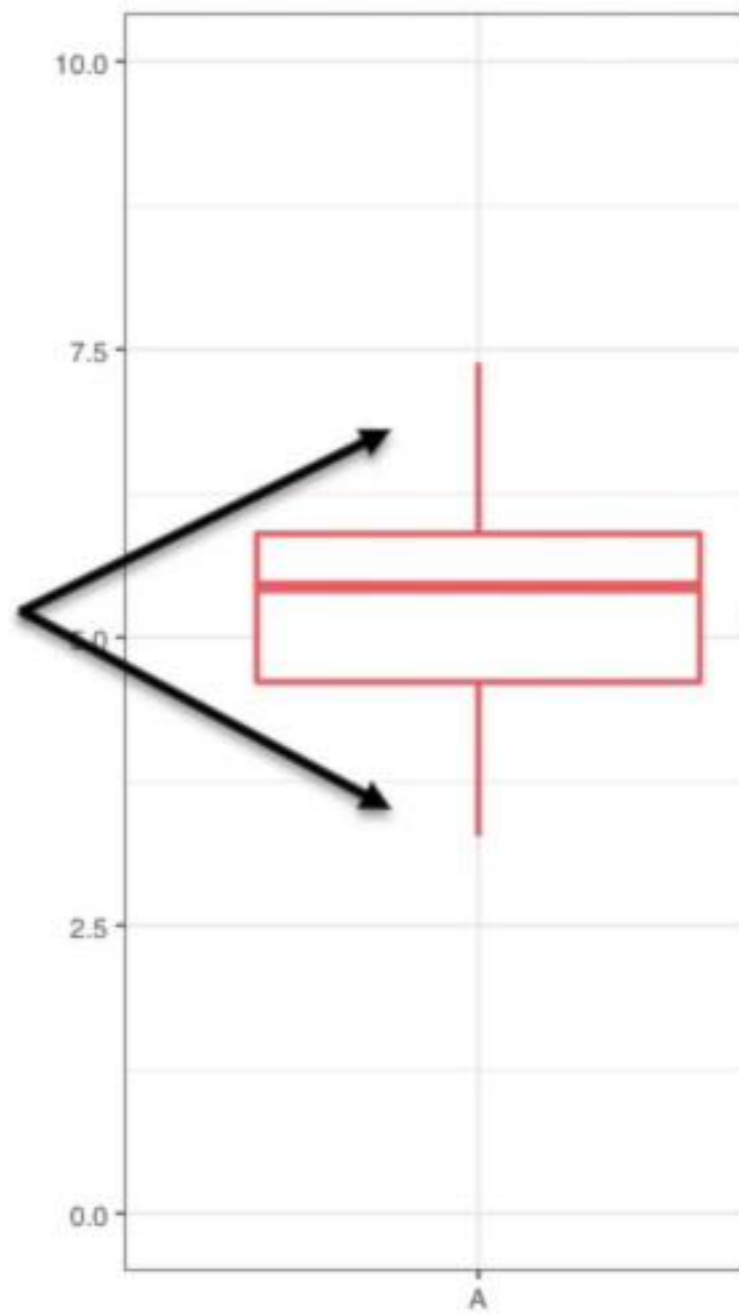


Stat...

Sometimes boxplots are called “box and whisker” plots.

The whiskers...



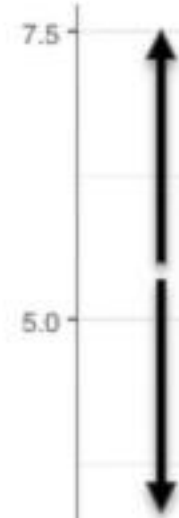
The box...

