Untitled

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Import the pickle file.

```
pd <-import("pandas")</pre>
pickle_data <- pd$read_pickle("hike_project_cleaned.pkl")</pre>
str(pickle_data)
## 'data.frame':
                     4903 obs. of 34 variables:
                                     "CT - Segment 7: Goldhill to Copper Mountain" "CDT: Gold Hill to Ge
    $ Trail Name
                              : chr
                                      "CO" "CO" "CO" "CO" ...
    $ State
##
    $ City
                                     "Front Range" "Front Range" "Front Range" ...
                              : chr
##
    $ Area
                              :List of 4903
##
     ..$ : num NaN
     ..$ : num NaN
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##
     ..$ : num NaN
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     ..$ : num NaN
     ..$ : chr "Boulder"
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     ..$ : chr "Boulder"
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     ..$ : chr "Boulder"
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     ..$ : chr "Boulder"
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..$ : chr "Boulder"
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     ..$ : chr "Boulder"
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     ..$ : chr "Rocky Mountain National Park"
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     ..$ : chr "Rocky Mountain National Park"
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     ..$ : chr "Boulder"
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     ..$ : chr "Colorado Springs"
     ..$ : chr "Ken Caryl"
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     ..$ : chr "Ken Caryl"
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     ..$ : chr "Denver"
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     ..$ : chr "Colorado Springs"
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     ..$ : chr "Indian Peaks Wilderness"
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     ..$ : chr "Fort Collins"
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##
     ..$ : chr "Fort Collins"
     ..$ : chr "Routt National Forest"
##
     ..$ : chr "Indian Peaks Wilderness"
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     ..$ : chr "Indian Peaks Wilderness"
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     ..$ : chr "Indian Peaks Wilderness"
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     ..$ : chr "Indian Peaks Wilderness"
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     ..$ : chr "Routt National Forest"
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##
     .. [list output truncated]
##
    $ Site
                              :List of 4903
##
     ..$ : num NaN
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##
     ..$ : chr "Deer Creek Canyon Park"
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     ..$ : chr "Deer Creek Canyon Park"
     ..$ : chr "Deer Creek Canyon Park"
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     ..$ : num NaN
     ..$ : chr "Deer Creek Canyon Park"
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     ..$ : chr "Deer Creek Canyon Park"
     ..$ : chr "Deer Creek Canyon Park"
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     ..$ : num NaN
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     ..$ : num NaN
##
     ..$ : chr "Deer Creek Canyon Park"
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     ..$ : num NaN
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     ..$ : num NaN
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     ..$ : num NaN
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     ..$ : num NaN
     .. [list output truncated]
    $ Trail Length
                             : num 13.1 20.4 22.1 4.6 9.3 1.2 0.7 3.5 9.5 1.9 ...
##
                             : chr "DIFFICULT" "INTERMEDIATE/DIFFICULT" "DIFFICULT" "EASY" ...
##
    $ Trail Difficulty
##
                             : num 5 4 5 1 3 1 5 5 1 3 ...
   $ Difficulty Number
                             : chr "[' 4.7 (7)']" "[]" "[' 4.0 (1)']" "[' 3.0 (1)']" ...
    $ Trail Rating
                             :List of 4903
##
    $ User Rate Number
     ..$ : chr " 4.7 (7)"
##
     ..$ : list()
##
     ..$ : chr " 4.0 (1)"
     ..$ : chr " 3.0 (1)"
##
##
     ..$ : chr " 3.3 (3)"
##
     ..$ : list()
##
     ..$ : list()
##
     ..$ : list()
##
     ..$ : chr " 3.0 (2)"
##
     ..$ : chr " 4.0 (1)"
     ..$ : chr " 4.4 (17)"
##
##
     ..$ : chr " 3.8 (8)"
##
     ..$ : chr " 3.3 (4)"
     ..$ : chr " 3.6 (5)"
##
     ..$ : chr " 3.3 (4)"
     ..$ : chr " 3.8 (5)"
##
     ..$ : chr " 4.2 (5)"
##
     ..$ : chr " 3.9 (12)"
     ..$ : chr " 4.0 (2)"
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##
     ..$ : chr " 4.0 (1)"
     ..$ : list()
##
     ..$ : chr " 3.0 (1)"
##
     ..$ : chr " 3.0 (2)"
##
##
     ..$ : chr " 2.0 (1)"
##
     ..$ : chr " 3.5 (2)"
     ..$ : chr " 3.2 (5)"
##
     ..$ : chr " 3.5 (2)"
##
     ..$ : chr " 3.6 (5)"
##
##
     ..$ : chr " 4.1 (11)"
     ..$ : chr " 2.7 (3)"
##
     ..$ : chr " 3.5 (4)"
##
##
     ..$ : list()
     ..$ : chr " 3.5 (2)"
     ..$ : chr " 2.0 (1)"
##
     ..$ : chr " 4.0 (1)"
##
     ..$ : chr " 3.0 (2)"
##
     ..$ : chr " 3.0 (2)"
##
     ..$ : chr " 3.0 (1)"
##
##
     ..$ : chr " 4.5 (6)"
     ..$ : chr " 3.5 (2)"
##
     ..$ : chr " 2.0 (1)"
##
     ..$ : chr " 2.0 (1)"
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```

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..$ : chr " 2.0 (1)"
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     ..$ : chr " 2.0 (1)"
##
     ..$ : chr " 2.0 (1)"
     ..$ : chr " 2.0 (1)"
##
##
     ..$ : list()
##
     ..$ : chr " 3.9 (19)"
     ..$ : chr " 3.8 (9)"
     ..$ : chr " 4.0 (8)"
##
##
     ..$ : chr " 4.1 (8)"
##
     ..$ : chr " 3.0 (1)"
     ..$ : chr " 3.0 (1)"
     ..$ : chr " 3.6 (5)"
##
     ..$ : chr " 3.0 (1)"
##
##
     ..$ : chr " 4.3 (3)"
##
     ..$ : chr " 4.0 (2)"
##
     ..$ : list()
##
     ..$ : chr " 4.3 (10)"
     ..$ : chr " 4.6 (8)"
##
     ..$ : chr " 3.9 (8)"
##
     ..$ : chr " 3.8 (17)"
##
##
     ..$ : chr " 3.6 (8)"
     ..$ : chr " 4.3 (7)"
     ..$ : chr " 3.7 (15)"
##
##
     ..$ : chr " 3.0 (2)"
     ..$ : chr " 3.0 (1)"
##
     ..$ : chr " 3.2 (5)"
##
     ..$ : chr " 3.0 (3)"
     ..$ : chr " 3.5 (2)"
