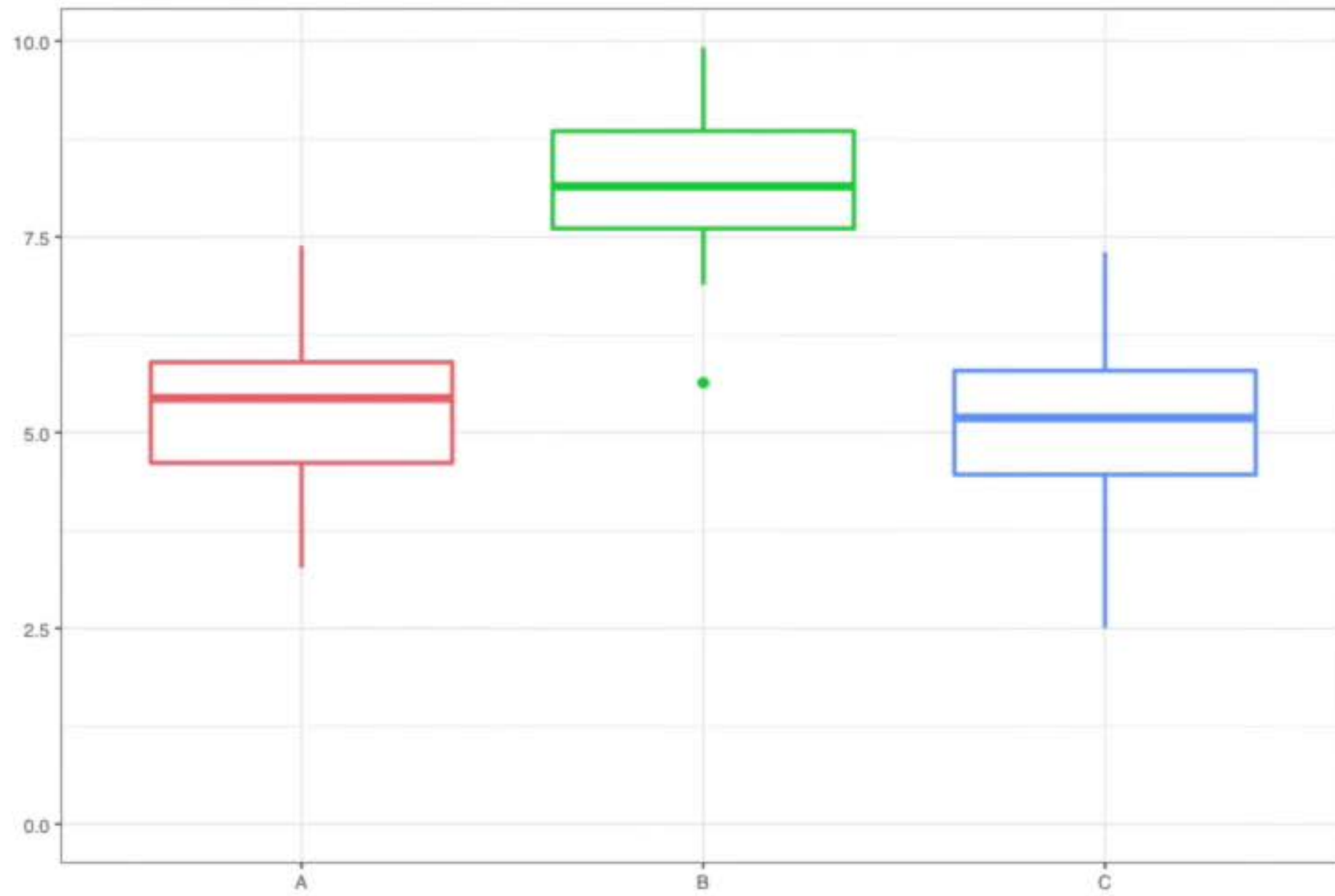
