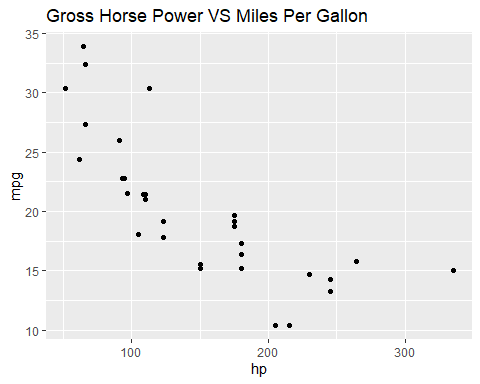
##<https://uc-r.github.io/linear_regression>

# Regression

## 1. Simple Linear Regression

#### 1.1 Simple Linear Regression Code Example

## Example   
# ---  
# Simple linear regression example   
   
  
# first import ggplot  
library(ggplot2)   
  
# Examining the data before fitting models by creating a scatter plot   
# Scatter plots can help visualize any linear relationships between the dependent (response) variable   
# and independent (predictor) variables.   
ggplot(mtcars, aes(hp, mpg))+  
 geom\_point()+  
 labs(title = "Gross Horse Power VS Miles Per Gallon",  
 x = "hp",  
 y = "mpg")



# Examining the data by also finding the correlation coefficient  
# Correlation is a statistical measure that suggests the level of linear dependence between two variables.  
# Correlation can take values between -1 to +1. If we observe for every instance where speed increases,   
# the distance also increases along with it, then there is a high positive correlation between them   
# and therefore the correlation between them will be closer to 1.   
# The opposite is true for an inverse relationship, in which case, the correlation between the variables will be close to -1.  
cor(mtcars$hp, mtcars$mpg)

## [1] -0.7761684

# The linear model function lm, used below will create the relationship model between the predictor and the response variable.   
# mpg~hp presenting the relation between x and y and mtcars the vector on which the formula will be applied.  
simple\_lm <- lm(mpg~hp, mtcars)  
simple\_lm

##   
## Call:  
## lm(formula = mpg ~ hp, data = mtcars)  
##   
## Coefficients:  
## (Intercept) hp   
## 30.09886 -0.06823

# Generating the anova table. This table will   
# contain the sums of squares, degrees of freedom, F statistic, and p value  
#   
anova(simple\_lm)

## Analysis of Variance Table  
##   
## Response: mpg  
## Df Sum Sq Mean Sq F value Pr(>F)   
## hp 1 678.37 678.37 45.46 1.788e-07 \*\*\*  
## Residuals 30 447.67 14.92   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

# Predicting the response variables  
#   
pred1 <- predict(simple\_lm, mtcars)  
pred1

## Mazda RX4 Mazda RX4 Wag Datsun 710 Hornet 4 Drive   
## 22.593750 22.593750 23.753631 22.593750   
## Hornet Sportabout Valiant Duster 360 Merc 240D   
## 18.158912 22.934891 13.382932 25.868707   
## Merc 230 Merc 280 Merc 280C Merc 450SE   
## 23.617174 21.706782 21.706782 17.817770   
## Merc 450SL Merc 450SLC Cadillac Fleetwood Lincoln Continental   
## 17.817770 17.817770 16.112064 15.429781   
## Chrysler Imperial Fiat 128 Honda Civic Toyota Corolla   
## 14.406357 25.595794 26.550990 25.664022   
## Toyota Corona Dodge Challenger AMC Javelin Camaro Z28   
## 23.480718 19.864619 19.864619 13.382932   
## Pontiac Firebird Fiat X1-9 Porsche 914-2 Lotus Europa   
## 18.158912 25.595794 23.890087 22.389065   
## Ford Pantera L Ferrari Dino Maserati Bora Volvo 142E   
## 12.086595 18.158912 7.242387 22.661978

#### 1.2 Simple Linear Regression

## Example   
# ---  
#   
# Considering two vectors  
height <- c(151, 174, 138, 186, 128, 136, 179, 163, 152, 131)  
weight <- c(63, 81, 56, 91, 47, 57, 76, 72, 62, 48)  
  
# Examining the data by also finding the correlation coefficient  
cor(height, weight)

## [1] 0.9771296

# Apply the lm() function.  
relation <- lm(weight~height)  
relation

##   
## Call:  
## lm(formula = weight ~ height)  
##   
## Coefficients:  
## (Intercept) height   
## -38.4551 0.6746

# Then getting the Summary of the relationship  
summary(relation)

##   
## Call:  
## lm(formula = weight ~ height)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -6.3002 -1.6629 0.0412 1.8944 3.9775   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -38.45509 8.04901 -4.778 0.00139 \*\*   
## height 0.67461 0.05191 12.997 1.16e-06 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 3.253 on 8 degrees of freedom  
## Multiple R-squared: 0.9548, Adjusted R-squared: 0.9491   
## F-statistic: 168.9 on 1 and 8 DF, p-value: 1.164e-06

# Then wrapping the parameters inside a new data frame named   
# and later finding the weight of a person with height 170 and   
#   
a <- data.frame(height = 170)  
result <- predict(relation,a)  
  
result

## 1   
## 76.22869

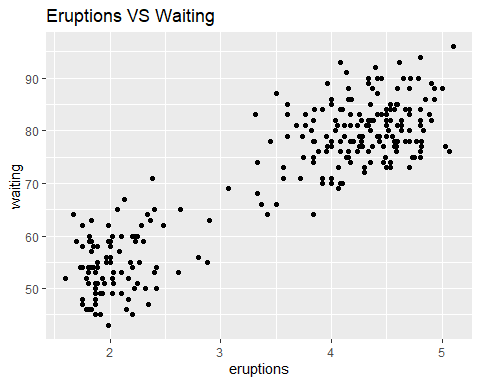
#### 1.3 Simple Linear Regression

# Challenge  
# ---  
# Apply simple linear regression to the faithful dataset   
# and estimate the next eruption duration if the waiting time   
# since the last eruption has been 80 minutes  
  
