Name	Date
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LAB 2A: All About Distributions Response Sheet

Directions: Record your responses to the lab questions in the spaces provided.

In the beginning ...

How to talk about data

Let's begin!

- Write down the names of the 4 variables that contain the point-totals, or *scores*, for each personality color.
- Write down the names of the variables that tell us an observation's introvert/extrovert designation and whether they are involved in *sports*.
- How many variables are in the dataset?
- How many observations are in the dataset?

Estimating centers

- Which values came up the most frequently? About how many people in your class had a score similar to yours?
- What, would you say, was a *typical* score for a person in your class for your predominant color? How does your own score for this color compare?

Means and medians

- Use a similar line of code to calculate the median value of your predominant color.
 - Are the mean and median roughly the same? If not, use the dotPlot you made in the last slide to describe why.

Na	meDate
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Es	timating Spread
•	Look at the spread of the scores from the mean score then complete the sentence below:
	Data points in my plot usually fall withinunits of the center.
Me	ean Absolute Deviation
•	How close was your estimate of the spread for your predominant color (from the previous slide) to the actual value?
Co	mparing introverts/extroverts
•	Describe the shape of the distribution of scores for the extroverts. Do the same for the introverts.
•	Do introverts and extroverts differ in their typical scores for your predominant color?
•	Based on the MAD, which group (introverts or extroverts) has more variability for your

On your own

predominant color's scores?

Perform an analysis that produces numerical summaries and graphs.

• Then, write a few sentences that address this statistical investigative question and considers the *shape*, *center* and *spread* of the distributions of the graphs you create.