

Engaging Students with PowerPoint

Scott A. Sinex

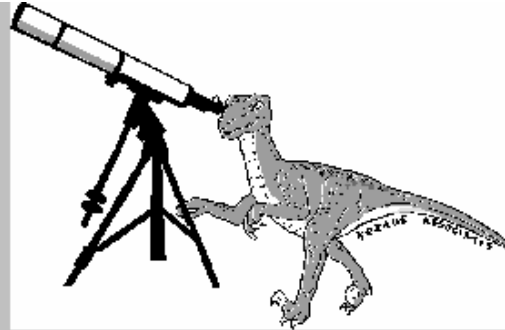
Department of Physical Sciences & Engineering
Prince George's Community College

Presented at

Maryland Consortium for Adjunct Faculty Professional Development (MCAPD)
on 27 September 2008 held at Community College of Baltimore County, Catonsville, MD.

LiveWeb and Chime images are shown static here.

Your presenter...



Scott A. Sinex

Department of Physical Sciences and Engineering

[Prince George's Community College](#)

Largo, MD 20774-2199

301-341-3023

e-mail: ssinex@pgcc.edu

[interests](#)

[teaching/courses](#)

[education](#)

[publications](#)

[presentations](#)

CURRENT POSITION

Professor and Chair of [Physical Sciences and Engineering](#)

Webpage using LiveWeb would have been embedded here!

Mode of questioning

The order of penetration of radiation for materials is:

gamma (γ) > beta (β) > alpha (α)

or could we...

Which form of radiation is most penetrating?

alpha

α

beta

β

gamma

γ



paper



0.5 cm lead



10 cm lead

Animation using motion paths: Custom animation > add effect > motion path

Turbidity and Light Penetration

What is the biological importance of light penetration to submerged aquatic vegetation (SAV)?

As turbidity increases, light penetration decreases.



Our goal...



Audience 2006: asleep, damp and possibly deceased
photo: Bill Spence

To prevent death by PowerPoint!!!
and
not use the flying word stuff!!!

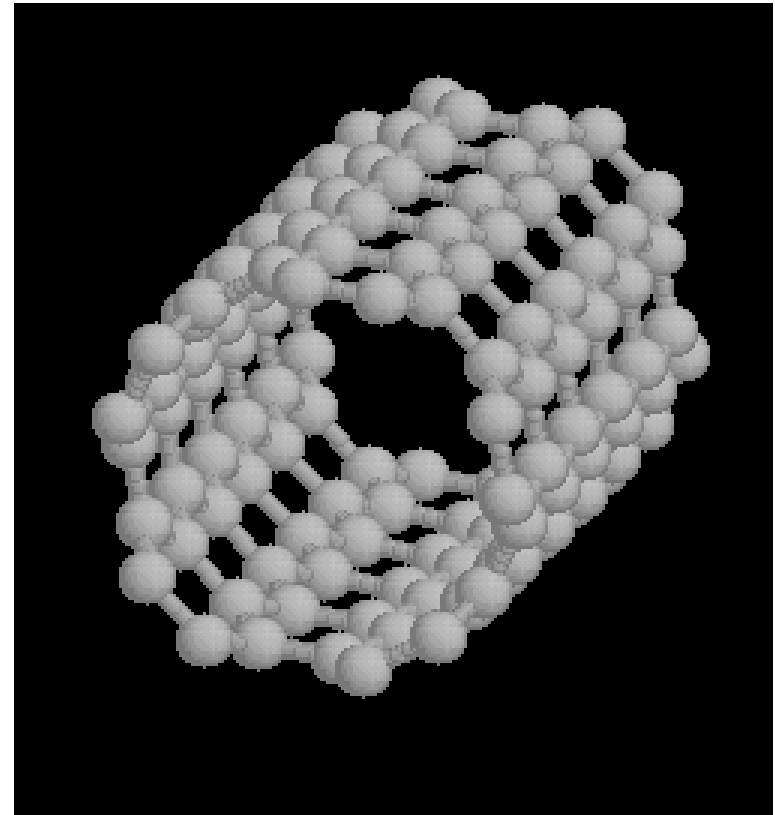
<http://www.oldsongs.org/festival/asleep2006au2.html>

Interactive items...

What is this?



