Reordering Data

Getting and Cleaning Data

```
> msleep %>%
+   filter(order == "Primates", sleep_total > 10) %>%
+   select(name, sleep_rem, sleep_cycle, sleep_total)
# A tibble: 5 x 4
  name          sleep_rem sleep_cycle sleep_total
  <chr>             <dbl>       <dbl>       <dbl>
1 Owl monkey         1.80      NA           17.0
2 Patas monkey       1.10      NA           10.9
3 Macaque            1.20       0.750       10.1
4 Slow loris        NA         NA           11.0
5 Potto             NA         NA           11.0
```

```
msleep %>%
  filter(order == "Primates", sleep_total > 10) %>%
  select(name, sleep_rem, sleep_cycle, sleep_total, everything())
```

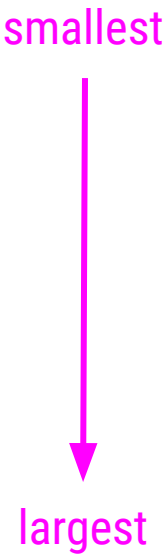
```
# A tibble: 5 x 11
  name          sleep_rem sleep_cycle sleep_total genus      vore  order   conservation awake brainwt bodywt
  <chr>             <dbl>       <dbl>       <dbl> <chr>      <chr> <chr>   <chr>        <dbl>   <dbl>  <dbl>
1 Owl monkey          1.8          NA          17 Aotus      omni  Primat… NA             7    0.0155   0.48
2 Patas monk…         1.1          NA          10.9 Erythroce… omni  Primat… lc          13.1    0.115   10
3 Macaque             1.2           0.75       10.1 Macaca     omni  Primat… NA          13.9    0.179    6.8
4 Slow loris         NA            NA          11 Nyctibeus  carni Primat… NA            13      0.0125   1.4
5 Potto              NA            NA          11 Perodicti… omni  Primat… lc          13     NA        1.1
```

Reordered columns

Everything else!

```
msleep %>%
  filter(order == "Primates") %>%
  select(name, sleep_rem, sleep_cycle, sleep_total) %>%
  arrange(sleep_total)
```

```
# A tibble: 12 x 4
   name            sleep_rem sleep_cycle sleep_total
   <chr>               <dbl>       <dbl>       <dbl>
 1 Human                 1.9       1.5           8
 2 Baboon                1         0.667         9.4
 3 Mongoose lemur        0.9      NA             9.5
 4 Squirrel monkey       1.4      NA             9.6
 5 Chimpanzee            1.4       1.42          9.7
 6 Galago                1.1       0.55          9.8
 7 Grivet                0.7      NA            10
 8 Macaque               1.2       0.75         10.1
 9 Patas monkey          1.1      NA            10.9
10 Slow loris           NA        NA            11
11 Potto                NA        NA            11
12 Owl monkey           1.8      NA            17
```



```
msleep %>%
  filter(order == "Primates") %>%
  select(name, sleep_rem, sleep_cycle, sleep_total) %>%
  arrange(desc(sleep_total))
```

```
# A tibble: 12 x 4
   name            sleep_rem sleep_cycle sleep_total
   <chr>               <dbl>       <dbl>       <dbl>
 1 Owl monkey            1.8      NA            17
 2 Slow loris           NA        NA            11
 3 Potto                NA        NA            11
 4 Patas monkey          1.1      NA            10.9
 5 Macaque               1.2       0.75         10.1
 6 Grivet                0.7      NA            10
 7 Galago                1.1       0.55          9.8
 8 Chimpanzee            1.4       1.42          9.7
 9 Squirrel monkey       1.4      NA             9.6
10 Mongoose lemur        0.9      NA             9.5
11 Baboon                1         0.667         9.4
12 Human                 1.9       1.5           8
```

largest

smallest

```r
msleep %>%
  filter(order == "Primates") %>%
  select(name, sleep_rem, sleep_cycle, sleep_total) %>%
  arrange(name)
```

```
# A tibble: 12 x 4
   name            sleep_rem sleep_cycle sleep_total
   <chr>               <dbl>       <dbl>       <dbl>
 1 Baboon              1           0.667         9.4
 2 Chimpanzee          1.4         1.42          9.7
 3 Galago              1.1         0.55          9.8
 4 Grivet              0.7        NA            10
 5 Human               1.9         1.5           8
 6 Macaque             1.2         0.75         10.1
 7 Mongoose lemur      0.9        NA             9.5
 8 Owl monkey          1.8        NA            17
 9 Patas monkey        1.1        NA            10.9
10 Potto              NA          NA            11
11 Slow loris         NA          NA            11
12 Squirrel monkey     1.4        NA             9.6
```

Sorted alphabetically by name

```
msleep %>%
  filter(order == "Primates") %>%
  select(name, sleep_rem, sleep_cycle, sleep_total) %>%
  arrange(sleep_cycle, sleep_total)
```

```
# A tibble: 12 x 4
   name            sleep_rem sleep_cycle sleep_total
   <chr>               <dbl>       <dbl>       <dbl>
 1 Galago                1.1       0.55          9.8
 2 Baboon                1         0.667         9.4
 3 Macaque               1.2       0.75         10.1
 4 Chimpanzee            1.4       1.42          9.7
 5 Human                 1.9       1.5           8
 6 Mongoose lemur        0.9      NA             9.5
 7 Squirrel monkey       1.4      NA             9.6
 8 Grivet                0.7      NA            10
 9 Patas monkey          1.1      NA            10.9
10 Slow loris           NA        NA            11
11 Potto                NA        NA            11
12 Owl monkey           1.8      NA            17
```

Sorted first by sleep_cycle …

… and then sorted by sleep_total

Summarizing: Reordering Data

Getting and Cleaning Data