  
# Previewing the database  
#   
head(faithful)

## eruptions waiting  
## 1 3.600 79  
## 2 1.800 54  
## 3 3.333 74  
## 4 2.283 62  
## 5 4.533 85  
## 6 2.883 55

# Examining the data before fitting models by creating a scatter plot  
#

ggplot(faithful, aes(eruptions,waiting))+  
 geom\_point()+  
 labs(title = "Eruptions VS Waiting",  
 y = "waiting",  
 x = "eruptions")



# Examining the data by also finding the correlation coefficient  
  
cor(faithful$eruptions, faithful$waiting)

## [1] 0.9008112

# Applying the lm() function.  
model2 <- lm(waiting~eruptions, faithful)

# Working on the solution  
  
b <- data.frame(eruptions = 80)  
result1 <- predict(model2, b)  
  
result1

## 1   
## 891.8457

## 2. Multiple Linear Regression

#### 2.1 Multiple Linear Regression

## Example   
# ---  
# Multiple Linear Regression Example   
# ---  
# Use the diamonds dataset  
#   
  
head(diamonds)

## # A tibble: 6 x 10  
## carat cut color clarity depth table price x y z  
## <dbl> <ord> <ord> <ord> <dbl> <dbl> <int> <dbl> <dbl> <dbl>  
## 1 0.23 Ideal E SI2 61.5 55 326 3.95 3.98 2.43  
## 2 0.21 Premium E SI1 59.8 61 326 3.89 3.84 2.31  
## 3 0.23 Good E VS1 56.9 65 327 4.05 4.07 2.31  
## 4 0.290 Premium I VS2 62.4 58 334 4.2 4.23 2.63  
## 5 0.31 Good J SI2 63.3 58 335 4.34 4.35 2.75  
## 6 0.24 Very Good J VVS2 62.8 57 336 3.94 3.96 2.48

# Applying the lm() function.  
multiple\_lm <- lm(price ~ ., diamonds)

# Generating the anova table  
anova(multiple\_lm)

## Analysis of Variance Table  
##   
## Response: price  
## Df Sum Sq Mean Sq F value Pr(>F)   
## carat 1 7.2913e+11 7.2913e+11 5.7092e+05 < 2e-16 \*\*\*  
## cut 4 6.1332e+09 1.5333e+09 1.2006e+03 < 2e-16 \*\*\*  
## color 6 1.2598e+10 2.0997e+09 1.6441e+03 < 2e-16 \*\*\*  
## clarity 7 3.8452e+10 5.4931e+09 4.3012e+03 < 2e-16 \*\*\*  
## depth 1 4.9405e+06 4.9405e+06 3.8685e+00 0.04921 \*   
## table 1 9.2727e+07 9.2727e+07 7.2606e+01 < 2e-16 \*\*\*  
## x 1 3.2053e+09 3.2053e+09 2.5098e+03 < 2e-16 \*\*\*  
## y 1 1.1679e+05 1.1679e+05 9.1400e-02 0.76235   
## z 1 2.8609e+06 2.8609e+06 2.2401e+00 0.13448   
## Residuals 53916 6.8857e+10 1.2771e+06   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

