

# Lab 2 Homework Template

Your Name Here

2020-08-25

## Lab 2a. Enter and visualize your ethogram data

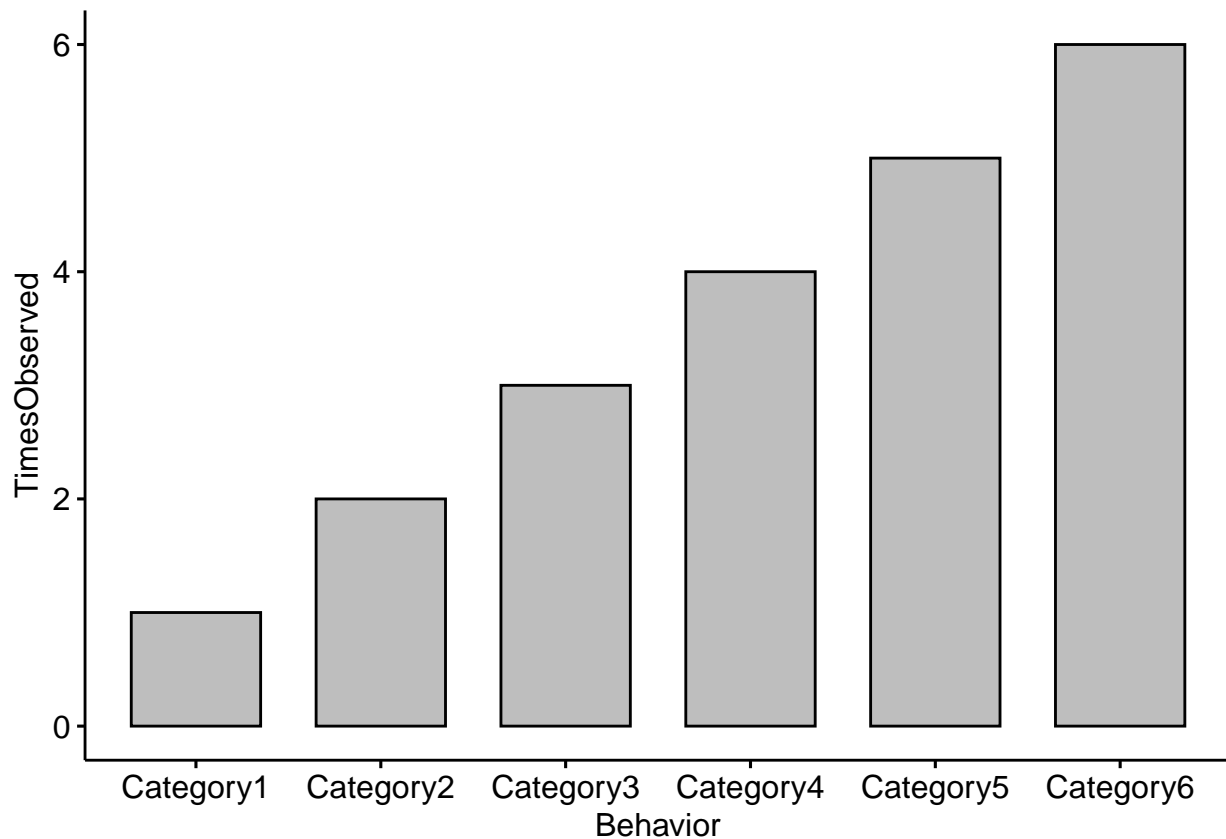
**Question 1.** Change the code below to reflect the categories you used in your ethogram and change the TimesObserved values to the actual values you recorded. NOTE: You may need to add more categories if your ethogram had more than six. What trends did you notice in terms of behaviors observed?