50% of the  
data is above  
the median



The median value

50% of the  
data is above  
the median



7.5

5.0

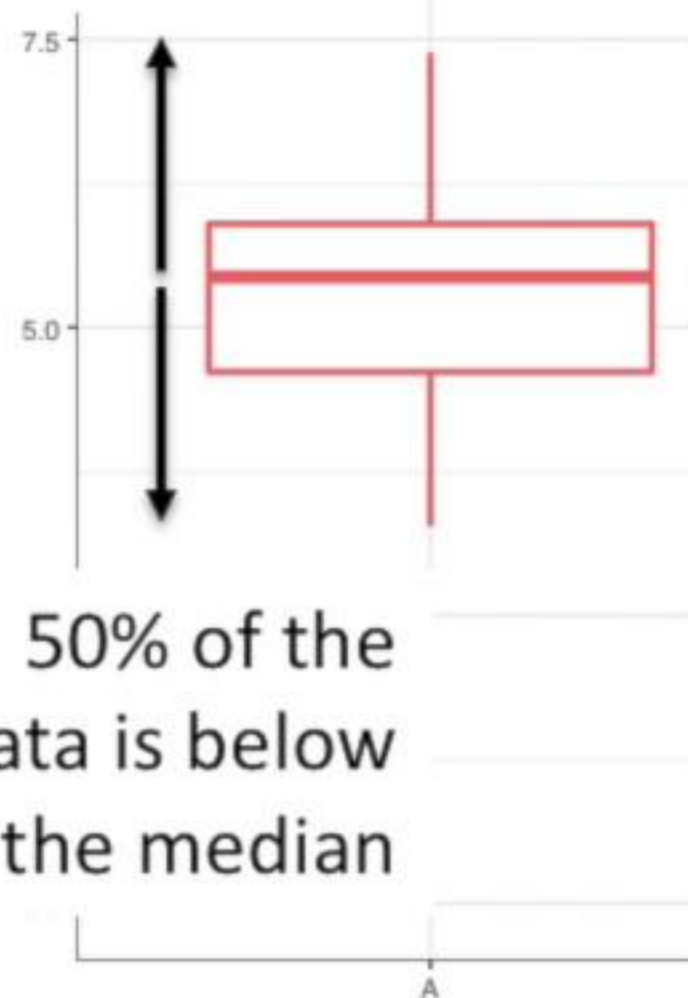
50% of the  
data is below  
the median



A

← The median value

50% of the  
data is above  
the median



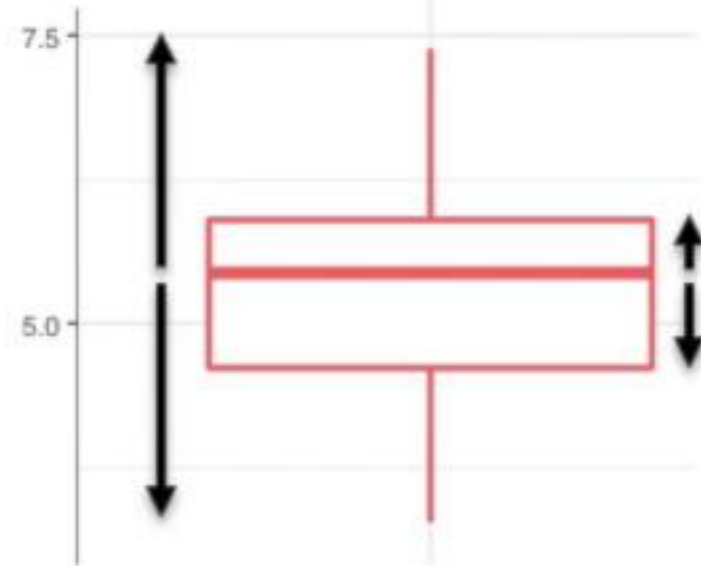
← The median value

George Carlin, host of the children's television show, "Shining Time Station", once said:

"Think of how stupid the average person is, and realize half of them are stupider than that".

I think Mr. Carlin was referring to the median, not the average, but that's OK. It's still funny.