# Then performing our prediction   
pred2 <- predict(multiple\_lm, diamonds)  
  
  
# Printing out our result  
pred2

## 1 2 3 4 5   
## -1.346364e+03 -6.645954e+02 2.111071e+02 -8.307372e+02 -3.459224e+03   
## 6 7 8 9 10   
## -1.380488e+03 -3.978752e+02 -1.073324e+03 -1.040023e+03 -4.204179e+02   
## 11 12 13 14 15   
## -2.483077e+03 -1.722362e+03 -6.449648e+02 -3.037866e+03 -1.690081e+03   
## 16 17 18 19 20   
## -3.589583e+03 -2.192976e+03 -2.396554e+03 -2.475814e+03 -2.315252e+03   
## 21 22 23 24 25   
## -2.533507e+03 6.313333e+01 -3.579828e+02 -2.249489e+03 -2.215066e+03   
## 26 27 28 29 30   
## 4.947033e+02 -8.251858e+02 -1.699440e+03 2.175483e+02 3.354325e+02   
## 31 32 33 34 35   
## 3.534131e+02 3.256309e+02 3.490909e+02 4.132846e+02 5.570459e+02   
## 36 37 38 39 40   
## 2.102743e+02 1.227333e+02 -9.959463e+02 4.134710e+02 -2.053845e+03   
## 41 42 43 44 45   
## -2.040628e+03 -1.974535e+03 2.004159e+02 5.681327e+02 -1.891621e+03   
## 46 47 48 49 50   
## -2.801426e+02 -1.642766e+03 -1.958360e+03 3.461620e+01 -2.019466e+03   
## 51 52 53 54 55   
## -6.324348e+02 2.768539e+02 -1.103054e+03 -3.056476e+01 2.444920e+02   
## 56 57 58 59 60   
## -2.249048e+03 -3.297038e+03 -1.393505e+03 -1.450895e+03 -1.527279e+03   
## 61 62 63 64 65   
## 1.939593e+00 7.572325e+01 1.443011e+02 1.868123e+02 -1.496485e+03   
## 66 67 68 69 70   
## 9.245037e+02 2.205222e+02 -4.248695e+02 -3.377402e+02 9.117166e+02   
## 71 72 73 74 75   
## 1.021021e+03 -9.548860e+02 -9.753890e+02 -9.064037e+02 -1.157691e+03   
## 76 77 78 79 80   
## 8.414078e+02 9.528516e+02 1.175462e+03 1.062408e+03 8.984395e+02   
## 81 82 83 84 85   
## 9.074098e+02 1.144525e+03 9.954994e+02 -1.669004e+03 8.700505e+02   
## 86 87 88 89 90   
## 5.691694e+02 1.079923e+02 9.734241e+01 2.222105e+01 -1.281973e+03   
## 91 92 93 94 95   
## 2.985674e+03 2.397641e+03 3.401432e+03 3.621009e+03 2.370645e+03   
## 96 97 98 99 100   
## 3.486835e+03 3.645954e+03 3.080563e+03 3.152231e+03 3.032064e+03   
## 101 102 103 104 105   
## 3.528774e+03 3.422400e+03 3.172827e+03 3.679588e+03 3.520064e+03   
## 106 107 108 109 110   
## 3.174049e+03 3.476030e+03 3.458160e+03 2.992012e+03 3.448483e+03   
## 111 112 113 114 115   
## 2.890468e+03 2.416504e+03 3.977558e+03 2.992807e+03 3.809603e+03   
## 116 117 118 119 120   
## 3.851490e+03 2.752841e+03 3.492595e+03 3.649948e+03 2.885994e+03   
## 121 122 123 124 125   
## 2.353677e+03 3.425862e+03 3.374211e+03 2.691913e+03 2.629791e+03   
## 126 127 128 129 130   
## 3.485602e+03 4.207049e+03 3.698256e+03 2.233587e+03 2.149915e+03   
## 131 132 133 134 135   
## 3.468910e+03 3.163180e+03 3.304785e+03 3.477486e+03 3.624693e+03   
## 136 137 138 139 140   
## 3.681749e+03 3.827732e+03 3.880566e+03 2.791226e+03 3.621263e+03   
## 141 142 143 144 145   
## 3.381031e+03 3.367861e+03 3.810698e+03 3.792374e+03 2.416407e+03   
## 146 147 148 149 150   
## 3.170407e+03 3.711062e+03 3.472474e+03 3.196455e+03 3.061409e+03   
## 151 152 153 154 155   
## 2.264249e+03 2.162222e+03 3.810785e+03 3.468496e+03 3.371817e+03   
## 156 157 158 159 160   
## 2.831596e+03 3.109031e+03 3.500382e+03 3.840500e+03 2.516831e+03   
## 161 162 163 164 165   
## 3.522692e+03 3.678881e+03 3.034857e+03 3.436092e+03 2.787591e+03   
## 166 167 168 169 170   
## 3.741500e+03 2.759736e+03 3.142856e+03 3.374132e+03 3.457723e+03   
## 171 172 173 174 175   
## 2.746687e+03 3.719227e+03 1.229367e+03 3.177626e+03 3.045717e+03   
## 176 177 178 179 180   
## 3.325247e+03 3.738838e+03 3.451200e+03 3.548776e+03 3.628435e+03   
## 181 182 183 184 185   
## 3.019732e+03 3.010126e+03 2.990157e+03 2.991440e+03 3.277821e+03   
## 186 187 188 189 190   
## 2.882476e+03 4.002780e+03 3.596600e+03 3.571697e+03 3.362650e+03   
## 191 192 193 194 195   
## 3.442411e+03 3.667420e+03 3.520724e+03 2.936531e+03 2.971231e+03   
## 196 197 198 199 200   
## 2.880083e+03 2.984494e+03 2.906487e+03 2.997679e+03 2.894492e+03   
## 201 202 203 204 205   
## 2.832925e+03 2.958542e+03 2.950169e+03 3.236970e+03 2.770657e+03   
## 206 207 208 209 210   
## 3.598323e+03 2.857274e+03 2.895939e+03 3.063966e+03 3.372082e+03   
## 211 212 213 214 215   
## 3.436944e+03 3.886059e+03 3.762873e+03 4.082147e+03 3.707519e+03   
## 216 217 218 219 220   
## 1.932509e+03 2.915085e+03 3.001774e+03 3.081166e+03 2.978200e+03   
## 221 222 223 224 225   
## 3.890419e+03 3.753844e+03 3.804826e+03 2.540296e+03 3.471703e+03   
## 226 227 228 229 230   
## 3.252417e+03 3.045550e+03 2.977167e+03 3.249516e+03 3.224883e+03   
## 231 232 233 234 235   
## 3.698894e+03 3.826018e+03 3.584077e+03 