Movie Lens

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```r
library(tidyverse)
```

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

```
## v ggplot2 3.1.0     v purrr   0.2.5
## v tibble  1.4.2     v dplyr   0.7.8
## v tidyr   0.8.2     v stringr 1.3.1
## v readr   1.3.1     v forcats 0.3.0
```

```
## -- Conflicts ----------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
if(!require(tidyverse)) install.packages("tidyverse", repos = "http://cran.us.r-project.org")
if(!require(caret)) install.packages("caret", repos = "http://cran.us.r-project.org")
```

```
## Loading required package: caret
```

```
## Loading required package: lattice
```

```
##
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
##
##     lift
```

```r
dl <- tempfile()
download.file("http://files.grouplens.org/datasets/movielens/ml-10m.zip", dl)
ratings <- read.table(text = gsub("::", "\t", readLines(unzip(dl, "ml-10M100K/ratings.dat"))),col.names
movies <- str_split_fixed(readLines(unzip(dl, "ml-10M100K/movies.dat")), "\\::", 3)
colnames(movies) <- c("movieId", "title", "genres")
movies <- as.data.frame(movies) %>% mutate(movieId = as.numeric(movieId),title = as.character(title),gen
movielens <- left_join(ratings, movies, by = "movieId")
set.seed(1)
test_index <- createDataPartition(y = movielens$rating, times = 1, p = 0.1, list = FALSE)
edx <- movielens[-test_index,]
temp <- movielens[test_index,]
validation <- temp %>% semi_join(edx, by = "movieId") %>%semi_join(edx, by = "userId")
removed <- anti_join(temp, validation)
```

```
## Joining, by = c("userId", "movieId", "rating", "timestamp", "title", "genres")
```

```r
edx <- rbind(edx, removed)
validation <- validation %>% select(-rating)
```

We will train our algorithm using the inputs in edx to predict movie ratings in the validation set.

We take a brief (head) look at our edx dataset as follows:

```r
head(edx)
```

```
##   userId movieId rating timestamp                         title
```

```
## 1      1     122     5 838985046                           Bird of Prey (1996)
## 2      1     185     5 838983525                              Bad Moon (1996)
## 4      1     292     5 838983421             Arsenic and Old Lace (1944)
## 5      1     316     5 838983392         Some Kind of Wonderful (1987)
## 6      1     329     5 838983392                      Field of Dreams (1989)
## 7      1     355     5 838984474 Amityville II: The Possession (1982)
##                        genres
## 1                       Action
## 2 Action|Adventure|Horror
## 4 Comedy|Mystery|Thriller
## 5           Drama|Romance
## 6                        Drama
## 7                       Horror
```

We take a brief (head) look at our validation dataset as follows:

```
head(validation)
```

```
##    userId movieId timestamp                                                title
## 1      1     231 838983392 Wings of Desire (Der Himmel über Berlin) (1987)
## 2      1     480 838983653                            Guantanamera (1994)
## 3      1     586 838984068                          Late Bloomers (1996)
## 4      2     151 868246450                          Hustler White (1996)
## 5      2     858 868245645                     Player's Club, The (1998)
## 6      2    1544 868245920                         Varsity Blues (1999)
##                             genres
## 1 Comedy|Drama|Fantasy|Romance
## 2                          Comedy
## 3                          Comedy
## 4                         Romance
## 5                   Comedy|Drama
## 6                   Comedy|Drama
```

Now we want to predict ratings column in validation dataset So first we make the model using multiple linear regression:

```
m<-lm(rating~userId+movieId,data=edx)
```

Now we look at the summary of m:

```
summary(m)
```

```
##
## Call:
## lm(formula = rating ~ userId + movieId, data = edx)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.0200 -0.5157  0.4803  0.4899  1.5384
##
## Coefficients:
##               Estimate Std. Error  t value Pr(>|t|)
## (Intercept)  3.511e+00  7.278e-04 4824.285  < 2e-16 ***
## userId       1.208e-07  1.717e-08    7.038 1.95e-12 ***
## movieId     -7.764e-07  3.953e-08  -19.642  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 1.06 on 9000052 degrees of freedom
## Multiple R-squared:  4.822e-05,  Adjusted R-squared:  4.8e-05
## F-statistic:    217 on 2 and 9000052 DF,  p-value: < 2.2e-16
```

Our goal is to predict ratings column in validation dataset A prediction interval reflects the uncertainty around a single value, while a confidence interval reflects the uncertainty around the mean prediction values. Thus, a prediction interval will be generally much wider than a confidence interval for the same value. So therefore we use both prediction interval and confidence interval for prediction of the rating:

```r
predict(m,newdata = validation,interval = "prediction")
```

```
##               fit      lwr      upr
## 1        3.511151 1.432989 5.589314
## 2        3.510958 1.432796 5.589120
## 3        3.510876 1.432714 5.589038
## 4        3.511214 1.433051 5.589376
## 5        3.510665 1.432503 5.588827
## 6        3.510132 1.431970 5.588294
## 7        3.510873 1.432711 5.589035
## 8        3.507453 1.429291 5.585615
## 9        3.511305 1.433143 5.589467
## 10       3.510996 1.432834 5.589158
## 11       3.510994 1.432832 5.589156
## 12       3.511265 1.433103 5.589428
## 13       3.511199 1.433036 5.589361
## 14       3.511151 1.432989 5.589313
## 15       3.511143 1.432981 5.589306
## 16       3.511094 1.432931 5.589256
## 17       3.511063 1.432901 5.589226
## 18       3.510872 1.432709 5.589034
## 19       3.510871 1.432709 5.589033
## 20       3.510617 1.432455 5.588779
## 21       3.510480 1.432317 5.588642
## 22       3.510395 1.432233 5.588557
## 23       3.510365 1.432203 5.588528
## 24       3.510338 1.432175 5.588500
## 25       3.511130 1.432967 5.589292
## 26       3.508416 1.430254 5.586578
## 27       3.507939 1.429777 5.586102
## 28       3.510866 1.432704 5.589029
## 29       3.510630 1.432467 5.588792
## 30       3.510623 1.432461 5.588786
## 31       3.510600 1.432438 5.588762
## 32       3.510392 1.432230 5.588554
## 33       3.510332 1.432169 5.588494
## 34       3.509974 1.431812 5.588137
## 35       3.509472 1.431310 5.587634
## 36       3.509165 1.431002 5.587327
## 37       3.508719 1.430557 5.586881
## 38       3.507060 1.428898 5.585222
## 39       3.507058 1.428895 5.585220
## 40       3.506461 1.428299 5.584624
## 41       3.511307 1.433145 5.589469
## 42       3.511277 1.433115 5.589440
```

```
## 43       3.511213 1.433051 5.589375
## 44       3.511077 1.432915 5.589239
## 45       3.511069 1.432907 5.589231
## 46       3.511058 1.432895 5.589220
## 47       3.510936 1.432774 5.589099
## 48       3.510805 1.432643 5.588968
## 49       3.510558 1.432396 5.588721
## 50       3.510508 1.432346 5.588670
## 51       3.510482 1.432320 5.588645
## 52       3.510392 1.432230 5.588554
## 53       3.510384 1.432222 5.588547
## 54       3.510359 1.432197 5.588521
## 55       3.510350 1.432187 5.588512
## 56       3.510317 1.432155 5.588479
## 57       3.510263 1.432100 5.588425
## 58       3.510099 1.431937 5.588261
## 59       3.510097 1.431935 5.588259
## 60       3.510081 1.431919 5.588243
## 61       3.509964 1.431801 5.588126
## 62       3.509843 1.431680 5.588005
## 63       3.509778 1.431616 5.587940
## 64       3.509775 1.431613 5.587937
## 65       3.509759 1.431597 5.587921
## 66       3.509629 1.431467 5.587791
## 67       3.509600 1.431437 5.587762
## 68       3.509553 1.431391 5.587715
## 69       3.509478 1.431316 5.587641
## 70       3.509353 1.431191 5.587516
## 71       3.509353 1.431190 5.587515
## 72       3.509257 1.431095 5.587419
## 73       3.509249 1.431086 5.587411
## 74       3.509221 1.431058 5.587383
## 75       3.509163 1.431001 5.587326
## 76       3.509156 1.430994 5.587319
## 77       3.509086 1.430923 5.587248
## 78       3.509027 1.430865 5.587190
## 79       3.508987 1.430825 5.587149
## 80       3.508769 1.430607 5.586931
## 81       3.508374 1.430212 5.586537
## 82       3.508332 1.430170 5.586494
## 83       3.508320 1.430158 5.586482
## 84       3.508237 1.430075 5.586399
## 85       3.508225 1.430062 5.586387
## 86       3.508053 1.429891 5.586215
## 87       3.507926 1.429764 5.586088
## 88       3.507880 1.429718 5.586042
## 89       3.507848 1.429686 5.586010
## 90       3.507818 1.429656 5.585980
## 91       3.507776 1.429614 5.585938
## 92       3.507744 1.429582 5.585906
## 93       3.507482 1.429320 5.585645
## 94       3.507467 1.429305 5.585629
## 95       3.507128 1.428966 5.585291
## 96       3.507080 1.428918 5.585243
```