You would hide this with selecting your background



Interactive Chime structure
with LiveWeb

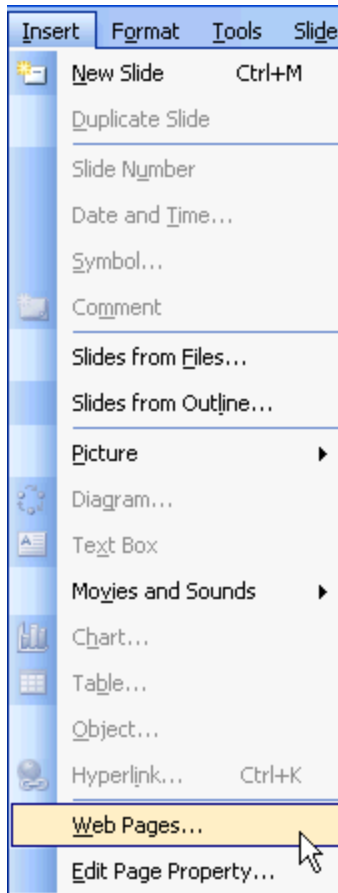
The answer button is set up to trigger an animation, the exiting of the blue box.

LiveWeb

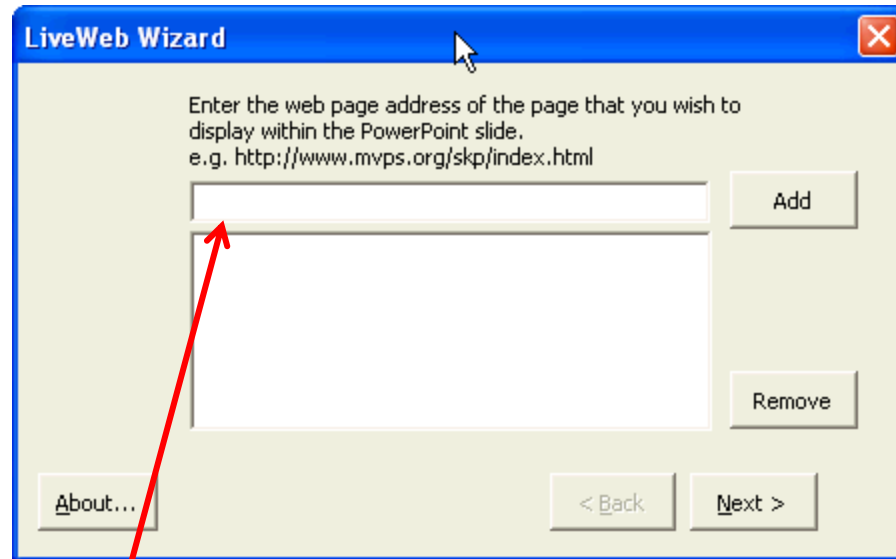
- A macro that allows webpages and other files to be embedded in PowerPoint slides
- Avoids jumping out of PowerPoint!!!!

Inserting a webpage - do this before adding any text and you can resize window on slide afterwards

1a.



2.



3. Add full URL for internet sites, such as <http://academic.pgcc.edu/~ssinex>

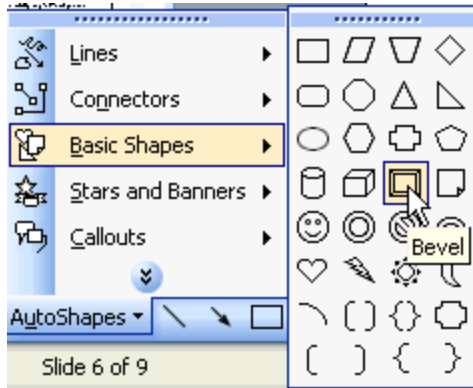
For local files in your presentation folder - just add file name

1b.