2.766246e+03 3.690287e+03   
## 236 237 238 239 240   
## 3.463534e+03 3.631735e+03 3.608143e+03 3.690992e+03 3.904683e+03   
## 241 242 243 244 245   
## 3.077703e+03 1.209647e+03 3.976548e+03 3.362720e+03 3.345025e+03   
## 246 247 248 249 250   
## 3.477639e+03 3.486864e+03 2.862558e+03 2.796576e+03 3.051701e+03   
## 251 252 253 254 255   
## 3.242902e+03 2.481891e+03 3.666143e+03 3.651213e+03 3.639697e+03   
## 256 257 258 259 260   
## 1.964878e+03 3.988002e+03 3.561263e+03 3.159174e+03 3.832557e+03   
## 261 262 263 264 265   
## 3.839851e+03 3.113246e+03 3.328744e+03 3.060872e+03 3.020984e+03   
## 266 267 268 269 270   
## 3.210580e+03 3.701446e+03 3.722661e+03 4.082173e+03 3.850850e+03   
## 271 272 273 274 275   
## 3.457928e+03 3.495816e+03 3.383368e+03 2.937176e+03 3.172889e+03   
## 276 277 278 279 280   
## 3.656575e+03 3.627248e+03 3.926353e+03 3.016859e+03 3.806452e+03   
## 281 282 283 284 285   
## 2.309726e+03 3.508785e+03 3.748013e+03 3.411932e+03 3.344358e+03   
## 286 287 288 289 290   
## 2.996963e+03 2.163690e+03 3.804346e+03 3.174562e+03 3.259234e+03   
## 291 292 293 294 295   
## 3.176484e+03 3.207555e+03 3.075230e+03 3.532579e+03 3.525706e+03   
## 296 297 298 299 300   
## 3.551181e+03 3.117280e+03 2.774740e+03 3.768524e+03 3.470623e+03   
## 301 302 303 304 305   
## 3.268235e+03 3.043863e+03 3.117825e+03 3.919736e+03 3.525214e+03   
## 306 307 308 309 310   
## 2.349755e+03 3.924258e+03 2.533460e+03 3.890463e+03 3.882941e+03   
## 311 312 313 314 315   
## 3.261152e+03 3.858528e+03 3.421698e+03 3.697148e+03 3.162056e+03   
## 316 317 318 319 320   
## 1.666638e+03 3.811901e+03 3.689706e+03 2.680771e+03 3.566064e+03   
## 321 322 323 324 325   
## 3.411875e+03 3.332113e+03 3.556165e+03 2.015354e+03 2.384334e+03   
## 326 327 328 329 330   
## 3.200181e+03 3.301576e+03 3.670039e+03 3.836373e+03 3.436472e+03   
## 331 332 333 334 335   
## 3.248323e+03 3.482614e+03 3.385517e+03 3.317049e+03 3.532658e+03   
## 336 337 338 339 340   
## 3.579397e+03 3.568796e+03 3.875424e+03 3.337364e+03 3.892267e+03   
## 341 342 343 344 345   
## 3.659821e+03 4.090899e+03 3.563025e+03 3.535096e+03 2.883135e+03   
## 346 347 348 349 350   
## 3.085630e+03 4.072201e+03 3.896438e+03 3.940775e+03 3.262538e+03   
## 351 352 353 354 355   
## 3.425196e+03 3.493852e+03 2.537521e+03 3.776107e+03 3.867112e+03   
## 356 357 358 359 360   
## 2.308473e+03 2.416575e+03 3.739525e+03 3.505452e+03 2.820472e+03   
## 361 362 363 364 365   
## 4.085764e+03 3.569999e+03 3.959281e+03 3.014344e+03 3.875806e+03   
## 366 367 368 369 370   
## 3.863899e+03 1.895900e+03 3.640610e+03 3.823543e+03 8.043666e+02   
## 371 372 373 374 375   
## 3.655795e+03 3.351884e+03 3.345561e+03 3.807266e+03 3.157415e+03   
## 376 377 378 379 380   
## 3.019630e+03 2.876958e+03 3.873768e+03 3.750294e+03 2.675015e+03   
## 381 382 383 384 385   
## 3.589690e+03 3.427376e+03 3.271469e+03 4.276557e+03 3.251875e+03   
## 386 387 388 389 390   
## 2.324915e+03 3.540534e+03 3.539355e+03 2.829177e+03 3.516431e+03   
## 391 392 393 394 395   
## -1.289280e+03 -1.316327e+03 -1.172299e+03 -1.224250e+03 -1.318693e+03   
## 396 397 398 399 400   
## -1.162980e+03 -8.745370e+02 -8.185595e+02 -9.489149e+02 -9.681484e+02   
## 401 402 403 404 405   
## -1.090532e+03 -8.412813e+02 -1.039477e+03 -1.461241e+03 -1.937622e+03   
## 406 407 408 409 410   
## 7.323239e+02 7.818166e+02 -1.333804e+02 1.230795e+02 9.738770e+01   
## 411 412 413 414 415   
## -5.528447e+01 -1.155913e+02 6.148285e+02 7.883606e+02 9.907512e+01   
## 416 417 418 419 420   
## -2.903137e+03 5.557205e+02 -2.361939e+02 3.337848e+02 6.698865e+02   
## 421 422 423 424 425   
## 3.465847e+03 3.459501e+03 3.324326e+03 2.604844e+03 3.809118e+03   
## 426 427 428 429 430   
## 2.725531e+03 3.579364e+03 4.139750e+03 3.893189e+03 3.393054e+03   
## 431 432 433 434 435   
## 3.529394e+03 3.353871e+03 3.319282e+03 2.426092e+03 3.939381e+03   
## 436 437 438 439 440   
## 2.329454e+03 2.314077e+03 2.303208e+03 2.293506e+03 2.313980e+03   
## 441 442 443 444 445   
## 3.350373e+03 2.844255e+03 3.697847e+03 3.529053e+03 1.824575e+03   
## 446 447 448 449 450   
## 3.691946e+03 3.330389e+03 4.052604e+03 3.498468e+03 2.705145e+03   
## 451 452 453 454 455   
## 3.381240e+03 3.051957e+03 3.162169e+03 3.728299e+03 3.626929e+03   
## 456 457 458 459 460   
## 3.738990e+03 3.030336e+03 2.970090e+03 3.159687e+03 3.002711e+03   
## 461 462 463 464 465   
## 3.196908e+03 2.743228e+03 3.459113e+03 3.568869e+03 3.466178e+03   
## 466 467 468 469 470   
## 1.104889e+03 3.092543e+03 3.060053e+03 3.913854e+03 