50% of the  
data is above  
the median

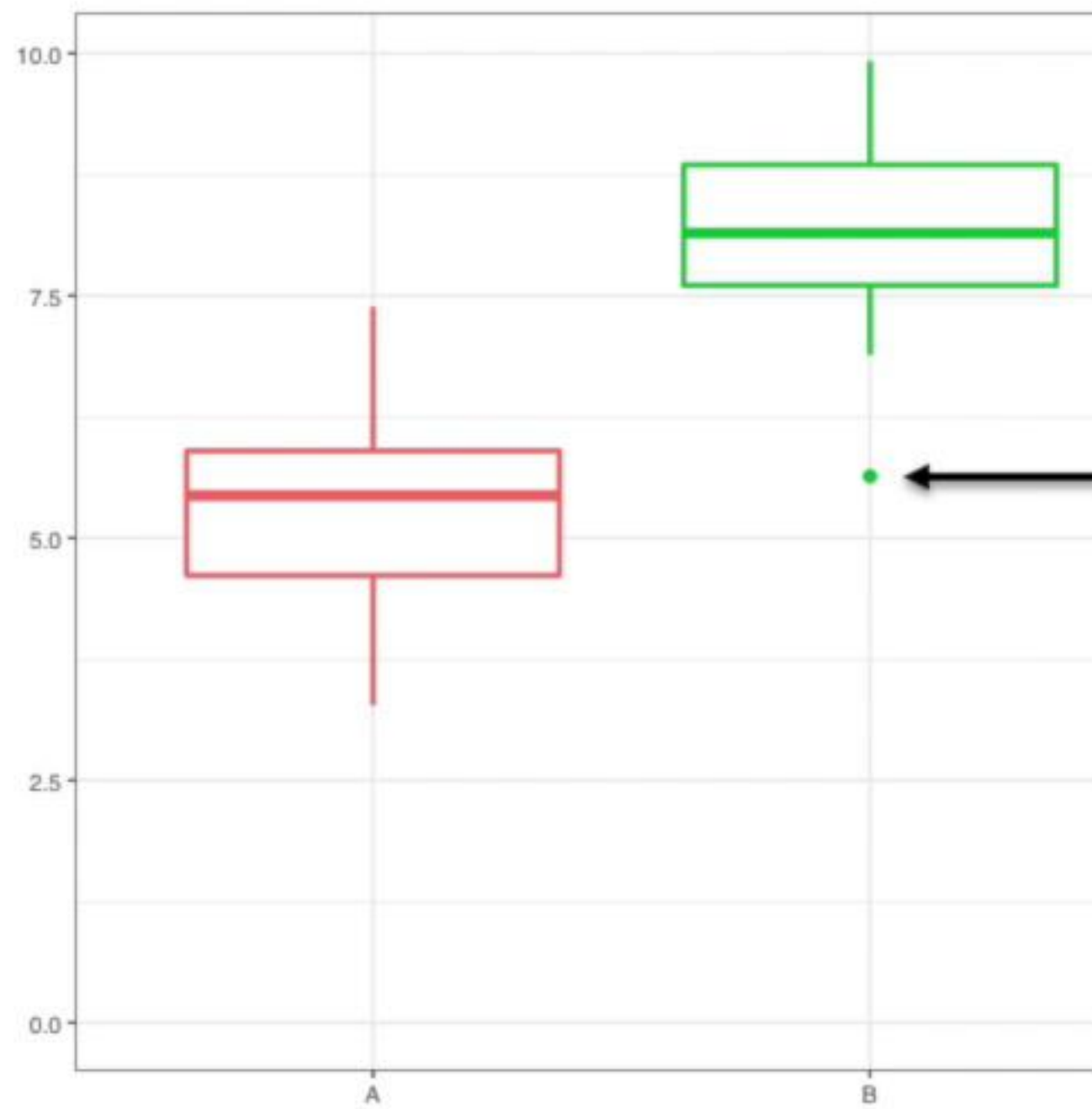


50% of the  
data is below  