```
## 97     3.507061 1.428899 5.585223
## 98     3.507060 1.428898 5.585222
## 99     3.506923 1.428761 5.585086
## 100    3.506816 1.428654 5.584979
## 101    3.506552 1.428390 5.584715
## 102    3.506255 1.428093 5.584417
## 103    3.506050 1.427888 5.584212
## 104    3.506047 1.427885 5.584209
## 105    3.505984 1.427822 5.584146
## 106    3.505827 1.427665 5.583990
## 107    3.505763 1.427601 5.583925
## 108    3.505291 1.427129 5.583453
## 109    3.504841 1.426678 5.583003
## 110    3.504738 1.426576 5.582900
## 111    3.504386 1.426223 5.582548
## 112    3.504356 1.426194 5.582518
## 113    3.486254 1.408090 5.564417
## 114    3.510377 1.432215 5.588539
## 115    3.510260 1.432098 5.588423
## 116    3.508670 1.430507 5.586832
## 117    3.511329 1.433167 5.589491
## 118    3.510977 1.432815 5.589139
## 119    3.510937 1.432774 5.589099
## 120    3.510912 1.432750 5.589074
## 121    3.510860 1.432698 5.589022
## 122    3.510709 1.432547 5.588871
## 123    3.510394 1.432232 5.588556
## 124    3.510260 1.432097 5.588422
## 125    3.509811 1.431649 5.587973
## 126    3.509757 1.431595 5.587920
## 127    3.509733 1.431571 5.587896
## 128    3.509987 1.431825 5.588150
## 129    3.509465 1.431303 5.587627
## 130    3.509249 1.431087 5.587411
## 131    3.511328 1.433166 5.589490
## 132    3.509022 1.430859 5.587184
## 133    3.508940 1.430778 5.587102
## 134    3.508867 1.430705 5.587029
## 135    3.508780 1.430618 5.586942
## 136    3.508575 1.430412 5.586737
## 137    3.508543 1.430380 5.586705
## 138    3.510393 1.432231 5.588555
## 139    3.510374 1.432212 5.588536
## 140    3.510201 1.432039 5.588363
## 141    3.510124 1.431962 5.588286
## 142    3.509107 1.430945 5.587269
## 143    3.509081 1.430919 5.587243
## 144    3.509023 1.430861 5.587186
## 145    3.508869 1.430707 5.587031
## 146    3.508638 1.430475 5.586800
## 147    3.508554 1.430392 5.586717
## 148    3.508482 1.430320 5.586644
## 149    3.507837 1.429675 5.585999
## 150    3.507787 1.429625 5.585950
```

```
## 151     3.507640 1.429478 5.585802
## 152     3.507548 1.429386 5.585711
## 153     3.507413 1.429251 5.585575
## 154     3.507408 1.429246 5.585570
## 155     3.507211 1.429048 5.585373
## 156     3.507169 1.429006 5.585331
## 157     3.507154 1.428992 5.585316
## 158     3.510926 1.432763 5.589088
## 159     3.510404 1.432242 5.588566
## 160     3.510158 1.431996 5.588320
## 161     3.510022 1.431860 5.588184
## 162     3.509839 1.431677 5.588002
## 163     3.509092 1.430930 5.587254
## 164     3.507157 1.428995 5.585319
## 165     3.506719 1.428557 5.584881
## 166     3.505784 1.427621 5.583946
## 167     3.489823 1.411660 5.567986
## 168     3.479645 1.401481 5.557809
## 169     3.510319 1.432156 5.588481
## 170     3.509806 1.431643 5.587968
## 171     3.510011 1.431849 5.588174
## 172     3.509554 1.431392 5.587716
## 173     3.509277 1.431115 5.587439
## 174     3.508603 1.430441 5.586765
## 175     3.508457 1.430295 5.586619
## 176     3.507446 1.429283 5.585608
## 177     3.511324 1.433162 5.589487
## 178     3.511308 1.433146 5.589470
## 179     3.511205 1.433043 5.589367
## 180     3.511188 1.433026 5.589351
## 181     3.511137 1.432975 5.589299
## 182     3.511087 1.432925 5.589249
## 183     3.511056 1.432894 5.589219
## 184     3.511001 1.432839 5.589164
## 185     3.510959 1.432797 5.589122
## 186     3.510949 1.432787 5.589112
## 187     3.510929 1.432767 5.589091
## 188     3.510764 1.432602 5.588926
## 189     3.510708 1.432546 5.588870
## 190     3.510681 1.432519 5.588844
## 191     3.510484 1.432322 5.588647
## 192     3.510404 1.432242 5.588567
## 193     3.510390 1.432227 5.588552
## 194     3.510386 1.432224 5.588549
## 195     3.510386 1.432223 5.588548
## 196     3.510351 1.432189 5.588513
## 197     3.510343 1.432181 5.588505
## 198     3.510289 1.432127 5.588452
## 199     3.510263 1.432101 5.588425
## 200     3.510084 1.431922 5.588247
## 201     3.510029 1.431866 5.588191
## 202     3.509953 1.431791 5.588115
## 203     3.509816 1.431654 5.587978
## 204     3.509777 1.431615 5.587939
```

```
## 205     3.509337 1.431175 5.587499
## 206     3.509237 1.431074 5.587399
## 207     3.509232 1.431070 5.587394
## 208     3.508988 1.430826 5.587150
## 209     3.508867 1.430705 5.587029
## 210     3.508808 1.430646 5.586970
## 211     3.508806 1.430644 5.586968
## 212     3.508804 1.430642 5.586966
## 213     3.508696 1.430534 5.586859
## 214     3.508502 1.430340 5.586664
## 215     3.508458 1.430296 5.586620
## 216     3.508330 1.430168 5.586492
## 217     3.508245 1.430083 5.586408
## 218     3.508221 1.430059 5.586383
## 219     3.508174 1.430012 5.586336
## 220     3.507794 1.429632 5.585956
## 221     3.507625 1.429463 5.585787
## 222     3.507480 1.429318 5.585642
## 223     3.507100 1.428938 5.585262
## 224     3.506046 1.427884 5.584208
## 225     3.505898 1.427736 5.584061
## 226     3.505893 1.427731 5.584055
## 227     3.505631 1.427468 5.583793
## 228     3.511159 1.432997 5.589321
## 229     3.511116 1.432954 5.589279
## 230     3.511038 1.432876 5.589200
## 231     3.510879 1.432717 5.589041
## 232     3.510878 1.432716 5.589040
## 233     3.510877 1.432715 5.589039
## 234     3.510872 1.432710 5.589034
## 235     3.510870 1.432708 5.589033
## 236     3.510783 1.432620 5.588945
## 237     3.510710 1.432548 5.588873
## 238     3.510635 1.432473 5.588797
## 239     3.510620 1.432457 5.588782
## 240     3.510479 1.432317 5.588641
## 241     3.510390 1.432227 5.588552
## 242     3.510340 1.432178 5.588502
## 243     3.510272 1.432109 5.588434
## 244     3.510251 1.432088 5.588413
## 245     3.511319 1.433156 5.589481
## 246     3.511308 1.433146 5.589471
## 247     3.511057 1.432895 5.589219
## 248     3.510959 1.432797 5.589121
## 249     3.510826 1.432664 5.588989
## 250     3.511295 1.433132 5.589457
## 251     3.511285 1.433123 5.589448
## 252     3.511132 1.432969 5.589294
## 253     3.510876 1.432714 5.589038
## 254     3.510784 1.432622 5.588946
## 255     3.510762 1.432600 5.588924
## 256     3.511330 1.433167 5.589492
## 257     3.510831 1.432669 5.588994
## 258     3.510394 1.432232 5.588556
```

```
## 259     3.511326 1.433164 5.589488
## 260     3.511319 1.433157 5.589481
## 261     3.511190 1.433028 5.589352
## 262     3.510997 1.432835 5.589159
## 263     3.510876 1.432714 5.589038
## 264     3.511256 1.433094 5.589419
## 265     3.510831 1.432669 5.588993
## 266     3.510742 1.432580 5.588905
## 267     3.510725 1.432563 5.588888
## 268     3.510405 1.432243 5.588567
## 269     3.510252 1.432090 5.588414
## 270     3.509491 1.431329 5.587653
## 271     3.509184 1.431022 5.587347
## 272     3.508319 1.430157 5.586481
## 273     3.508318 1.430156 5.586480
## 274     3.508315 1.430153 5.586477
## 275     3.508304 1.430142 5.586466
## 276     3.508254 1.430092 5.586417
## 277     3.511152 1.432990 5.589314
## 278     3.511138 1.432976 5.589300
## 279     3.510873 1.432711 5.589035
## 280     3.510540 1.432378 5.588702
## 281     3.510366 1.432204 5.588528
## 282     3.510299 1.432137 5.588462
## 283     3.510763 1.432601 5.588926
## 284     3.510727 1.432565 5.588889
## 285     3.511334 1.433172 5.589496
## 286     3.511315 1.433153 5.589478
## 287     3.511312 1.433150 5.589475
## 288     3.511261 1.433099 5.589423
## 289     3.511232 1.433070 5.589395
## 290     3.511212 1.433050 5.589374
## 291     3.511211 1.433048 5.589373
## 292     3.511128 1.432966 5.589291
## 293     3.511089 1.432926 5.589251
## 294     3.511064 1.432902 5.589226
## 295     3.511050 1.432888 5.589212
## 296     3.511042 1.432880 5.589204
## 297     3.510992 1.432829 5.589154
## 298     3.510947 1.432784 5.589109
## 299     3.510945 1.432783 5.589107
## 300     3.510934 1.432772 5.589096
## 301     3.510877 1.432714 5.589039
## 302     3.510763 1.432601 5.588926
## 303     3.510727 1.432565 5.588889
## 304     3.510692 1.432530 5.588854
## 305     3.510688 1.432526 5.588850
## 306     3.510556 1.432394 5.588718
## 307     3.510547 1.432385 5.588709
## 308     3.510502 1.432340 5.588664
## 309     3.510485 1.432322 5.588647
## 310     3.510387 1.432225 5.588549
## 311     3.510348 1.432186 5.588510
## 312     3.510136 1.431974 5.588298
```

