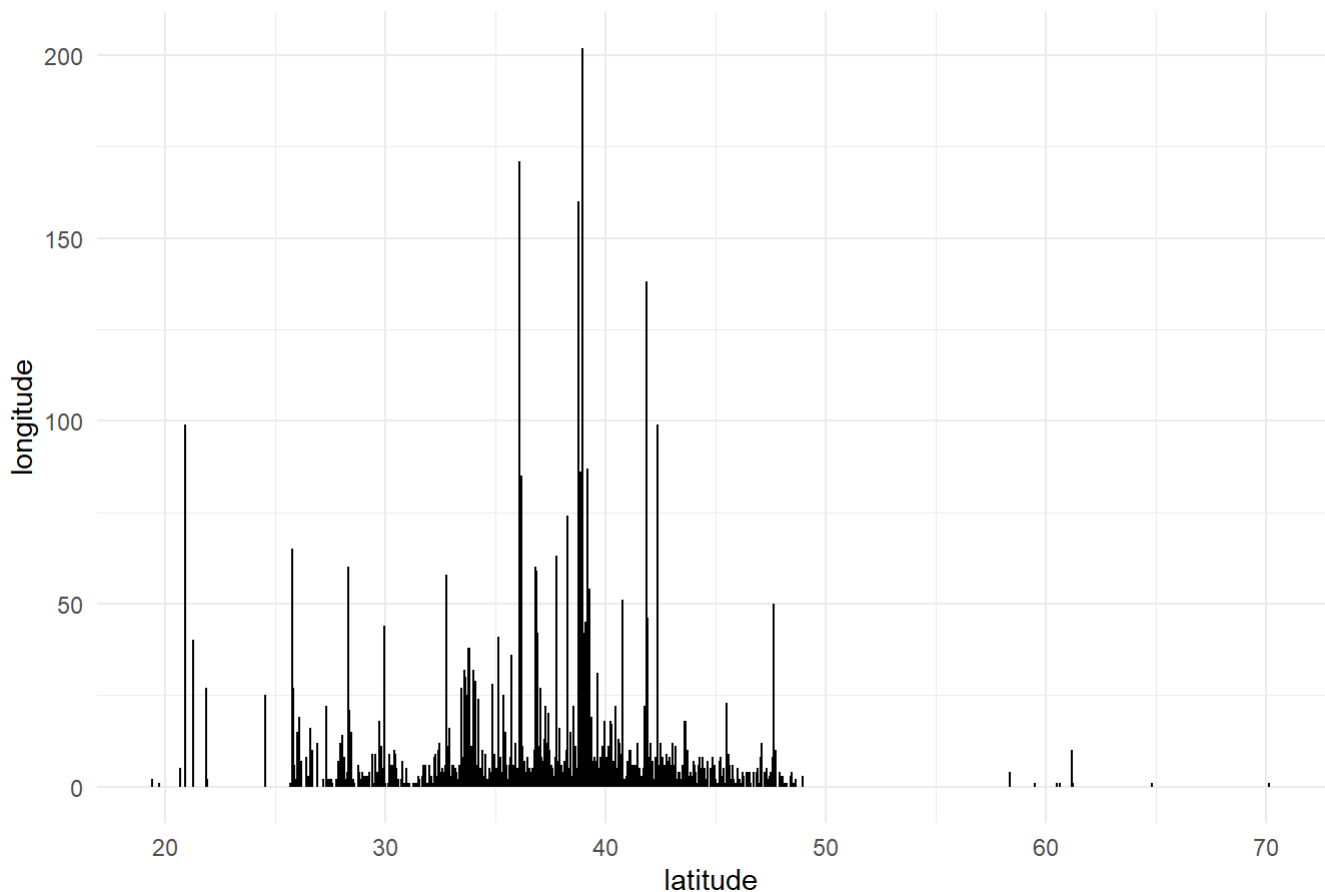
## Plot of Sentiments



```
ggplot(data, aes(x = latitude , fill = longitude))+ geom_bar( colour = 'black') + scale_fill
_manual(values = c("#ff576a", "#3db5ff", "#66CC99")) + labs(x = 'latitude', y = 'longitude', t
itle ='hotel review ') + theme(axis.text.x = element_text(angle = 25, size=9)) + theme_minim
al() + guides(fill= F)
```

```
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
```

## hotel review



```
library(wordcloud)
```

```
## Warning: package 'wordcloud' was built under R version 4.3.2
```

```
## Loading required package: RColorBrewer
```

```
library(gganimate)
```

```
## Warning: package 'gganimate' was built under R version 4.3.2
```

```
