

## Session 4 Group Activity

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**In your groups...**

**Work together to create the following data visualizations.**

*Remember you can get help on any function by typing ? followed by the function into the console. Here are some additional ggplot resources:*

- *ggplot cheat sheet:*  
<https://www.maths.usyd.edu.au/u/UG/SM/STAT3022/r/current/Misc/data-visualization-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>

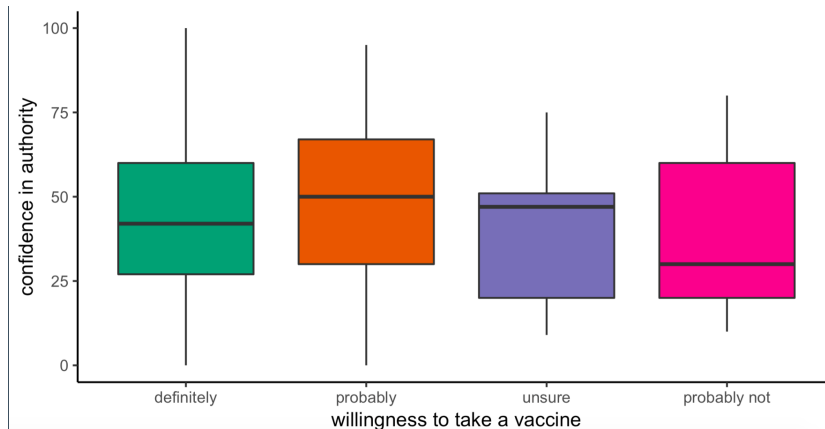
*If you need help let us know in the [help doc!](#)*

*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.*

### 1) Open an R script and load the covid\_attitudes\_clean.csv data.

Make sure to load the tidyverse library at the start of your script: `library(tidyverse)`, and set `options(stringsAsFactors = FALSE)`.

### 2) With your group recreate the following plot:



- This plot uses data from `Q35.take_vaccine` and `Q101.confidence_in_authority`
- It uses the Brewer color palette `Dark2`

Hint: You can remove the legend from a plot by adding `+ theme(legend.position = NULL)`

**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. Post your finished plot(s) along with the question(s) to your group's slide on the [JamBoard!](#)

- Does the belief that scientists understand covid vary with 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!