##
     ..$ : chr " 4.2 (5)"
##
     ..$ : chr " 4.6 (16)"
     ..$ : chr " 5.0 (3)"
##
##
     ..$ : chr " 4.6 (7)"
     ..$ : chr " 4.6 (20)"
##
     ..$ : chr " 4.9 (8)"
##
     ..$ : chr " 4.5 (4)"
##
##
     ..$ : chr " 4.8 (6)"
##
     ..$ : chr " 4.0 (1)"
     ..$ : chr " 4.0 (3)"
##
     ..$ : chr " 3.5 (4)"
##
     ..$ : chr " 3.7 (7)"
##
     ..$ : chr " 3.2 (6)"
     ..$ : chr " 5.0 (1)"
##
     ..$ : chr " 4.5 (4)"
##
##
     ..$ : chr " 4.0 (8)"
     ..$ : chr " 4.3 (3)"
     ..$ : chr " 3.8 (4)"
##
     ..$ : chr " 4.8 (6)"
##
     ..$ : chr " 3.0 (1)"
##
     ..$ : chr " 4.7 (3)"
##
     ..$ : chr " 4.5 (2)"
##
##
     ..$ : list()
##
     ..$ : list()
##
     ..$ : list()
##
     ..$ : list()
```

```
##
     ..$ : list()
    ..$ : chr " 3.0 (1)"
##
    ..$ : chr " 4.0 (1)"
##
     .. [list output truncated]
##
## $ Trail Type
                            : chr
                                    "Point to Point" "Point to Point" "Point to Point" "Point to Point"
## $ Elev Up
                                    3650 4452 6930 10 1081 ...
                            : num
## $ Elev Down
                                    3026 1865 5527 580 346 ...
                            : num
## $ Highest Elevation
                            : num 12481 11769 13247 9560 7092 ...
## $ Lowest Elevation
                            : num 9188 9183 10423 8989 6232 ...
## $ Average Grade
                            : num 0.1 0.06 0.11 0.02 0.03 0.01 0.19 0.11 0.01 0.05 ...
## $ Max Grade
                            : num 0.38 0.34 0.56 0.06 0.17 0.04 0.3 0.35 0.06 0.13 ...
## $ Dogs and Features
                            :List of 4903
    ..$ : chr "Leashed" "Fall Colors · River/Creek · Views · Wildlife"
##
    ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown" "Views"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
##
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Leashed" "Geological Significance · River/Creek · Wildflowers · Wildlife"
     ..$ : chr "Leashed" "Birding · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : chr "Off-leash"
##
##
     ..$ : chr "Unknown" "River/Creek · Views"
     ..$ : chr "Off-leash" "Views"
##
     ..$ : chr "Leashed" "Birding · Fall Colors · Lake · River/Creek · Views · Wildlife"
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildlife"
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Swimming · Views · Wildlife"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Leashed"
##
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed"
##
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
     ..$ : chr "Leashed" "Birding \cdot Fall Colors \cdot River/Creek \cdot Views \cdot Wildflowers \cdot Wildlife"
##
     ..$ : chr "Off-leash" "Lake · Views · Wildflowers · Wildlife"
##
     ..$ : chr "No Dogs" "River/Creek · Views · Wildflowers"
##
##
     ..$ : chr "Off-leash" "Views · Wildflowers · Wildlife"
     ..$ : chr "No Dogs" "Views · Wildflowers · Wildlife"
##
##
     ..$ : chr "Unknown"
     ..$ : chr "Off-leash" "River/Creek · Views · Wildflowers"
     ..$ : chr "Leashed" "River/Creek · Wildflowers"
##
     ..$ : chr "No Dogs" "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
##
##
     ..$ : chr "Leashed" "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
     ..$ : chr "No Dogs" "Birding \cdot Fall Colors \cdot River/Creek \cdot Views \cdot Wildflowers \cdot Wildlife"
##
     ..$ : chr "Unknown" "Fall Colors · Views"
##
##
     ..$ : chr "Leashed"
     ..$ : chr "Leashed" "River/Creek · Views · Wildflowers"
##
     ..$ : chr "Off-leash" "River/Creek"
##
     ..$ : chr "Off-leash"
##
```

```
##
     ..$ : chr "Off-leash" "River/Creek"
     ..$ : chr "Off-leash"
##
##
     ..$ : chr "Unknown"
     ...$ : chr "Leashed" "River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed" "Views"
     ..$ : chr "Unknown" "Views"
##
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Leashed" "Fall Colors · Spring · Views · Wildflowers · Wildlife"
     ..$ : chr "Unknown"
     ..$ : chr "Leashed" "River/Creek"
##
     ..$ : chr "Leashed"
##
     ..$ : chr "Leashed"
##
##
     ..$ : chr "Leashed" "Lake"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Leashed" "Views"
##
     ..$ : chr "Leashed" "Birding · Wildlife"
     ..$ : chr "Leashed" "Views"
##
     ..$ : chr "Leashed" "Views"
##
##
     ..$ : chr "Unknown" "Birding · Lake · River/Creek · Views · Wildlife"
     ..$ : chr "Leashed" "Fall Colors · River/Creek · Spring · Views · Wildflowers · Wildlife"
     ..$ : chr "Leashed" "River/Creek · Views"
##
     ..$ : chr "Unknown"
##
##
     ..$ : chr "Unknown"
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
     ..$ : chr "Leashed" "Fall Colors \cdot Views"
##
     ..$ : chr "No Dogs" "Birding · Cave · Lake · River/Creek · Views · Wildflowers · Wildlife"
##
##
     ..$ : chr "Leashed" "Birding · Fall Colors · Lake · River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed" "Lake · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : chr "Leashed" "Fall Colors · Lake · River/Creek · Views · Wildflowers · Wildlife"
     ..$ : chr "Leashed" "Fall Colors · Lake · River/Creek · Views · Waterfall · Wildflowers · Wildlif
##
     ..$ : chr "Leashed" "Fall Colors · Lake · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : chr "Leashed" "Fall Colors · Lake · River/Creek · Views · Wildlife"
##
##
     ..$ : chr "Leashed" "Views · Wildflowers · Wildlife"
##
     ..$ : chr "Leashed" "Commonly Backpacked"
##
     ..$ : chr ""
##
     ..$ : chr ""
##
     ..$ : chr "Unknown" "River/Creek"
     ..$ : chr "Leashed" "Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Leashed" "Views"
     ..$ : chr "Unknown"
##
     ..$ : chr "Leashed" "Lake \cdot River/Creek \cdot Views \cdot Wildflowers \cdot Wildlife"
##
     ..$ : chr "Leashed" "Lake · Views · Wildflowers"
     ..$ : chr "Leashed" "Lake · Views · Wildflowers"
##
      \text{...\$ : chr "Leashed" "Birding } \cdot \text{Lake } \cdot \text{River/Creek } \cdot \text{Spring } \cdot \text{Swimming } \cdot \text{Views } \cdot \text{Waterfall } \cdot \text{Wildf } 
##
     ..$ : chr "Unknown" "Fall Colors · Views"
##
##
     ..$ : chr "Leashed" "Commonly Backpacked · Fall Colors · Lake · River/Creek · Views · Waterfall ·
     ..$ : chr "Unknown"
##
##
     ..$ : chr "Leashed" "Views"
##
     ..$ : chr "Leashed" "Views"
##
     ..$ : chr "Unknown"
##
     ..$ : chr "Unknown"
```

