

How to Prepare and Present a Great Research Poster

Dr. Jacqueline Jenkins

Civil & Environmental Engineering Department

Important Dates for USRA Students

Wednesday, July 31

- Advisors email Joy Yard the title and authors of your poster, and the times between 11 am – 2 pm that you will be present at the poster session on Thursday, September 5

Thursday, August 15

- Advisors email Joy Yard the abstract of your poster
- Advisors email the CSU library the electronic version (i.e. pdf) of your poster for printing

Thursday, September 5

- Undergraduate Research Poster Session, 11 am – 2 pm, in the Student Center Atrium



STUDENT RESEARCH

Undergraduate Research

» Funding Programs

Undergraduate Research Award Program

Undergraduate Summer Research Award Program

» Guidelines

» 2017 Award Recipients

» 2018 Award Recipients

» 2019 Award Recipients

» Research Journals

» Research Links

» University Honors Program

» Undergraduate Research at CSU (Video)

» University Scholars Program

Student Research

2018 UNDERGRADUATE SUMMER RESEARCH AWARD RECIPIENTS

Award Recipients

CSU undergraduate students will have the opportunity to work on research projects with faculty mentors during Summer 2018. Fifty-five proposals were funded across six colleges.

- [2018 Undergraduate Summer Research Awards](#)
- [2018 Undergraduate Summer Research Abstracts](#)

Seminars

- [Introduction](#)
- [Graduate School Application Workshop](#)
- [How to Do Great Research](#)
- [How to Make a Great Research Poster](#)

Undergraduate Student RESEARCH



Poster Size

- Typically 4 feet × 3 feet, or 3 feet × 2 feet
- Landscape orientation
- Library plotter has 42" width

36"

Comparing Two Driving Simulation Practice Scenarios for Steering and Speed Control

Student: Nancy Seck

Advisor: Jacqueline Jenkins

Purpose: To test the effectiveness and relative efficiencies of two practice scenarios

Methodology: Repeated measures driving simulation experiment with counterbalanced scenario order

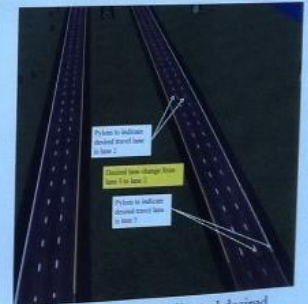
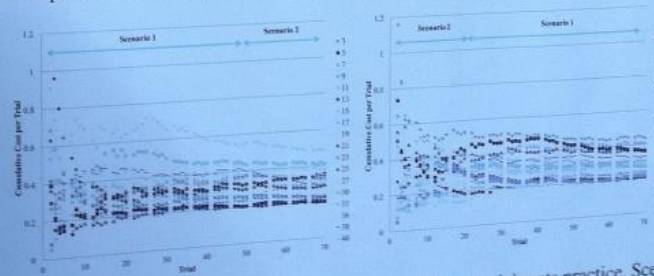
- Scenario 1, participants followed posted speed limits, ranging from 30 to 65 mph and made 50 lane changes
- Scenario 2, participants drove at 50 mph and increased speed, as they were comfortable to do so, and made 20 lane changes

Data: Lane position (LP) at pylons and travel time ($t_i - t_{i-1}$) between pylons

Analysis:

- Fit learning curve to cost at pylons $C_i = |LP_i| \left[\frac{t_i - t_{i-1}}{t_{ideal}} \right]$
- Fit experience curve to cumulative cost per trial $CCPT_n = \frac{1}{n} \sum_{j=1}^n C_j$
- Compare means (t-test) and equality of variances (F-test) of cost and CCPT

24"



Pylons on roadway indicated desired travel lanes and lane changes.

Conclusion: Both scenarios were effective in providing participants practice. Scenario 1 was more efficient, indicated by lower variances after 10 lane changes and a larger range of observed travel speeds. Therefore, directing participants to travel at higher speeds improves their learning to interact with the driving simulator.

