PowerPoint as a Powerful Tool

Tips for Effective Design and Increased Interactivity

Why PowerPoint?

- To hold interest
- To focus attention
- To guide discussions/overviews
- To tell a story
- To support the message being delivered
- To create a poster for a conference

Tip #1 for Oral Presentations

Have only the minimum required text on each slide.

Text on Slide: Too Much

When in the Course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, to assume among the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty, and the pursuit of Happiness.

That to secure these rights, Governments are instituted among Men, deriving their just powers from the consent of the governed.

Text on Slide: Better

- We hold these truths to be self-evident
 - that all men are created equal,
 - that they are endowed by their Creator with certain unalienable Rights, that among these are:
 - life,
 - liberty
 - the pursuit of happiness

Tip #2

Be consistent and sparing in your use of transitions and animations.

Moving Text

- When text appears, we don't want the audience to be watching the animation.
- Use the

"Appear effect"

Not

"FANCY EFFECTS"

Tip #3

Be consistent in your choice of bullets, font, and colors.

COMPOST QUALITY and FOOD SAFETY CONCERNS

A recent survey of 'finished' compost products produced at 30 California commercial facilities

> Found large variation in many characteristics

Indicates highly variable feedstocks and process management

Poor process management, curing conditions, and cross-contamination of equipment are most common cause

Font Sizes

This is a good title size. Verdana 40 point = sans serif.

This is a good subtitle or bullet point size. Times 36 point = serif.

This is about as small as you want to go for content at 24 points.

This font size is not recommended for content. Verdana 12 point.

Fonts and Background Colors

This is a good mix of colors. Readable!

This is a bad mix of colors. Low contrast. Unreadable!

This is a good mix of colors. Readable!

This is a bad mix of colors. Avoid bright colors on white. Unreadable!

Tip #4

Create graphics (such as tables and charts) appropriately.

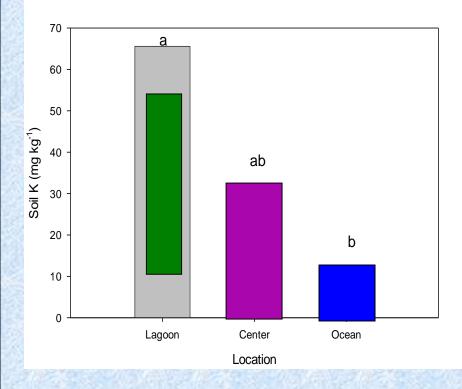
Inappropriate Use of Tables

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Appropriate Use of Tables and Figures

- Emphasize key parts so that your points are stronger:
- Animate the graph or table elements
- Use drawing tools to highlight a portion of the table or graph
- Use strong contrasting color for drawing element
- Use callout box drawing tool

Nutrient concentration tends to decrease from lagoon to ocean side



Nutrient	Location	Concentration	Pr>F
N	Lagoon	0.66	0.27
	Center	0.53	
	Ocean	0.40	
Р	Lag	Very	0.20
	Ce in	nportant	
	Ocean	15.7	
К	Lagoon	65.6	0.08
	Center	32.5	
	Ocean	12.2	
В	Lagoon	0.38	0.19
	Center	0.29	
	Ocean	0.28	

Tip #5

Remember that white space is our friend.

