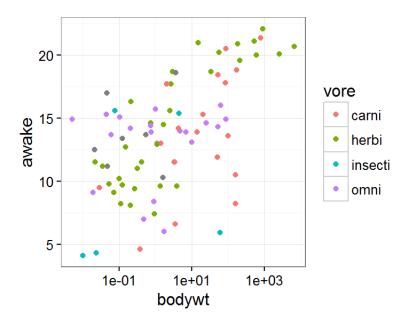
Lab Worksheet 2

We will be working with the msleep data set that is provided with ggplot2. The data set contains information about the sleep habits of 83 mammals. Enter msleep on the R command line to learn more about the dataset.

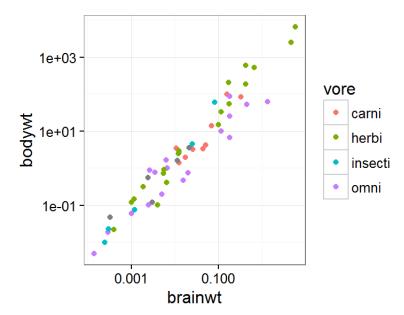
Question 1: Make the following plots: (i) a plot of total time awake vs. body weight, colored by "vore" (carnivore, herbivore, etc.); (ii) a plot of body weight vs. brain weight, colored by "vore". When you plot body weight and/or brain weight, consider whether a linear scale or a logarithmic scale seems more appropriate, and explain your reasoning in 1-2 sentences. **HINT:** Use the functions scale_x_log10() and scale_y_log10() to change the scales.

ggplot(msleep, aes(x=bodywt, y=awake, color=vore)) + geom_point()+scale_x_log10()



ggplot(msleep, aes(x=brainwt, y=bodywt, color=vore)) + geom_point() + scale_y_log10() + scale_x_log1
0()

Warning: Removed 27 rows containing missing values (geom_point).



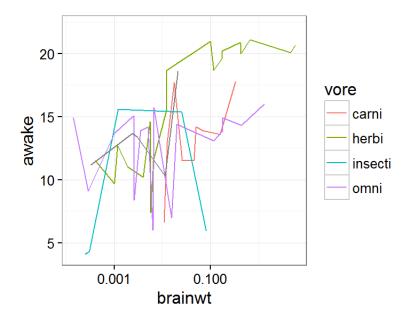
It is more appropriate to use the logarithmic scale in order to incorpate the data points in a reasonable scale that displays the data appropriately.

Question 2: Explain the difference between <code>geom_line()</code> and <code>geom_path()</code>. Make up a simple data set (5-10 data points), plot it twice, once using <code>geom_line()</code> and once using <code>geom_path()</code>, and explain why each plot looks the way it does.

geom path connects observations by the order in which they appear, while geom line connects them in order of variable on the x-axis

```
# your R code goes here
sleep <- msleep[, 1:10]
ggplot(sleep, aes(x=brainwt, y=awake, color=vore)) + geom_line() + scale_x_log10()</pre>
```

Warning: Removed 27 rows containing missing values (geom path).



Warning: Removed 4 rows containing missing values (geom_path).