```
## 313     3.510114 1.431951 5.588276
## 314     3.509954 1.431791 5.588116
## 315     3.509950 1.431788 5.588112
## 316     3.509874 1.431711 5.588036
## 317     3.509853 1.431690 5.588015
## 318     3.509849 1.431687 5.588011
## 319     3.509685 1.431523 5.587847
## 320     3.509586 1.431423 5.587748
## 321     3.509420 1.431257 5.587582
## 322     3.509334 1.431172 5.587496
## 323     3.509331 1.431169 5.587493
## 324     3.509234 1.431072 5.587396
## 325     3.509229 1.431066 5.587391
## 326     3.509191 1.431029 5.587353
## 327     3.509157 1.430995 5.587319
## 328     3.509152 1.430989 5.587314
## 329     3.509140 1.430978 5.587302
## 330     3.509103 1.430941 5.587265
## 331     3.509038 1.430875 5.587200
## 332     3.508990 1.430828 5.587152
## 333     3.508964 1.430802 5.587126
## 334     3.508869 1.430707 5.587031
## 335     3.508868 1.430705 5.587030
## 336     3.508840 1.430678 5.587003
## 337     3.508805 1.430642 5.586967
## 338     3.508794 1.430632 5.586956
## 339     3.508773 1.430611 5.586935
## 340     3.508640 1.430478 5.586802
## 341     3.508630 1.430468 5.586792
## 342     3.508590 1.430427 5.586752
## 343     3.508492 1.430330 5.586654
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## 1608    3.510035 1.431873 5.588198
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## 2036    3.511075 1.432913 5.589237
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## 4956    3.511081 1.432919 5.589243
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## 6198   3.507281 1.429119 5.585443
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## 12801   3.509698 1.431536 5.587860
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## 18992   3.509293 1.431131 5.587455
## 18993   3.509185 1.431023 5.587347
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## 18995   3.507635 1.429473 5.585798
## 18996   3.507023 1.428861 5.585185
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## 19006   3.511227 1.433065 5.589389
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## 19008   3.510586 1.432424 5.588748
## 19009   3.510573 1.432411 5.588736
## 19010   3.510563 1.432401 5.588725
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## 19050   3.511280 1.433118 5.589442
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## 19212   3.510557 1.432395 5.588719
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## 19406   3.511248 1.433086 5.589410
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## 19408   3.511239 1.433077 5.589401
## 19409   3.511231 1.433069 5.589393
## 19410   3.511202 1.433039 5.589364
## 19411   3.511164 1.433002 5.589327
## 19412   3.511112 1.432950 5.589275
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## 19414   3.511094 1.432931 5.589256
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## 19416   3.511062 1.432900 5.589224
## 19417   3.510910 1.432748 5.589073
## 19418   3.510893 1.432731 5.589056
## 19419   3.510744 1.432582 5.588907
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## 19421   3.510707 1.432545 5.588869
## 19422   3.510588 1.432425 5.588750
## 19423   3.510530 1.432368 5.588692
## 19424   3.510397 1.432235 5.588560
## 19425   3.510331 1.432168 5.588493
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## 19427   3.511234 1.433071 5.589396
## 19428   3.510588 1.432425 5.588750
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## 19437  3.510797 1.432635 5.588960
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## 19439  3.510765 1.432603 5.588927
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## 19465  3.509870 1.431707 5.588032
## 19466  3.509629 1.431467 5.587791
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## 19479  3.509065 1.430903 5.587228
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## 24773   3.508077 1.429915 5.586240
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## 27258   3.511126 1.432963 5.589288
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## 27690  3.509781 1.431619 5.587943
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## 27906  3.509374 1.431212 5.587536
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## 33027  3.507781 1.429619 5.585944
## 33028  3.507468 1.429306 5.585630
## 33029  3.506300 1.428138 5.584462
## 33030  3.506100 1.427938 5.584262
## 33031  3.477331 1.399167 5.555496
## 33032  3.510976 1.432814 5.589139
## 33033  3.510068 1.431906 5.588230
## 33034  3.509267 1.431105 5.587429
## 33035  3.506253 1.428091 5.584415
## 33036  3.511642 1.433480 5.589804
```

```
## 33037  3.511623 1.433461 5.589785
## 33038  3.511608 1.433445 5.589770
## 33039  3.511464 1.433302 5.589626
## 33040  3.511398 1.433236 5.589560
## 33041  3.511397 1.433235 5.589559
## 33042  3.511362 1.433200 5.589524
## 33043  3.511350 1.433188 5.589512
## 33044  3.511328 1.433166 5.589490
## 33045  3.511282 1.433120 5.589445
## 33046  3.511266 1.433104 5.589428
## 33047  3.511250 1.433088 5.589413
## 33048  3.511224 1.433062 5.589386
## 33049  3.511179 1.433017 5.589341
## 33050  3.511171 1.433008 5.589333
## 33051  3.511084 1.432922 5.589247
## 33052  3.511071 1.432909 5.589233
## 33053  3.510939 1.432777 5.589101
## 33054  3.510922 1.432760 5.589084
## 33055  3.510791 1.432629 5.588953
## 33056  3.510712 1.432550 5.588875
## 33057  3.510672 1.432510 5.588834
## 33058  3.510629 1.432467 5.588792
## 33059  3.510579 1.432417 5.588741
## 33060  3.510574 1.432411 5.588736
## 33061  3.511585 1.433423 5.589747
## 33062  3.511581 1.433419 5.589744
## 33063  3.511136 1.432974 5.589298
## 33064  3.511074 1.432911 5.589236
## 33065  3.511051 1.432889 5.589213
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## 33072  3.511387 1.433225 5.589550
## 33073  3.511262 1.433100 5.589425
## 33074  3.511039 1.432877 5.589201
## 33075  3.510941 1.432779 5.589103
## 33076  3.510838 1.432676 5.589001
## 33077  3.510819 1.432657 5.588981
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## 33079  3.510717 1.432554 5.588879
## 33080  3.510714 1.432552 5.588876
## 33081  3.510711 1.432549 5.588873
## 33082  3.510703 1.432541 5.588866
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## 33084  3.510689 1.432527 5.588852
## 33085  3.510675 1.432512 5.588837
## 33086  3.510655 1.432493 5.588817
## 33087  3.510652 1.432490 5.588814
## 33088  3.510646 1.432484 5.588808
## 33089  3.510366 1.432204 5.588528
## 33090  3.510363 1.432201 5.588526
```

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## 33091   3.510314 1.432152 5.588477
## 33092   3.510241 1.432079 5.588404
## 33093   3.510161 1.431999 5.588323
## 33094   3.510155 1.431992 5.588317
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## 33098   3.509864 1.431702 5.588026
## 33099   3.509727 1.431565 5.587889
## 33100   3.509647 1.431485 5.587809
## 33101   3.509615 1.431453 5.587777
## 33102   3.509526 1.431364 5.587689
## 33103   3.509325 1.431163 5.587488
## 33104   3.509299 1.431137 5.587461
## 33105   3.511617 1.433454 5.589779
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## 33107   3.511366 1.433204 5.589528
## 33108   3.510943 1.432780 5.589105
## 33109   3.510938 1.432776 5.589100
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## 33111   3.510904 1.432742 5.589066
## 33112   3.510902 1.432740 5.589064
## 33113   3.510855 1.432693 5.589017
## 33114   3.510835 1.432673 5.588997
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## 33116   3.510714 1.432552 5.588877
## 33117   3.510709 1.432547 5.588871
## 33118   3.510671 1.432509 5.588833
## 33119   3.510662 1.432500 5.588825
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## 33121   3.510575 1.432413 5.588738
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## 33123   3.510425 1.432263 5.588587
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## 33125   3.510337 1.432175 5.588499
## 33126   3.510229 1.432067 5.588391
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## 33129   3.509896 1.431734 5.588058
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## 33131   3.509800 1.431638 5.587962
## 33132   3.509774 1.431612 5.587936
## 33133   3.509773 1.431611 5.587936
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## 33137   3.509558 1.431395 5.587720
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## 33139   3.509196 1.431034 5.587358
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## 33141   3.508988 1.430826 5.587150
## 33142   3.508923 1.430760 5.587085
## 33143   3.508822 1.430660 5.586985
## 33144   3.508686 1.430524 5.586848
```

```
## 33145  3.508550 1.430388 5.586712
## 33146  3.508308 1.430146 5.586470
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## 33153  3.506208 1.428045 5.584370
## 33154  3.506088 1.427926 5.584250
## 33155  3.506074 1.427912 5.584236
## 33156  3.505902 1.427740 5.584064
## 33157  3.505663 1.427501 5.583826
## 33158  3.505571 1.427409 5.583733
## 33159  3.505050 1.426888 5.583212
## 33160  3.504989 1.426827 5.583151
## 33161  3.504955 1.426793 5.583118
## 33162  3.490943 1.412780 5.569106
## 33163  3.511376 1.433214 5.589538
## 33164  3.511267 1.433105 5.589429
## 33165  3.511180 1.433018 5.589343
## 33166  3.510852 1.432690 5.589014
## 33167  3.510850 1.432687 5.589012
## 33168  3.510846 1.432684 5.589008
## 33169  3.511612 1.433450 5.589774
## 33170  3.511207 1.433045 5.589369
## 33171  3.511167 1.433005 5.589329
## 33172  3.510846 1.432684 5.589008
## 33173  3.510098 1.431935 5.588260
## 33174  3.509539 1.431377 5.587702
## 33175  3.511225 1.433063 5.589387
## 33176  3.510609 1.432446 5.588771
## 33177  3.510450 1.432288 5.588612
## 33178  3.510129 1.431967 5.588291
## 33179  3.509858 1.431696 5.588020
## 33180  3.509701 1.431539 5.587863
## 33181  3.509535 1.431373 5.587697
## 33182  3.508447 1.430285 5.586609
## 33183  3.508191 1.430029 5.586353
## 33184  3.507905 1.429743 5.586067
## 33185  3.507865 1.429703 5.586027
## 33186  3.507850 1.429688 5.586012
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## 33188  3.509226 1.431064 5.587388
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## 33191  3.511184 1.433022 5.589346
## 33192  3.510789 1.432627 5.588951
## 33193  3.510702 1.432540 5.588864
## 33194  3.510681 1.432519 5.588843
## 33195  3.510491 1.432329 5.588653
## 33196  3.510082 1.431920 5.588245
## 33197  3.509200 1.431038 5.587363
## 33198  3.508554 1.430392 5.586716
```

