



# Tips for Creating Academic Posters

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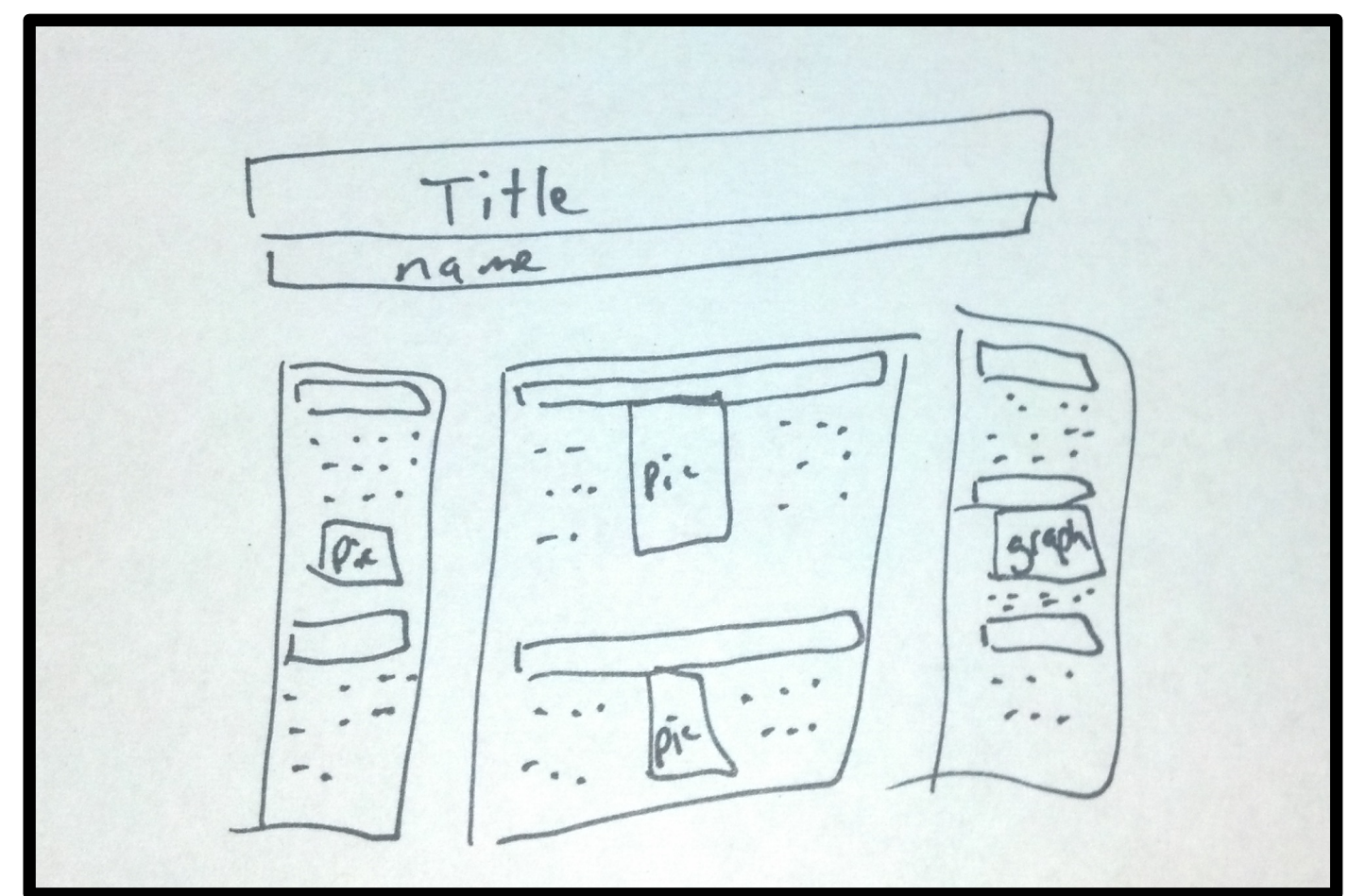


## 1 Introduction

Posters are visual representations of information. A research poster should clearly communicate your research data through the use of images, graphs, and text. Posters should be designed to support the presentation of your research both as a foundation for face-to-face discussions and as a stand-alone resource.