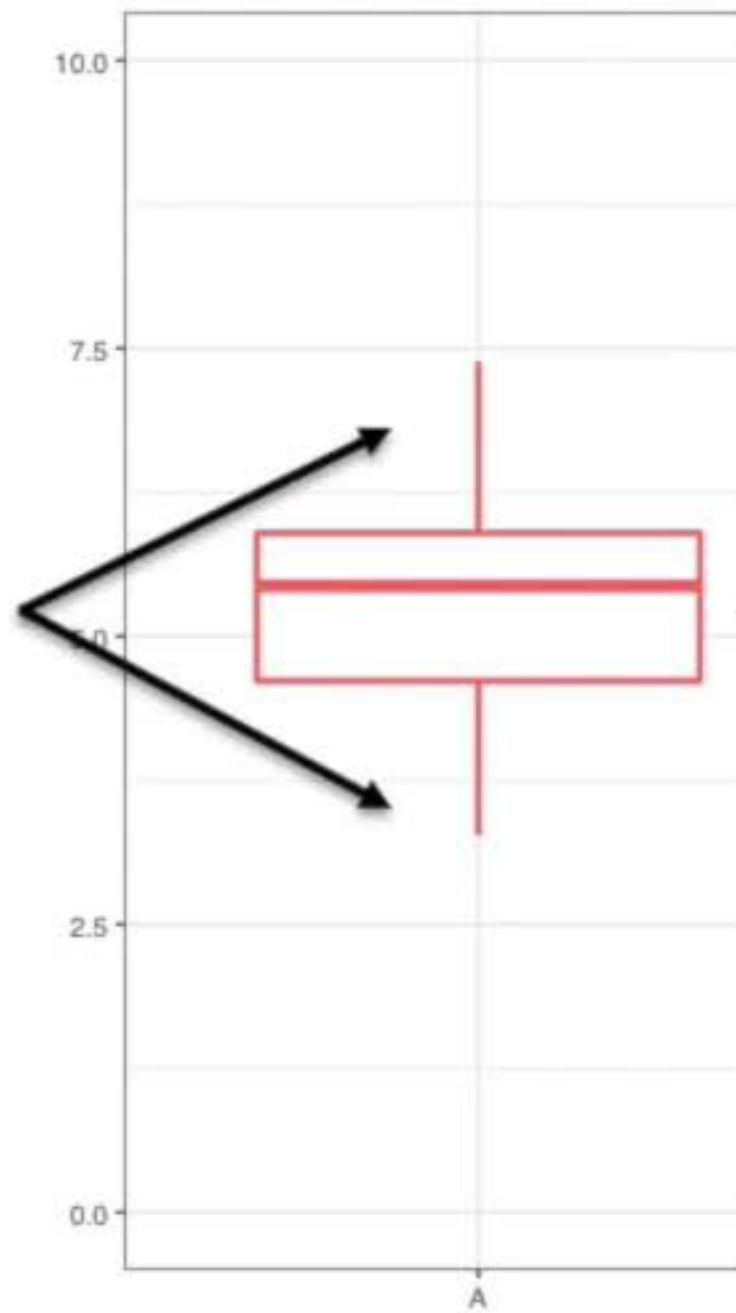