Slide Overkill

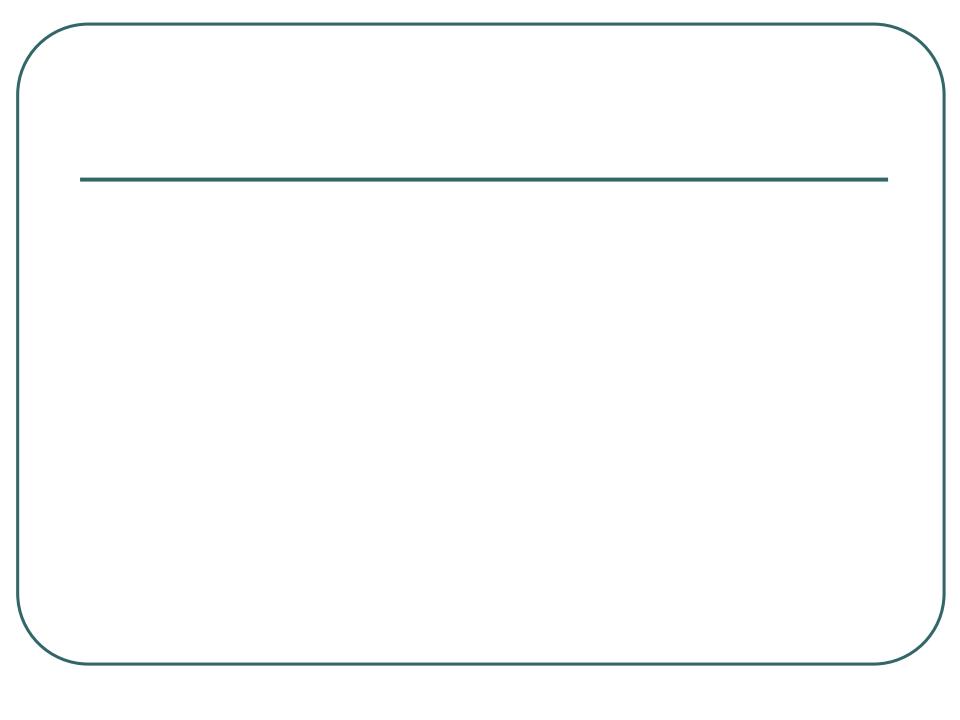
 The data suggest that the high-level wells tap interconnected, though bounded, aquifers whose rate of water level decline is inversely proportional to its volume. Future well drilling for high-level potable sources must include accurate, well-designed aquifer tests that will aid in the determination of geologic boundaries to provide information on the geometry of the aquifer.
 The data suggest that there may be more than geological mechanism that created the high-level aquifer.

4. The data suggest that there is a water level pattern observed in the high-level wells with Keopu being the "drain" for the ground-water flow system. The ground-water flux south of Keopu is to the north, and north of Keopu, the ground-water flow is to the south.

5. Some high-level wells do exhibit quasi-stable water levels, and show little variation over time. Use of long-term water level transducers in these wells should continue in conjunction with long-term water level transducers in those wells that show water level decline. Real time correlation between water levels in the wells with climatic conditions measured at Lanihau Rain Gage will provide better insight into the behavior of the potable high-level aquifers.

Washout Picture

- 1. Insert a Picture by choosing Insert>Picture>From File
- 2. Resize it to completely fill the frame
- 3. Keeping the picture selected, choose Format>Picture>Image Control
- 4. Under Color, choose Washout



Tip #6

Remember that *you* are the show --not the PowerPoint slideshow.



What makes the design of a .ppt presentation ineffective?

- Slides read word for word (60%)
- Text too small (51%)
- Full sentences used (48%)

Source: Bad PowerPoint Press Release 2003 survey www.communicateusingtechnology.com

Tip #7

Do use some graphics in your slideshow. Nothing is more boring than an all-text slideshow. Choose them carefully, though.

JPG or JPEG

- This stands for "Joint Photographic Experts Group"
- This is the best file type to use if your image is a photo or a scan
- This file type allows for a full range of colors in a small file

Responsibilities of the Specialist





Leadership

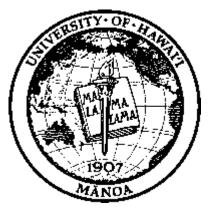

Synthesis

GIF

- This stands for "Graphical Interface Format"
- This is the best file type to use for logos, line art, or other images with limited colors
- GIF files only store colors that are actually used in the image

