

Statistical Rethinking Notes - Chapter 3

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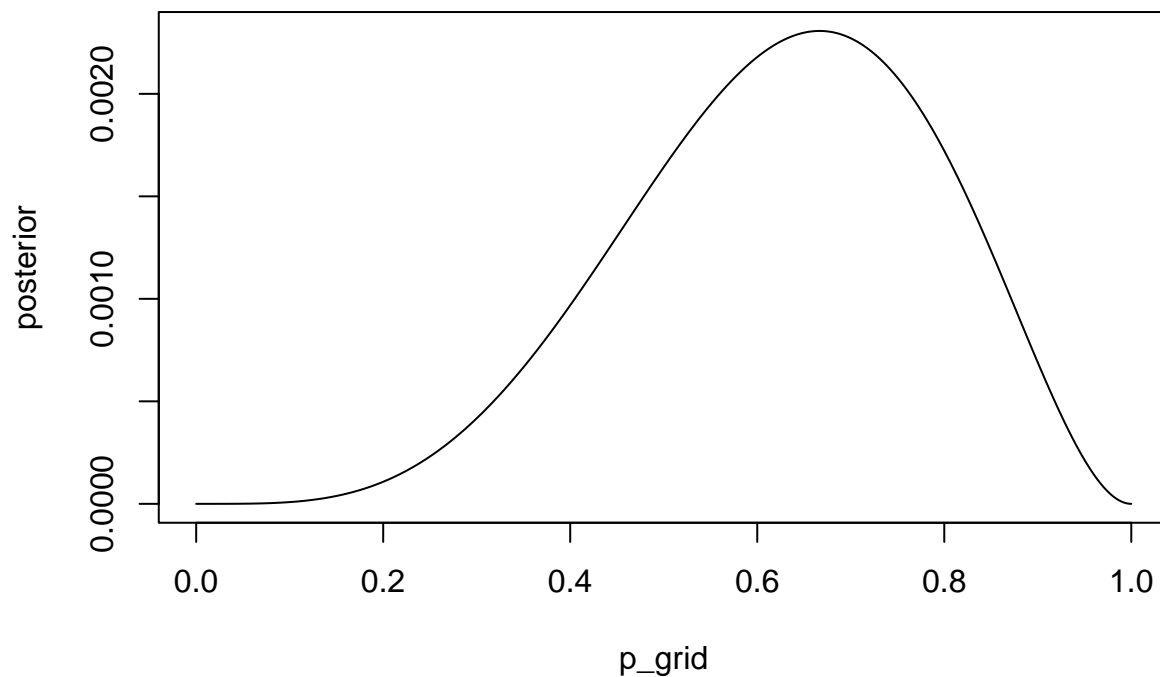
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Chapter 3

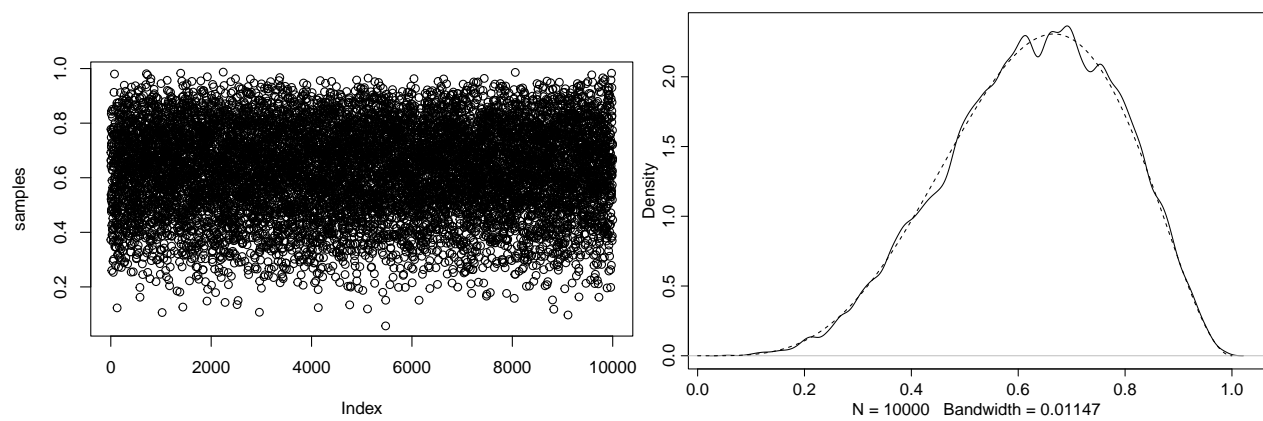
```
library(rethinking)
```

```
p_grid <- seq( from=0 , to=1 , length.out=1000 )  
prob_p <- rep( 1 , 1000 )  
prob_data <- dbinom( 4 , size=6 , prob=p_grid )  
posterior <- prob_data * prob_p  
posterior <- posterior / sum(posterior)
```

```
plot(p_grid, posterior, type="l")
```



```
samples <- sample( p_grid , prob=posterior , size=1e4 , replace=TRUE )  
plot(samples)  
dens(samples)  
lines(p_grid, posterior * 1000, lty=2) # why do I need to multiply by 1000?
```



```
dens(samples)
```