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## 33199   3.508363 1.430201 5.586525
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## 33207   3.486344 1.408181 5.564508
## 33208   3.483284 1.405120 5.561448
## 33209   3.473386 1.395221 5.551551
## 33210   3.511235 1.433072 5.589397
## 33211   3.510891 1.432729 5.589054
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## 33218   3.511397 1.433235 5.589559
## 33219   3.510711 1.432549 5.588874
## 33220   3.509604 1.431441 5.587766
## 33221   3.508831 1.430669 5.586993
## 33222   3.508736 1.430574 5.586899
## 33223   3.508306 1.430144 5.586469
## 33224   3.507905 1.429743 5.586067
## 33225   3.511349 1.433187 5.589511
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## 33233   3.469499 1.391333 5.547664
## 33234   3.511619 1.433457 5.589781
## 33235   3.511593 1.433431 5.589755
## 33236   3.511583 1.433421 5.589745
## 33237   3.511566 1.433404 5.589729
## 33238   3.509863 1.431701 5.588025
## 33239   3.509829 1.431667 5.587991
## 33240   3.509784 1.431622 5.587946
## 33241   3.511635 1.433473 5.589797
## 33242   3.511627 1.433465 5.589789
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## 33244   3.511572 1.433410 5.589734
## 33245   3.511532 1.433370 5.589694
## 33246   3.511453 1.433291 5.589616
## 33247   3.511453 1.433290 5.589615
## 33248   3.511431 1.433269 5.589593
## 33249   3.511428 1.433266 5.589590
## 33250   3.511385 1.433223 5.589547
## 33251   3.511384 1.433222 5.589546
## 33252   3.511357 1.433195 5.589519
```

```
## 33253   3.511356 1.433193 5.589518
## 33254   3.511347 1.433185 5.589509
## 33255   3.511330 1.433168 5.589492
## 33256   3.511326 1.433164 5.589488
## 33257   3.511321 1.433158 5.589483
## 33258   3.511318 1.433156 5.589480
## 33259   3.511313 1.433151 5.589475
## 33260   3.511277 1.433115 5.589439
## 33261   3.511266 1.433104 5.589428
## 33262   3.511241 1.433079 5.589404
## 33263   3.511190 1.433028 5.589352
## 33264   3.511189 1.433027 5.589352
## 33265   3.511181 1.433019 5.589343
## 33266   3.511175 1.433012 5.589337
## 33267   3.511116 1.432953 5.589278
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## 33274   3.510934 1.432772 5.589096
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## 33276   3.510794 1.432632 5.588956
## 33277   3.510790 1.432627 5.588952
## 33278   3.510787 1.432625 5.588949
## 33279   3.510769 1.432606 5.588931
## 33280   3.510724 1.432562 5.588887
## 33281   3.510708 1.432546 5.588870
## 33282   3.510706 1.432544 5.588868
## 33283   3.510696 1.432533 5.588858
## 33284   3.510684 1.432522 5.588846
## 33285   3.510636 1.432474 5.588798
## 33286   3.510612 1.432450 5.588774
## 33287   3.510580 1.432418 5.588742
## 33288   3.510575 1.432413 5.588738
## 33289   3.510574 1.432412 5.588736
## 33290   3.510512 1.432350 5.588675
## 33291   3.510510 1.432348 5.588672
## 33292   3.510508 1.432346 5.588670
## 33293   3.510489 1.432327 5.588651
## 33294   3.510400 1.432238 5.588562
## 33295   3.510391 1.432229 5.588554
## 33296   3.510370 1.432208 5.588533
## 33297   3.510294 1.432132 5.588456
## 33298   3.510223 1.432061 5.588385
## 33299   3.510190 1.432028 5.588352
## 33300   3.510183 1.432021 5.588345
## 33301   3.510117 1.431955 5.588279
## 33302   3.510087 1.431925 5.588249
## 33303   3.510073 1.431911 5.588235
## 33304   3.510041 1.431879 5.588203
## 33305   3.510037 1.431874 5.588199
## 33306   3.510019 1.431857 5.588182
```

```
## 33307   3.510001 1.431839 5.588163
## 33308   3.510000 1.431838 5.588162
## 33309   3.509947 1.431785 5.588109
## 33310   3.509942 1.431780 5.588104
## 33311   3.509908 1.431745 5.588070
## 33312   3.509891 1.431728 5.588053
## 33313   3.509889 1.431727 5.588051
## 33314   3.509887 1.431725 5.588049
## 33315   3.509867 1.431704 5.588029
## 33316   3.509863 1.431701 5.588026
## 33317   3.509856 1.431694 5.588019
## 33318   3.509837 1.431675 5.587999
## 33319   3.509794 1.431631 5.587956
## 33320   3.509759 1.431597 5.587922
## 33321   3.509706 1.431544 5.587868
## 33322   3.509689 1.431527 5.587851
## 33323   3.509636 1.431474 5.587798
## 33324   3.509621 1.431459 5.587783
## 33325   3.509613 1.431451 5.587776
## 33326   3.509525 1.431363 5.587687
## 33327   3.509524 1.431362 5.587686
## 33328   3.509511 1.431349 5.587673
## 33329   3.509384 1.431221 5.587546
## 33330   3.509381 1.431218 5.587543
## 33331   3.509380 1.431218 5.587542
## 33332   3.509379 1.431217 5.587541
## 33333   3.509357 1.431195 5.587519
##  [ reached getOption("max.print") -- omitted 966666 rows ]
```

```r
predict(m,newdata = validation,interval = "confidence")
```

```
##              fit      lwr      upr
## 1       3.511151 3.509729 3.512574
## 2       3.510958 3.509539 3.512377
## 3       3.510876 3.509459 3.512293
## 4       3.511214 3.509790 3.512638
## 5       3.510665 3.509251 3.512078
## 6       3.510132 3.508727 3.511537
## 7       3.510873 3.509456 3.512290
## 8       3.507453 3.506060 3.508847
## 9       3.511305 3.509879 3.512731
## 10      3.510996 3.509576 3.512415
## 11      3.510994 3.509575 3.512414
## 12      3.511265 3.509840 3.512690
## 13      3.511199 3.509775 3.512622
## 14      3.511151 3.509729 3.512574
## 15      3.511143 3.509721 3.512566
## 16      3.511094 3.509672 3.512515
## 17      3.511063 3.509643 3.512484
## 18      3.510872 3.509455 3.512289
## 19      3.510871 3.509454 3.512288
## 20      3.510617 3.509205 3.512029
## 21      3.510480 3.509069 3.511890
## 22      3.510395 3.508986 3.511804
## 23      3.510365 3.508957 3.511774
```