##

..\$: chr "Off-leash"
..\$: chr "Off-leash"

```
..$ : chr "Unknown"
##
     ...$ : chr "Unknown" "Lake · Views · Wildflowers"
##
     ..$ : chr "Unknown"
     .. [list output truncated]
##
## $ Features
                             :List of 4903
##
    ..$ : chr "Fall Colors · River/Creek · Views · Wildlife"
    ..$ : num NaN
##
##
     ..$ : num NaN
##
     ..$ : chr "Views"
##
     ..$ : num NaN
##
     ..$ : num NaN
     ..$ : num NaN
##
     ..$ : num NaN
##
##
     ..$ : num NaN
##
     ..$ : chr "Geological Significance · River/Creek · Wildflowers · Wildlife"
##
     ..$ : chr "Birding · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : num NaN
     ..$ : chr "River/Creek · Views"
##
     ..$ : chr "Views"
##
     ..$ : chr "Birding \cdot Fall Colors \cdot Lake \cdot River/Creek \cdot Views \cdot Wildlife"
##
##
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildlife"
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildlife"
     ..$ : chr "Birding · Fall Colors · River/Creek · Swimming · Views · Wildlife"
##
##
     ..$ : num NaN
     ..$ : num NaN
##
##
     ..$ : num NaN
##
     ..$ : num NaN
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildlife"
##
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
     ..$ : chr "Lake · Views · Wildflowers · Wildlife"
##
##
     ..$ : chr "River/Creek · Views · Wildflowers"
##
     ..$ : chr "Views · Wildflowers · Wildlife"
##
     ..$ : chr "Views · Wildflowers · Wildlife"
##
     ..$ : num NaN
##
     ..$ : chr "River/Creek · Views · Wildflowers"
##
     ..$ : chr "River/Creek · Wildflowers"
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
##
     ..$ : chr "Birding · Fall Colors · River/Creek · Views · Wildflowers · Wildlife"
     ..$ : chr "Birding \cdot Fall Colors \cdot River/Creek \cdot Views \cdot Wildflowers \cdot Wildlife"
##
     ..$ : chr "Fall Colors · Views"
##
     ..$ : num NaN
     ...$ : chr "River/Creek · Views · Wildflowers"
##
     ..$ : chr "River/Creek"
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     ..$ : num NaN
##
     ..$ : num NaN
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     ..$ : num NaN
     ..$ : chr "River/Creek"
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##
     ..$ : num NaN
    ..$ : num NaN
##
##
     ..$ : chr "River/Creek · Views · Wildlife"
     ..$ : chr "Views"
##
```

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##
    ..$ : chr "Views"
##
    ..$ : num NaN
##
    ..$ : chr "Fall Colors · Spring · Views · Wildflowers · Wildlife"
##
     ..$ : num NaN
    ..$ : chr "River/Creek"
##
    ..$ : num NaN
    ..$ : num NaN
##
    ..$ : chr "Lake"
##
    ..$ : num NaN
##
##
    ..$ : chr "Views"
    ..$ : chr "Birding · Wildlife"
    ..$ : chr "Views"
##
    ..$ : chr "Views"
##
    ..$ : chr "Birding · Lake · River/Creek · Views · Wildlife"
##
    ..$ : chr "Fall Colors · River/Creek · Spring · Views · Wildflowers · Wildlife"
##
    ..$ : chr "River/Creek · Views"
##
    ..$ : num NaN
##
    ..$ : chr "Fall Colors · Views"
    ..$ : chr "Birding · Cave · Lake · River/Creek · Views · Wildflowers · Wildlife"
    ..$ : chr "Birding · Fall Colors · Lake · River/Creek · Views · Wildlife"
##
    ..$ : chr "Lake · River/Creek · Views · Wildflowers · Wildlife"
    ..$ : chr "Fall Colors · Lake · River/Creek · Views · Wildflowers · Wildlife"
##
    ..$ : chr "Fall Colors · Lake · River/Creek · Views · Waterfall · Wildflowers · Wildlife"
##
     ..$ : chr "Fall Colors \cdot Lake \cdot River/Creek \cdot Views \cdot Wildflowers \cdot Wildlife"
    ..$ : chr "Fall Colors · Lake · River/Creek · Views · Wildlife"
##
    ..$ : chr "Views · Wildflowers · Wildlife"
    ..$ : chr "Commonly Backpacked"
##
    ..$ : num NaN
##
    ..$: num NaN
##
    ..$ : chr "River/Creek"
    ..$ : chr "Fall Colors · River/Creek · Views · Wildlife"
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##
    ..$ : chr "Views"
##
    ..$ : num NaN
##
    ..$ : chr "Lake · River/Creek · Views · Wildflowers · Wildlife"
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    ..$ : chr "Lake · Views · Wildflowers"
    ..$ : chr "Lake · Views · Wildflowers"
##
##
    ..$ : chr "Birding · Lake · River/Creek · Spring · Swimming · Views · Waterfall · Wildflowers · Wi
    ..$ : chr "Fall Colors · Views"
##
    ..$ : chr "Commonly Backpacked · Fall Colors · Lake · River/Creek · Views · Waterfall · Wildflower
##
    ..$ : num NaN
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    ..$ : chr "Views"
    ..$ : chr "Views"
##
    ..$ : num NaN
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##
    ..$ : num NaN
##
    ..$ : num NaN
    ..$ : chr "Lake · Views · Wildflowers"
##
    ..$ : num NaN
##
    .. [list output truncated]
## $ Stats Info.
                            :List of 4903
##
    ..$ : chr " 0.0 from 0 votes\n5 Star\n0%\n4 Star\n0%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%" "Trail
```

```
4.0 from 1 vote\n5 Star\n0%\n4 Star\n100%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%\" "Trai
##
           ..$ : chr
                                         3.0 from 1 vote\n5 Star\n0%\n4 Star\n0%\n3 Star\n100%\n2 Star\n0%\n1 Star\n0%" "Trai
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           ..$ : chr
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                                         3.3 from 3 votes\n5 Star\n0%\n4 Star\n33%\n3 Star\n67%\n2 Star\n0%\n1 Star\n0%" "Tra
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                                         3.0 from 2 votes\n5 Star\n0%\n4 Star\n50%\n3 Star\n0%\n2 Star\n50%\n1 Star\n0%\" "Tra
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           ..$ : chr
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                                         4.4 from 17 votes\n5 Star\n47%\n4 Star\n41%\n3 Star\n12%\n2 Star\n0%\n1 Star\n0%" "T
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                                         3.6 from 5 votes
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           ..$ : chr
                                         3.9 from 12 votes\n5 Star\n25%\n4 Star\n42%\n3 Star\n33%\n2 Star\n0%\n1 Star\n0%" "The star of the st
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                                         3.2 from 5 votes\n5 Star\n40%\n4 Star\n0%\n3 Star\n20%\n2 Star\n20%\n1 Star\n20%" "T.
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                                         3.6 from 5 votes\n5 Star\n20%\n4 Star\n40%\n3 Star\n20%\n2 Star\n20%\n1 Star\n0%" "T
                                         4.1 from 11 votes
\n5 Star\n36%\n4 Star\n45%\n3 Star\n9%\n2 Star\n9%\n1 Star\n0%" "Tr
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           ..$ : chr
                                         2.7 from 3 votes
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           ..$ : chr
                                         3.9 from 19 votes\n5 Star\n28%\n4 Star\n39%\n3 Star\n28%\n2 Star\n6%\n1 Star\n0%" "Tar\n0%" "Ta
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           ..$ : chr
                                         3.8 from 9 votes\n5 Star\n11%\n4 Star\n67%\n3 Star\n11%\n2 Star\n11%\n1 Star\n0%" "T
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           ..$ : chr
                                         4.0 from 8 votes
\n5 Star\n25%\n4 Star\n50%\n3 Star\n25%\n2 Star\n0%\n1 Star\n0%" "Tr
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           ..$ : chr
                                         4.1 from 8 votes
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           ..$ : chr
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           ..$ : chr
                                         3.6 from 5 votes\n5 Star\n20%\n4 Star\n40%\n3 Star\n20%\n2 Star\n20%\n1 Star\n0%" "T
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                                        4.3 from 3 votes
\n5 Star\n67%\n4 Star\n0%\n3 Star\n3%\n2 Star\n0%\n1 Star\n0%" "Tra
           ..$ : chr
```

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4.0 from 2 votes\n5 Star\n50%\n4 Star\n0%\n3 Star\n50%\n2 Star\n0%\n1 Star\n0%" "Tra
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     ..$ : chr
                   0.0 from 0 votes\n5 Star\n0%\n4 Star\n0%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%\" "Trail
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     ..$ : chr
                   4.3 from 10 votes\n5 Star\n33%\n4 Star\n56%\n3 Star\n11%\n2 Star\n0%\n1 Star\n0%" "T
     ..$ : chr
                   4.6 from 8 votes\n5 Star\n75%\n4 Star\n13%\n3 Star\n13%\n2 Star\n0%\n1 Star\n0%" "Tr
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                   3.9 from 8 votes\n5 Star\n25%\n4 Star\n38%\n3 Star\n38%\n2 Star\n0%\n1 Star\n0%" "Tr
                   3.8 from 17 votes\n5 Star\n18%\n4 Star\n53%\n3 Star\n24%\n2 Star\n6%\n1 Star\n0%" "T
##
     ..$ : chr
                   3.6 from 8 votes\n5 Star\n13%\n4 Star\n50%\n3 Star\n25%\n2 Star\n13%\n1 Star\n0%" "T
##
     ..$ : chr
                   4.3 from 7 votes\n5 Star\n43%\n4 Star\n43%\n3 Star\n14%\n2 Star\n0%\n1 Star\n0%" "Tr
##
     ..$ : chr
                   3.7 from 15 votes\n5 Star\n7%\n4 Star\n67%\n3 Star\n20%\n2 Star\n7%\n1 Star\n0%" "Tr
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                   3.2 from 5 votes\n5 Star\n0%\n4 Star\n20%\n3 Star\n80%\n2 Star\n0%\n1 Star\n0%" "Tra
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                   3.0 from 3 votes
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     ..$ : chr
                   4.6 from 16 votes\n5 Star\n69%\n4 Star\n19%\n3 Star\n13%\n2 Star\n0%\n1 Star\n0%" "T
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     ..$ : chr
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                   4.6 from 7 votes\n5 Star\n57%\n4 Star\n43%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%" "Tra
     ..$ : chr
                   4.6 from 20 votes\n5 Star\n55%\n4 Star\n45%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%\" "Tr
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     ..$ : chr
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                   4.9 from 8 votes\n5 Star\n88\n4 Star\n13\n3 Star\n0\n2 Star\n0\n3
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     ..$ : chr
                   4.5 from 4 votes\n5 Star\n50%\n4 Star\n50%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%\" "Tra
                   4.8 from 6 votes\n5 Star\n83%\n4 Star\n17%\n3 Star\n0%\n2 Star\n0%\n1 Star\n0%" "Tra
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\n5 Star\n0%\n4 Star\n50%\n3 Star\n17%\n2 Star\n33%\n1 Star\n0%" "Tr
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     .. [list output truncated]
                             : num 4.7 NaN 4 3 3.3 NaN NaN NaN 3 4 ...
    $ Overall Trail Rating
                             : num 7 NaN 1 1 3 NaN NaN NaN 2 1 ...
    $ Total User Reviews
    $ Dogs
##
                              :List of 4903
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     ..$ : chr "Leashed"
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     ..$ : chr "Unknown"
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..\$: chr "Unknown"

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     .. [list output truncated]
   $ Birding
                             : logi FALSE FALSE FALSE FALSE FALSE ...
##
   $ Fall Colors
                             : logi TRUE FALSE FALSE FALSE FALSE FALSE ...
##
  $ River/Creek
                            : logi TRUE FALSE FALSE FALSE FALSE ...
   $ Views
                             : logi TRUE FALSE FALSE TRUE FALSE FALSE ...
##
##
   $ Wildflowers
                             : logi FALSE FALSE FALSE FALSE FALSE ...
                             : logi FALSE FALSE FALSE FALSE FALSE ...
   $ Spring
   $ Geological Significance: logi FALSE FALSE FALSE FALSE FALSE FALSE ...
   $ Swimming
                             : logi FALSE FALSE FALSE FALSE FALSE ...
##
##
   $ Lake
                             : logi FALSE FALSE FALSE FALSE FALSE ...
   $ Wildlife
                             : logi
                                    TRUE FALSE FALSE FALSE FALSE ...
                             : logi FALSE TRUE TRUE FALSE TRUE TRUE ...
##
   $ No Features
## - attr(*, "pandas.index")=RangeIndex(start=0, stop=4903, step=1)
```

