

```

> set.seed(1, sample.kind = "Rounding")
Warning message:
In set.seed(1, sample.kind = "Rounding") :
  non-uniform 'Rounding' sampler used
> n <- 100
> Sigma <- 9*matrix(c(1.0, 0.95, 0.95, 1.0), 2, 2)
> dat <- MASS::mvrnorm(n = 100, c(69, 69), Sigma) %>%
+ data.frame() %>% setNames(c("x", "y"))
> dim(dat)
[1] 100  2
> head(dat)
      x      y
1 67.43855 66.85001
2 69.52402 69.56398
3 66.95674 66.09256
4 73.65068 73.80060
5 70.28659 69.66559
6 65.73126 67.40786
>
>
> set.seed(1, sample.kind="Rounding")
Warning message:
In set.seed(1, sample.kind = "Rounding") :
  non-uniform 'Rounding' sampler used
> rmse <- replicate(100, {
+ test_index <- createDataPartition(dat$y, times = 1, p = 0.5, list = FALSE)
+ train_set <- dat %>% slice(-test_index)
+ test_set <- dat %>% slice(test_index)
+ fit <- lm(y ~ x, data = train_set)
+ y_hat <- predict(fit, newdata = test_set)
+ sqrt(mean((y_hat-test_set$y)^2))
+ })
> mean(rmse)
[1] 0.9099808
> sd(rmse)
[1] 0.06244347
>

```