```
## 24      3.510338 3.508930 3.511745
## 25      3.511130 3.509707 3.512552
## 26      3.508416 3.507024 3.509808
## 27      3.507939 3.506548 3.509331
## 28      3.510866 3.509450 3.512283
## 29      3.510630 3.509217 3.512042
## 30      3.510623 3.509211 3.512036
## 31      3.510600 3.509188 3.512012
## 32      3.510392 3.508983 3.511801
## 33      3.510332 3.508924 3.511739
## 34      3.509974 3.508572 3.511377
## 35      3.509472 3.508075 3.510870
## 36      3.509165 3.507770 3.510560
## 37      3.508719 3.507327 3.510112
## 38      3.507060 3.505664 3.508456
## 39      3.507058 3.505662 3.508454
## 40      3.506461 3.505059 3.507864
## 41      3.511307 3.509881 3.512733
## 42      3.511277 3.509852 3.512702
## 43      3.511213 3.509789 3.512637
## 44      3.511077 3.509656 3.512498
## 45      3.511069 3.509648 3.512490
## 46      3.511058 3.509637 3.512478
## 47      3.510936 3.509518 3.512355
## 48      3.510805 3.509390 3.512221
## 49      3.510558 3.509147 3.511970
## 50      3.510508 3.509097 3.511918
## 51      3.510482 3.509072 3.511892
## 52      3.510392 3.508984 3.511801
## 53      3.510384 3.508976 3.511793
## 54      3.510359 3.508951 3.511767
## 55      3.510350 3.508942 3.511758
## 56      3.510317 3.508909 3.511724
## 57      3.510263 3.508856 3.511669
## 58      3.510099 3.508694 3.511503
## 59      3.510097 3.508693 3.511502
## 60      3.510081 3.508677 3.511485
## 61      3.509964 3.508561 3.511366
## 62      3.509843 3.508441 3.511244
## 63      3.509778 3.508378 3.511179
## 64      3.509775 3.508375 3.511175
## 65      3.509759 3.508359 3.511159
## 66      3.509629 3.508230 3.511028
## 67      3.509600 3.508201 3.510998
## 68      3.509553 3.508155 3.510951
## 69      3.509478 3.508081 3.510876
## 70      3.509353 3.507957 3.510750
## 71      3.509353 3.507956 3.510749
## 72      3.509257 3.507862 3.510653
## 73      3.509249 3.507853 3.510644
## 74      3.509221 3.507825 3.510616
## 75      3.509163 3.507768 3.510558
## 76      3.509156 3.507761 3.510551
## 77      3.509086 3.507691 3.510480
```

```
## 78       3.509027 3.507633 3.510421
## 79       3.508987 3.507593 3.510381
## 80       3.508769 3.507376 3.510162
## 81       3.508374 3.506983 3.509766
## 82       3.508332 3.506940 3.509723
## 83       3.508320 3.506929 3.509712
## 84       3.508237 3.506846 3.509629
## 85       3.508225 3.506833 3.509616
## 86       3.508053 3.506662 3.509445
## 87       3.507926 3.506534 3.509317
## 88       3.507880 3.506488 3.509272
## 89       3.507848 3.506456 3.509240
## 90       3.507818 3.506426 3.509210
## 91       3.507776 3.506384 3.509168
## 92       3.507744 3.506352 3.509136
## 93       3.507482 3.506089 3.508876
## 94       3.507467 3.506074 3.508860
## 95       3.507128 3.505733 3.508524
## 96       3.507080 3.505684 3.508476
## 97       3.507061 3.505665 3.508457
## 98       3.507060 3.505664 3.508456
## 99       3.506923 3.505526 3.508321
## 100      3.506816 3.505418 3.508215
## 101      3.506552 3.505151 3.507953
## 102      3.506255 3.504850 3.507660
## 103      3.506050 3.504642 3.507458
## 104      3.506047 3.504639 3.507455
## 105      3.505984 3.504575 3.507393
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## 107      3.505763 3.504350 3.507175
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## 110      3.504738 3.503305 3.506172
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## 112      3.504356 3.502913 3.505799
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## 1789    3.509258 3.507867 3.510650
## 1790    3.509239 3.507848 3.510631
## 1791    3.509204 3.507813 3.510595
## 1792    3.509084 3.507694 3.510474
## 1793    3.509078 3.507688 3.510468
## 1794    3.509029 3.507639 3.510419
## 1795    3.508948 3.507559 3.510338
## 1796    3.508935 3.507546 3.510325
## 1797    3.508826 3.507437 3.510215
## 1798    3.508807 3.507418 3.510196
## 1799    3.508798 3.507409 3.510187
## 1800    3.508671 3.507283 3.510059
## 1801    3.508639 3.507251 3.510028
## 1802    3.508403 3.507016 3.509791
## 1803    3.508282 3.506895 3.509670
## 1804    3.508236 3.506848 3.509623
## 1805    3.508222 3.506834 3.509609
```

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## 1806    3.507942 3.506554 3.509330
## 1807    3.507840 3.506452 3.509228
## 1808    3.507640 3.506252 3.509029
## 1809    3.507571 3.506182 3.508960
## 1810    3.507410 3.506021 3.508800
## 1811    3.507277 3.505886 3.508667
## 1812    3.506947 3.505554 3.508340
## 1813    3.505893 3.504486 3.507299
## 1814    3.505626 3.504214 3.507037
## 1815    3.505574 3.504161 3.506986
## 1816    3.505469 3.504055 3.506883
## 1817    3.505369 3.503953 3.506785
## 1818    3.505285 3.503867 3.506703
## 1819    3.505221 3.503802 3.506640
## 1820    3.504643 3.503211 3.506076
## 1821    3.482054 3.479098 3.485009
## 1822    3.511125 3.509707 3.512542
## 1823    3.510892 3.509479 3.512305
## 1824    3.511142 3.509724 3.512560
## 1825    3.511121 3.509704 3.512539
## 1826    3.511064 3.509647 3.512480
## 1827    3.510386 3.508982 3.511790
## 1828    3.510366 3.508962 3.511770
## 1829    3.510363 3.508959 3.511767
## 1830    3.510019 3.508620 3.511418
## 1831    3.509714 3.508319 3.511110
## 1832    3.509570 3.508176 3.510964
## 1833    3.511346 3.509924 3.512769
## 1834    3.511345 3.509923 3.512767
## 1835    3.511331 3.509909 3.512753
## 1836    3.511262 3.509841 3.512682
## 1837    3.511077 3.509660 3.512494
## 1838    3.511072 3.509656 3.512489
## 1839    3.511006 3.509590 3.512421
## 1840    3.510972 3.509558 3.512387
## 1841    3.510116 3.508715 3.511516
## 1842    3.510099 3.508699 3.511499
## 1843    3.509507 3.508114 3.510901
## 1844    3.509468 3.508075 3.510861
## 1845    3.509257 3.507866 3.510648
## 1846    3.509169 3.507779 3.510560
## 1847    3.508445 3.507058 3.509833
## 1848    3.508213 3.506826 3.509600
## 1849    3.508177 3.506790 3.509565
## 1850    3.507835 3.506447 3.509223
## 1851    3.507748 3.506360 3.509136
## 1852    3.507349 3.505959 3.508739
## 1853    3.507003 3.505611 3.508396
## 1854    3.506838 3.505444 3.508232
## 1855    3.506725 3.505329 3.508120
## 1856    3.506468 3.505070 3.507866
## 1857    3.506393 3.504994 3.507792
## 1858    3.505955 3.504550 3.507361
## 1859    3.511308 3.509887 3.512730
```

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## 1860    3.511110 3.509692 3.512527
## 1861    3.511072 3.509656 3.512489
## 1862    3.510940 3.509526 3.512354
## 1863    3.510686 3.509277 3.512095
## 1864    3.510555 3.509149 3.511962
## 1865    3.509734 3.508338 3.511130
## 1866    3.509331 3.507939 3.510723
## 1867    3.510889 3.509477 3.512302
## 1868    3.510861 3.509449 3.512274
## 1869    3.510504 3.509098 3.511910
## 1870    3.510282 3.508880 3.511685
## 1871    3.510131 3.508730 3.511531
## 1872    3.510114 3.508714 3.511514
## 1873    3.510072 3.508672 3.511472
## 1874    3.510066 3.508666 3.511465
## 1875    3.510037 3.508638 3.511436
## 1876    3.509060 3.507670 3.510449
## 1877    3.509027 3.507637 3.510417
## 1878    3.508956 3.507567 3.510346
## 1879    3.508628 3.507240 3.510016
## 1880    3.508611 3.507223 3.509999
## 1881    3.508478 3.507091 3.509866
## 1882    3.507515 3.506126 3.508904
## 1883    3.509309 3.507917 3.510700
## 1884    3.508401 3.507013 3.509788
## 1885    3.511216 3.509796 3.512635
## 1886    3.511119 3.509702 3.512537
## 1887    3.511078 3.509662 3.512495
## 1888    3.511006 3.509591 3.512421
## 1889    3.510877 3.509465 3.512290
## 1890    3.510498 3.509092 3.511904
## 1891    3.510419 3.509015 3.511824
## 1892    3.510373 3.508969 3.511777
## 1893    3.510272 3.508870 3.511675
## 1894    3.510172 3.508771 3.511573
## 1895    3.510114 3.508714 3.511514
## 1896    3.509888 3.508491 3.511285
## 1897    3.509715 3.508320 3.511110
## 1898    3.509616 3.508222 3.511011
## 1899    3.509248 3.507857 3.510640
## 1900    3.509241 3.507850 3.510632
## 1901    3.509023 3.507633 3.510412
## 1902    3.508178 3.506791 3.509565
## 1903    3.508144 3.506757 3.509532
## 1904    3.507957 3.506569 3.509344
## 1905    3.507673 3.506285 3.509061
## 1906    3.507555 3.506166 3.508944
## 1907    3.507079 3.505687 3.508470
## 1908    3.506766 3.505372 3.508161
## 1909    3.506433 3.505034 3.507831
## 1910    3.506271 3.504871 3.507672
## 1911    3.506180 3.504778 3.507581
## 1912    3.506107 3.504704 3.507510
## 1913    3.505565 3.504153 3.506977
```

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## 1914    3.505411 3.503996 3.506826
## 1915    3.505262 3.503844 3.506680
## 1916    3.511325 3.509903 3.512746
## 1917    3.510892 3.509479 3.512305
## 1918    3.510467 3.509062 3.511873
## 1919    3.509856 3.508460 3.511253
## 1920    3.509541 3.508148 3.510935
## 1921    3.509523 3.508129 3.510916
## 1922    3.509254 3.507863 3.510645
## 1923    3.508980 3.507591 3.510369
## 1924    3.508572 3.507184 3.509959
## 1925    3.506729 3.505333 3.508124
## 1926    3.505007 3.503584 3.506431
## 1927    3.511344 3.509922 3.512766
## 1928    3.511269 3.509848 3.512689
## 1929    3.511241 3.509821 3.512661
## 1930    3.510853 3.509441 3.512265
## 1931    3.510800 3.509389 3.512211
## 1932    3.510744 3.509334 3.512154
## 1933    3.510739 3.509329 3.512149
## 1934    3.511349 3.509927 3.512771
## 1935    3.511292 3.509871 3.512713
## 1936    3.511245 3.509825 3.512665
## 1937    3.510744 3.509334 3.512154
## 1938    3.510706 3.509297 3.512115
## 1939    3.510700 3.509291 3.512109
## 1940    3.510259 3.508857 3.511661
## 1941    3.511333 3.509912 3.512755
## 1942    3.511224 3.509805 3.512643
## 1943    3.511015 3.509600 3.512430
## 1944    3.511008 3.509593 3.512423
## 1945    3.511005 3.509590 3.512420
## 1946    3.510855 3.509443 3.512267
## 1947    3.510552 3.509145 3.511958
## 1948    3.509838 3.508442 3.511235
## 1949    3.509737 3.508341 3.511132
## 1950    3.508626 3.507239 3.510014
## 1951    3.508492 3.507105 3.509879
## 1952    3.510421 3.509017 3.511826
## 1953    3.510297 3.508895 3.511700
## 1954    3.509645 3.508251 3.511040
## 1955    3.509485 3.508092 3.510878
## 1956    3.509318 3.507927 3.510710
## 1957    3.509131 3.507741 3.510521
## 1958    3.508474 3.507086 3.509861
## 1959    3.508248 3.506861 3.509635
## 1960    3.507700 3.506312 3.509088
## 1961    3.507225 3.505835 3.508616
## 1962    3.506932 3.505539 3.508325
## 1963    3.506571 3.505174 3.507967
## 1964    3.511103 3.509687 3.512520
## 1965    3.510930 3.509517 3.512343
## 1966    3.510890 3.509477 3.512302
## 1967    3.510878 3.509466 3.512290
```