Initial Cleaning

Remove the area columns from the file.

```
pickle.minus <- select(pickle_data, -c("Area", 'City', 'State', 'Site'))</pre>
```

Set the NaN values to zero in user reviews and trail rating. Also remove the spaces in the column name.

```
pickle.minus['Total User Reviews'][is.na(pickle.minus['Total User Reviews'])] <- 0
pickle.minus$UserReview <- as.numeric(pickle.minus$'Total User Reviews')
pickle.minus['Overall Trail Rating'][is.na(pickle.minus['Overall Trail Rating'])] <- 0
pickle.minus$TrailRating <- as.numeric(pickle.minus$'Overall Trail Rating')
pickle.minus <- select(pickle.minus, -c('Total User Reviews', 'Overall Trail Rating'))</pre>
```

Replace NaN with Unknown in the 'Dogs' column. Change it to a factor.

```
pickle.minus['Dogs'][is.na(pickle.minus['Dogs'])] <- 'Unknown'
pickle.minus$Dogs <- str_split_fixed(pickle.minus$Dogs, ' ', 2)
pickle.minus$Dogs_Factor <- as.factor(pickle.minus$Dogs[,1])</pre>
```

Set Difficulty, Trail Type, Fall Colors, Views, Wildlife, Wildflowers, Birding, Lake, Geological Significance, and No Features as factors.

```
pickle.minus$Difficulty_Factor <- as.factor(pickle.minus$'Trail Difficulty')
pickle.minus$TrailType_Factor <- as.factor(pickle.minus$'Fall Colors')
pickle.minus$FallColor_Factor <- as.factor(pickle.minus$'River/Creek')
pickle.minus$Views_Factor <- as.factor(pickle.minus$Views)
pickle.minus$Wildlife_Factor <- as.factor(pickle.minus$Wildlife)
pickle.minus$Wildflowers_Factor <- as.factor(pickle.minus$Wildflowers)
pickle.minus$Birding_Factor <- as.factor(pickle.minus$Birding)
pickle.minus$Lake_Factor <- as.factor(pickle.minus$Lake)
pickle.minus$GeoSig_Factor <- as.factor(pickle.minus$'Geological Significance')
pickle.minus$NoFeature_Factor <-as.factor(pickle.minus$'No Features')</pre>
```

Simplify names in R. Some formulas have issues with spaces for column names.

```
pickle.minus$Elev_High <- pickle.minus$'Highest Elevation'
pickle.minus$Low_High <- pickle.minus$'Lowest Elevation'
pickle.minus$GradeAvg <- pickle.minus$'Average Grade'
pickle.minus$GradeMax <- pickle.minus$'Max Grade'
pickle.minus$TrailLength <- pickle.minus$'Trail Length'</pre>
```

Create a new dataframe and drop all the columns not going to be used in the analysis.

```
trail <- select(pickle.minus, -c('Fall Colors', 'River/Creek', 'Views', 'Wildlife', 'Wildflowers', 'Bir</pre>
```

Remove the rows without a user rating and create a new dataframe with just that data.

```
trail.no.user <- trail[trail$UserReview=="0",]
trail.minus <- trail[!trail$UserReview=="0",]
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## EASY
                         : 493
                                  Loop
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    [ reached getOption("max.print") -- omitted 277 rows ]
```

Analysis

##

Create a logistic regression model using all the factors.

```
model.one <- lm(TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down + GradeAvg + GradeAvg
```