Check'em out!!!

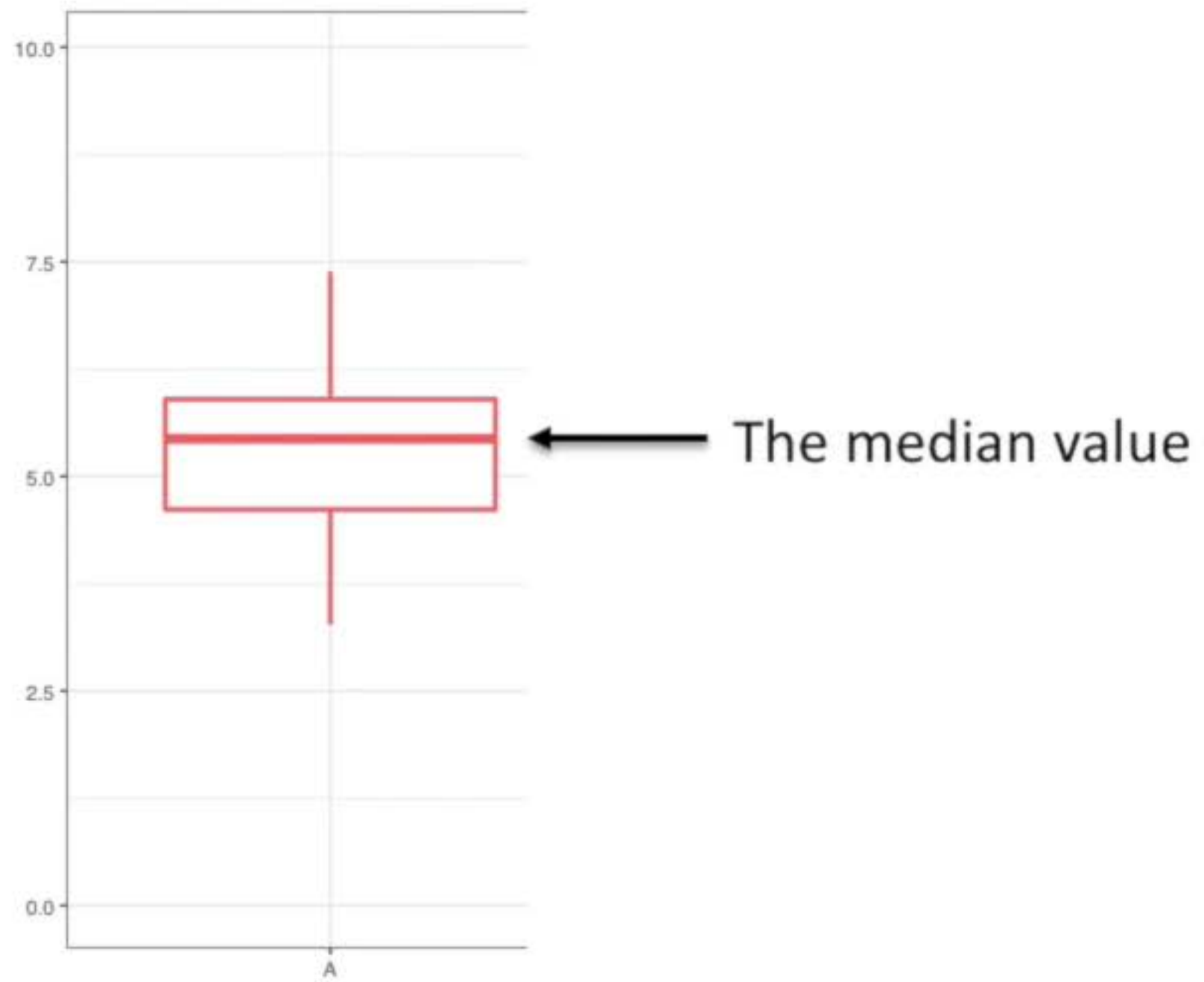


Sometimes boxplots are called “box and whisker” plots.

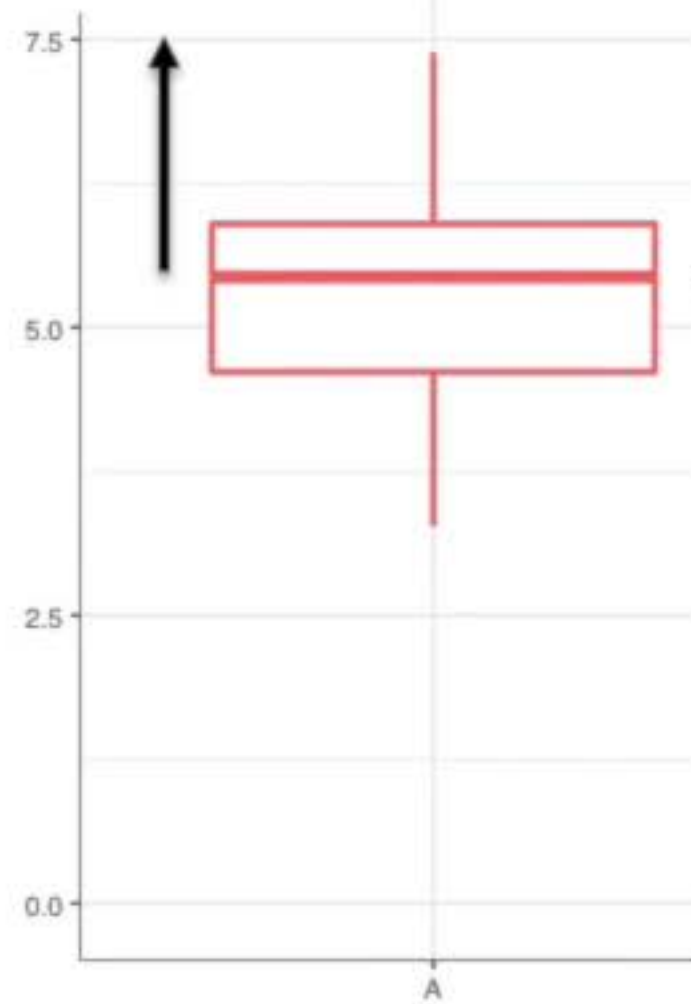
The whiskers...



The box...