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## 1968    3.510725 3.509316 3.512135
## 1969    3.510599 3.509191 3.512006
## 1970    3.510408 3.509003 3.511812
## 1971    3.510361 3.508958 3.511765
## 1972    3.509546 3.508152 3.510939
## 1973    3.509318 3.507927 3.510710
## 1974    3.509186 3.507795 3.510576
## 1975    3.509085 3.507695 3.510474
## 1976    3.508883 3.507494 3.510272
## 1977    3.507422 3.506033 3.508811
## 1978    3.506861 3.505468 3.508255
## 1979    3.506399 3.505001 3.507798
## 1980    3.485727 3.483090 3.488365
## 1981    3.511068 3.509652 3.512484
## 1982    3.510981 3.509567 3.512396
## 1983    3.510304 3.508901 3.511706
## 1984    3.509354 3.507963 3.510746
## 1985    3.509267 3.507876 3.510658
## 1986    3.508007 3.506620 3.509394
## 1987    3.507557 3.506168 3.508945
## 1988    3.507198 3.505807 3.508588
## 1989    3.505805 3.504397 3.507212
## 1990    3.511338 3.509916 3.512760
## 1991    3.511333 3.509912 3.512755
## 1992    3.511171 3.509753 3.512589
## 1993    3.511138 3.509721 3.512556
## 1994    3.510941 3.509528 3.512355
## 1995    3.510923 3.509509 3.512336
## 1996    3.510894 3.509481 3.512306
## 1997    3.510892 3.509480 3.512305
## 1998    3.511232 3.509812 3.512651
## 1999    3.511216 3.509797 3.512635
## 2000    3.511080 3.509663 3.512496
## 2001    3.511007 3.509593 3.512422
## 2002    3.510941 3.509528 3.512355
## 2003    3.510890 3.509478 3.512303
## 2004    3.509242 3.507851 3.510633
## 2005    3.509236 3.507845 3.510626
## 2006    3.509206 3.507815 3.510596
## 2007    3.510546 3.509140 3.511953
## 2008    3.510499 3.509094 3.511905
## 2009    3.507144 3.505753 3.508535
## 2010    3.511075 3.509659 3.512491
## 2011    3.510933 3.509519 3.512346
## 2012    3.510555 3.509149 3.511962
## 2013    3.509735 3.508340 3.511131
## 2014    3.509564 3.508170 3.510957
## 2015    3.509024 3.507635 3.510414
## 2016    3.510888 3.509475 3.512300
## 2017    3.510747 3.509338 3.512157
## 2018    3.509858 3.508462 3.511255
## 2019    3.508285 3.506899 3.509672
## 2020    3.506067 3.504663 3.507470
## 2021    3.511351 3.509929 3.512772
```

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## 2022    3.511235 3.509816 3.512654
## 2023    3.511172 3.509754 3.512590
## 2024    3.511093 3.509677 3.512509
## 2025    3.510888 3.509476 3.512300
## 2026    3.510848 3.509437 3.512260
## 2027    3.510365 3.508962 3.511769
## 2028    3.510018 3.508620 3.511417
## 2029    3.509573 3.508179 3.510966
## 2030    3.511343 3.509922 3.512764
## 2031    3.511242 3.509823 3.512661
## 2032    3.511190 3.509772 3.512608
## 2033    3.511156 3.509738 3.512573
## 2034    3.511155 3.509738 3.512573
## 2035    3.511096 3.509680 3.512512
## 2036    3.511075 3.509659 3.512491
## 2037    3.511074 3.509659 3.512490
## 2038    3.511071 3.509656 3.512487
## 2039    3.511024 3.509609 3.512439
## 2040    3.511010 3.509595 3.512424
## 2041    3.510999 3.509585 3.512413
## 2042    3.510963 3.509550 3.512377
## 2043    3.510864 3.509452 3.512276
## 2044    3.510849 3.509437 3.512260
## 2045    3.510813 3.509402 3.512224
## 2046    3.510802 3.509391 3.512212
## 2047    3.510515 3.509110 3.511921
## 2048    3.510423 3.509019 3.511827
## 2049    3.510411 3.509007 3.511815
## 2050    3.510405 3.509001 3.511809
## 2051    3.510393 3.508989 3.511796
## 2052    3.510380 3.508976 3.511783
## 2053    3.510374 3.508971 3.511778
## 2054    3.510372 3.508968 3.511775
## 2055    3.510276 3.508874 3.511678
## 2056    3.511092 3.509676 3.512509
## 2057    3.510780 3.509370 3.512190
## 2058    3.510703 3.509294 3.512111
## 2059    3.510431 3.509027 3.511835
## 2060    3.510366 3.508963 3.511769
## 2061    3.510354 3.508951 3.511757
## 2062    3.510096 3.508697 3.511496
## 2063    3.510090 3.508691 3.511489
## 2064    3.509220 3.507830 3.510610
## 2065    3.509183 3.507793 3.510573
## 2066    3.509120 3.507730 3.510509
## 2067    3.509068 3.507678 3.510457
## 2068    3.508971 3.507582 3.510359
## 2069    3.508675 3.507287 3.510062
## 2070    3.511327 3.509906 3.512748
## 2071    3.511324 3.509903 3.512745
## 2072    3.511125 3.509708 3.512542
## 2073    3.511114 3.509698 3.512531
## 2074    3.511105 3.509689 3.512521
## 2075    3.511085 3.509669 3.512501
```