3.805700e+03   
## 471 472 473 474 475   
## 3.430986e+03 3.835470e+03 2.817790e+03 3.693374e+03 3.361558e+03   
## 476 477 478 479 480   
## 3.547708e+03 3.029684e+03 3.726294e+03 3.479174e+03 3.789866e+03   
## 481 482 483 484 485   
## 3.022278e+03 3.173022e+03 2.976672e+03 3.114196e+03 3.148348e+03   
## 486 487 488 489 490   
## 3.424027e+03 3.082922e+03 3.820964e+03 3.691842e+03 3.666529e+03   
## 491 492 493 494 495   
## 3.623958e+03 3.560065e+03 3.507612e+03 3.479978e+03 3.287781e+03   
## 496 497 498 499 500   
## 3.133847e+03 3.238876e+03 3.075164e+03 3.290215e+03 2.869411e+03   
## 501 502 503 504 505   
## 3.322831e+03 3.499891e+03 3.526593e+03 3.231977e+03 2.610732e+03   
## 506 507 508 509 510   
## 3.277211e+03 3.237825e+03 3.484102e+03 3.450863e+03 3.296398e+03   
## 511 512 513 514 515   
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## 3.736916e+03 3.794534e+03 3.571092e+03 3.426442e+03 3.647066e+03   
## 1246 1247 1248 1249 1250   
## 3.804524e+03 3.756876e+03 3.860561e+03 3.901957e+03 3.807691e+03   
## 1251 1252 1253 1254 1255   
## 3.782048e+03 2.403674e+03 3.858959e+03 3.775185e+03 4.476984e+03   
## 1256 1257 1258 1259 1260   
## 3.306304e+03 3.994121e+03 3.653852e+03 3.601828e+03 3.058844e+03   
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## 3.051352e+03 3.526573e+03 3.721580e+03 3.466294e+03 3.966706e+03   
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## 3.066029e+03 2.456719e+03 1.618367e+03 2.397182e+03 2.562501e+03   
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## 3.723310e+03 3.740431e+03 3.570109e+03 3.862401e+03 3.398327e+03   
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## 2.398674e+03 3.527513e+03 3.765392e+03 3.765400e+03 3.018845e+03   
## 1281 1282 1283 1284 1285   
## 4.238524e+03 3.182304e+03 3.300809e+03 3.193515e+03 3.502652e+03   
## 1286 1287 1288 1289 1290   
## 3.440519e+03 3.547120e+03 3.813598e+03 3.597578e+03 3.604055e+03   
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## 3.600835e+03 3.652742e+03 3.656603e+03 3.874667e+03 3.649846e+03   
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## 3.730538e+03 3.358997e+03 3.668127e+03 4.095199e+03 3.937317e+03   
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## 4.145026e+03 3.455095e+03 3.458506e+03 3.459998e+03 2.796602e+03   
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## 2.556986e+03 3.585736e+03 4.078693e+03 4.068724e+03 3.717507e+03   
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## 3.744128e+03 3.826953e+03 3.478775e+03 3.722329e+03 3.318430e+03   
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## 1636 1637 1638 1639 1640   
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## 1861 1862 1863 1864 1865   
## 2.831277e+03 3.760490e+03 3.215934e+03 3.750730e+03 3.725123e+03   
## 1866 1867 1868 1869 1870   
## 3.658646e+03 3.667642e+03 3.546479e+03 2.838184e+03 1.543438e+03   
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## 4.147542e+03 3.825533e+03 3.730318e+03 3.427033e+03 1.930308e+03   
## 1881 1882 1883 1884 1885   
## 3.516927e+03 3.960514e+03 3.942999e+03 3.846016e+03 4.245822e+03   
## 1886 1887 1888 1889 1890   
## 3.904883e+03 3.866308e+03 2.055174e+03 3.157063e+03 3.781217e+03   
## 1891 1892 1893 1894 1895   
## 2.910555e+03 3.736899e+03 3.788656e+03 3.702077e+03 3.693120e+03   
## 1896 1897 1898 1899 1900   
## 3.886697e+03 2.996246e+03 3.791579e+03 3.455706e+03 3.688945e+03   
## 1901 1902 1903 1904 1905   
## 3.318673e+03 4.276700e+03 2.523085e+03 3.133816e+03 1.929044e+03   
## 1906 1907 1908 1909 1910   
## 1.275223e+03 3.627764e+03 3.873319e+03 3.676527e+03 3.887066e+03   
## 1911 1912 1913 1914 1915   
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## 1916 1917 1918 1919 1920   
## 3.990290e+03 3.652887e+03 3.971010e+03 3.649255e+03 3.631844e+03   
## 1921 1922 1923 1924 1925   
## 3.650525e+03 3.447304e+03 3.819630e+03 4.090491e+03 3.814414e+03   
## 1926 1927 1928 1929 1930   
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## 1931 1932 1933 1934 1935   
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## 1946 1947 1948 1949 1950   
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## 1956 1957 1958 1959 1960   
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## 3.739016e+03 3.506383e+03 3.783899e+03 3.871142e+03 3.893812e+03   
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## 3.804642e+03 3.568286e+03 3.912511e+03 3.986099e+03 3.771768e+03   
## 1991 1992 1993 1994 1995   
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## 1996 1997 1998 1999 2000   