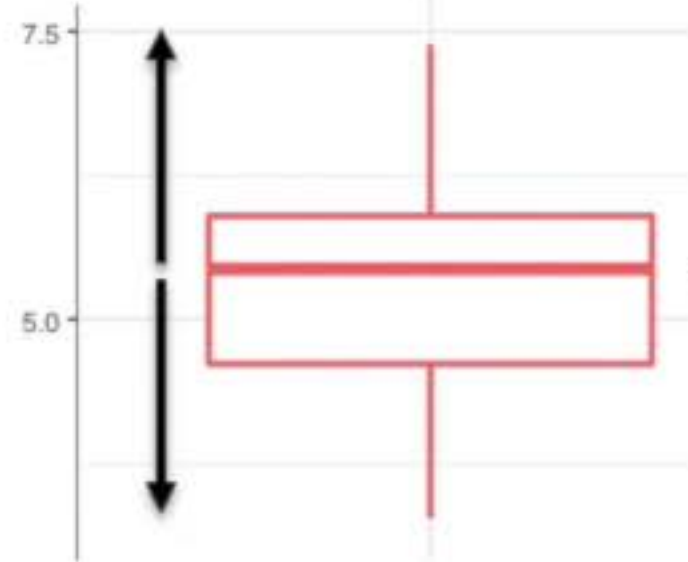


50% of the
data is above
the median



The median value

50% of the
data is above
the median

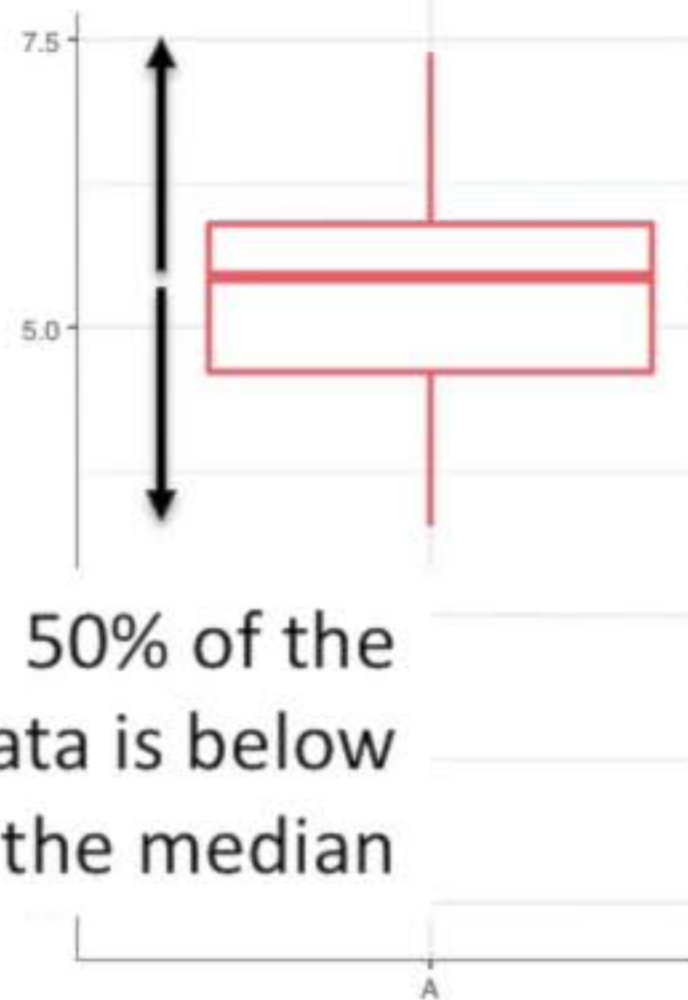


← The median value

50% of the
data is below
the median



50% of the
data is above
the median



50% of the
data is below
the median

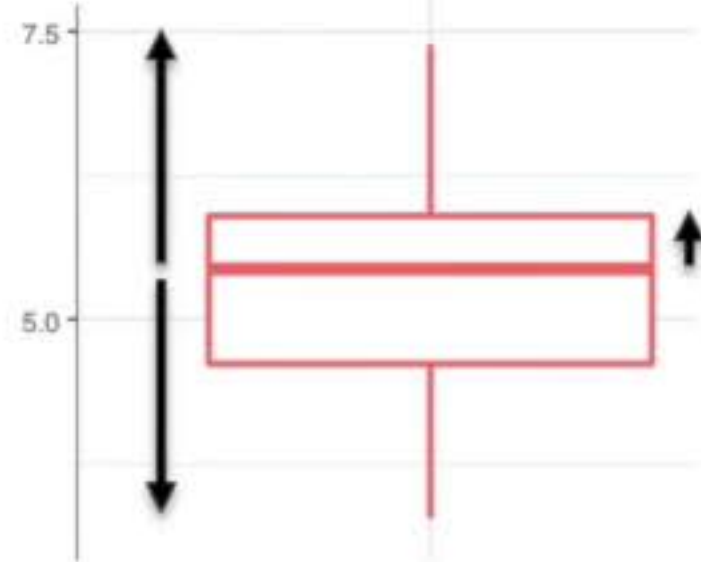
← The median value

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

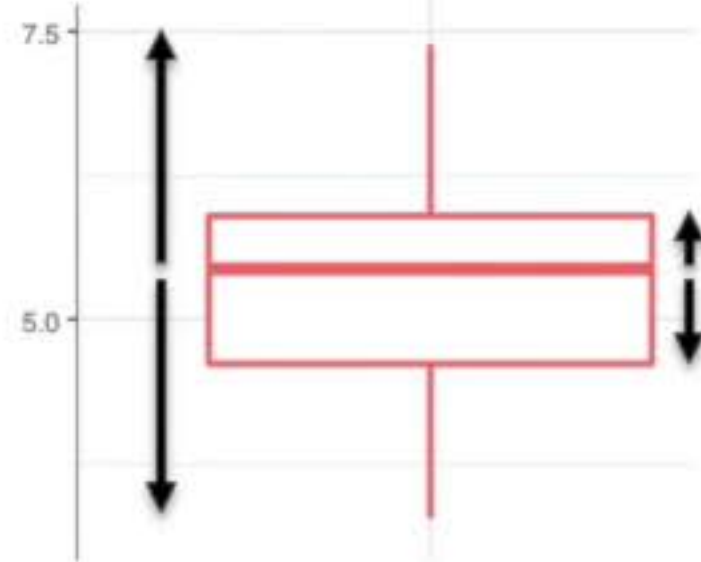


50% of the
data is below
the median



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

50% of the
data is above
the median

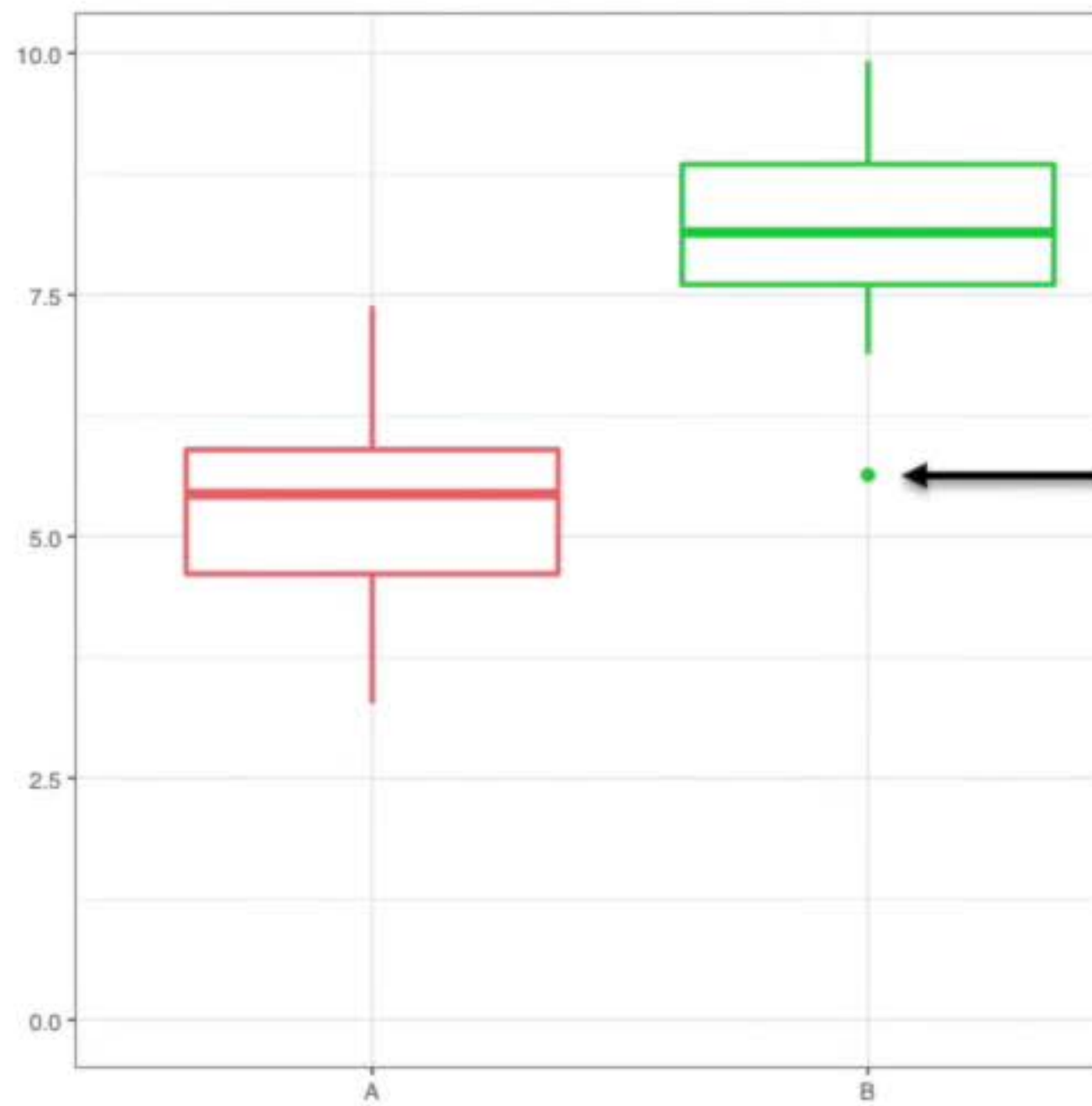


50% of the
data is below
the median



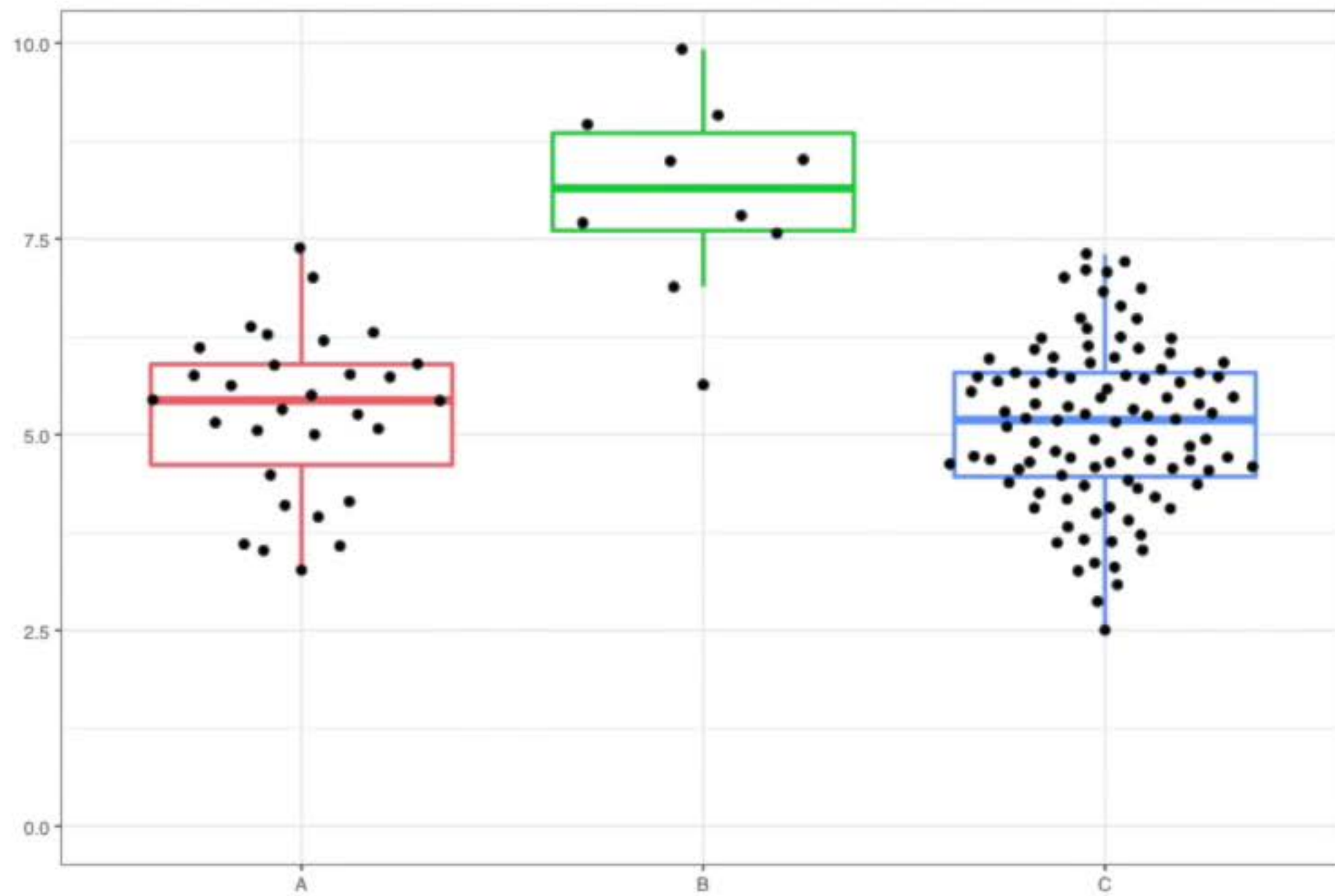
Within the box itself, we
have 25% of the data
above the median...