Animation trigger button

1. Get the button

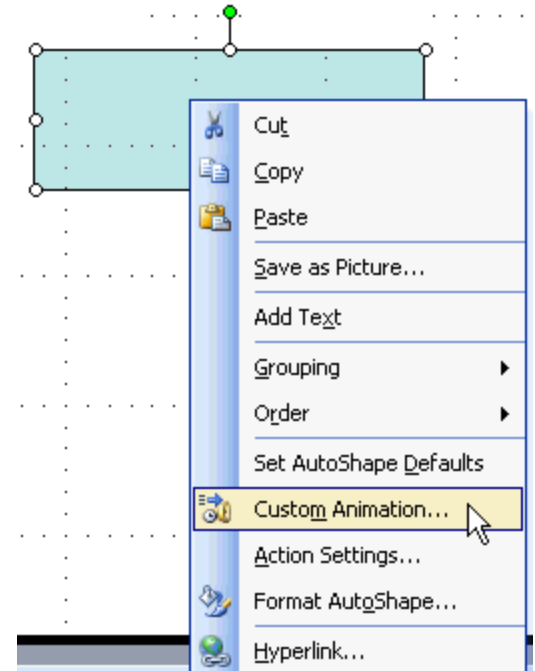


2007: Home tab > shapes

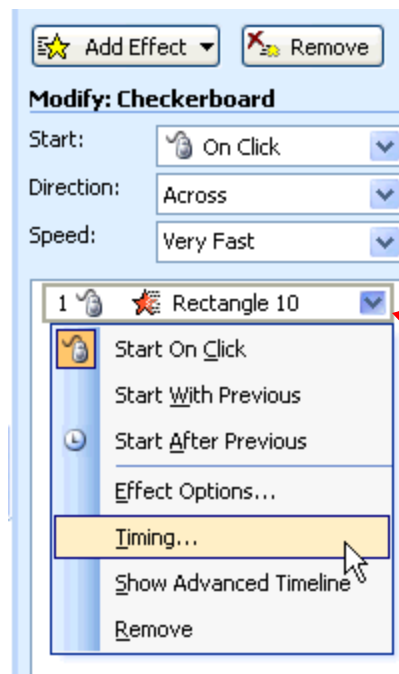
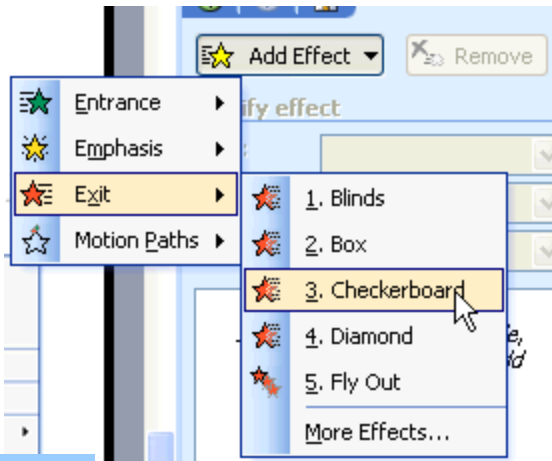
2. Add text by right clicking on the button, select Edit Text



3. Get box and right click, select custom animation



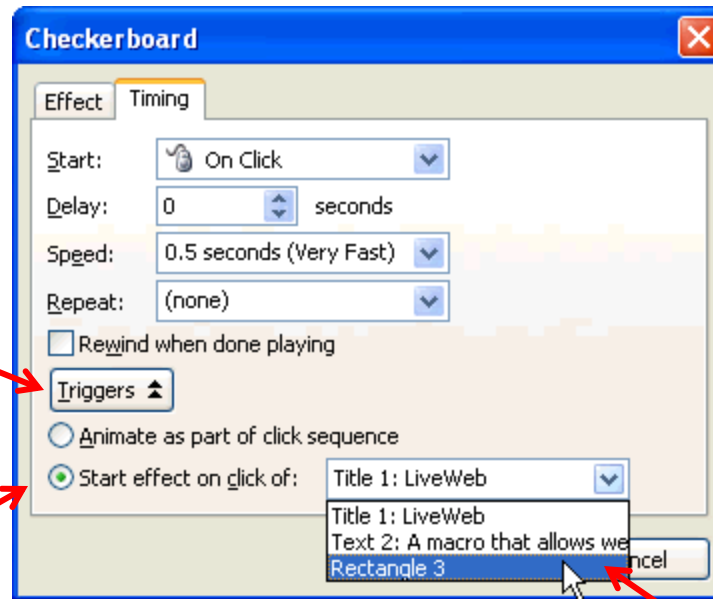
4. Select add effect and EXIT



5. Click dropdown and select timing



1. Click triggers



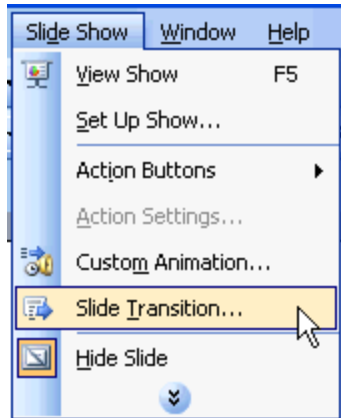
2. Select start effect on click of

3. Dropdown the menu and Select your object, it will have any label text here to help locate it

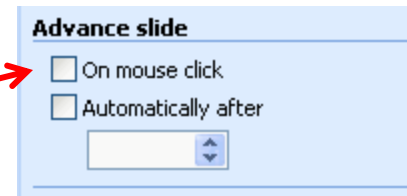


For action button control

1a. Go to slide transition

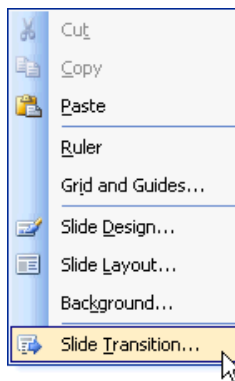


2. Down the slide transition side menu, find advance slide



3. Deselect "on mouse click"

1b. or right click on the slide



To hide the slide, select the slide and go to the slide show menu and select hide slide.