Software

- PowerPoint, Adobe Illustrator, InDesign, Canvas, Publish-It, Corel Draw, LaTeX, etc.
- Library requires pdf file for plotting

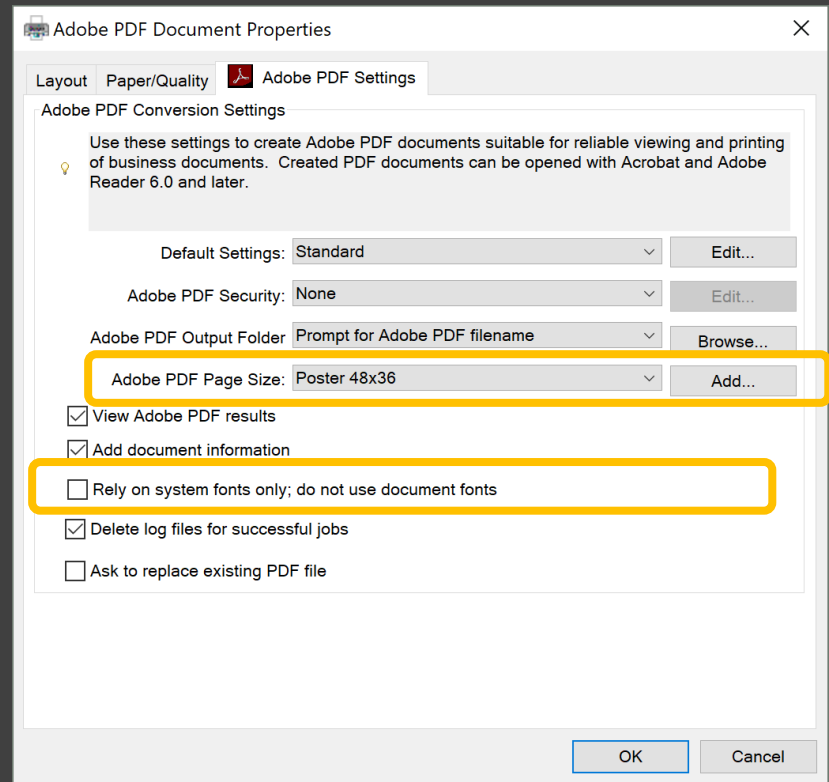
PowerPoint

To set poster size

Design → Slide Size →
Custom

To set paper size

File → Print → Printer
(Adobe PDF) → Printer
Properties →



Designing Your Poster

Content

~~THROW EVERYTHING ON!~~

Text

- Capture people with a short, compelling title
- Highlight key points
- Audience should be able to follow the poster on their own