## 2.926577e+03 3.240531e+03 3.150388e+03 2.458546e+03 4.006950e+03   
## 2001 2002 2003 2004 2005   
## 3.821240e+03 2.853166e+03 4.659473e+03 3.093527e+03 3.504060e+03   
## 2006 2007 2008 2009 2010   
## 3.292811e+03 3.507676e+03 3.885245e+03 2.675395e+03 3.282004e+03   
## 2011 2012 2013 2014 2015   
## 4.223600e+03 3.746401e+03 3.781926e+03 4.011208e+03 4.222125e+03   
## 2016 2017 2018 2019 2020   
## 2.808458e+03 2.747464e+03 2.545816e+03 4.118558e+03 3.392157e+03   
## 2021 2022 2023 2024 2025   
## 3.410597e+03 2.811109e+03 2.911317e+03 2.827663e+03 6.738714e+03   
## 2026 2027 2028 2029 2030   
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## 53756 53757 53758 53759 53760   
## 3.698685e+03 3.905009e+03 2.834578e+03 3.451875e+03 3.656396e+03   
## 53761 53762 53763 53764 53765   
## 2.837676e+03 4.126718e+03 3.719453e+03 3.811088e+03 3.112839e+03   
## 53766 53767 53768 53769 53770   
## 3.157414e+03 3.861434e+03 3.910827e+03 3.790046e+03 2.791366e+03   
## 53771 53772 53773 53774 53775   
## 2.787027e+03 3.313951e+03 3.276755e+03 3.268407e+03 3.234848e+03   
## 53776 53777 53778 53779 53780   
## 2.893065e+03 3.440540e+03 3.536431e+03 3.391055e+03 2.328997e+03   
## 53781 53782 53783 53784 53785   
## 4.245890e+03 3.354135e+03 3.324307e+03 3.272682e+03 3.043658e+03   
## 53786 53787 53788 53789 53790   
## 3.268010e+03 3.143347e+03 2.295630e+03 2.657929e+03 2.570635e+03   
## 53791 53792 53793 53794 53795   
## 3.373528e+03 2.909238e+03 3.139618e+03 4.429222e+03 3.594291e+03   
## 53796 53797 53798 53799 53800   
## 3.289862e+03 3.214207e+03 3.245144e+03 3.481162e+03 3.916199e+03   
## 53801 53802 53803 53804 53805   
## 3.380538e+03 3.212803e+03 3.248811e+03 3.771578e+03 3.112679e+03   
## 53806 53807 53808 53809 53810   
## 3.741015e+03 2.974825e+03 3.352800e+03 3.620784e+03 2.895567e+03   
## 53811 53812 53813 53814 53815   
## 2.090049e+03 3.215328e+03 3.240507e+03 3.074264e+03 3.890346e+03   
## 53816 53817 53818 53819 53820   
## 3.625206e+03 3.582756e+03 3.029421e+03 2.909629e+03 3.550231e+03   
## 53821 53822 53823 53824 53825   
## 3.349587e+03 3.663329e+03 2.937514e+03 3.309843e+03 3.511313e+03   
## 53826 53827 53828 53829 53830   
## 3.404748e+03 3.432493e+03 3.477707e+03 3.415054e+03 3.254374e+03   
## 53831 53832 53833 53834 53835   
## 3.204276e+03 3.171509e+03 3.171605e+03 3.207735e+03 3.515668e+03   
## 53836 53837 53838 53839 53840   
## 3.850735e+03 3.482242e+03 3.499446e+03 3.802526e+03 2.864972e+03   
## 53841 53842 53843 53844 53845   
## 3.350714e+03 3.019185e+03 3.692493e+03 3.318726e+03 2.497132e+03   
## 53846 53847 53848 53849 53850   
## 3.640529e+03 3.956780e+03 3.757477e+03 2.555462e+03 3.063139e+03   
## 53851 53852 53853 53854 53855   
## 2.984638e+03 3.726965e+03 2.637659e+03 3.069367e+03 2.977261e+03   
## 53856 53857 53858 53859 53860   
## 2.967230e+03 2.691845e+03 2.304964e+03 3.157287e+03 2.980335e+03   
## 53861 53862 53863 53864 53865   
## 3.269985e+03 3.204029e+03 3.030839e+03 2.513433e+03 3.459127e+03   
## 53866 53867 53868 53869 53870   
## 3.463600e+03 3.449764e+03 3.784733e+03 3.290252e+03 3.375033e+03   
## 53871 53872 53873 53874 53875   
## 2.823833e+03 3.150422e+03 3.338691e+03 3.742629e+03 3.816139e+03   
## 53876 53877 53878 53879 53880   
## 9.663102e+02 3.081781e+03 3.422565e+03 2.854904e+03 3.997349e+03   
## 53881 53882 53883 53884 53885   
## 3.551275e+03 3.888410e+03 3.224195e+03 3.645884e+03 4.190851e+03   
## 53886 53887 53888 53889 53890   
## 3.337708e+03 3.628443e+03 3.208116e+03 2.832323e+03 2.664927e+03   
## 53891 53892 53893 53894 53895   
## 3.122020e+03 3.237853e+03 3.830898e+03 3.880291e+03 2.912601e+03   
## 53896 53897 53898 53899 53900   
## 3.655820e+03 2.979952e+03 1.021986e+03 3.700810e+03 3.723273e+03   
## 53901 53902 53903 53904 53905   
## 3.117217e+03 2.748471e+03 2.484118e+03 3.322770e+03 2.989078e+03   
## 53906 53907 53908 53909 53910   
## 2.977246e+03 3.400107e+03 3.000026e+03 2.986764e+03 2.885437e+03   
## 53911 53912 53913 53914 53915   
## 2.980705e+03 3.509987e+03 3.401313e+03 3.903286e+03 3.584498e+03   
## 53916 53917 53918 53919 53920   
## 2.719955e+03 3.288784e+03 2.412125e+03 3.091292e+03 3.623704e+03   
## 53921 53922 53923 53924 53925   
## 3.542281e+03 3.494973e+03 3.940262e+03 2.671377e+03 2.657542e+03   
## 53926 53927 53928 53929 53930   
## 2.570900e+03 3.154519e+03 3.552174e+03 2.672928e+03 3.776515e+03   
## 53931 53932 53933 53934 53935   
## 3.121494e+03 2.970429e+03 3.551274e+03 3.525388e+03 3.293132e+03   
## 53936 53937 53938 53939 53940   
## 3.481882e+03 3.189802e+03 3.030546e+03 2.592829e+03 2.733704e+03

