Lecture 15.5 Final Presentation Tips and Data Science In the Wild

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BSDS 100 - Intro to Data Science with `R`

- Organization

- Slides

- Speaking

- Intro, body, conclusion
- Introduction
    - Title Slide with brief title and names of presenters
    - Outline briefly stating what will be in the presentation
    - Statement of big picture question
    - Optional: Slides explaining any background information we need

- Body
    - 2-3 slides telling us the basics about your dataset or machine learning algorithm
    - 2-3 takeaways (about the data or the ML algorithm)
    - Be sure to give the main point of each takeaway as well as any supporting evidence

- Conclusion
    - Remind us the original big picture question
    - Summarize the 2-3 takeaway points
    - Tell us any outstanding questions... what future data would you collect if you had more time?

- Tell them what you're going to tell them

- Tell them

- Tell them what you told them

Organization

- Tell them what you're going to tell them
  Big picture question and outline
- Tell them
  Body slides
- Tell them what you told them
  Final summary in conclusion

When you know the material well it will feel like you're repeating yourself. That's okay! Remember this is all new to your audience.

- Use large font

- Leave white space

- Images are better than words
  - You need fewer words than I do!
  - My slides need to be understood by students who miss class, yours only need to be understood by the in person audience
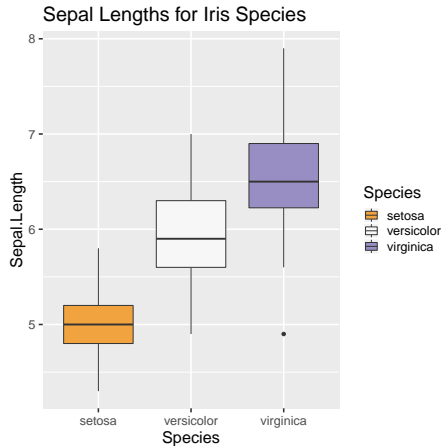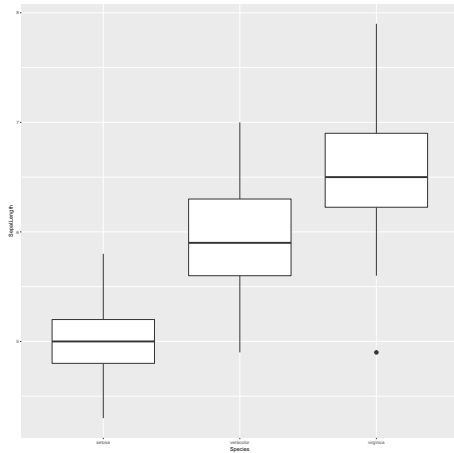
- Animations are okay, if they help make your point, don't overdo it!

- Sound should be used very sparingly, it is rarely necessary and often results in technical difficulties

- For some presentations videos can be helpful, but for this presentation they are likely not useful

For your images

- Generally one image per slide is best, can have two images on one slide if you are comparing them
- Make sure each image has:
    - A title
    - Axes labels
    - A legend
- Make sure font for axes, labels, titles, etc is large enough to read
- I recommend coloring your groups
    - It is often wise to NOT use red versus green as your colors in case someone is red green color blind!

I highly recommend

- Giving your slides titles

- Numbering your slides

This can help with questions

- Volume - almost no one is too loud

- Speed - almost no one is too slow

- Eye contact is good, but it can take time to develop this skill

Speaking

Word Choice

- Be precise (avoid they/it/the-thing/stuff)
- Avoid jargon or fancy language
  - You can almost always say "use" instead of "utilize"
- It's okay to pause to think!

- Practice **out loud**

- Many find it helpful to memorize their first three sentences and their last three sentences to start and end strong

Speaking

Timing

- You will have 10-15 minutes to present, do NOT go over 15 minutes

- Most people spend about one minute per slide, though this can vary

- Make sure you have planned who in your group will present what so that you don't spend time speaking over each other!

Summary

- Organize! Outline, details, summary

- Have clean, easy to read visuals

- Speak slowly and audibly

End of Class

- Use the remainder of class to complete the DS in the Wild example on github

  https://github.com/abbiepopa/BSDS100/blob/master/class_code/DS_in_the_Wild_Example1.pdf

- Upload to canvas, one copy per person (though you should discuss in pairs)