*# MODIFY THE CODE BELOW*

```
EthogramDFupdated <- data.frame(Behavior=c('Category1','Category2','Category3',  
                                           'Category4','Category5','Category6'),  
                                TimesObserved=c(1,2,3,4,5,6))
```

*# Now plot the results*

```
ggbarmplot(data=EthogramDFupdated, x='Behavior', y='TimesObserved',fill='grey')
```



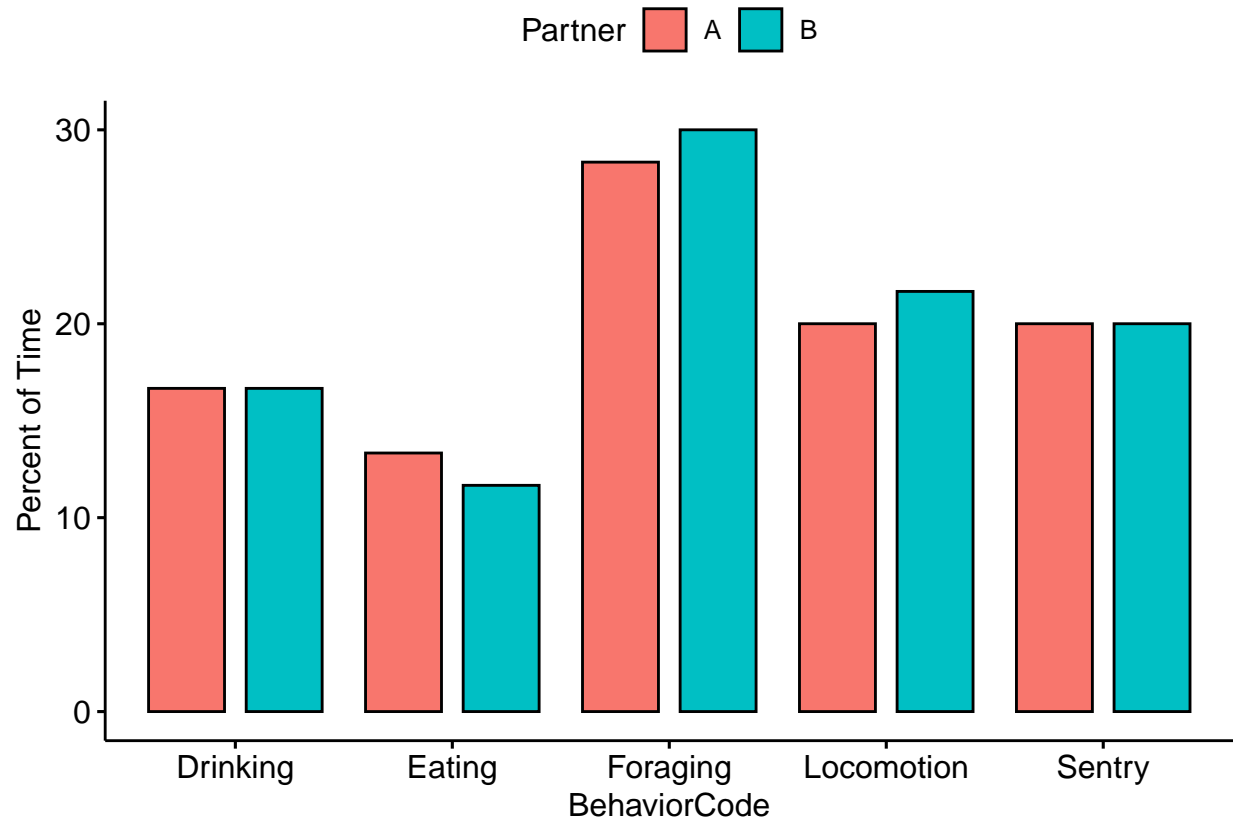
## Lab 2b. Qualitatively compare the ethograms of two primate individuals

**Question 2.** What differences do you notice about the behaviors of our two simulated primates?

ADD TEXT HERE TO ANSWER QUESTION 2

## Lab 2c. Calculate meerkat activity budgets.

Now we compare our data with our partner's. Assuming you were able to successfully upload your data the code below should run without problems.