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## 2076    3.511057 3.509641 3.512472
## 2077    3.510941 3.509528 3.512354
## 2078    3.510895 3.509482 3.512307
## 2079    3.510880 3.509468 3.512292
## 2080    3.510651 3.509243 3.512059
## 2081    3.510513 3.509108 3.511919
## 2082    3.510442 3.509038 3.511846
## 2083    3.510436 3.509032 3.511841
## 2084    3.510423 3.509019 3.511827
## 2085    3.510369 3.508966 3.511772
## 2086    3.510360 3.508957 3.511763
## 2087    3.510327 3.508924 3.511730
## 2088    3.510275 3.508873 3.511677
## 2089    3.510103 3.508704 3.511503
## 2090    3.509378 3.507987 3.510770
## 2091    3.509087 3.507698 3.510477
## 2092    3.508744 3.507356 3.510132
## 2093    3.508492 3.507106 3.509879
## 2094    3.507491 3.506103 3.508879
## 2095    3.507244 3.505854 3.508634
## 2096    3.507124 3.505733 3.508515
## 2097    3.507083 3.505692 3.508475
## 2098    3.506460 3.505062 3.507858
## 2099    3.506336 3.504937 3.507735
## 2100    3.506180 3.504778 3.507581
## 2101    3.505352 3.503936 3.506768
## 2102    3.511304 3.509883 3.512724
## 2103    3.510837 3.509426 3.512248
## 2104    3.510299 3.508897 3.511701
## 2105    3.511236 3.509817 3.512655
## 2106    3.511004 3.509590 3.512419
## 2107    3.510891 3.509479 3.512303
## 2108    3.510431 3.509027 3.511836
## 2109    3.510029 3.508631 3.511428
## 2110    3.510016 3.508618 3.511414
## 2111    3.509675 3.508281 3.511069
## 2112    3.511352 3.509930 3.512773
## 2113    3.511334 3.509913 3.512755
## 2114    3.510803 3.509393 3.512214
## 2115    3.510770 3.509360 3.512180
## 2116    3.510601 3.509194 3.512008
## 2117    3.510600 3.509193 3.512007
## 2118    3.510437 3.509033 3.511841
## 2119    3.510418 3.509014 3.511821
## 2120    3.510413 3.509009 3.511817
## 2121    3.510404 3.509001 3.511808
## 2122    3.510366 3.508963 3.511769
## 2123    3.510288 3.508886 3.511690
## 2124    3.510075 3.508676 3.511474
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## 2126    3.509785 3.508389 3.511180
## 2127    3.509718 3.508323 3.511113
## 2128    3.509675 3.508280 3.511069
## 2129    3.509484 3.508091 3.510876
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## 2130     3.508449 3.507062 3.509835
## 2131     3.508234 3.506848 3.509621
## 2132     3.508226 3.506839 3.509612
## 2133     3.508067 3.506680 3.509453
## 2134     3.507903 3.506516 3.509290
## 2135     3.507804 3.506416 3.509191
## 2136     3.507557 3.506169 3.508945
## 2137     3.507516 3.506128 3.508905
## 2138     3.507345 3.505956 3.508734
## 2139     3.507125 3.505734 3.508516
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## 2144     3.509649 3.508255 3.511043
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## 2148     3.511201 3.509783 3.512619
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## 2150     3.511166 3.509748 3.512583
## 2151     3.511142 3.509725 3.512558
## 2152     3.511076 3.509661 3.512492
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## 2170     3.510441 3.509037 3.511845
## 2171     3.510426 3.509023 3.511830
## 2172     3.510405 3.509001 3.511808
## 2173     3.510402 3.508999 3.511806
## 2174     3.510383 3.508980 3.511786
## 2175     3.510367 3.508964 3.511770
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## 2177     3.510343 3.508941 3.511746
## 2178     3.510294 3.508893 3.511696
## 2179     3.510291 3.508890 3.511693
## 2180     3.510288 3.508886 3.511689
## 2181     3.510274 3.508872 3.511675
## 2182     3.510272 3.508870 3.511674
## 2183     3.510235 3.508834 3.511636
```

```
## 2184    3.510222 3.508821 3.511622
## 2185    3.510185 3.508785 3.511585
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## 2187    3.510159 3.508759 3.511559
## 2188    3.510122 3.508723 3.511522
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## 2190    3.510091 3.508692 3.511490
## 2191    3.510086 3.508687 3.511485
## 2192    3.510069 3.508671 3.511468
## 2193    3.510064 3.508665 3.511463
## 2194    3.510054 3.508655 3.511452
## 2195    3.510010 3.508612 3.511408
## 2196    3.510007 3.508609 3.511405
## 2197    3.509995 3.508597 3.511393
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## 2199    3.509973 3.508576 3.511371
## 2200    3.509972 3.508574 3.511369
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## 2202    3.509884 3.508487 3.511280
## 2203    3.509879 3.508483 3.511275
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## 2237    3.509062 3.507673 3.510451
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## 3036    3.507854 3.506468 3.509239
## 3037    3.507809 3.506424 3.509195
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## 3041    3.507072 3.505682 3.508462
## 3042    3.506648 3.505254 3.508042
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## 3044    3.506358 3.504961 3.507756
## 3045    3.510996 3.509584 3.512409
## 3046    3.507187 3.505798 3.508576
## 3047    3.505337 3.503922 3.506751
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## 3048     3.505056 3.503636 3.506477
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## 3055     3.511114 3.509699 3.512529
## 3056     3.511113 3.509698 3.512528
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## 3083     3.509573 3.508181 3.510964
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## 3149    3.508559 3.507174 3.509944
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## 3155    3.510026 3.508629 3.511422
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## 3207    3.504652 3.503223 3.506082
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## 3209    3.485738 3.483102 3.488374
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## 3263    3.511316 3.509898 3.512735
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## 3317    3.509503 3.508113 3.510893
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## 3479     3.505840 3.504436 3.507244
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## 4073    3.509038 3.507652 3.510423
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## 4718    3.509083 3.507699 3.510467
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## 4721    3.509046 3.507662 3.510430
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## 4937   3.509755 3.508366 3.511144
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## 6773     3.510533 3.509138 3.511927
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## 15854   3.509924 3.508561 3.511288
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## 15867   3.508904 3.507549 3.510260
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## 15869   3.508795 3.507440 3.510150
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## 15875   3.508502 3.507148 3.509856
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## 15899   3.506818 3.505455 3.508181
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## 16115   3.509492 3.508133 3.510851
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## 16168   3.468152 3.463919 3.472385
## 16169   3.466378 3.461977 3.470779
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## 16655   3.510660 3.509287 3.512032
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## 16709   3.511121 3.509741 3.512502
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## 17060  3.509576 3.508219 3.510934
## 17061  3.509542 3.508185 3.510899
## 17062  3.509501 3.508145 3.510858
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## 17070  3.509113 3.507759 3.510467
## 17071  3.509099 3.507745 3.510453
## 17072  3.508977 3.507624 3.510330
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## 17083  3.508760 3.507408 3.510113
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## 17087  3.508672 3.507320 3.510024
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## 17090   3.508624 3.507272 3.509976
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## 17093   3.508578 3.507226 3.509930
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## 17096   3.508527 3.507175 3.509879
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## 17098   3.508384 3.507032 3.509736
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## 17100   3.508348 3.506996 3.509700
## 17101   3.508229 3.506877 3.509580
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## 17139   3.510482 3.509114 3.511851
## 17140   3.510271 3.508905 3.511636
## 17141   3.510242 3.508877 3.511607
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## 17303   3.510438 3.509070 3.511805
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## 17357  3.511317 3.509934 3.512700
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## 19118   3.466255 3.461842 3.470669
## 19119   3.466249 3.461835 3.470663
## 19120   3.464834 3.460285 3.469382
## 19121   3.511499 3.510115 3.512882
## 19122   3.511469 3.510086 3.512852
## 19123   3.511242 3.509864 3.512620
## 19124   3.511051 3.509676 3.512425
## 19125   3.511388 3.510007 3.512769
## 19126   3.511128 3.509752 3.512503
## 19127   3.510796 3.509427 3.512165
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## 19129   3.510595 3.509229 3.511961
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## 19135   3.510533 3.509168 3.511898
## 19136   3.510503 3.509138 3.511867
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## 19138   3.510048 3.508690 3.511406
## 19139   3.509772 3.508417 3.511127
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## 19141   3.509554 3.508201 3.510907
## 19142   3.508992 3.507643 3.510341
## 19143   3.508858 3.507509 3.510206
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## 19145   3.508600 3.507252 3.509948
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## 19148   3.508182 3.506834 3.509530
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## 19150   3.508061 3.506713 3.509409
## 19151   3.507764 3.506415 3.509113
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## 19166   3.465695 3.461228 3.470161
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## 19172   3.510908 3.509537 3.512279
## 19173   3.510796 3.509427 3.512166
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## 19175   3.510671 3.509303 3.512038
## 19176   3.510623 3.509257 3.511990
## 19177   3.510579 3.509213 3.511945
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## 19182   3.510532 3.509167 3.511897
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## 19184   3.509654 3.508300 3.511007
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## 19188   3.504802 3.503408 3.506196
## 19189   3.504550 3.503149 3.505950
## 19190   3.508600 3.507252 3.509948
## 19191   3.511512 3.510129 3.512896
## 19192   3.511506 3.510123 3.512890
## 19193   3.511429 3.510047 3.512810
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## 19232   3.510556 3.509191 3.511921
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## 19247   3.510639 3.509273 3.512006
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## 19269   3.510537 3.509173 3.511902
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## 19301   3.511052 3.509678 3.512425
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## 19355   3.508991 3.507642 3.510340
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## 19378   3.510530 3.509166 3.511894
## 19379   3.510171 3.508812 3.511530
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## 19459   3.509987 3.508630 3.511344
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## 19517  3.509704 3.508350 3.511057
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## 19529   3.511486 3.510104 3.512869
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## 22865   3.510991 3.509627 3.512355
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## 23658   3.473828 3.470126 3.477529
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## 24917   3.511447 3.510078 3.512817
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## 25728   3.510234 3.508888 3.511581
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## 25943   3.510876 3.509521 3.512231
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## 33143  3.508822 3.507505 3.510140
## 33144  3.508686 3.507369 3.510003
## 33145  3.508550 3.507233 3.509867
## 33146  3.508308 3.506991 3.509625
## 33147  3.507468 3.506147 3.508789
## 33148  3.507447 3.506126 3.508769
## 33149  3.507396 3.506075 3.508718
## 33150  3.507181 3.505858 3.508505
## 33151  3.507139 3.505815 3.508463
## 33152  3.506374 3.505040 3.507708
## 33153  3.506208 3.504871 3.507544
## 33154  3.506088 3.504749 3.507427
## 33155  3.506074 3.504735 3.507413
## 33156  3.505902 3.504560 3.507244
## 33157  3.505663 3.504316 3.507010
## 33158  3.505571 3.504222 3.506920
## 33159  3.505050 3.503689 3.506411
## 33160  3.504989 3.503626 3.506352
## 33161  3.504955 3.503592 3.506319
## 33162  3.490943 3.488751 3.493134
## 33163  3.511376 3.510028 3.512724
## 33164  3.511267 3.509922 3.512613
## 33165  3.511180 3.509836 3.512524
## 33166  3.510852 3.509514 3.512190
## 33167  3.510850 3.509512 3.512187
## 33168  3.510846 3.509508 3.512183
## 33169  3.511612 3.510259 3.512965
## 33170  3.511207 3.509862 3.512551
## 33171  3.511167 3.509824 3.512511
## 33172  3.510846 3.509508 3.512184
## 33173  3.510098 3.508771 3.511424
## 33174  3.509539 3.508218 3.510860
## 33175  3.511225 3.509880 3.512570
## 33176  3.510609 3.509275 3.511942
## 33177  3.510450 3.509119 3.511781
## 33178  3.510129 3.508802 3.511456
## 33179  3.509858 3.508534 3.511182
```