## 2 Sketch it out

- Before you begin your poster, sketch your ideas on paper:
- How many columns?
  - How many rows?
  - Consider images and graphs as you sketch your design
  - Think about the sequence of your materials (you are telling a story—poster should have a logical flow)
  - Good layouts have 35% empty space and 35 % graphics



## 3 Sections to include

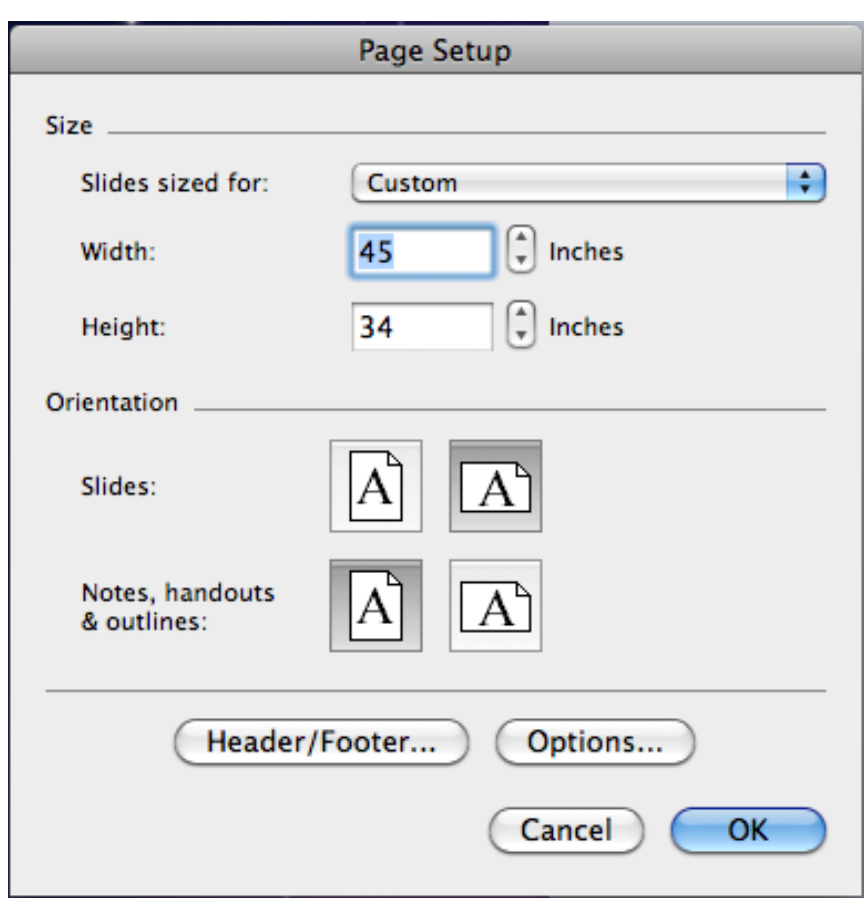
- Consider what sections you need to include (discuss with mentor):
- Title and author(s) with affiliation(s)
  - Introduction (100 words)
  - Hypothesis
  - Materials & Methods (200 words)
  - Discussion (150 words)
  - Results (150 words)
  - Conclusions (200 words)
  - References (10 citations)
  - Acknowledgements (40 words)
  - Contact info (20 words)

## 4 Collect Materials

- ### Images
- Avoid pixelated images-- use high resolution images. Printed images should have minimum 300 dpi.
  - Images used as backgrounds can cause problems with the printing process.
  - Add titles & captions to your graphs and images.



- ### Tables
- Valiela (181):*
- Tables should be used for data too complicated to be presented in text.
  - Data that show no significant differences can be summarized in text, without showing all the data.
  - Codes and nonessential numbers should not appear in tables.



- ### Graphs
- Tufte on friendly graphics(183):*
- Words are spelled out.
  - Words run left to right.
  - Little messages help explain data.
  - Labels placed on graphic may eliminate the need for a legend
  - Graphic attracts viewer; provokes curiosity.
- Valiela on graphs(181):*
- Use simplified figures rather than tables if at all possible.
  - Simplify figure legends to make them more easy to read.
- Your graphs must truthfully represent the data.*