1c. Animation tab > advance slide



Developing an interactive student tutorial in PowerPoint



Start

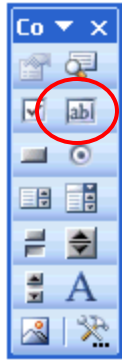
The action button labeled "Start" is linked to another PowerPoint file.

Done using drawing tools!



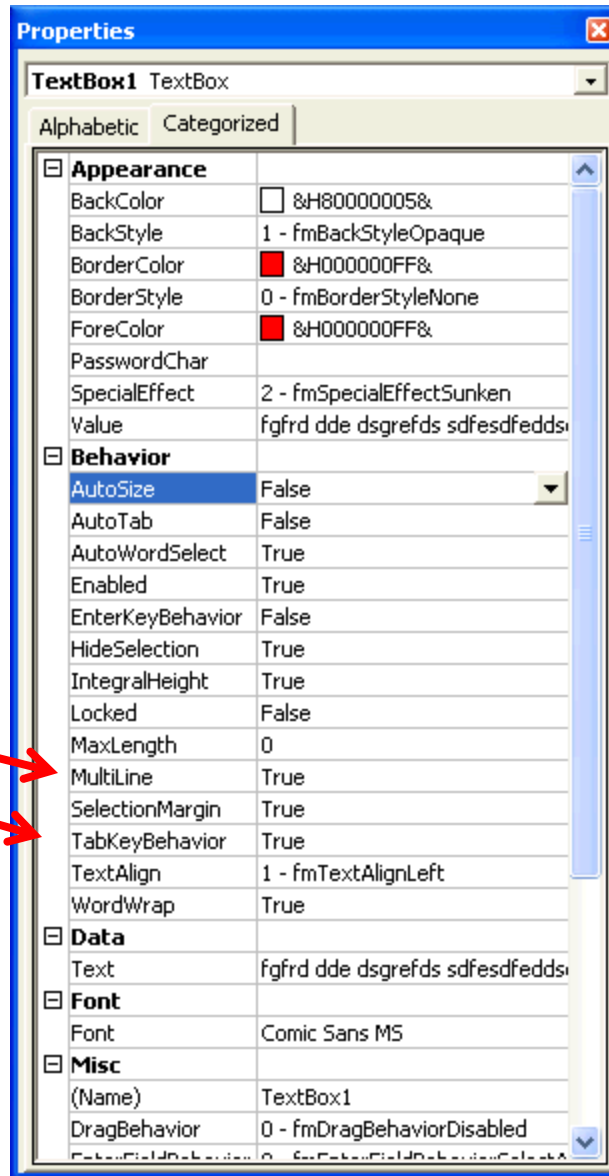
To add text boxes

1. View > toolbars
Control toolbar
Select a
Textbox



2007: Developer
tab > controls

3. Set these to
true



You may want a scroll bar if
a lot of text is to be typed in

Adding an interactive textbox
that you can type into in the
Presentation mode and the
text can be saved at the end.

Great for student answers.

2. Right click on the textbox
and select properties

You can type in this box
during your presentation!

Try it...

Students can add answers
in tutorials too!!!



Non-linear presentation

Start

Cartooning in PowerPoint

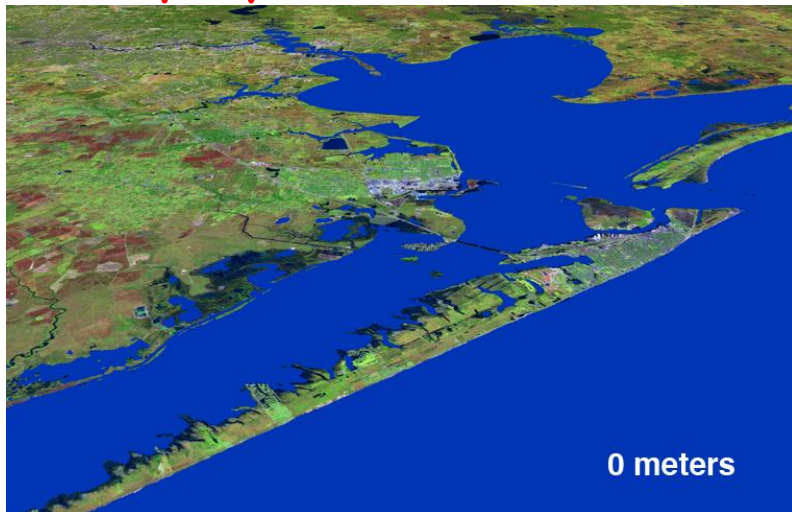
[Just a hyperlink to another PowerPoint file](#)

When does anoxia, lack of dissolved oxygen,
occur during the year?