```
## 33180   3.509701 3.508379 3.511023
## 33181   3.509535 3.508214 3.510856
## 33182   3.508447 3.507130 3.509764
## 33183   3.508191 3.506874 3.509508
## 33184   3.507905 3.506587 3.509223
## 33185   3.507865 3.506546 3.509183
## 33186   3.507850 3.506532 3.509169
## 33187   3.507778 3.506459 3.509097
## 33188   3.509226 3.507907 3.510545
## 33189   3.511636 3.510282 3.512989
## 33190   3.511290 3.509944 3.512636
## 33191   3.511184 3.509840 3.512528
## 33192   3.510789 3.509452 3.512125
## 33193   3.510702 3.509367 3.512037
## 33194   3.510681 3.509346 3.512016
## 33195   3.510491 3.509159 3.511823
## 33196   3.510082 3.508756 3.511409
## 33197   3.509200 3.507882 3.510519
## 33198   3.508554 3.507237 3.509871
## 33199   3.508363 3.507046 3.509680
## 33200   3.506994 3.505669 3.508319
## 33201   3.506201 3.504865 3.507538
## 33202   3.506012 3.504672 3.507352
## 33203   3.505958 3.504617 3.507299
## 33204   3.504950 3.503586 3.506314
## 33205   3.487804 3.485355 3.490253
## 33206   3.487723 3.485266 3.490179
## 33207   3.486344 3.483771 3.488918
## 33208   3.483284 3.480444 3.486124
## 33209   3.473386 3.469643 3.477129
## 33210   3.511235 3.509890 3.512579
## 33211   3.510891 3.509553 3.512230
## 33212   3.510798 3.509462 3.512135
## 33213   3.509840 3.508516 3.511163
## 33214   3.509760 3.508437 3.511082
## 33215   3.509561 3.508240 3.510882
## 33216   3.509425 3.508105 3.510745
## 33217   3.511605 3.510252 3.512958
## 33218   3.511397 3.510049 3.512745
## 33219   3.510711 3.509376 3.512047
## 33220   3.509604 3.508282 3.510925
## 33221   3.508831 3.507514 3.510148
## 33222   3.508736 3.507419 3.510053
## 33223   3.508306 3.506989 3.509623
## 33224   3.507905 3.506587 3.509223
## 33225   3.511349 3.510002 3.512696
## 33226   3.511240 3.509895 3.512585
## 33227   3.510769 3.509433 3.512105
## 33228   3.509351 3.508032 3.510671
## 33229   3.509289 3.507970 3.510608
## 33230   3.508641 3.507324 3.509958
## 33231   3.506206 3.504870 3.507543
## 33232   3.483822 3.481030 3.486615
## 33233   3.469499 3.465390 3.473607
```

```
## 33234   3.511619 3.510266 3.512972
## 33235   3.511593 3.510240 3.512945
## 33236   3.511583 3.510231 3.512935
## 33237   3.511566 3.510215 3.512918
## 33238   3.509863 3.508540 3.511187
## 33239   3.509829 3.508506 3.511152
## 33240   3.509784 3.508461 3.511107
## 33241   3.511635 3.510282 3.512988
## 33242   3.511627 3.510274 3.512980
## 33243   3.511616 3.510264 3.512969
## 33244   3.511572 3.510220 3.512924
## 33245   3.511532 3.510181 3.512883
## 33246   3.511453 3.510104 3.512803
## 33247   3.511453 3.510103 3.512802
## 33248   3.511431 3.510082 3.512780
## 33249   3.511428 3.510079 3.512776
## 33250   3.511385 3.510037 3.512733
## 33251   3.511384 3.510037 3.512732
## 33252   3.511357 3.510010 3.512704
## 33253   3.511356 3.510008 3.512703
## 33254   3.511347 3.510000 3.512694
## 33255   3.511330 3.509983 3.512677
## 33256   3.511326 3.509980 3.512673
## 33257   3.511321 3.509974 3.512667
## 33258   3.511318 3.509972 3.512665
## 33259   3.511313 3.509967 3.512659
## 33260   3.511277 3.509932 3.512623
## 33261   3.511266 3.509921 3.512612
## 33262   3.511241 3.509897 3.512586
## 33263   3.511190 3.509846 3.512534
## 33264   3.511189 3.509846 3.512533
## 33265   3.511181 3.509837 3.512524
## 33266   3.511175 3.509831 3.512518
## 33267   3.511116 3.509773 3.512458
## 33268   3.511074 3.509732 3.512415
## 33269   3.511064 3.509722 3.512405
## 33270   3.511053 3.509712 3.512394
## 33271   3.511016 3.509675 3.512356
## 33272   3.510985 3.509645 3.512325
## 33273   3.510939 3.509600 3.512278
## 33274   3.510934 3.509595 3.512273
## 33275   3.510836 3.509499 3.512173
## 33276   3.510794 3.509458 3.512131
## 33277   3.510790 3.509453 3.512126
## 33278   3.510787 3.509451 3.512124
## 33279   3.510769 3.509433 3.512105
## 33280   3.510724 3.509389 3.512060
## 33281   3.510708 3.509373 3.512043
## 33282   3.510706 3.509371 3.512041
## 33283   3.510696 3.509361 3.512030
## 33284   3.510684 3.509349 3.512019
## 33285   3.510636 3.509302 3.511970
## 33286   3.510612 3.509278 3.511945
## 33287   3.510580 3.509247 3.511913
```

```
## 33288  3.510575 3.509242 3.511908
## 33289  3.510574 3.509241 3.511907
## 33290  3.510512 3.509181 3.511844
## 33291  3.510510 3.509178 3.511842
## 33292  3.510508 3.509176 3.511840
## 33293  3.510489 3.509158 3.511821
## 33294  3.510400 3.509070 3.511730
## 33295  3.510391 3.509061 3.511721
## 33296  3.510370 3.509041 3.511700
## 33297  3.510294 3.508966 3.511623
## 33298  3.510223 3.508895 3.511551
## 33299  3.510190 3.508863 3.511518
## 33300  3.510183 3.508856 3.511511
## 33301  3.510117 3.508791 3.511444
## 33302  3.510087 3.508761 3.511413
## 33303  3.510073 3.508747 3.511399
## 33304  3.510041 3.508716 3.511367
## 33305  3.510037 3.508711 3.511362
## 33306  3.510019 3.508694 3.511345
## 33307  3.510001 3.508676 3.511326
## 33308  3.510000 3.508675 3.511325
## 33309  3.509947 3.508623 3.511272
## 33310  3.509942 3.508617 3.511266
## 33311  3.509908 3.508584 3.511232
## 33312  3.509891 3.508567 3.511215
## 33313  3.509889 3.508565 3.511213
## 33314  3.509887 3.508563 3.511211
## 33315  3.509867 3.508543 3.511190
## 33316  3.509863 3.508540 3.511187
## 33317  3.509856 3.508533 3.511180
## 33318  3.509837 3.508514 3.511160
## 33319  3.509794 3.508471 3.511117
## 33320  3.509759 3.508437 3.511082
## 33321  3.509706 3.508384 3.511028
## 33322  3.509689 3.508367 3.511011
## 33323  3.509636 3.508314 3.510957
## 33324  3.509621 3.508300 3.510943
## 33325  3.509613 3.508292 3.510935
## 33326  3.509525 3.508204 3.510846
## 33327  3.509524 3.508204 3.510845
## 33328  3.509511 3.508190 3.510831
## 33329  3.509384 3.508064 3.510703
## 33330  3.509381 3.508061 3.510700
## 33331  3.509380 3.508060 3.510699
## 33332  3.509379 3.508059 3.510699
## 33333  3.509357 3.508038 3.510677
##  [ reached getOption("max.print") -- omitted 966666 rows ]
```

We will refer to the fit column as the rating of the validation dataset

Now we want to submit our prediction in a submission.csv file. It is done as follows -

```r
pred_int<-predict(m,newdata = validation,interval = "prediction")
write.csv(pred_int,"submission.csv", na = "", row.names=FALSE)
```