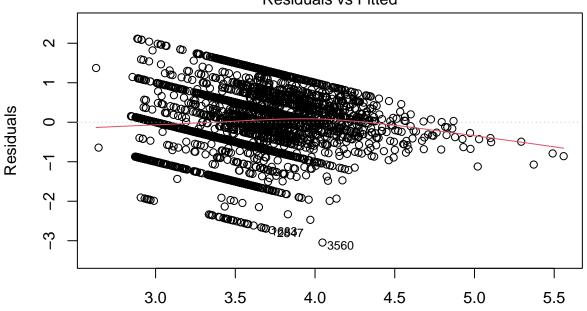
```
## Call:
## lm(formula = TrailRating ~ TrailType_Factor + Difficulty_Factor +
      Elev_Up + Elev_Down + GradeAvg + GradeMax + TrailLength +
##
      UserReview + Dogs_Factor + FallColor_Factor + River_Factor +
##
      Views_Factor + Wildlife_Factor + Wildflowers_Factor + Birding_Factor +
      Lake_Factor + GeoSig_Factor + NoFeature_Factor, data = trail.minus)
##
##
## Residuals:
##
                 1Q
                     Median
                                   3Q
## -3.04662 -0.47736 0.03521 0.50508 2.11445
##
## Coefficients:
##
                                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                           3.887e+00 2.946e-01 13.195 < 2e-16
## TrailType_FactorLoop
                                           1.575e-01 2.495e-01 0.631 0.527946
## TrailType_FactorOut and Back
                                          -4.916e-01 4.635e-01 -1.061 0.288929
## TrailType_FactorPoint to Point
                                          -8.877e-02 2.403e-01 -0.369 0.711897
## TrailType_FactorUnknown
                                          -5.671e-02 2.892e-01 -0.196 0.844571
## Difficulty_FactorEASY
                                          -4.478e-01 6.111e-02 -7.328 2.92e-13
## Difficulty_FactorEASY/INTERMEDIATE
                                          -9.305e-02 6.075e-02 -1.532 0.125704
## Difficulty_FactorINTERMEDIATE
                                           1.073e-02 4.537e-02 0.237 0.813015
```

```
## Difficulty_FactorINTERMEDIATE/DIFFICULT 1.517e-01 5.038e-02 3.012 0.002617
## Difficulty_FactorVERY
                                           6.021e-02 1.204e-01 0.500 0.617038
## Elev Up
                                           2.910e-05 2.334e-05 1.247 0.212555
## Elev_Down
                                           4.954e-05 2.584e-05 1.918 0.055244
## GradeAvg
                                          -1.518e+00 4.702e-01 -3.228 0.001258
## GradeMax
                                          8.382e-01 1.527e-01 5.488 4.38e-08
## TrailLength
                                          -4.192e-03 5.936e-03 -0.706 0.480114
                                          1.921e-02 2.515e-03 7.641 2.82e-14
## UserReview
                                          -3.888e-01 1.690e-01 -2.300 0.021513
## Dogs_FactorLeashed
## Dogs_FactorNo
                                          -4.346e-01 1.743e-01 -2.494 0.012692
## Dogs_FactorOff-leash
                                          -3.628e-01 1.735e-01 -2.091 0.036576
                                          -5.095e-01 1.669e-01 -3.052 0.002290
## Dogs_FactorUnknown
## FallColor_FactorTRUE
                                          3.530e-03 4.333e-02 0.081 0.935069
## River_FactorTRUE
                                         1.062e-01 4.244e-02 2.501 0.012434
## Views_FactorTRUE
                                         1.746e-01 5.079e-02 3.439 0.000592
## Wildlife_FactorTRUE
                                          -3.346e-02 4.407e-02 -0.759 0.447704
## Wildflowers_FactorTRUE
                                         1.073e-02 4.251e-02 0.252 0.800806
## Birding_FactorTRUE
                                         1.373e-02 5.068e-02 0.271 0.786493
## Lake_FactorTRUE
                                          1.300e-01 4.964e-02 2.620 0.008841
                                          4.875e-01 1.638e-01 2.976 0.002940
## GeoSig_FactorTRUE
## NoFeature_FactorTRUE
                                          2.684e-02 5.634e-02 0.476 0.633766
## (Intercept)
                                          ***
## TrailType_FactorLoop
## TrailType_FactorOut and Back
## TrailType_FactorPoint to Point
## TrailType_FactorUnknown
## Difficulty_FactorEASY
                                          ***
## Difficulty_FactorEASY/INTERMEDIATE
## Difficulty_FactorINTERMEDIATE
## Difficulty_FactorINTERMEDIATE/DIFFICULT **
## Difficulty_FactorVERY
## Elev_Up
## Elev_Down
## GradeAvg
## GradeMax
                                          ***
## TrailLength
## UserReview
                                          ***
## Dogs_FactorLeashed
## Dogs_FactorNo
## Dogs FactorOff-leash
## Dogs_FactorUnknown
## FallColor FactorTRUE
## River_FactorTRUE
## Views_FactorTRUE
## Wildlife_FactorTRUE
## Wildflowers_FactorTRUE
## Birding_FactorTRUE
## Lake_FactorTRUE
                                          **
## GeoSig_FactorTRUE
                                          **
## NoFeature_FactorTRUE
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
```

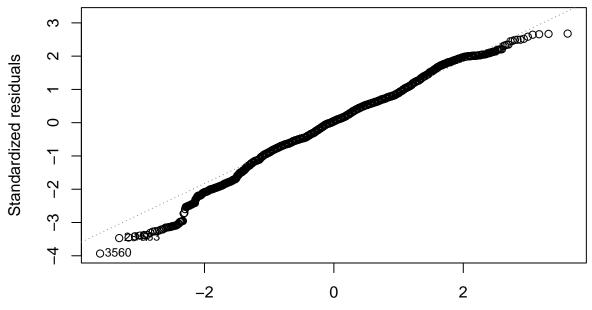
```
## Residual standard error: 0.7907 on 3278 degrees of freedom
## Multiple R-squared: 0.1694, Adjusted R-squared: 0.1623
## F-statistic: 23.88 on 28 and 3278 DF, p-value: < 2.2e-16</pre>
```

plot(model.one)

