

**Some helpful resources:**

- Remember you can get help on any function by typing ? followed by the function into the console.
- ggplot cheat sheet:  
[https://www.maths.usyd.edu.au/u/UG/SM/STAT3022/r/current/Misc/data-visualization](https://www.maths.usyd.edu.au/u/UG/SM/STAT3022/r/current/Misc/data-visualization-2.1.pdf)

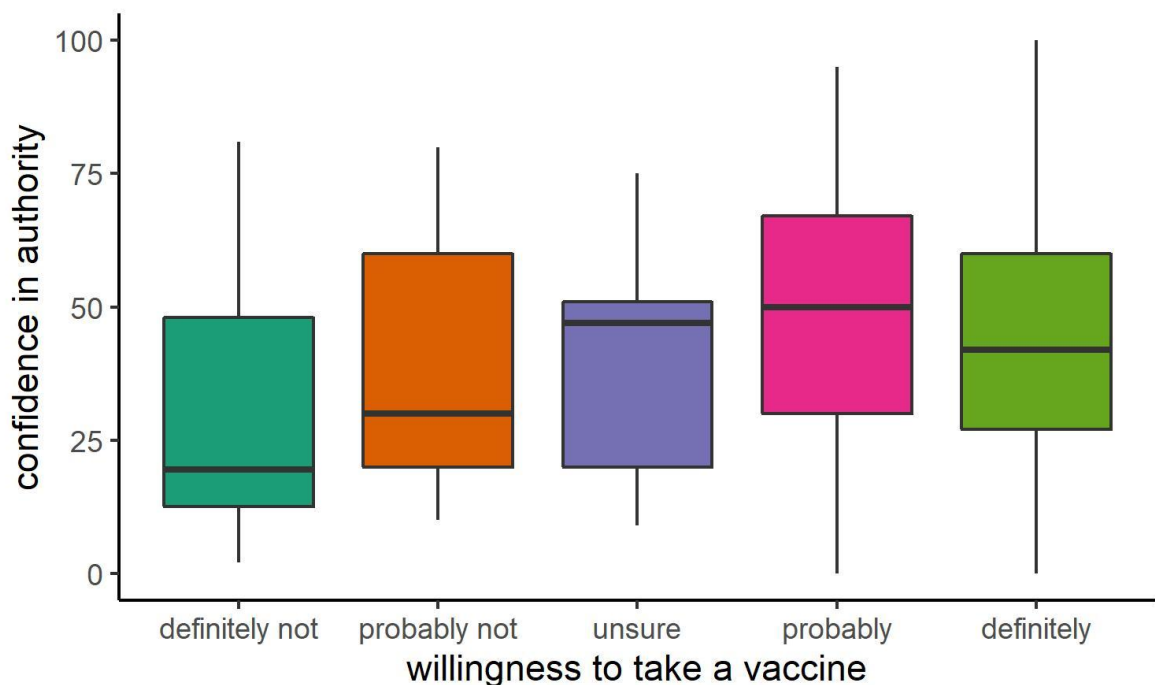
-2.1.pdf

- R-graph gallery: Help choosing and creating types of plots (note: only use the ggplot section on each page) <https://www.r-graph-gallery.com/index.html>

**Hint:** For some questions you may need to make a variable into a factor and order the levels so that the axis values make sense. Remember, when you make a factor, R will put the levels in alphabetical order by default, but sometimes this order doesn't make sense for your data! Look at ?factor to see how to set the levels by hand.

**Hint:** You may need to use the skills from last week cleaning data to make these plots!

1. **Open an R script and load the covid\_attitudes\_clean.csv data.** Make sure you have loaded the tidyverse package and set options(stringsAsFactors = FALSE)
2. **Recreate the following plot**



Some hints before you begin plotting:

- Make sure you remove missing data from your data frame
- Check the levels of the factor (and their spelling) before you begin

Some notes on this plot:

- This plot uses data from `Q35.take_vaccine.` and `Q101.confidence_in_authority`
- It uses the Brewer color palette `Dark2`
- It uses `theme_classic()`
- Hint: You can remove the legend from a plot by adding `+ theme(legend.position = NULL)`

**When you are done, save the plot using `ggsave()`. Set the width to be 5 inches and the height to be 3 inches.**

**3) Create a plot of your choosing to answer a question you have about the data! You can come up with your own question(s) as a group, or feel free to use one (or more) of the following questions.**

**On [this JamBoard](#), make a new slide for yourself or use a blank slide! Post your finished plot(s), your name, and the question(s) you explored!**

- Does the belief that scientists understand covid vary by type of community ?
- Does attention to news relate to confidence in the US government? Is this true for all age groups?
- Does attention to news affect expected symptom severity? Does this relationship vary with trust in hospital news?
- How do age and community relate to willingness to take a vaccine?
- How does education level relate to belief that scientists understand covid?

There are SO MANY different questions you could ask with these data! Have fun exploring the data and looking for patterns!