GIF Examples





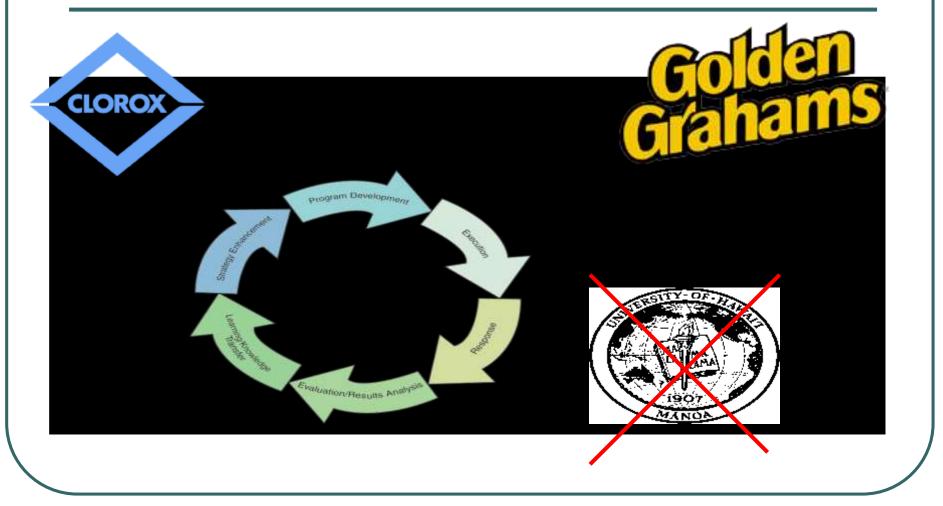




TIF or TIFF

- This stands for "Tagged Image File Format."
- This is the best file type to use if you need transparency in the image
- It is the most widely used file format in desktop publishing

TIFF Example



What About Resolution?

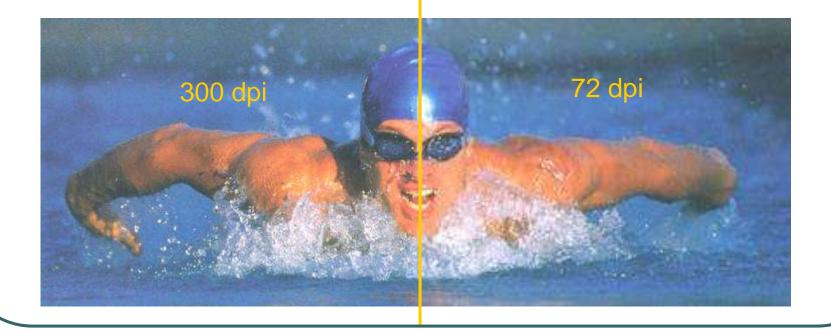
- "Resolution" = number of pixels per inch in a bitmap image
- The more dots per inch (dpi), the higher the resolution
- Higher resolution ("high res") means a better quality image



HOWEVER... PowerPoint only displays at 92 dpi onscreen

What Resolution Should I Use?

Can you tell the difference on screen? How about if you print it?



What Resolution Should I Use?

So what's the difference?



300 dpi This image is 1.4 MB 72 dpi This image is 240 K

Tip #8 On Screen vs. Print

ON SCREEN 92 dpi PRINTING 300 dpi

- If showing PowerPoint presentation on screen only, use images at 92 dpi
- If printing PowerPoint presentation, use images at 300 dpi
- High res images look better when printed but make presentation file big
- Never start with a low res image and try to increase it's res. Result will be a <u>fuzzy picture</u>

Tip#9 Make it Interactive

- Be able to jump to any slide
- Blank the screen
- Draw on the screen
- <u>Screen Shots</u>

Screen Shots



Tip #10 Package for CD

Package for CD		
running l	esentations to a CD that will play or Microsoft Windows 98 Second Editio PowerPoint.	
Name the CD:	PresentationCD	
Files to be copied	k.	
My Presentatio	n.ppt	Add Files
	the PowerPoint Viewer are ault. To change this, click Options.	Options
Copy to Eolder	Copy to CD	Close

Package your presentations and all of the supporting files and run them from the same source.

Tip #1 Poster Presentations

 Construct the poster to include the title, the author(s), affiliation(s), and a description of the research, highlighting the major elements that are covered in the abstract.

Kent D. Kobayashi

Tropical Plant & Soil Sciences Department, University of Hawaii at Manoa





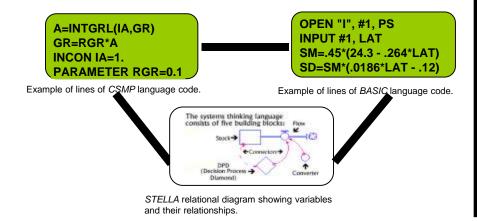
How can the student-learning experience be enhanced using computer simulations?

This paper describes the use of several simulation programs to promote active, hands-on learning in a graduate course on crop modeling.

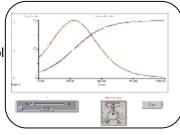
Methods

TPSS 601 Crop Modeling covers modeling crop growth and development. In the laboratory session, students discuss scientific papers.

Software to do crop simulations—*CSMP, BASIC, and STELLA*—were introduced into the lab session. Using these software, students developed their own crop models for homework and lab assignments, and a term project.



STELLA graph showing simulation output. "Slider" and "knob" icons control values of the variable and parameter. "Run" button runs the model.



