

# Simulation test for single mean

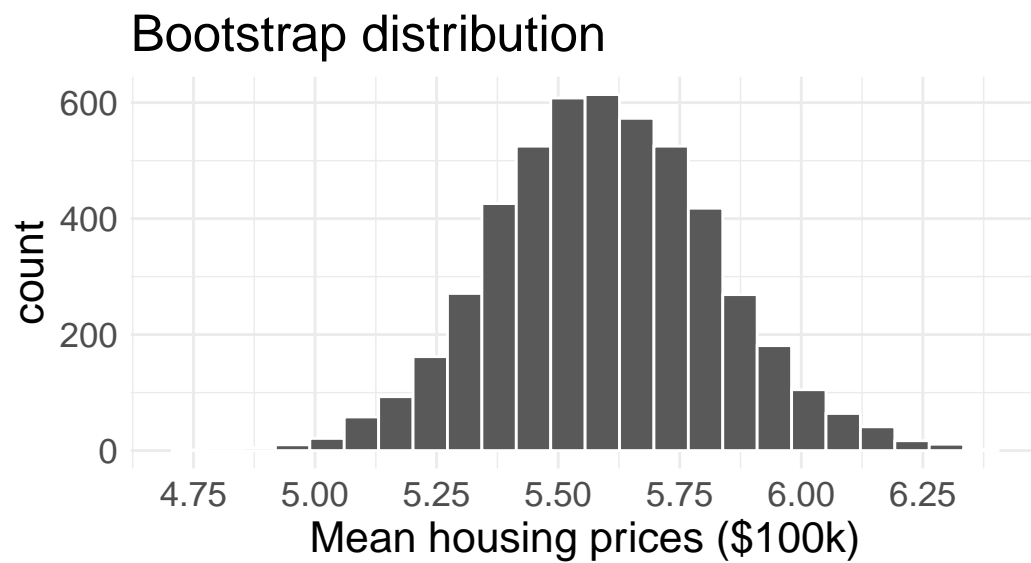
I am interested in learning if the average price of houses in Duke Forest in 2020 was \$500,000 or not.

$H_0$  :

$H_A$  :

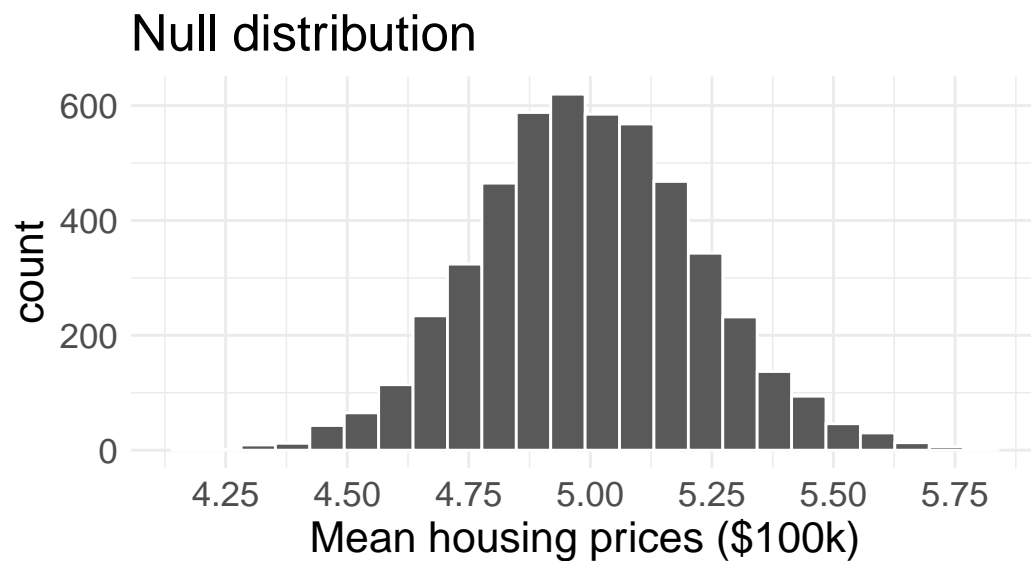
Summary information:

$\alpha$  :



How do we obtain the null distribution?

```
1 mu0 <- 5
2
3 # xbar holds observed sample mean
4 shift <- xbar - mu0
5
6 # boot_means is a vector holding B bootstrapped sample means
7 null_dist <- boot_means - shift
```



p-value:

Decision:

Conclusion: