Name	Date
	Oh the Summaries Sponse Sheet
Directions: Record your responses to the lab qu	estions in the spaces provided.
Just the beginning Extreme values	
Find and write down the min value and max value for your predominant color.	
Apply the range function to your predom	ninant color and describe the output.
Quartiles (Q1 & Q3)	
 Use a similar line of code to calculate an 75% of our data. 	d write down <i>Q3</i> , which is the value that's larger than
The Inter-Quartile-Range (IQR) • Write down the numbers that split the da	ita up into these 4 pieces.
How long is the interval of the middle two	o pieces?
Calculating the IQR	

- Use the values of Q1 and Q3 you calculated previously and find the IQR by hand.
- Which personality color score has the widest spread according to the IQR? Which is narrowest?

Name	Date
	

LAB 2B: Oh the Summaries... Response Sheet

Boxplots

- By showing someone a dotPlot, how would you teach them to make a *boxplot*? Write out your explanation in a series of steps for the person to use.
 - Use the steps you write to create a sketch of a boxplot for your predominant color's scores in your journal.

Our favorite summaries

Calculating a range value

Use these two steps to calculate and write down the range of your predominant color.

Introducing custom functions

Example function

Using mm_diff()

- Which of the four colors has the largest absolute difference between the mean and median values?
 - By examining a dotPlot for this personality color, make an argument why either the mean or median would be the better description of the *center* of the data.

Our first function

 Use the Range function to find the personality color with the largest difference between the max and min values.

On your own