Graphics

- High resolution
- Artistic or technical

Spacing

84 to 96 pt Title

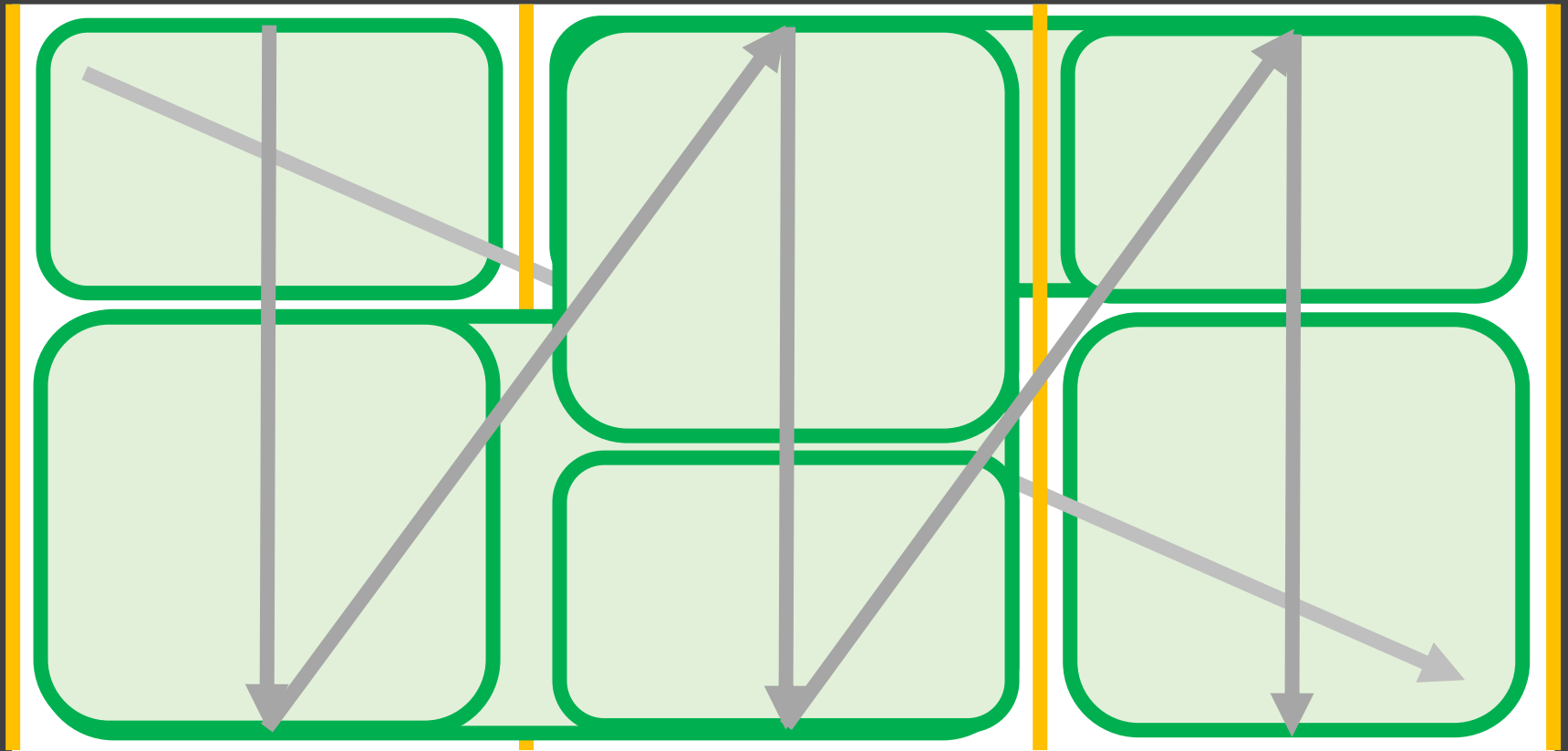
30-56 pt Authors

30-48 pt Headings (San serif font)

24-32 pt text (Serif font)

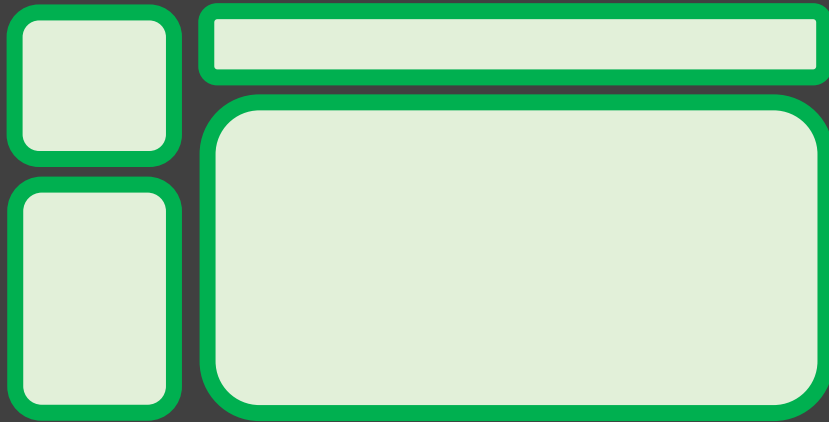
18-24 pt text for references, acknowledgements, captions

Arrangement



Which is Better?

GREEN



WHITE

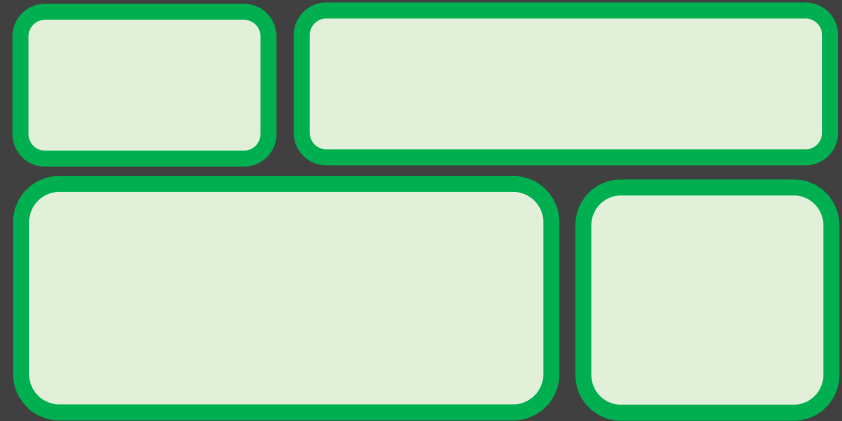


Which is Better?

GREEN



WHITE



Which is Better?

GREEN

Pink Floyd
THE WALL
1979
Another Brick
in the Wall
Roger Waters

We don't need no education

We don't need no thought control
No dark sarcasm in the classroom
Teachers leave them kids alone
Hey! Teacher! Leave us kids alone!
All in all you're just another brick in the wall.
All in all you're just another brick in the wall.

Daddys Flown Across the Ocean
Leaving Just a Memory
A Snapshot in the Family Album
Daddy what else did you leave
for me?
Dad What You Leave Behind for
me?
All in all you're just another
brick in the wall.
All in all you're just another
brick in the wall.