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

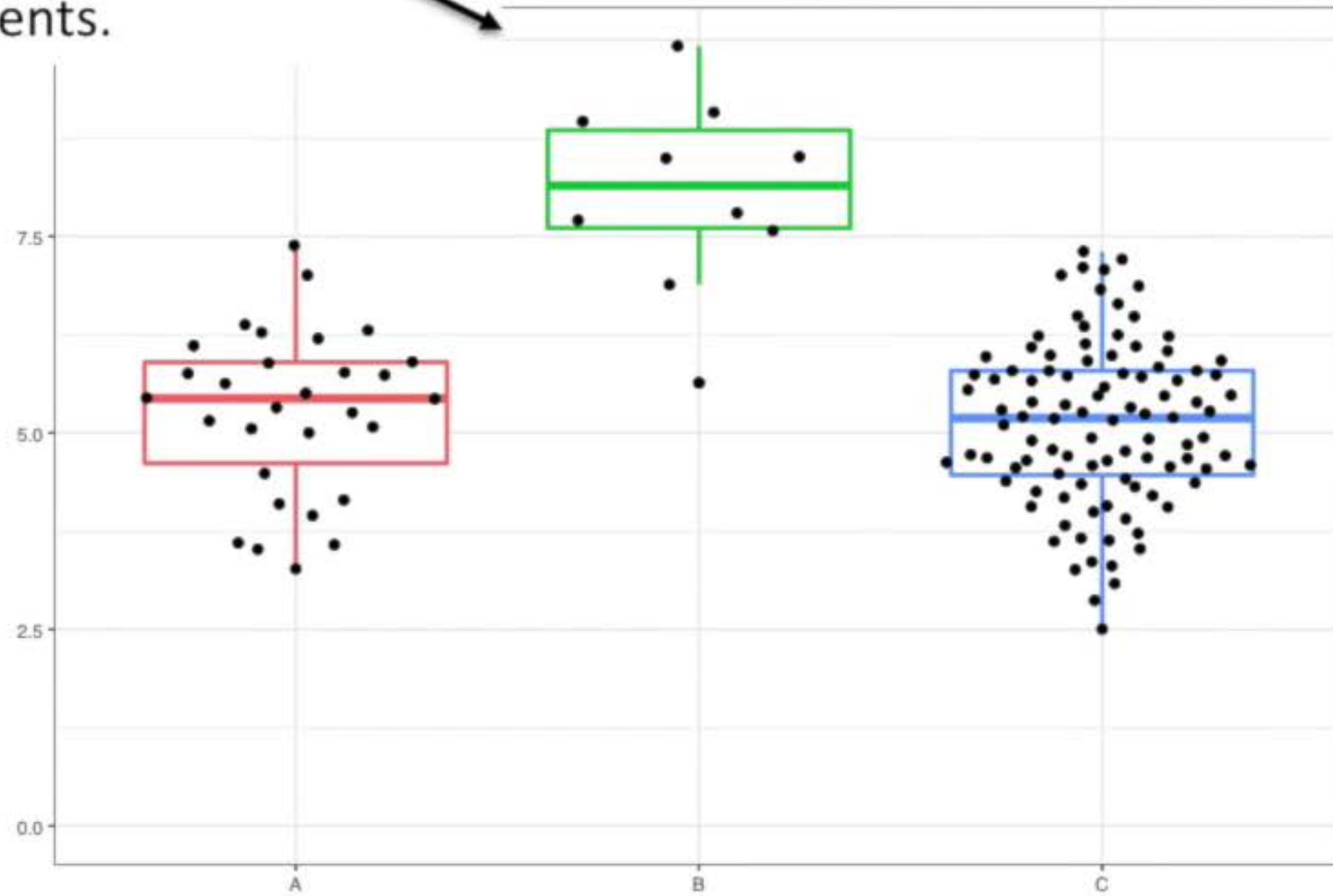


Outliers are plotted as dots beyond the “whiskers”.