the median



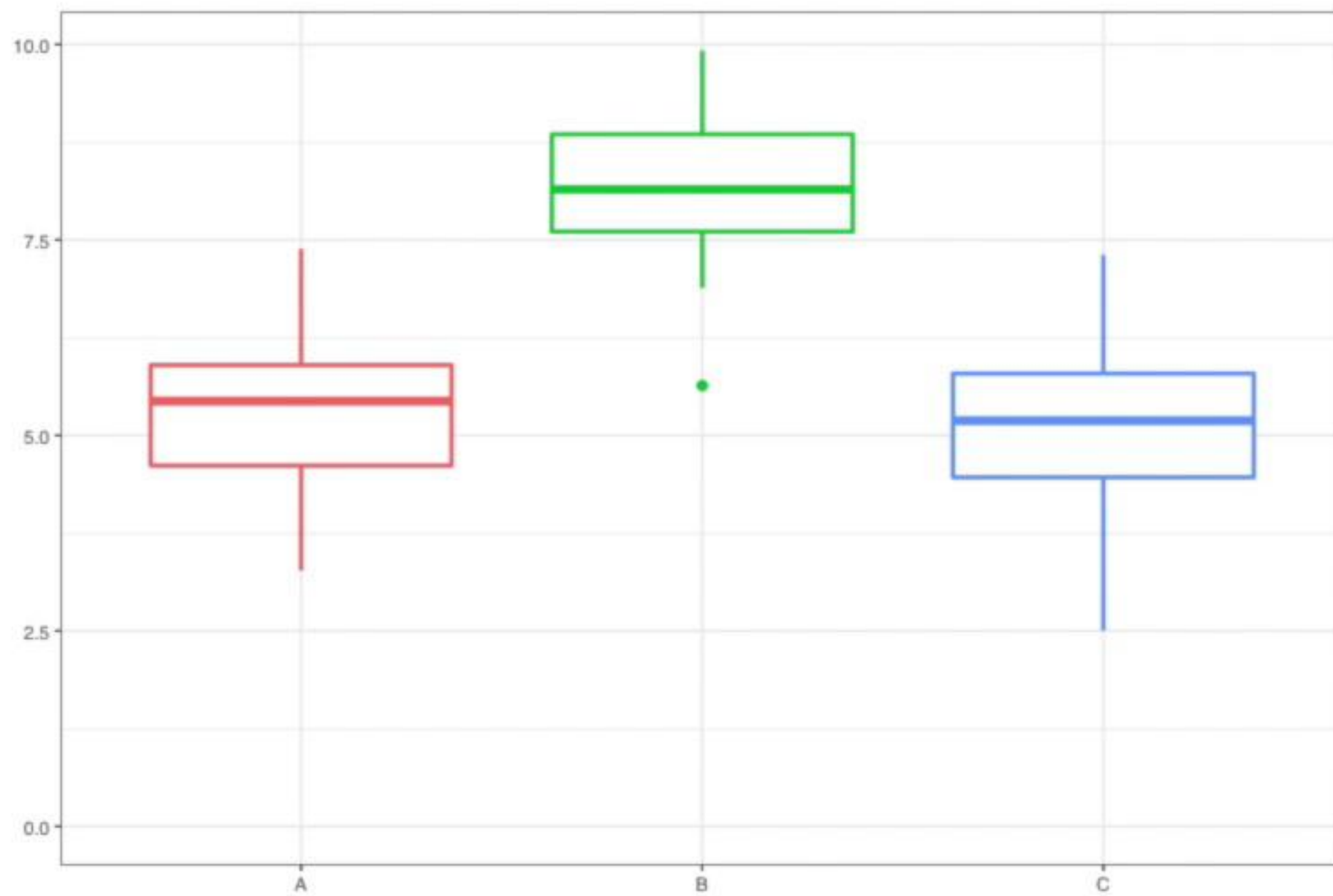
Within the box itself, we  
have 25% of the data  
above the median...