## No renderer backend detected. gganimate will default to writing frames to separate files
## Consider installing:
## - the `gifski` package for gif output
## - the `av` package for video output
## and restarting the R session
```

## Analysis

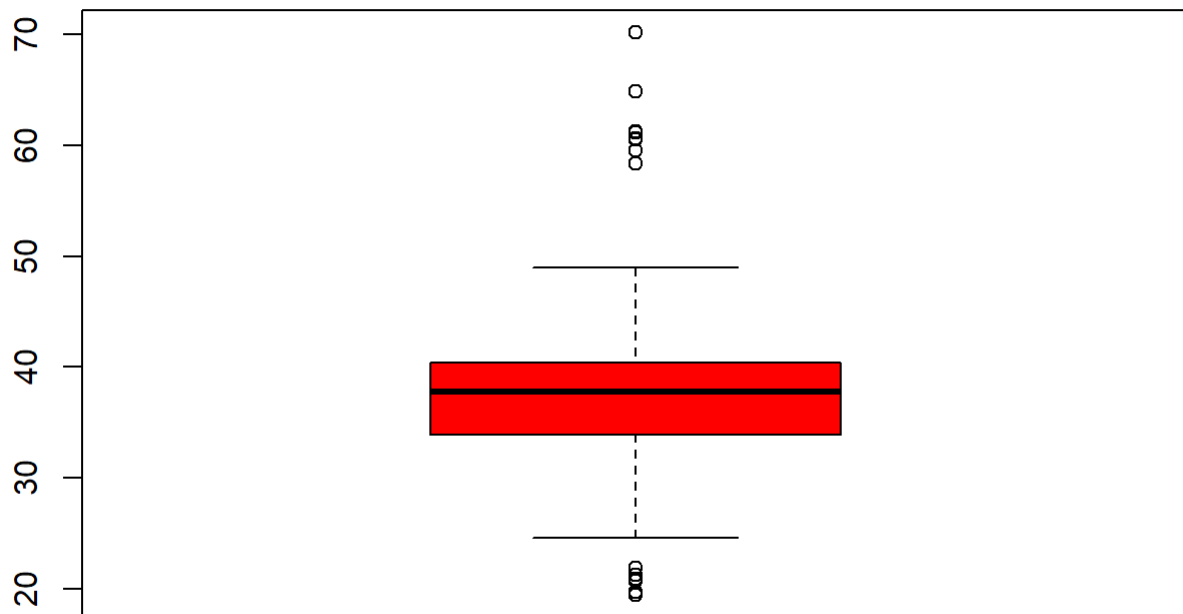
The Hotel Reviews dataset provides a diverse collection of customer feedback, encompassing various hotels worldwide. Analyzing this dataset reveals valuable insights into customer preferences, satisfaction levels, and key factors influencing hotel experiences. Researchers can leverage sentiment analysis to extract sentiments from textual reviews, enabling a deeper understanding of overall trends and areas for improvement in the hospitality industry. The dataset facilitates comprehensive

exploration of customer opinions, contributing to enhanced service quality and customer satisfaction strategies for hotel management.