When we grew up
and went to school,
there were certain
teachers who would
hurt the children
anyway they could
by pouring any
region upon anything
they did, exposing
every weakness and
carefully they did to
the kids.

WHITE

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THE WALL
1979
Another Brick in the Wall
Roger Waters

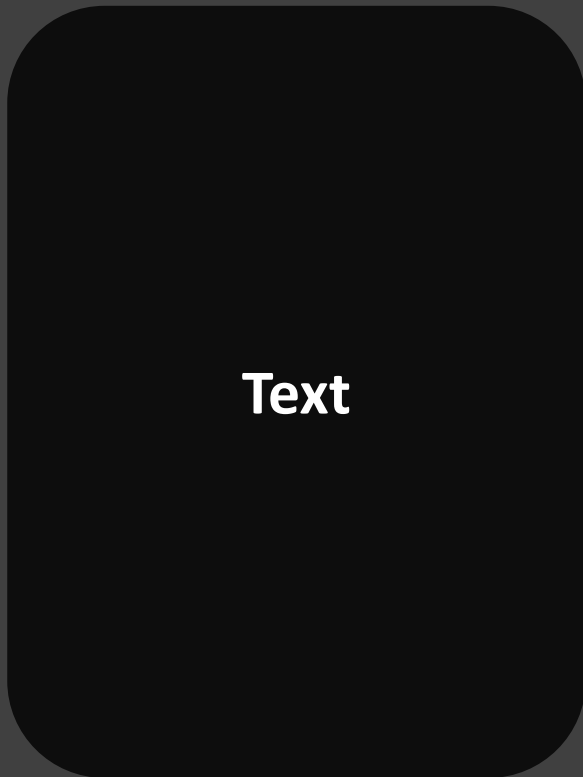
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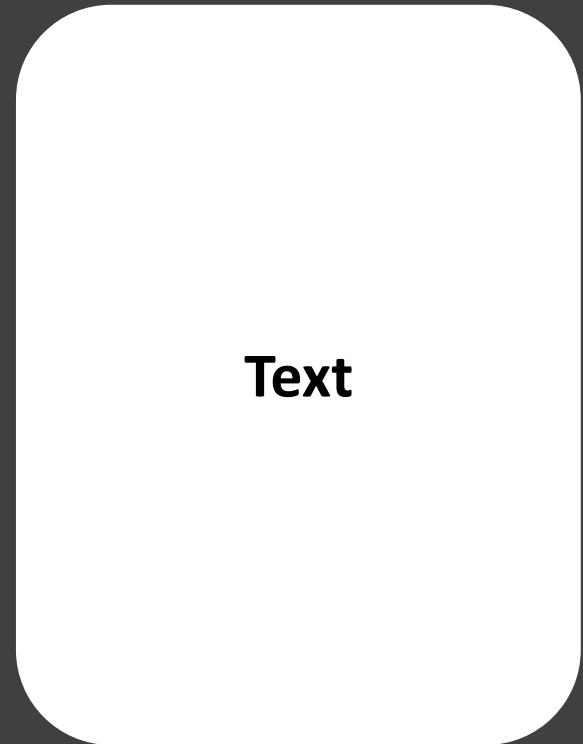
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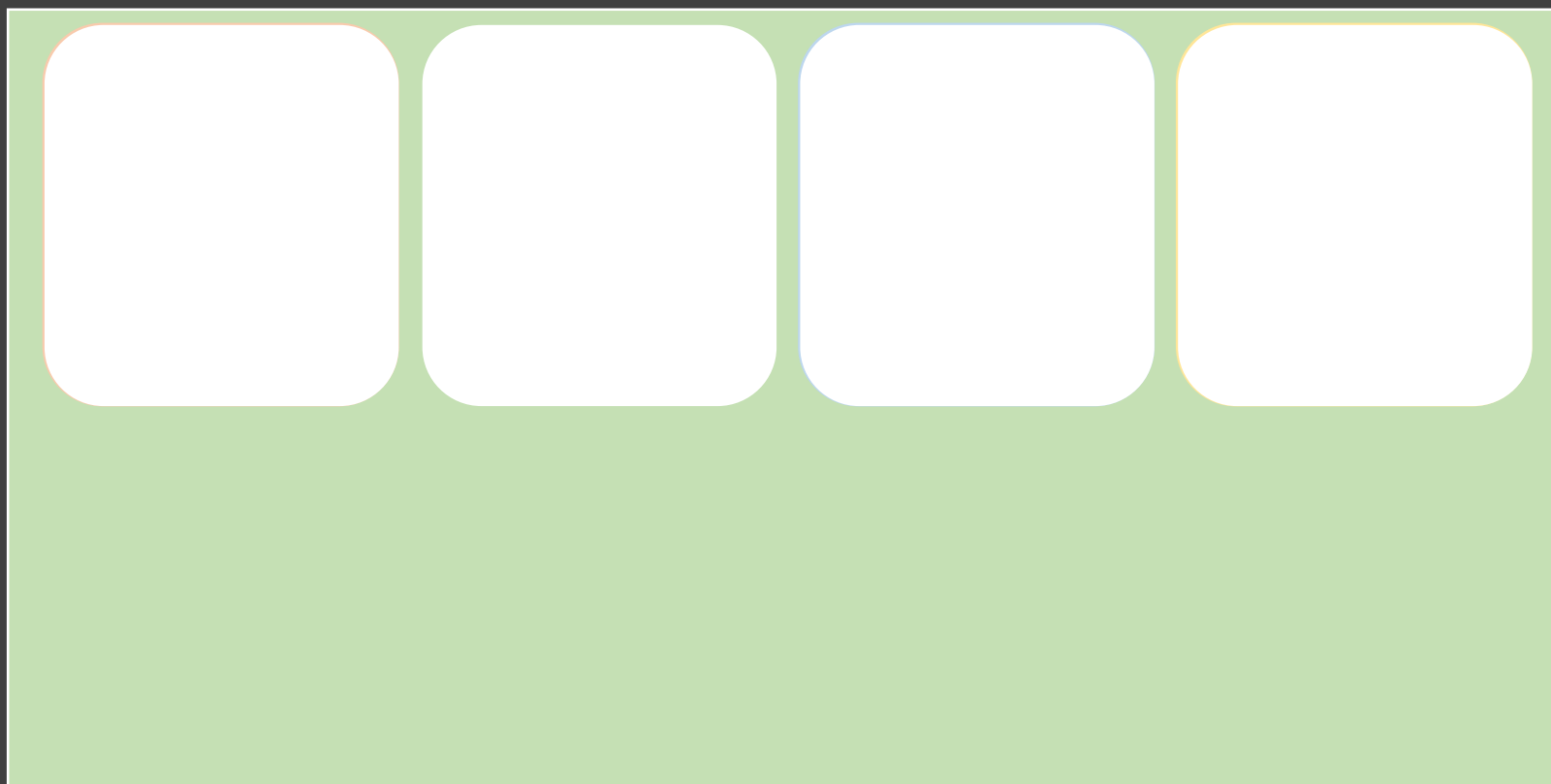
GREEN