... and 25% of the data  
below the median



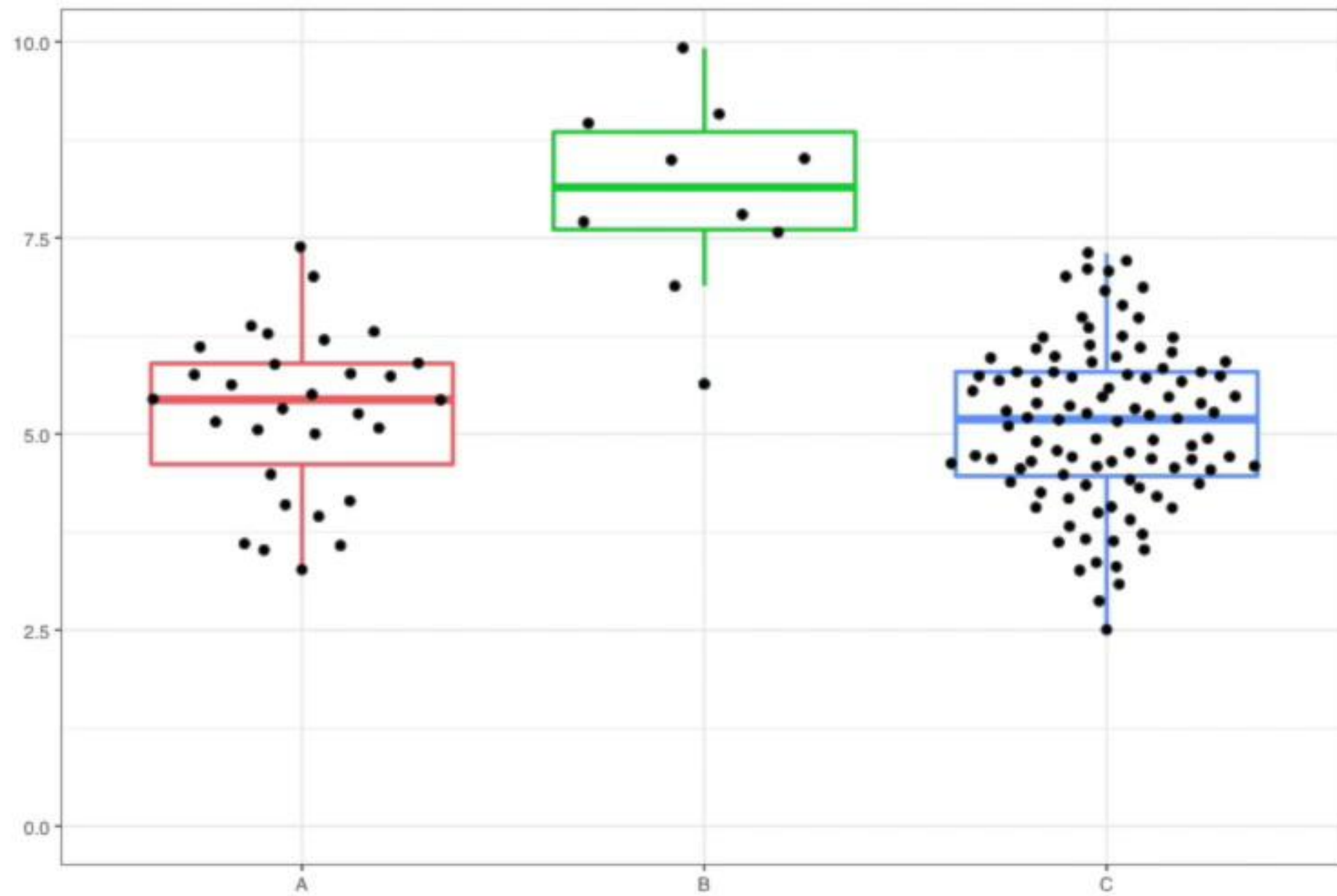
Outliers are plotted as dots  
beyond the “whiskers”.

Totes bad to the bone!!!!