Results

- Enhanced understanding of crop physiology and relationship between crop and environment.
- Students had hands-on experience developing their own crop models.
- Enabled exploring "what if" scenarios.

Software	Advantages	Disadvantages
CSMP	Simple coding. Models already available.	Crude graphs. Need to run on mainframe computer.
BASIC	Simple coding. Models already available.	Students would have to learn language. Many lines of code needed.
STELLA	Graphical icon based. Relational diagram approach.	Logistics—only Mac version used. Software is expensive.

STELLA is being used this fall in my other TPSS courses—"Computer applications, high technology, and robotics in agriculture" and "Plant growth and development."

Conclusions

Use of computer simulation software in a crop modeling course enabled students to develop crop models, thereby enhancing active learning through hands-on experience.

Acknowledgements Support from President's Educational Improvement Fund Grant, University of Hawaii.

Minimize detail and try to use simple, jargon-free statements.

Kent D. Kobayashi

Tropical Plant & Soil Sciences Department, University of Hawaii at Manoa

Introduction



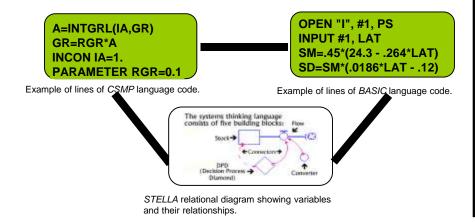
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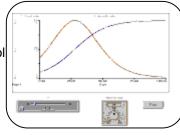
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 Remember that pictures, tables, and figures are amenable to poster display

Kent D. Kobayashi

Tropical Plant & Soil Sciences Department, University of Hawaii at Manoa

Introduction



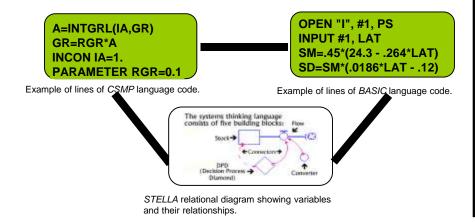
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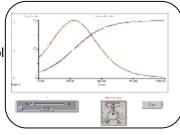
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Acknowledgements Support from President's Educational Improvement Fund Grant, University of Hawaii.

• If you can, use color in your visuals.

Kent D. Kobayashi

Tropical Plant & Soil Sciences Department, University of Hawaii at Manoa

Introduction



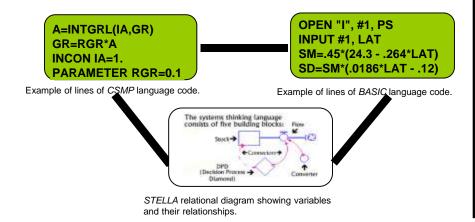
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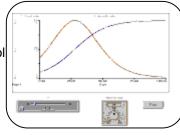
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 Make sure your fonts are consistent and are large enough to be read from a distance, i.e., do not simply pin up a set of typed pages--reserve these for your handout.

 Consider using a flow chart or some other method of providing the viewer with a guide to inspecting your display.

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Introduction



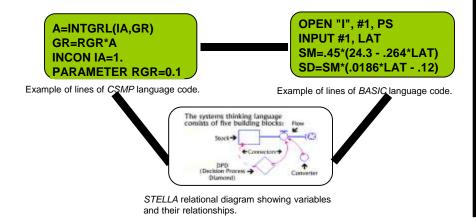
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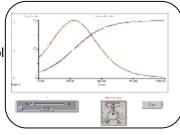
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- Enabled exploring "what if" scenarios.

Software	Advantages	Disadvantages
CSMP	Simple coding. Models already available.	Crude graphs. Need to run on mainframe computer.
BASIC	Simple coding. Models already available.	Students would have to learn language. Many lines of code needed.
STELLA	Graphical icon based. Relational diagram approach.	Logistics—only Mac version used. Software is expensive.

STELLA is being used this fall in my other TPSS courses—"Computer applications, high technology, and robotics in agriculture" and "Plant growth and development."

Conclusions

Use of computer simulation software in a crop modeling course enabled students to develop crop models, thereby enhancing active learning through hands-on experience.

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 Don't overwhelm the viewer with excessive amounts of information; rather, construct a poster display that enhances conversation.

Final Word



"The purpose of using visual aids is to enhance your presentation, not upstage it."

> Lenny Laskowski PowerPointers.com

References

 Luisa F. Castro, Tips for Effective Design and Increased Interactivity, presentation