

3 COFFEE FOR YOUR PLANTS?

A friend of yours is interested in knowing whether adding coffee grounds to potting soil helps plants grow.

- a) Describe a randomized comparative experiment that attempts to find out. Be brief but specific, and be sure to answer the following in your description:
- What are your **explanatory** and **response** variables?
 - Identify which variables are **categorical** and which are **quantitative**.
 - What makes your study an **experiment** and not an **observational study**?
- b) As part of your preliminary analysis of the data, you are asked to present a graphical summary of the data.
- What type of plot will you make?
 - Write down the R command to make this plot.
 - Sketch what it might look like if coffee has a large effect on plant growth.