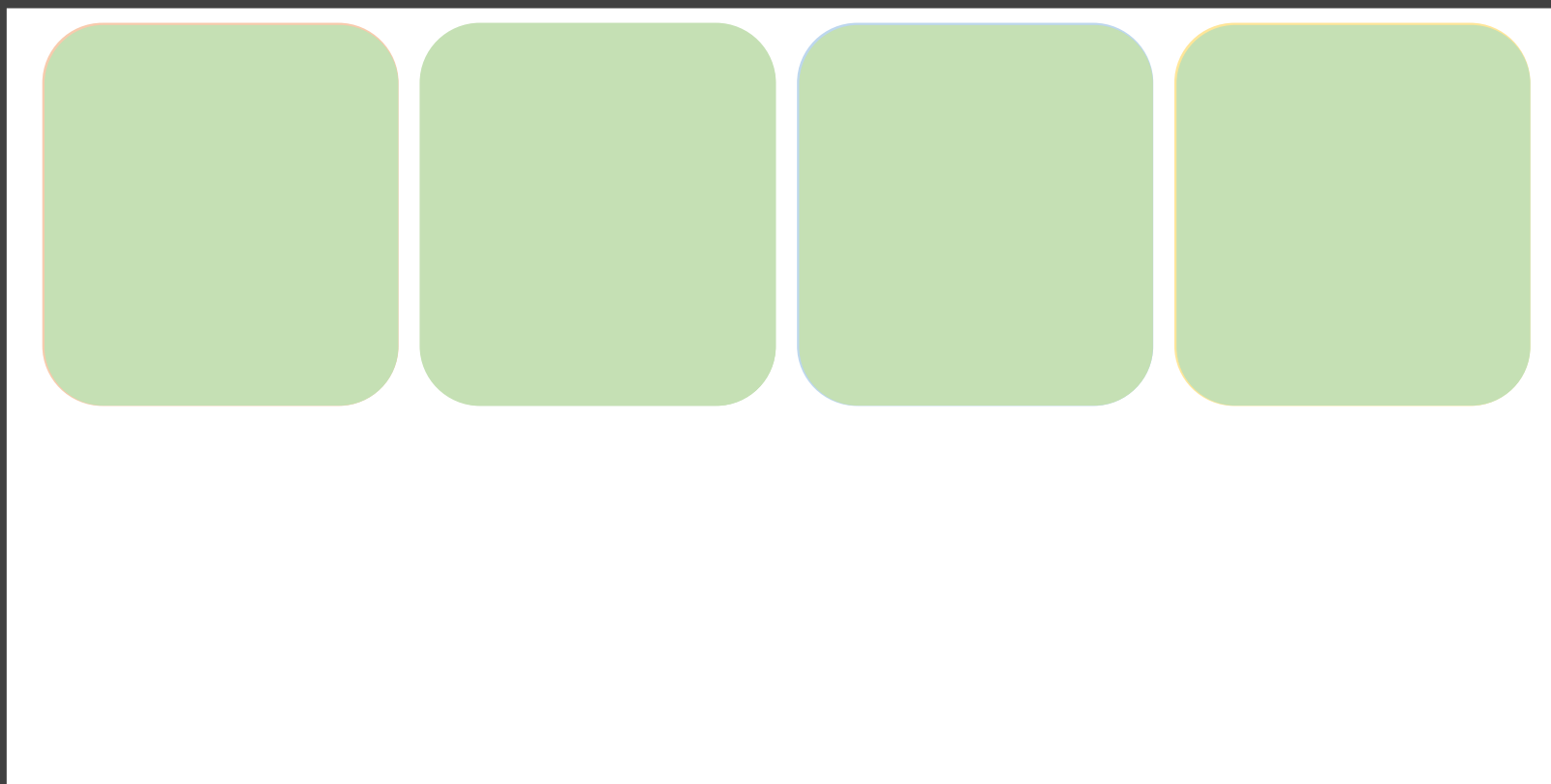
WHITE



Color Palette



Color Palette

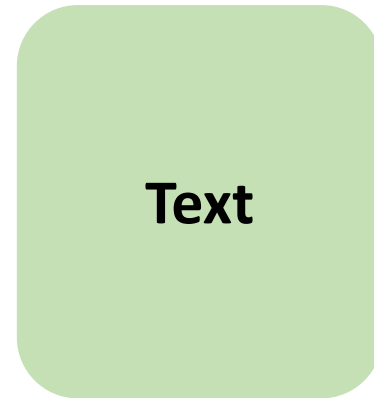


Which is Better?

GREEN



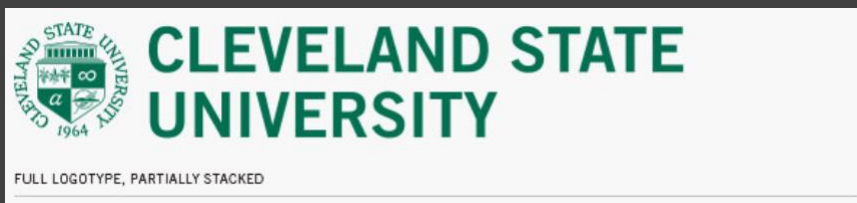
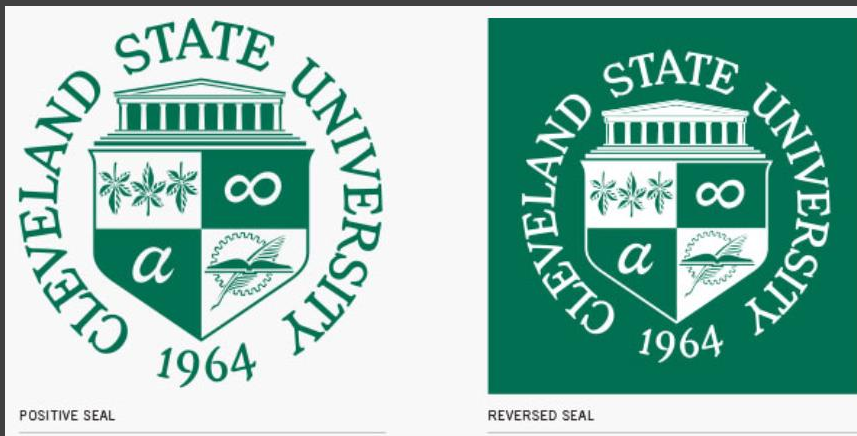
WHITE