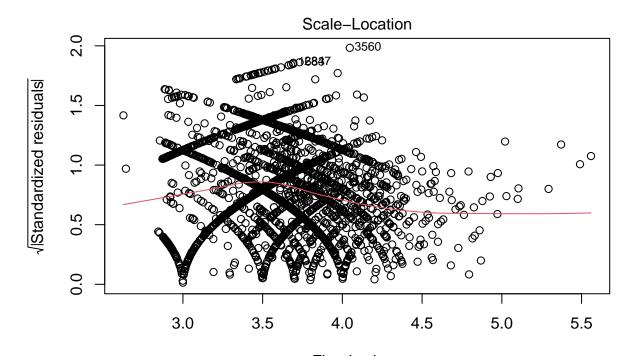
Residuals vs Fitted



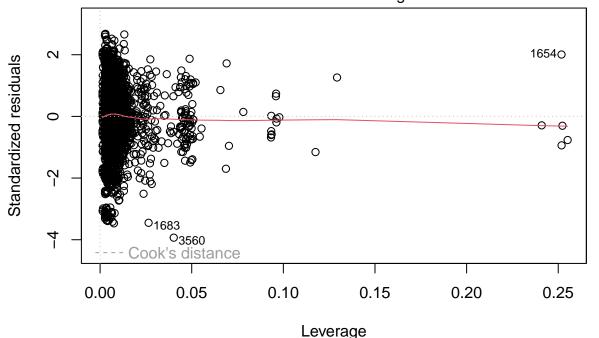
Fitted values
Im(TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down ...
Normal Q-Q



Theoretical Quantiles
Im(TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down ...



Fitted values
Im(TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down ...
Residuals vs Leverage



Im(TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down ...

Conduct a best subset regression.

```
fmla <-as.formula("TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down + GradeAvg
x<-model.matrix(fmla, data=trail.minus)
y<-trail.minus$TrailRating</pre>
```

```
best<-regsubsets(x=x[,2:ncol(x)], y=y, method="exhaustive", nvmax=50, nbest=1)
best.sum <-summary(best)</pre>
```

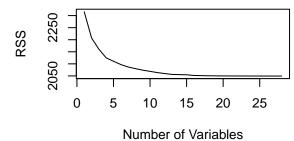
Plot the Summary.

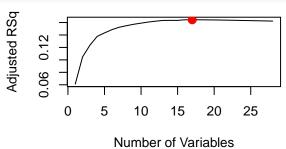
```
par(mfrow = c(2,2))
plot(best.sum$rss, xlab = "Number of Variables", ylab = "RSS", type = "1")
plot(best.sum$adjr2, xlab = "Number of Variables", ylab = "Adjusted RSq", type = "1")
adj_r2_max = which.max(best.sum$adjr2)

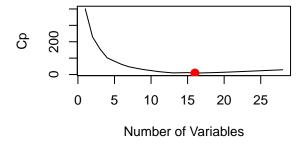
points(adj_r2_max, best.sum$adjr2[adj_r2_max], col ="red", cex = 2, pch = 20)

plot(best.sum$cp, xlab = "Number of Variables", ylab = "Cp", type = "1")
cp_min = which.min(best.sum$cp)
points(cp_min, best.sum$cp(cp_min], col = "red", cex = 2, pch = 20)

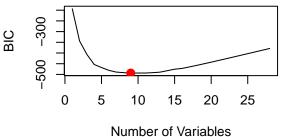
plot(best.sum$bic, xlab = "Number of Variables", ylab = "BIC", type = "1")
bic_min = which.min(best.sum$bic)
points(bic_min, best.sum$bic[bic_min], col = "red", cex = 2, pch = 20)
```







coef(best, best.subset.bic)



Identify the coeffecients of the best subset model with the lowest BIC.

best.subset.bic<-which(summary(best)\$bic==min(summary(best)\$bic))[1]
best.subset.bic
[1] 9</pre>

