Avoiding Power Point Coma

Mike Jacob
McNelly Professor of Technology
Purdue University
175 Knoy Hall 765-494-7490 jacobm@purdue.edu

Power Point is:

A curse!

Best thing since Sliced bread.

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Bloom’s Taxonomy

**Evaluation:** appraise, argue, assess, attach, choose, compare

**Synthesis:** arrange, assemble, collect, compose, construct

**Analysis:** analyze, appraise, calculate, categorize, compare

**Application:** apply, choose, demonstrate, dramatize, employ

**Understanding:** classify, describe, discuss, explain, express

**Knowledge:** arrange, define, duplicate, label, list, memorize

Conclusions:

**Don’t use it for:**

**Use it for:**
Avoiding “coma”

◆
◆
◆

Overview

◆ Key Issues
◆ Layout
  – orientation  template  readability
  – size  color  numbers & graphs
◆ Action!
◆ Handouts
◆ Copyright Issues

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Key Issues

- **Usability:**
  - how easily the user can extract the desired information from the visual
  - proven techniques

- **Aesthetics**
  - visual appeal
  - art

Layout

- Orientation
- Projection size
- Template
- Sequence
- Color
- Readability
- Numbers & graphs
Orientation

This is text.
\[ I = \frac{E}{R} \]

Portrait

This is text.
\[ I = \frac{E}{R} \]

Landscape

Projection Size

back of class room

\[ \text{screen} \]

\[ 1 \]

\[ 6 \]

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Template

- all visuals same look
  - title
  - main info
  - support & drawings
  - identification

- sequence
  - where to look next
  - animation & builds
  - upper left to lower right

Color

- Hot colors
  - White
  - Yellow
  - Pink
  - RED
Color

Cool colors

Gray
Green
Brown
Blue

Color : background

- not distracting
- allows other items to stand out
Color: foreground

- White
- Yellow
- Pink
- RED

- e.g., yellow
- e.g., white
- to direct attention
- use sparingly

Readability: Pictures

> 70% visual

Pictures with words:
- ground plane on back
- pads on 0.1” centers
- drill your own holes to gnd
- tight - min lead length
- BNC
- NEAT!
Readability: Case

- TEXT IN ALL UPPER CASE IS HARD TO FOLLOW.

- Use upper and lower case. Let the rules of good English tell you what to do.

Readability: Fonts

What is this?
Readability: Fonts

◆ One principle font serif.
   – Times Roman is popular in texts, ...

◆ One support font
   – Arial is close to fonts from CAD packages
   – Use it sparingly

Readability: emphasis

◆ Vary
   – size
   – weight
   – color
   – italics
   – underline Beware!

◆ Pick a technique, or two, and stick with it.
Readability: size

Main title: 44

Key points: 32

sub points and most text 24

reference info, probably to be read later 18

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Readability: How much info?

6 words

- Usually about 6 words across is enough.

- Three to five items per slide.

- Older provides reference to newer.

- Change color as you build.
Readability: numbers ➔ graphs

% Use a pie chart

Production
Results

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Readability: numbers ➔ graphs

Trends:
Use a line graph

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Readability: numbers ➔ graphs

Size comparison:
Use a bar graph

Sales Comparison

Action!

TV  < 30 sec per view

Builds

top to bottom
left to right
leave reference drawing in place
new point in white (or larger and offset)
old points in yellow (or smaller and grouped)
allows for:
  slower note taking;  continuity;  organization
Action! animation

- Put in a box
- Stop

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Action! video clips

- Really cool!
- WWW? Citation!!
- Stop the motion when you expect folks to read.
- Keep short and to the point!

www.fen.bris.ac.uk/engmaths/research/onlinear/tacoma/tacoma.html

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Handouts

- schematics, diagrams, …
- general info, ref. ...
- omit steps, leave blanks
- omit answers, leave blanks

Copyright Issues

- James D. Lehman  lehman@soe.purdue.edu

- Copyright and fair use
  - fairuse.stanford.edu
  - www.libraries.psu.edu/avs/fairuse/default.html
  - www.iupui.edu/it/copyinfo/highered.html

- Copyright Code
  - www.law.cornell.edu/uscode/17/
Copyright Issues

- Copyright Clearance Center
  - www.copyright.com

- U.S. Copyright Office
  - Lcweb.Loc.gov/copyright

- U.S. Office of Patents and Trademarks
  - www.uspto.gov