#### 2.2 Multiple Linear Regression

# Having "disp","hp" and "wt" as predictor variables - we've selected these variables from the mtcars database  
input <- mtcars[,c("mpg","disp","hp","wt")]  
  
# Previewing these selected input predictor variables  
head(input)

## mpg disp hp wt  
## Mazda RX4 21.0 160 110 2.620  
## Mazda RX4 Wag 21.0 160 110 2.875  
## Datsun 710 22.8 108 93 2.320  
## Hornet 4 Drive 21.4 258 110 3.215  
## Hornet Sportabout 18.7 360 175 3.440  
## Valiant 18.1 225 105 3.460

car\_model <- lm(mpg ~ ., input)

#get summary  
summary(car\_model)

##   
## Call:  
## lm(formula = mpg ~ ., data = input)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.891 -1.640 -0.172 1.061 5.861   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 37.105505 2.110815 17.579 < 2e-16 \*\*\*  
## disp -0.000937 0.010350 -0.091 0.92851   
## hp -0.031157 0.011436 -2.724 0.01097 \*   
## wt -3.800891 1.066191 -3.565 0.00133 \*\*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 2.639 on 28 degrees of freedom  
## Multiple R-squared: 0.8268, Adjusted R-squared: 0.8083   
## F-statistic: 44.57 on 3 and 28 DF, p-value: 8.65e-11

# For a car with disp = 221, hp = 102 and wt = 2.91 the predicted mileage is   
#   
a <- data.frame(disp = 221, hp = 102, wt = 2.91)  
pred2 <- predict(car\_model, a)  
  
# printing the predicted mileage  
pred2

## 1   
## 22.65987

#### 2.3 Multiple Linear Regression

## Challenge   
# ---  
# Apply multiple linear regression for the stackloss dataset,   
# and predict the stack loss if the air flow is 62, water temperature is 19 and acid concentration is 84.  
  
#   
  
# Previewing the database stackloss  
#   
head(stackloss)

## Air.Flow Water.Temp Acid.Conc. stack.loss  
## 1 80 27 89 42  
## 2 80 27 88 37  
## 3 75 25 90 37  
## 4 62 24 87 28  
## 5 62 22 87 18  
## 6 62 23 87 18

model\_loss <- lm(stack.loss ~ ., stackloss)

a <- data.frame(Air.Flow = 62, Water.Temp = 19, Acid.Conc.= 84)

resu <- predict(model\_loss, a)  
resu

## 1   
## 16.28216

#### 3.1 Cross Validation Code

library(caret)

## Loading required package: lattice

## Example   
# ---  
# Cross Validation Example   
  
# Using the previous diamonds dataset   
set.seed(42)  
  
multiple\_lm2 <- train(price ~ ., diamonds,  
 method = "lm",   
 trControl = trainControl(method = "cv",   
 number = 10,   
 verboseIter = FALSE))  
summary(multiple\_lm2)

##   
## Call:  
## lm(formula = .outcome ~ ., data = dat)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -21376.0 -592.4 -183.5 376.4 10694.2   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 5753.762 396.630 14.507 < 2e-16 \*\*\*  
## carat 11256.978 48.628 231.494 < 2e-16 \*\*\*  
## cut.L 584.457 22.478 26.001 < 2e-16 \*\*\*  
## cut.Q -301.908 17.994 -16.778 < 2e-16 \*\*\*  
## cut.C 148.035 15.483 9.561 < 2e-16 \*\*\*  
## `cut^4` -20.794 12.377 -1.680 0.09294 .   
## color.L -1952.160 17.342 -112.570 < 2e-16 \*\*\*  
## color.Q -672.054 15.777 -42.597 < 2e-16 \*\*\*  
## color.C -165.283 14.725 -11.225 < 2e-16 \*\*\*  
## `color^4` 38.195 13.527 2.824 0.00475 \*\*   
## `color^5` -95.793 12.776 -7.498 6.59e-14 \*\*\*  
## `color^6` -48.466 11.614 -4.173 3.01e-05 \*\*\*  
## clarity.L 4097.431 30.259 135.414 < 2e-16 \*\*\*  
## clarity.Q -1925.004 28.227 -68.197 < 2e-16 \*\*\*  
## clarity.C 982.205 24.152 40.668 < 2e-16 \*\*\*  
## `clarity^4` -364.918 19.285 -18.922 < 2e-16 \*\*\*  
## `clarity^5` 233.563 15.752 14.828 < 2e-16 \*\*\*  
## `clarity^6` 6.883 13.715 0.502 0.61575   
## `clarity^7` 90.640 12.103 7.489 7.06e-14 \*\*\*  
## depth -63.806 4.535 -14.071 < 2e-16 \*\*\*  
## table -26.474 2.912 -9.092 < 2e-16 \*\*\*  
## x -1008.261 32.898 -30.648 < 2e-16 \*\*\*  
## y 9.609 19.333 0.497 0.61918   
## z -50.119 33.486 -1.497 0.13448   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1130 on 53916 degrees of freedom  
## Multiple R-squared: 0.9198, Adjusted R-squared: 0.9198   
## F-statistic: 2.688e+04 on 23 and 53916 DF, p-value: < 2.2e-16