(Intercept) TrailType_FactorLoop ## 0.23875022

```
##
                     Difficulty_FactorEASY Difficulty_FactorINTERMEDIATE/DIFFICULT
##
                               -0.43688132
                                                                         0.17899758
                                                                            GradeMax
##
                                  GradeAvg
                               -1.52318883
##
                                                                          1.02996049
##
                                UserReview
                                                                 Dogs FactorUnknown
                                0.01867497
##
                                                                        -0.12166156
##
                          River FactorTRUE
                                                                   Views FactorTRUE
##
                                0.12351755
                                                                         0.15103913
Not all the trails have features, removing features from the formula for the best subset regression.
fmla.nf <-as.formula("TrailRating ~ TrailType_Factor + Difficulty_Factor + Elev_Up + Elev_Down + GradeA
x<-model.matrix(fmla.nf, data=trail.minus)</pre>
y<-trail.minus$TrailRating
best.nf <-regsubsets(x=x[,2:ncol(x)], y=y, method="exhaustive", nvmax=30, nbest=1)
summary(best.nf)
## Subset selection object
## 14 Variables (and intercept)
##
                                            Forced in Forced out
## TrailType_FactorLoop
                                               FALSE
                                                           FALSE
## TrailType_FactorOut and Back
                                               FALSE
                                                           FALSE
## TrailType_FactorPoint to Point
                                               FALSE
                                                           FALSE
## TrailType_FactorUnknown
                                               FALSE
                                                           FALSE
## Difficulty_FactorEASY
                                               FALSE
                                                           FALSE
## Difficulty FactorEASY/INTERMEDIATE
                                               FALSE
                                                           FALSE
## Difficulty_FactorINTERMEDIATE
                                               FALSE
                                                           FALSE
## Difficulty_FactorINTERMEDIATE/DIFFICULT
                                               FALSE
                                                           FALSE
## Difficulty_FactorVERY
                                               FALSE
                                                           FALSE
## Elev Up
                                                FALSE
                                                           FALSE
## Elev_Down
                                                FALSE
                                                           FALSE
## GradeAvg
                                                FALSE
                                                           FALSE
## GradeMax
                                                FALSE
                                                           FALSE
## TrailLength
                                                FALSE
                                                           FALSE
## 1 subsets of each size up to 14
## Selection Algorithm: exhaustive
##
             TrailType_FactorLoop TrailType_FactorOut and Back
## 1 (1)
            11 11
## 2 (1)
                                  11 11
## 3 (1)
## 4
     (1)
             11 * 11
## 5 (1)
             "*"
## 6 (1)
            "*"
             "*"
## 7 (1)
## 8 (1)
                                  "*"
## 9 (1)
                                  "*"
             "*"
## 10 (1) "*"
                                  "*"
      (1)"*"
                                   "*"
## 11
       (1)"*"
                                   "*"
## 12
      (1)"*"
                                  "*"
## 13
                                  "*"
## 14
             TrailType_FactorPoint to Point TrailType_FactorUnknown
## 1 (1)
## 2 (1) ""
                                             .. ..
```

```
## 3 (1) ""
                                             11 11
                                             11 11
## 4 (1)
             11 11
     (1)
                                             11 11
## 6 (1)
             11 11
## 7
     (1)
## 8 (1)
## 9 (1)
             11 11
## 10 (1)""
## 11
       (1)""
      (1)"*"
## 12
                                             "*"
## 13
      (1)"*"
                                             "*"
       (1)"*"
                                             "*"
## 14
##
             Difficulty_FactorEASY Difficulty_FactorEASY/INTERMEDIATE
             "*"
## 1 ( 1 )
                                    11 11
## 2 (1)
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             "*"
## 4
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                                    .. ..
                                    11 11
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## 12
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       (1)"*"
                                    "*"
                                    "*"
## 14
       (1)"*"
             Difficulty_FactorINTERMEDIATE Difficulty_FactorINTERMEDIATE/DIFFICULT
## 1 ( 1 )
                                            .. ..
             11 11
## 2 (1)
                                            "*"
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             11 11
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                                            "*"
      (1)"*"
                                            "*"
## 12
                                            "*"
## 13
      (1)"*"
       (1)"*"
                                            "*"
## 14
             Difficulty_FactorVERY Elev_Up Elev_Down GradeAvg GradeMax TrailLength
## 1 (1)
                                            11 11
             11 11
                                    11 11
                                            11 11
                                                      11 11
                                                               "*"
                                                                         11 11
## 2 (1)
                                    11 11
                                                                "*"
     (1)
## 3
                                    11 11
                                            11 11
                                                                         11 11
     (1)
             11 11
                                                      11 11
## 4
                                    "*"
             11 11
                                            11 11
                                                      11 11
                                                                         11 11
## 5
     (1)
                                                                "*"
             11 11
                                    "*"
                                            11 11
                                                      11 11
                                                                "*"
                                                                         11 11
## 6 (1)
                                    "*"
                                            11 11
                                                               "*"
                                                                         11 11
             11 11
                                                      "*"
## 7
     (1)
                                    "*"
                                            11 11
                                                      "*"
                                                                "*"
                                                                         11 11
## 8
     (1)
                                            11 11
                                                                         11 11
             11 11
                                    "*"
                                                      "*"
                                                                "*"
## 9
     (1)
## 10 (1)""
                                    "*"
                                            "*"
                                                      "*"
                                                                "*"
                                                                         11 11
                                                                         11 11
## 11 ( 1 ) " "
                                    "*"
                                            "*"
                                                      "*"
                                                                "*"
```

```
11 11
## 12
       (1)""
                                     "*"
                                              "*"
                                                         11 🕌 11
                                                                  "*"
                                     "*"
                                              "*"
                                                                  "*"
## 13
       (1)"*"
                                                                            "*"
       (1)"*"
                                     11 * 11
                                              "*"
                                                         "*"
                                                                  "*"
## 14
best.nf.sum <- summary(best.nf)</pre>
par(mfrow = c(2,2))
plot(best.nf.sum$rss, xlab = "Number of Variables", ylab = "RSS", type = "l")
plot(best.nf.sum$adjr2, xlab = "Number of Variables", ylab = "Adjusted RSq", type = "1")
adj_r2_max = which.max(best.nf.sum$adjr2) # 11
points(adj_r2_max, best.nf.sum$adjr2[adj_r2_max], col ="red", cex = 2, pch = 20)
plot(best.nf.sum$cp, xlab = "Number of Variables", ylab = "Cp", type = "1")
cp_min = which.min(best.nf.sum$cp) # 10
points(cp_min, best.nf.sum$cp[cp_min], col = "red", cex = 2, pch = 20)
plot(best.nf.sum$bic, xlab = "Number of Variables", ylab = "BIC", type = "1")
bic_min = which.min(best.nf.sum$bic) # 6
points(bic_min, best.nf.sum$bic[bic_min], col = "red", cex = 2, pch = 20)
                                               Adjusted RSq
     2280
                                                    0.09
    2200
            2
                     6
                                                                     6
                 4
                          8
                              10
                                   12
                                                            2
                                                                          8
                                                                              10
                                                                                   12
                                       14
                                                                 4
                                                                                       14
                Number of Variables
                                                                Number of Variables
g
            2
                 4
                     6
                          8
                              10
                                   12
                                                            2
                                                                 4
                                                                     6
                                                                          8
                                                                              10
                                                                                   12
                                                                                       14
                Number of Variables
                                                                Number of Variables
best.nf.subset.bic<-which(summary(best.nf)$bic==min(summary(best.nf)$bic))[1]
best.coef <- coef(best.nf, best.nf.subset.bic)</pre>
best.coef
##
                                 (Intercept)
                                                                  TrailType_FactorLoop
##
                                3.424872e+00
                                                                           3.343777e-01
##
                      Difficulty_FactorEASY Difficulty_FactorINTERMEDIATE/DIFFICULT
##
                               -4.127682e-01
                                                                           2.351059e-01
##
                                     Elev_Up
                                                                               {\tt GradeMax}
```

7.443931e-01

5.665074e-05

##