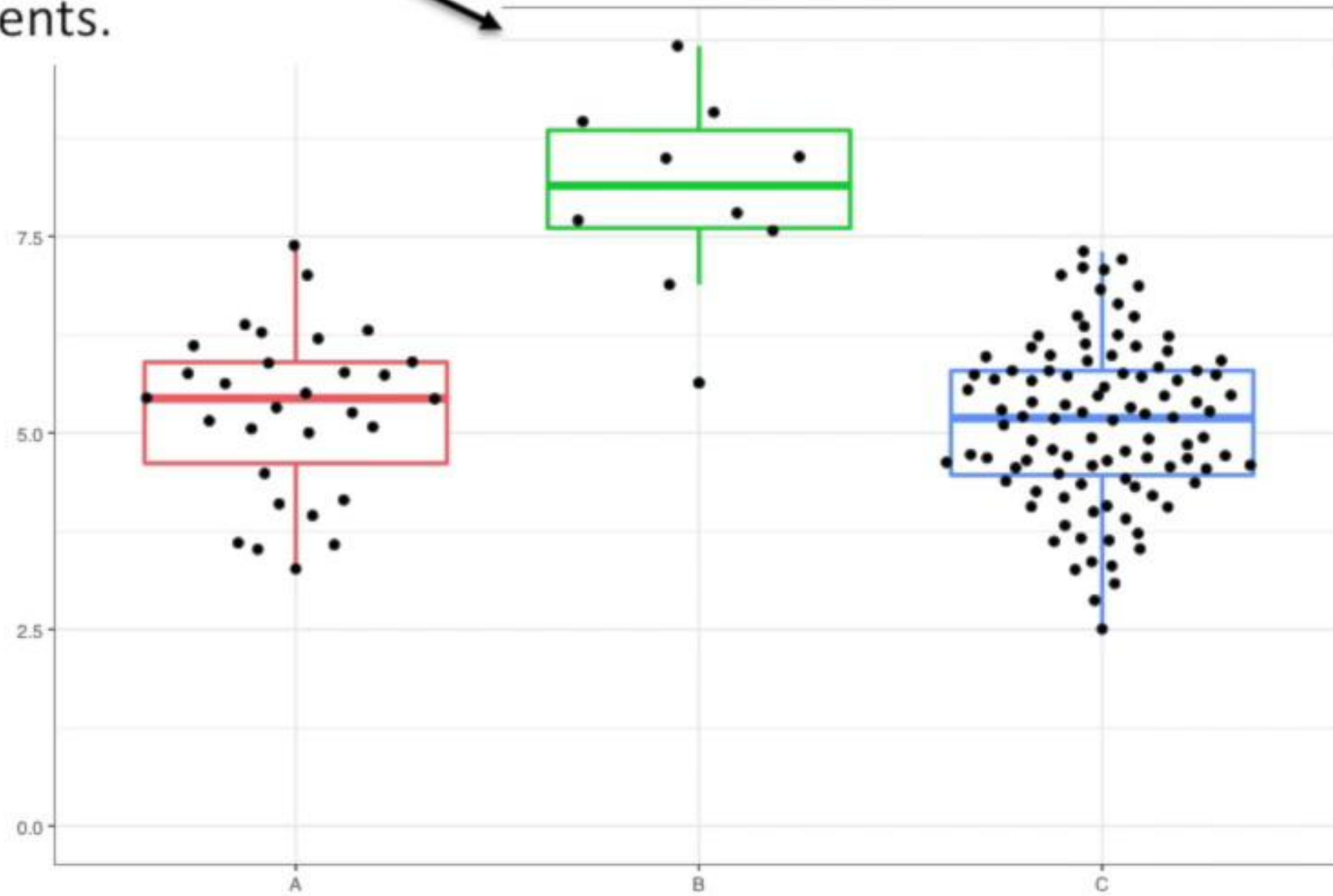




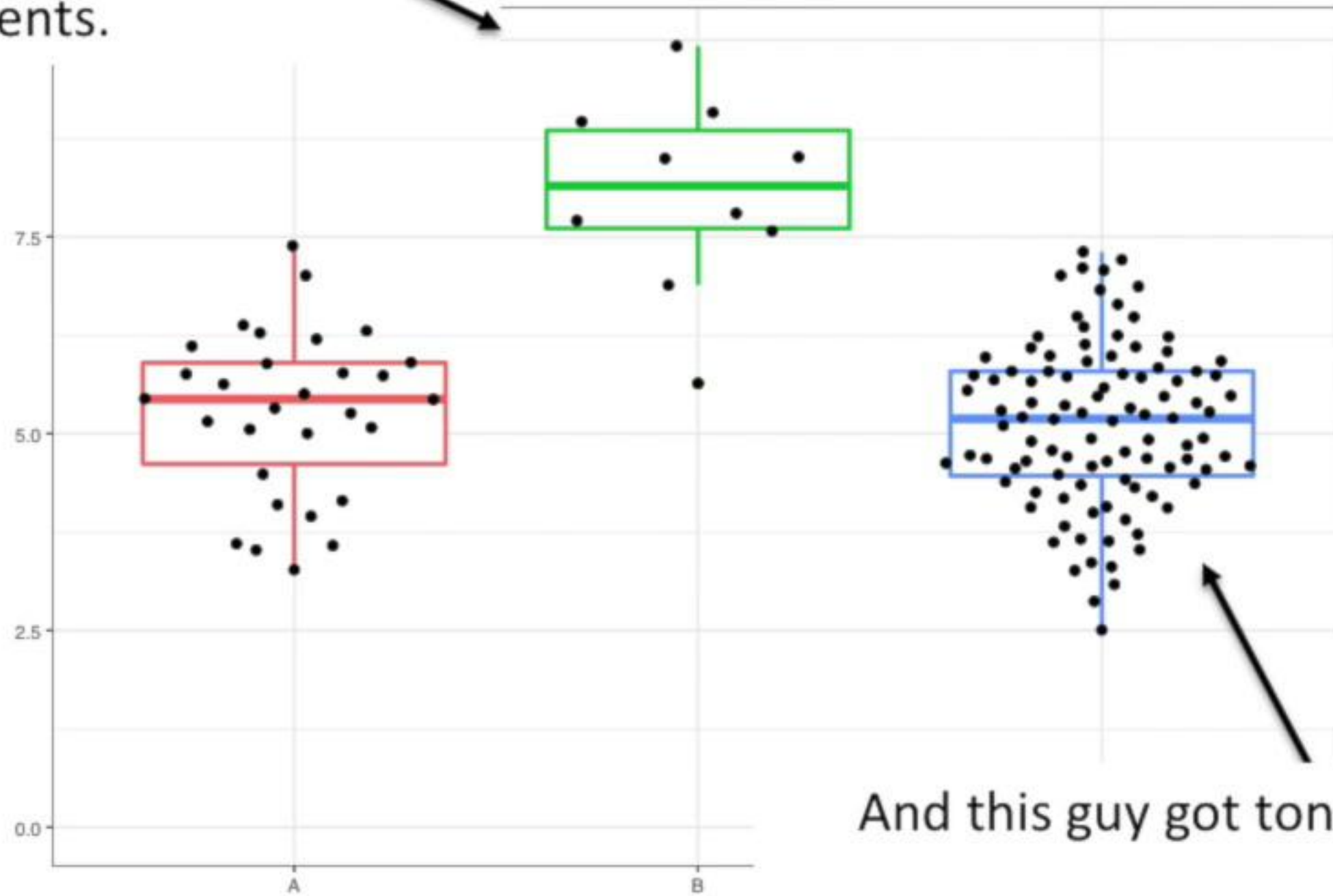
It's common to overlay the original data onto the boxplots