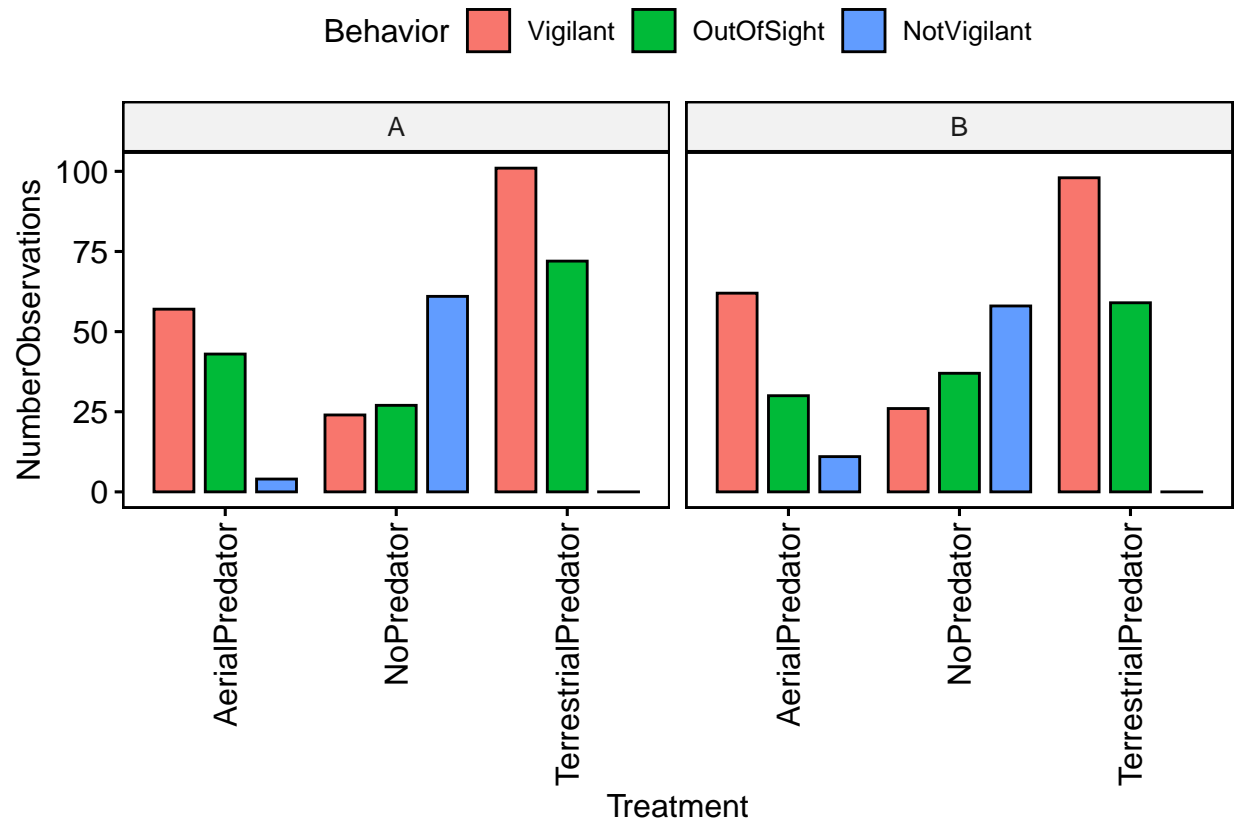


**Question 3.** Were there any noticeable differences between you and your partner's activity budgets?

ADD TEXT HERE TO ANSWER QUESTION 3

## Lab 2d. Scan sampling and inter-observer reliability.

Now we will compare inter-observer reliability. Assuming you were able to successfully upload your data the code below should run without problems.



Now we will calculate inter-observer reliability. You may need to modify the code below to reflect the names of you and your partner.

```
## VigilantCorrelation NotVigilantCorrelation OutOfSightCorrelation
## 1 0.9027009 0.9347273 0.7840471
```

**Question 4.** What was the reliability (or correlation coefficient) between you and your partner for each of the different behavioral categories? What do you think lead to these differences?

ADD TEXT HERE TO ANSWER QUESTION 4