CSU Representatives

<https://www.csuohio.edu/marketing/brand-style-guide>

- CSU color palette
- CSU seals
- CSU logos



UNIVERSITY GREEN
PMS 342
CMYK COATED: 100-9-66-41
CMYK UNCOATED: 97-7-80-33
RGB: 0-106-77
HEX: 006A4D

FRESH GREEN
PMS 368
CMYK COATED: 63-0-97-0
CMYK UNCOATED: 51-0-86-0
RGB: 105-190-40
HEX: 69BE28

CITRON
PMS 382
CMYK COATED: 2A8-0-92-0
CMYK UNCOATED: 32-0-82-0
RGB: 190-214-0
HEX: BED600

SKY
PMS 2915
CMYK COATED: 61-7-0-0
CMYK UNCOATED: 53-4-1-0
RGB: 94-182-228
HEX: 5EB6E4

PUMPKIN
PMS 151
CMYK COATED: 0-55-100-0
CMYK UNCOATED: 0-45-90-0
RGB: 255-121-0
HEX: FF7900

GOLDENROD
PMS 116
CMYK COATED: 0-12-100-0
CMYK UNCOATED: 33-80-0-0
RGB: 254-203-0
HEX: FEC800

ORCHID
PMS 248
CMYK COATED: 45-100-0-0
CMYK UNCOATED: 38-82-16-0
RGB: 155-24-137
HEX: 9B1889

BERRY
PMS 491
CMYK COATED: 15-85-53-54
CMYK UNCOATED: 24-77-67-25
RGB: 120-48-55
HEX: 783037

NAVY
PMS 540
CMYK COATED: 100-57-12-61
CMYK UNCOATED: 94-43-11-45
RGB: 0-51-89
HEX: 003359

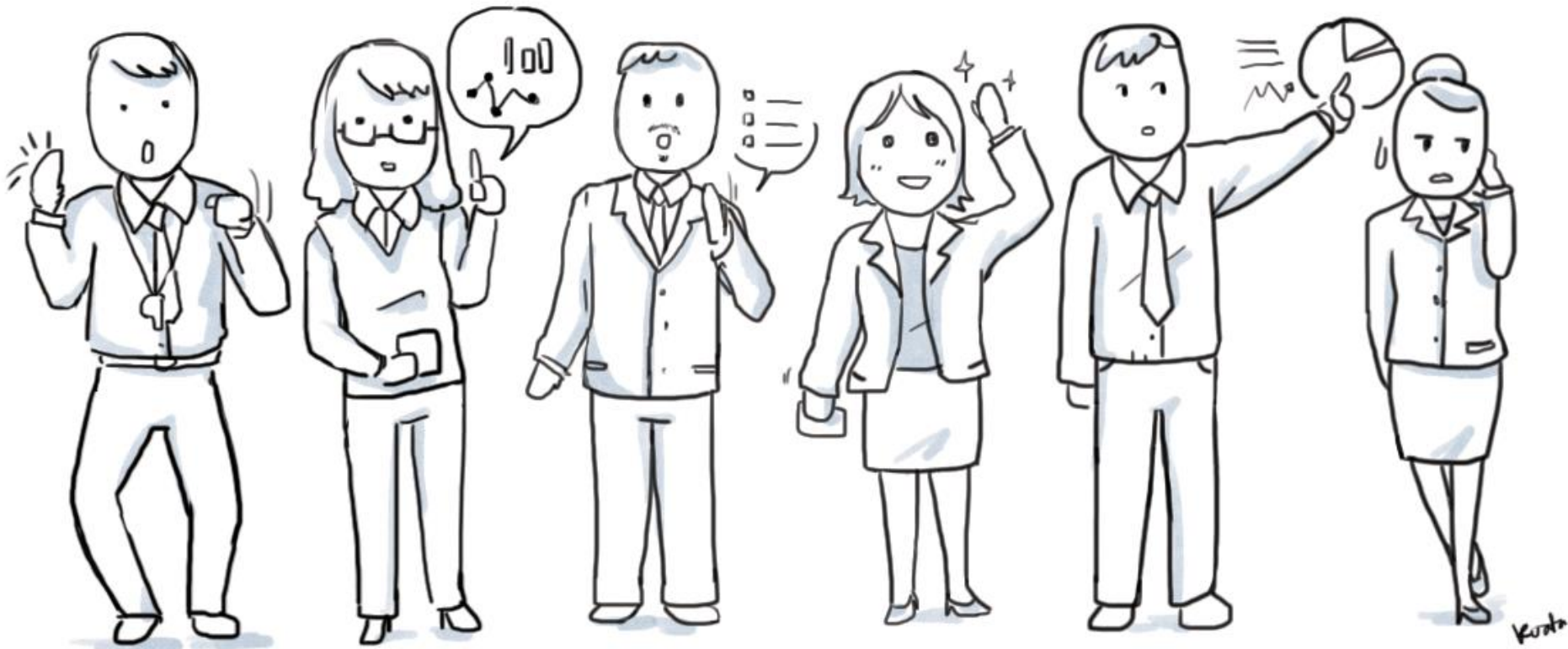
AMBER
PMS 7555
CMYK COATED: 18-37-100-1
CMYK UNCOATED: 15-33-76-0
RGB: 209-159-42
HEX: D59E0F

