

```
library(shiny)
library(readxl) library(dplyr)
library(tidyverse) library(DT)
library(plotly)
library(officer) library(rvg)
library(ggplot2)
library(multcompView)
```

PASTED

AF I have been having a reoccurring issue with my radar chart download in the output\$ppt_download part of this shiny tool:

The end points are not attached to the beginning points like a true radial plot. Can you help me so that the ppt download radar plot is complete and a closed circle/web?

I see the issue with your radar chart in the PPT download function. The problem is that while you're adding the first point again to close the polygon, you're using a different approach than what's working for your Plotly chart.

Let me help you fix this. The key issue is in how you're creating the closed data frame for the ggplot radar chart:

r

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```
# Close polygons by repeating the first attribute row (without altering factor levels)
df_closed <- df_long %>%
  group_by(sample) %>%
  group_modify(~ bind_rows(.x, .x[1, ])) %>%
  ungroup()
```

The problem is that when you're working with factors, the coordinate system in `coord_polar()` doesn't always connect the points properly. Let's modify your PPT download function to ensure the radar chart is properly closed:

Fixed Radar Chart PPT Download Function
Code

The key changes I made:

1. Instead of using `coord_polar()` with categorical factors on the x-axis, I'm now using a continuous angle approach which gives you more control over the plot closure.
2. I create an `angle` variable that places each attribute at the correct position around the circle.
3. I explicitly add the first point again at angle 2π (end of the circle) for each sample.
4. I then plot using this continuous angle approach while still showing your attribute names as labels.

This approach ensures that:

- The polygons are properly closed
- The points are connected in the correct order
- The radar chart looks correct in both the visualization and the PowerPoint output

If you want a slightly simpler approach that's more like your original code but still addresses the closure issue, here's an alternative:

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```
# Alternative simpler fix
df_closed <- df_long %>%
  group_by(sample) %>%
  arrange(sample, attribute) %>%
  do({
    rbind(., .[1,]) # Add first row to the end
  }) %>%
  ungroup()

p <- ggplot(df_closed, aes(x = attribute, y = value, group = sample, color = sample)) +
  # rest of your ggplot code
```

Both approaches should solve your radar chart closure issue in the PPT download.

i Claude does not have the ability to run the code it generates yet.

AF Amazing, you did it on the first try 1

I'm glad the solution worked for you on the first try! The radar chart issue was a common one when working with polar coordinates in ggplot2. The key was treating the x-axis as a continuous variable (angle) rather than using factor levels directly, which gives much better control over how the points connect.

If you need any other adjustments or have questions about other aspects of your Shiny application, feel free to ask. Your sensory analysis tool looks quite comprehensive with all the statistical tests and visualization options.

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Claude can make mistakes. Please double-check responses.