```
# Adding Means to a Box Plot
```

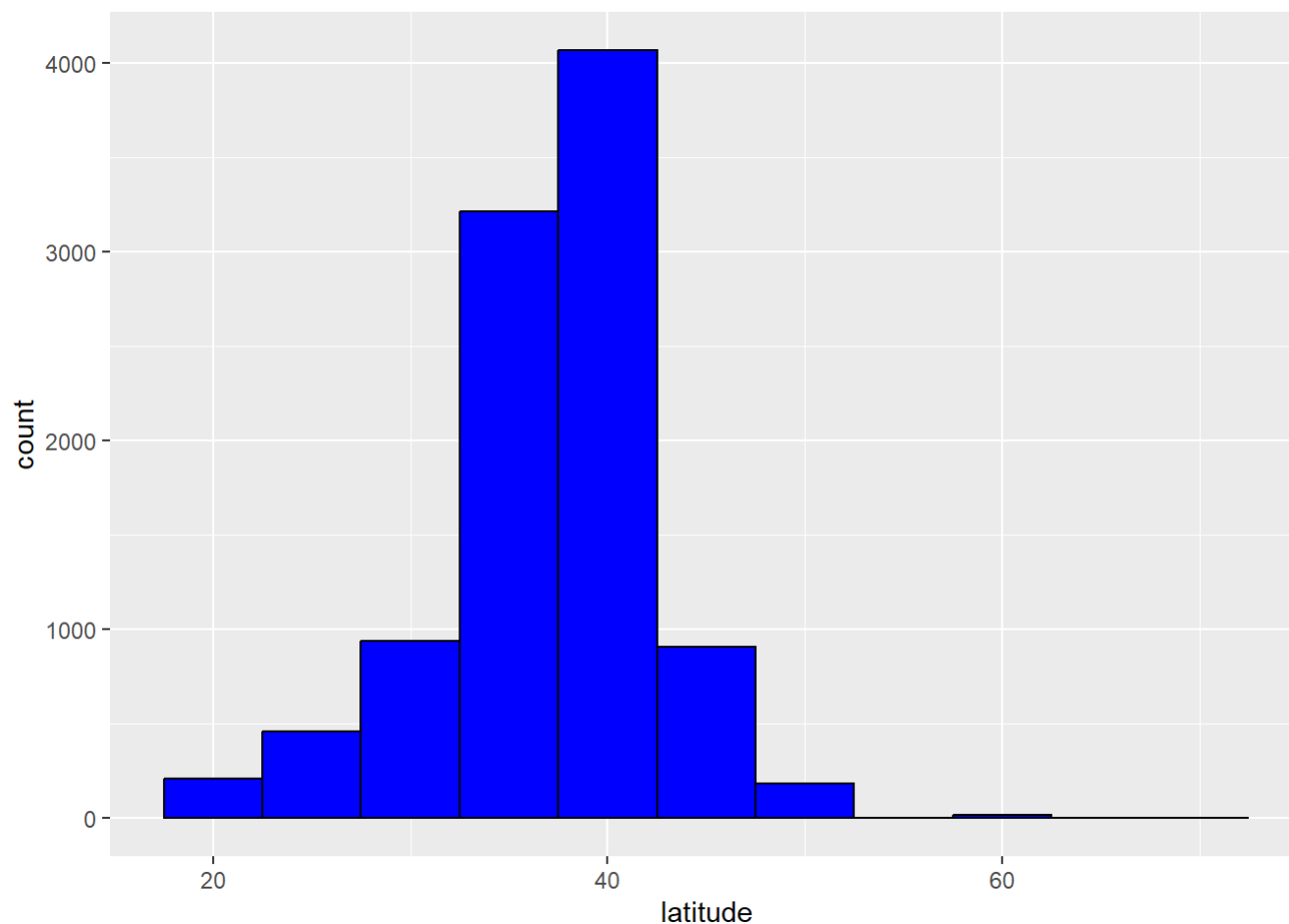
```
boxplot(data$latitude, mean = TRUE, col = "red", main = "Box Plot with Means")
```

### Box Plot with Means



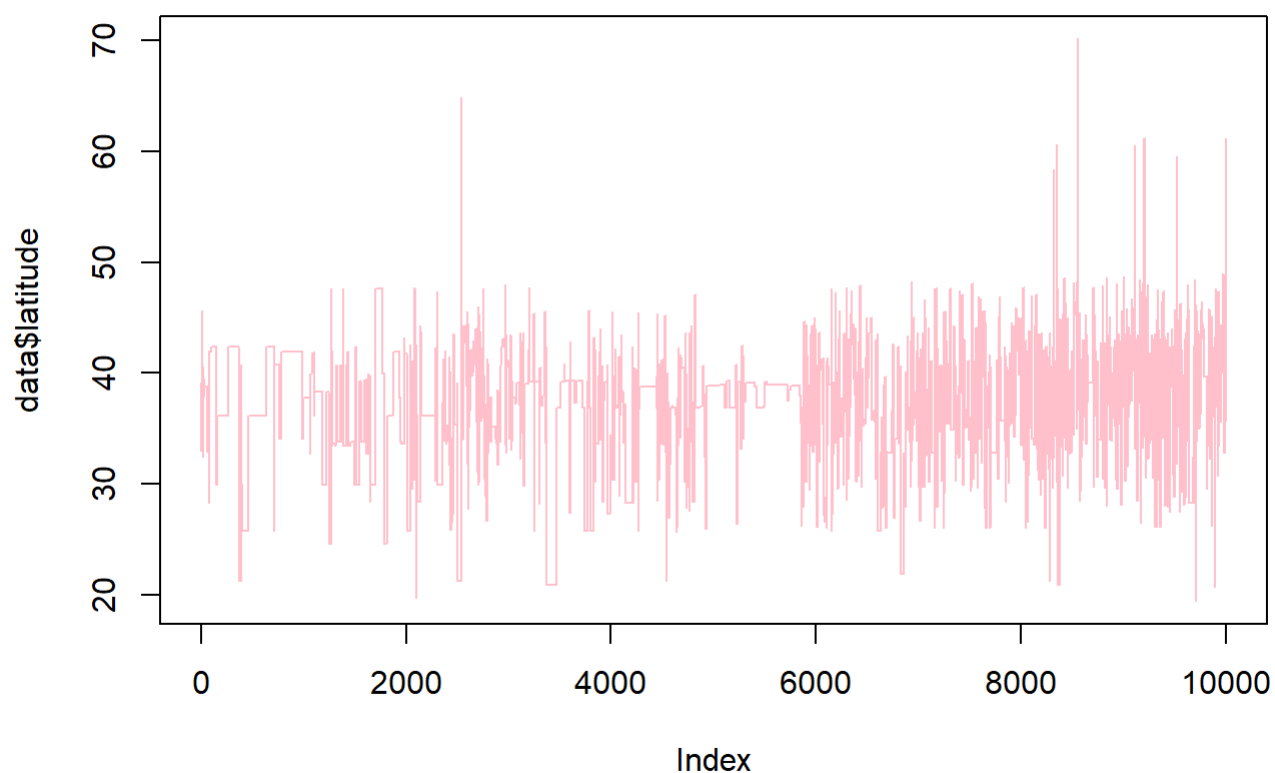
```
# Creating a Histogram for the hotel review
```

```
ggplot(data, aes(x = latitude)) + geom_histogram(binwidth = 5, fill = "blue", color = "black")
```



```
# Making a Frequency Polygon for the hotel review  
plot(data$latitude, type = "l", lty = 1, col = "pink", main = "Frequency Polygon")
```

## Frequency Polygon



```
#Calculates the standard deviation a dataset  
sd(data$latitude)
```

```
## [1] 5.517273
```

```
#converting data type  
as.numeric(data$longitude)
```

```
## [1] -117.18614 -117.18614 -117.18614 -76.71634 -76.71634 -76.71634
## [7] -76.71634 -76.71634 -76.71634 -122.52520 -122.52520 -122.52520
## [13] -122.52520 -122.52520 -122.52520 -94.58470 -94.58470 -94.58470
## [19] -94.58470 -94.58470 -77.96976 -83.74522 -122.40579 -122.40579
## [25] -122.40579 -122.40579 -75.04448 -75.04448 -77.01502 -77.01502
## [31] -77.01502 -77.01502 -77.01502 -77.01502 -77.01502 -77.01502
## [37] -77.01502 -77.01502 -77.01502 -77.01502 -77.01502 -77.01502
## [43] -77.01502 -77.01502 -77.01502 -77.01502 -77.01502 -77.01502
## [49] -77.01502 -77.01502 -77.01502 -77.01502 -77.01502 -77.01502
## [55] -77.01502 -77.01502 -77.01502 -77.01502 -77.01502 -117.19764
## [61] -117.19764 -117.19764 -117.19764 -117.19764 -117.19764 -117.19764
## [67] -117.19764 -117.19764 -117.19764 -117.19764 -117.19764 -117.19764
## [73] -117.19764 -117.19764 -117.19764 -87.88616 -87.88616 -87.88616
## [79] -87.88616 -81.35034 -87.62610 -87.62610 -87.62610 -87.62610
## [85] -87.62610 -87.62610 -87.62610 -87.62610 -87.62610 -87.62610
## [91] -87.62610 -87.62610 -87.62610 -87.62610 -87.62610 -87.62610
## [97] -87.62610 -87.62610 -87.62610 -71.06240 -71.06240 -71.06240
## [103] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [109] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [115] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [121] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [127] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [133] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [139] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -71.06240
## [145] -71.06240 -71.06240 -71.06240 -71.06240 -71.06240 -90.06748
## [151] -90.06748 -90.06748 -90.06748 -90.06748 -115.14565 -115.14307
## [157] -115.14307 -115.14307 -115.14307 -115.14565 -115.14307 -115.14565
## [163] -115.14307 -115.14307 -115.14307 -115.14307 -115.14565 -115.14565
## [169] -115.14307 -115.14307 -115.14565 -115.14307 -115.14565 -115.14307
## [175] -115.14307 -115.14307 -115.14307 -115.14307 -115.14307 -115.14307
## [181] -115.14565 -115.14307 -115.14307 -115.14565 -115.14307 -115.14565
## [187] -115.14307 -115.14307 -115.14307 -115.14307 -115.14307 -115.14307
## [193] -115.14307 -115.14307 -115.14307 -115.14307 -115.14565 -115.14307
## [199] -115.14565 -115.14565 -115.14565 -115.14307 -115.14307 -115.14307
## [205] -115.14307 -115.14307 -115.14565 -115.14307 -115.14565 -115.14307
## [211] -115.14307 -115.14307 -115.14307 -115.14307 -115.14307 -115.14565
## [217] -115.14307 -115.14307 -115.14307 -115.14307 -115.14307 -115.14307
## [223] -115.14307 -115.14307 -115.14565 -115.14565 -115.14307 -115.14565
## [229] -115.14565 -115.14565 -115.14307 -115.14307 -115.14307 -115.14307
## [235] -115.14307 -115.14307 -115.14307 -115.14307 -115.14307 -115.14307
## [241] -115.14307 -115.14565 -115.14565 -115.14307 -115.14307 -115.14307
## [247] -115.14307 -115.14565 -115.14307 -115.14565 -115.14307 -115.14307
## [253] -115.14307 -115.14307 -115.14565 -115.14307 -115.14307 -115.14307
## [259] -115.14307 -115.14307 -115.14307 -115.14565 -115.14307 -115.14565
## [265] -115.14307 -115.14307 -115.14307 -115.14307 -71.07857 -71.07857
## [271] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [277] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [283] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [289] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [295] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [301] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [307] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [313] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [319] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
## [325] -71.07857 -71.07857 -71.07857 -71.07857 -71.07857 -71.07857
```

[illegible]

##	[667]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[673]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[679]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[685]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[691]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[697]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[703]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[709]	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557	-71.06557
##	[715]	-80.18503	-71.06333	-73.97430	-73.97430	-73.97430	-73.97430
##	[721]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[727]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[733]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[739]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[745]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[751]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[757]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430