PLUM
PMS 2622
CMYK COATED: 64-93-32-18
CMYK UNCOATED: 53-69-34-10
RGB: 104-48-100
HEX: 693065

CHARCOAL
PMS WARM GRAY 11
CMYK COATED: 23-32-31-64
CMYK UNCOATED: 52-48-52-9
RGB: 103-92-83
HEX: 675C53

CANVAS
PMS WARM GRAY 2
CMYK COATED: 4-5-7-10
CMYK UNCOATED: 5-5-9-10
RGB: 213-210-202
HEX: D5D2CA

Presenting Your Poster



The Coach

The Inventor

The Counselor

The Storyteller

The Teacher

The Coordinator

The Drone

The Teacher

The Movie Star

The Relationship
Builder

The "excellent"
Presenter

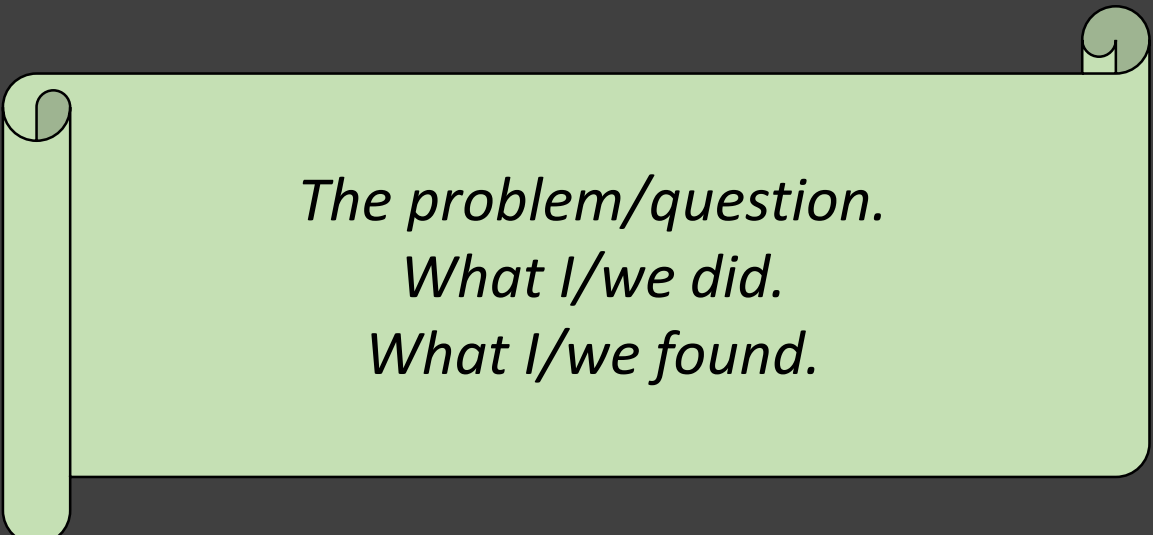


Kuroki

Kuroki

Spiel

- In 2 or 3 sentences, tell me about your research
- Audience appropriate
 - Technical jargon
 - Layman terms



*The problem/question.
What I/we did.
What I/we found.*

Engage the audience

- Prepare a couple questions
- Audience appropriate
 - Technical jargon
 - Layman terms

*Familiarity with the problem/question.
Knowledge about with the research
method/apparatus.
Potential impact on their
job/family/life.*

Setting the stage

- Dress the part
- Meet your neighbors
- Clear the poster area
- Remain attentive



Don't Forget...

Have fun sharing your research
and meeting new people!

Google & YouTube

- Anatomy of an Ace Research Poster
<https://inchemistry.acs.org/content/inchemistry/en/college-life/research-poster-infographic.html>
- Scientific Poster Design - Good and Bad Examples!
<https://www.youtube.com/watch?v=agtgnJP3KoQ>
- How to create a better research poster in less time (including templates)
<https://www.youtube.com/watch?v=1RwJbhkCA58>
- 6 Types of Presenters: Which One Are You?
<https://visme.co/blog/types-of-presenters-quiz/>