## 5 Formatting

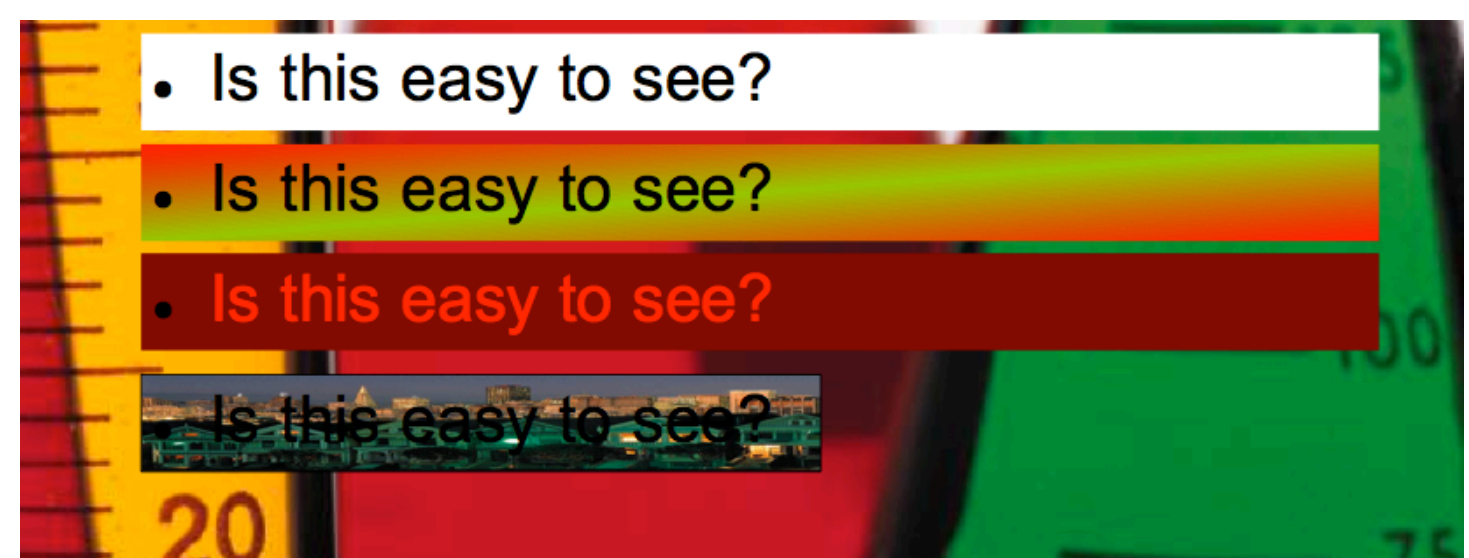
- Use 1 slide in PowerPoint. Set the slide size first (PPT>file menu>page setup>45" x 34").
- Clarity and readability are important components to an effective poster. Be consistent.
- The poster should flow. Use arrows, numbers or letters to aid viewer.
- Use blank space. Do not fill every space or gap—leave some areas blank so that the audience can stay focused on individual sections.
- Avoid using templates from the web. You may not realize there is a problem until you send it to be printed.
- Text boxes should be aligned and uniform.
- Avoid blocks of text longer than 10 sentences; instead, intersperse text with graphs and images.

- ### Text
- 2-3 fonts. Keep it simple and consistent.
  - **90-60-30 text rule**
    - 90 pt font = title size
    - 60 pt font = subheading size
    - 30 pt font = body size
  - Use **bold** or *italic* styles to emphasize.
  - Avoid using all caps AS IT IS DIFFICULT TO READ.
  - Use bulleted lists instead of sentences and paragraphs.
  - Text should be left-justified.
  - Serif fonts are easier to read for body text.



**906030 Rule**

- ### Color
- Colors should highlight or emphasize content or separate and define sections.
  - Use 2-3 colors at most.
  - Be consistent.
  - Avoid dark backgrounds.
  - Use images or graphs to determine color scheme of poster (don't let them clash!).



## 6 Points to Consider

- If you have more information to share, create a handout or a postcard summary.
- Avoid using jargon—consider your audience.
- Aim for 800-1000 words (PPT>file menu>properties>statistics).

## 7 Review

- Read, reread, & reread.
- Edit to remove extraneous text.
- Have a friend proof the poster.
- Use the spellcheck feature (Tools/Spelling).
- Check grammar & punctuation.
- Ask your mentor to review poster.

## 8 Bibliography

- Tufte, E. R. (2001). The visual display of quantitative information (2nd ed.). Cheshire, Conn.: Graphics Press.
- Valiela, I. (2001). Doing science :Design, analysis, and communication of scientific research. Oxford; New York: Oxford University Press.

## 9 Additional Resources

- NSF Video and Poster competition <http://posterhall.org/igert2012/posters#/default>
- Designing posters <http://colinpurrington.com/tips/academic/posterdesign>
- Poster Perfect <http://the-scientist.com/2011/09/01/poster-perfect/>
- Scientific Poster Tutorial <http://www.makesigns.com/tutorials/>
- Graphs [http://wikieducator.org/images/9/90/JSMath6\\_Part2.pdf](http://wikieducator.org/images/9/90/JSMath6_Part2.pdf)
- Tips for creating poster presentations [http://www.youtube.com/watch?v=24-8fgs\\_0hs](http://www.youtube.com/watch?v=24-8fgs_0hs)
- Making a poster using PowerPoint [http://dl.dropbox.com/u/74453/Making\\_a\\_Poster\\_Using\\_PowerPoint.pdf](http://dl.dropbox.com/u/74453/Making_a_Poster_Using_PowerPoint.pdf)