##	[763]	-73.97430	-73.97430	-73.97430	-73.97430	-73.97430	-118.24019
##	[769]	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019
##	[775]	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019
##	[781]	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019	-118.24019
##	[787]	-118.24019	-87.62563	-87.62563	-87.62563	-87.62563	-87.62563
##	[793]	-87.62563	-87.62563	-87.65201	-87.62563	-87.62563	-87.62563
##	[799]	-87.65201	-87.65201	-87.65201	-87.62563	-87.62837	-87.62837
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##	[5779]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5785]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5791]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5797]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5803]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5809]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
##	[5815]	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386	-77.07386
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##	[6811]	-117.30470	-117.30470	-122.99540	-122.33346	-122.33346	-122.33346
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##	[6829]	-97.59569	-115.17433	-115.17433	-159.44011	-159.44011	-159.44011
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##	[6859]	-79.93434	-79.93434	-79.93434	-79.93434	-79.93434	-79.93434
##	[6865]	-79.93434	-79.93434	-79.93434	-79.93434	-79.93434	-79.93434
##	[6871]	-79.93434	-77.44653	-74.70542	-82.33100	-82.33100	-82.33100
##	[6877]	-82.33100	-82.33100	-82.33100	-77.31877	-77.31877	-77.31877
##	[6883]	-77.31877	-80.42931	-80.42931	-80.42931	-80.42931	-80.42931
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##	[6895]	-82.27066	-82.27066	-72.69589	-72.69589	-83.90066	-83.90066
##	[6901]	-86.41879	-86.41879	-86.41879	-86.41879	-86.41879	-86.41938
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##	[6913]	-86.41938	-117.91618	-117.91618	-117.91618	-117.91618	-117.91618
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##	[6925]	-95.73158	-95.73158	-95.73158	-85.67147	-83.68090	-83.68090
##	[6931]	-76.91518	-90.25974	-90.25974	-81.10040	-82.08264	-82.08264
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##	[6943]	-121.96532	-84.12618	-84.12618	-84.12618	-84.12618	-93.27617
##	[6949]	-93.27617	-93.27617	-93.27617	-93.27617	-93.27617	-80.66539
##	[6955]	-97.49592	-85.75639	-85.75639	-85.75639	-85.75639	-85.75639
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##	[6979]	-78.95305	-78.95305	-78.95305	-78.95305	-118.33846	-97.53732