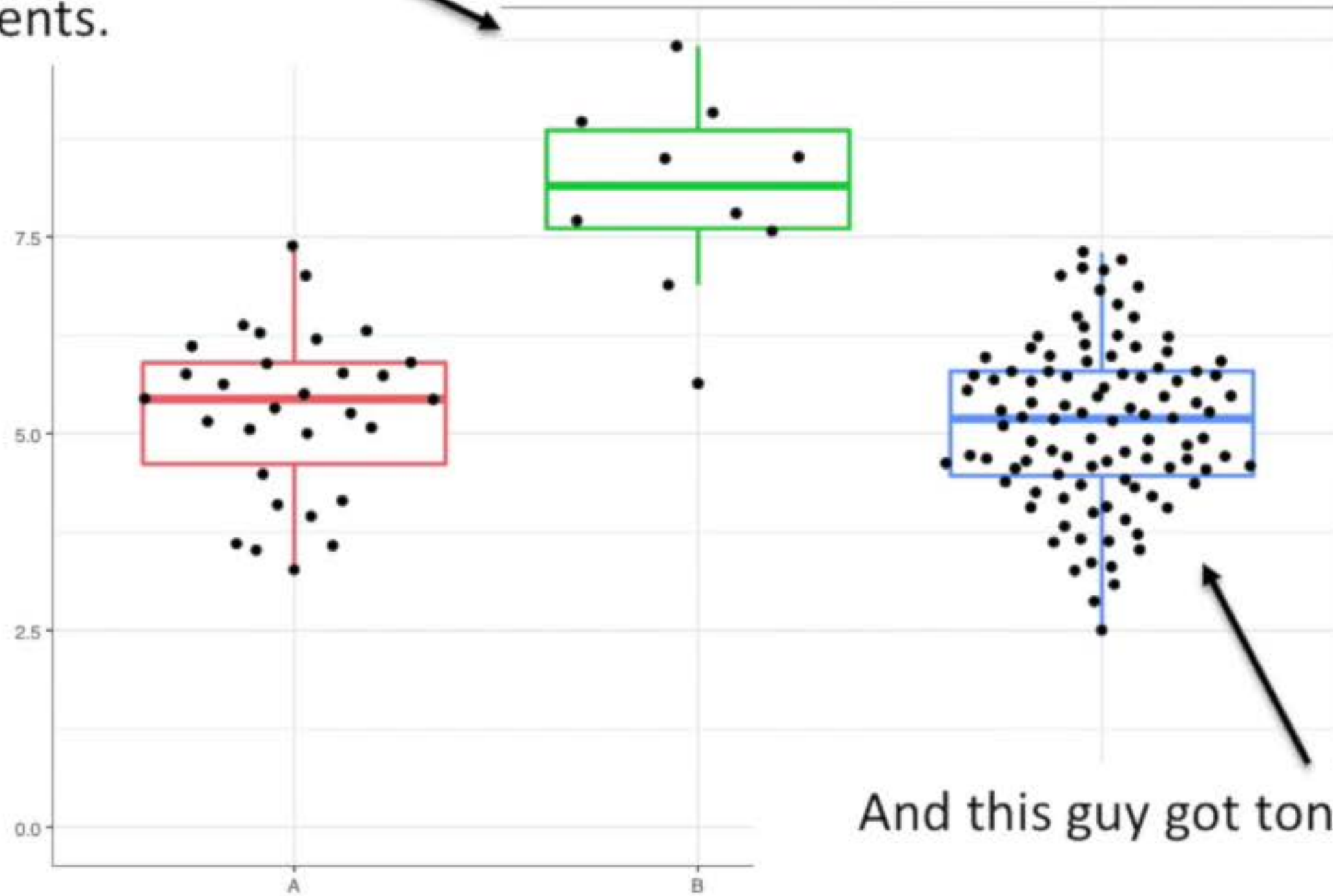
It's common to overlay the original data onto the boxplots



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



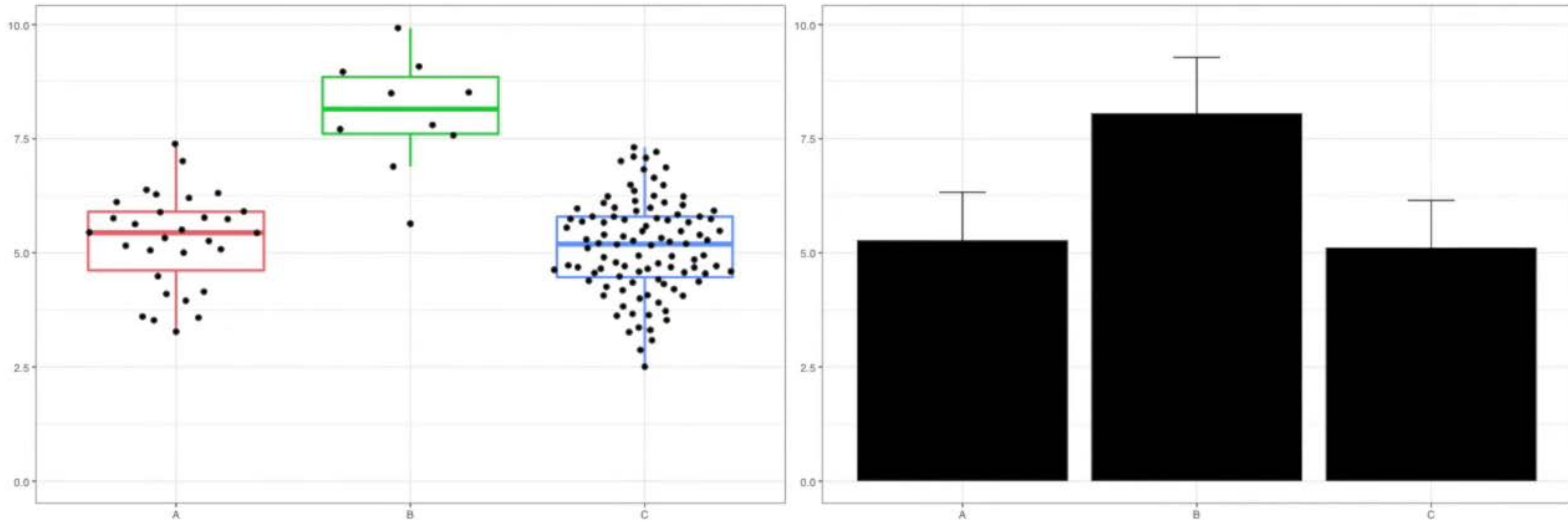
Now it's easy to see that this
guy didn't get many
measurements.



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!