multiple\_lm2

## Linear Regression   
##   
## 53940 samples  
## 9 predictor  
##   
## No pre-processing  
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 48547, 48545, 48546, 48545, 48546, 48546, ...   
## Resampling results:  
##   
## RMSE Rsquared MAE   
## 1130.819 0.9197489 740.5712  
##   
## Tuning parameter 'intercept' was held constant at a value of TRUE

# Once we have trained our model, we can directly use this train object as input to the predict method:  
  
pred3 <- predict(multiple\_lm2, diamonds)  
  
error <- pred3 - diamonds$price  
  
rmse\_xval <- sqrt(mean(error^2)) ## xval RMSE  
  
  
rmse\_xval

## [1] 1129.843

## Challenge  
# ---  
# Question: Train a linear model using 10-fold cross-validation and then use it to predict the median   
# value of owner-occupied homes in Boston from the Boston dataset as described above. Then calculate the RMSE.  
# ---  
# OUR CODE GOES BELOW  
#   
library(MASS)  
  
head(Boston)

## crim zn indus chas nox rm age dis rad tax ptratio black lstat  
## 1 0.00632 18 2.31 0 0.538 6.575 65.2 4.0900 1 296 15.3 396.90 4.98  
## 2 0.02731 0 7.07 0 0.469 6.421 78.9 4.9671 2 242 17.8 396.90 9.14  
## 3 0.02729 0 7.07 0 0.469 7.185 61.1 4.9671 2 242 17.8 392.83 4.03  
## 4 0.03237 0 2.18 0 0.458 6.998 45.8 6.0622 3 222 18.7 394.63 2.94  
## 5 0.06905 0 2.18 0 0.458 7.147 54.2 6.0622 3 222 18.7 396.90 5.33  
## 6 0.02985 0 2.18 0 0.458 6.430 58.7 6.0622 3 222 18.7 394.12 5.21  
## medv  
## 1 24.0  
## 2 21.6  
## 3 34.7  
## 4 33.4  
## 5 36.2  
## 6 28.7

set.seed(42)  
  
model <- train(price ~ ., diamonds,  
 method = "lm",   
 trControl = trainControl(method = "cv",   
 number = 10,   
 verboseIter = FALSE))  
summary(multiple\_lm2)

##   
## Call:  
## lm(formula = .outcome ~ ., data = dat)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -21376.0 -592.4 -183.5 376.4 10694.2   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 5753.762 396.630 14.507 < 2e-16 \*\*\*  
## carat 11256.978 48.628 231.494 < 2e-16 \*\*\*  
## cut.L 584.457 22.478 26.001 < 2e-16 \*\*\*  
## cut.Q -301.908 17.994 -16.778 < 2e-16 \*\*\*  
## cut.C 148.035 15.483 9.561 < 2e-16 \*\*\*  
## `cut^4` -20.794 12.377 -1.680 0.09294 .   
## color.L -1952.160 17.342 -112.570 < 2e-16 \*\*\*  
## color.Q -672.054 15.777 -42.597 < 2e-16 \*\*\*  
## color.C -165.283 14.725 -11.225 < 2e-16 \*\*\*  
## `color^4` 38.195 13.527 2.824 0.00475 \*\*   
## `color^5` -95.793 12.776 -7.498 6.59e-14 \*\*\*  
## `color^6` -48.466 11.614 -4.173 3.01e-05 \*\*\*  
## clarity.L 4097.431 30.259 135.414 < 2e-16 \*\*\*  
## clarity.Q -1925.004 28.227 -68.197 < 2e-16 \*\*\*  
## clarity.C 982.205 24.152 40.668 < 2e-16 \*\*\*  
## `clarity^4` -364.918 19.285 -18.922 < 2e-16 \*\*\*  
## `clarity^5` 233.563 15.752 14.828 < 2e-16 \*\*\*  
## `clarity^6` 6.883 13.715 0.502 0.61575   
## `clarity^7` 90.640 12.103 7.489 7.06e-14 \*\*\*  
## depth -63.806 4.535 -14.071 < 2e-16 \*\*\*  
## table -26.474 2.912 -9.092 < 2e-16 \*\*\*  
## x -1008.261 32.898 -30.648 < 2e-16 \*\*\*  
## y 9.609 19.333 0.497 0.61918   
## z -50.119 33.486 -1.497 0.13448   
## ---  
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##   
## Residual standard error: 1130 on 53916 degrees of freedom  
## Multiple R-squared: 0.9198, Adjusted R-squared: 0.9198   
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multiple\_lm2

## Linear Regression   
##   
## 53940 samples  
## 9 predictor  
##   
## No pre-processing  
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 48547, 48545, 48546, 48545, 48546, 48546, ...   
## Resampling results:  
##   
## RMSE Rsquared MAE   
## 1130.819 0.9197489 740.5712  
##   
## Tuning parameter 'intercept' was held constant at a value of TRUE