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##	[7003]	-95.36024	-95.36024	-95.36024	-95.36024	-121.51404	-121.51404
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##	[7015]	-76.67843	-80.05144	-80.05144	-80.05144	-80.05144	-80.05144
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##	[7027]	-83.73515	-83.73515	-99.08690	-99.08690	-99.08690	-78.84171
##	[7033]	-78.84171	-78.84171	-78.84171	-78.84171	-78.84171	-89.78646
##	[7039]	-89.78646	-95.47140	-95.36268	-95.36268	-95.36268	-95.36268
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##	[7063]	-105.63385	-105.63385	-68.96626	-68.96626	-78.51102	-76.05809
##	[7069]	-77.65369	-77.65369	-78.47570	-72.67514	-73.03459	-94.03375
##	[7075]	-80.64855	-95.85449	-90.21241	-90.21241	-90.21241	-90.21241
##	[7081]	-117.91565	-117.91565	-117.91565	-117.91565	-117.91565	-117.91565
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##	[7099]	-118.55712	-118.55712	-69.10940	-69.10940	-91.43790	-92.01450
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##	[7111]	-74.95252	-74.95252	-120.68842	-120.68842	-120.68842	-121.69671
##	[7117]	-121.69671	-121.69671	-121.69671	-73.40670	-73.40670	-73.40670
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##	[7177]	-122.35100	-74.28881	-81.09723	-81.09723	-81.09723	-82.82759
##	[7183]	-82.82759	-82.82759	-82.82759	-91.88433	-92.19542	-120.65297
##	[7189]	-73.99683	-73.99683	-79.15080	-79.15080	-84.18830	-84.18830
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##	[7219]	-92.26631	-106.98239	-106.98239	-106.98239	-98.90791	-106.37419
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##	[7243]	-80.11556	-80.11556	-80.11556	-80.11556	-80.11556	-122.58257
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##	[7327]	-82.39983	-82.39983	-82.39983	-82.39983	-82.39983	-82.39983
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##	[7393]	-90.83770	-84.96430	-84.96430	-79.84026	-79.84026	-79.84026
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##	[7417]	-70.62125	-70.62125	-70.62125	-70.62125	-70.62125	-93.79359
##	[7423]	-89.98882	-122.62267	-122.62267	-122.62267	-122.62267	-122.62267
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##	[7435]	-84.80605	-90.06751	-90.06751	-90.06751	-90.06751	-90.06751
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##	[7519]	-89.49887	-89.49887	-89.49887	-72.19700	-98.69960	-122.18249
##	[7525]	-122.18249	-122.18249	-96.82860	-96.82860	-96.82860	-96.82860
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Github Link - <https://github.com/shiveejaiswal/EDA>  
(<https://github.com/shiveejaiswal/EDA>)