Now it's easy to see that this  
guy didn't get many  
measurements.



Now it's easy to see that this  
guy didn't get many  
measurements.

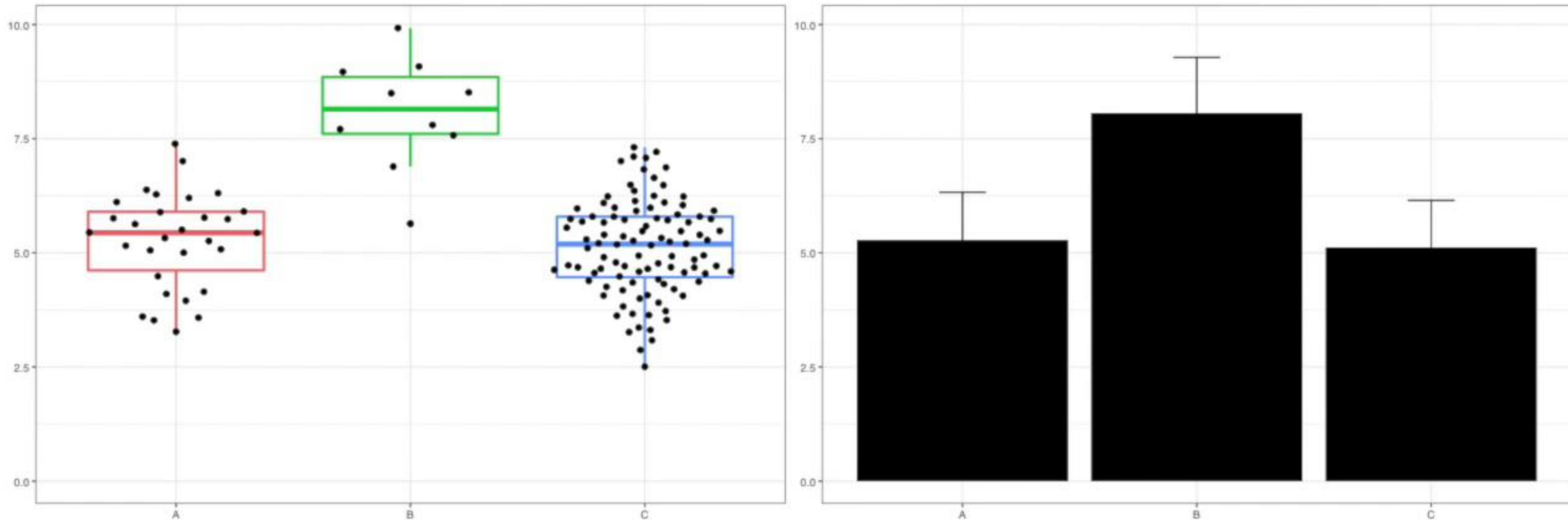


Super totes bad to the bone!!!!

And this guy got tons of measurements.

This means we'll be more confident in the  
statistics calculated from this guy.

Bask in the awesomeness of boxplots compared to the traditional bar plots!!!!



Both graphs show the exact same data!