This is a series of slides that we will flip through.
Press ESC button to stop.

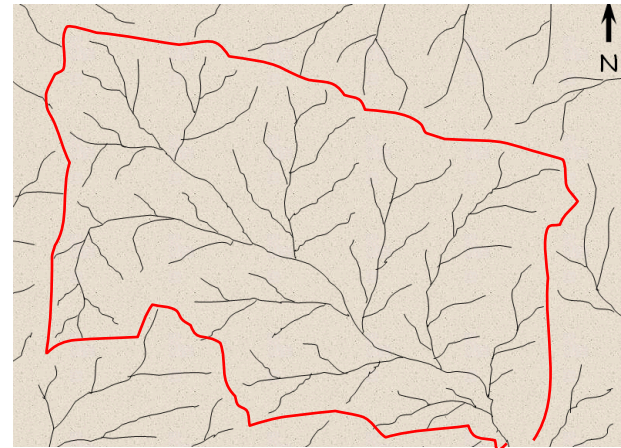
animations...

Animated gif -
will play in show mode



<http://photojournal.jpl.nasa.gov/catalog/PIA06674>

Animate in PowerPoint -
use drawing tools



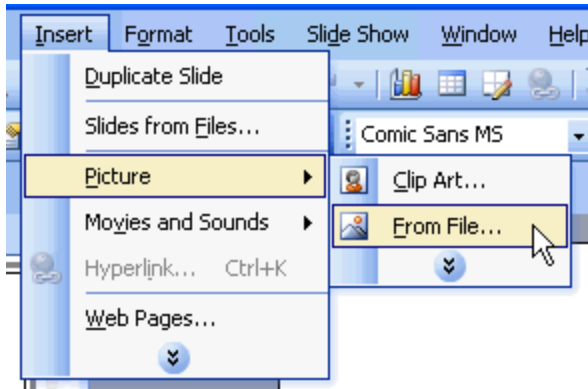
Circle the watershed

Movie -



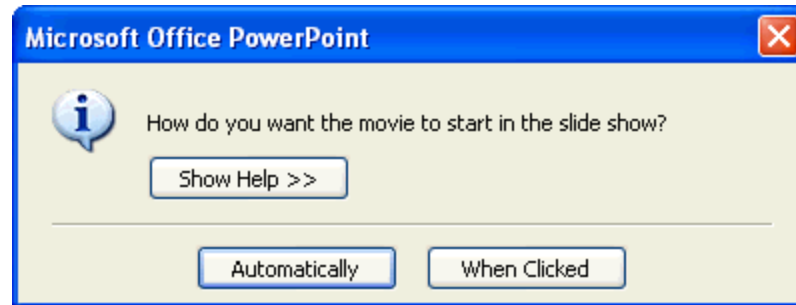
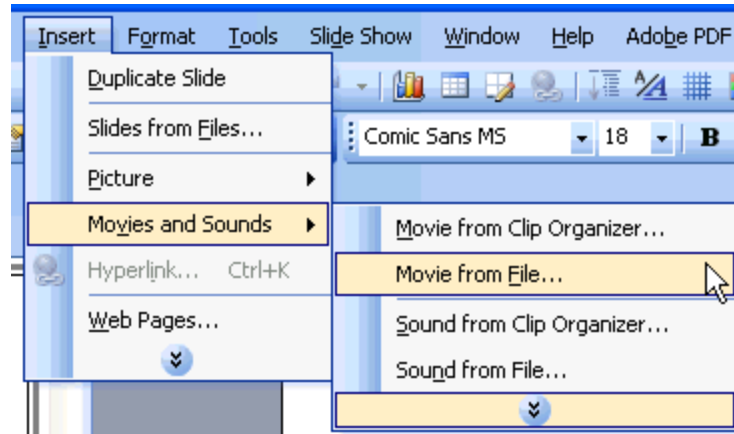
instructions

For pictures: jpeg or gif



Animated gifs play in the slide show mode only!!

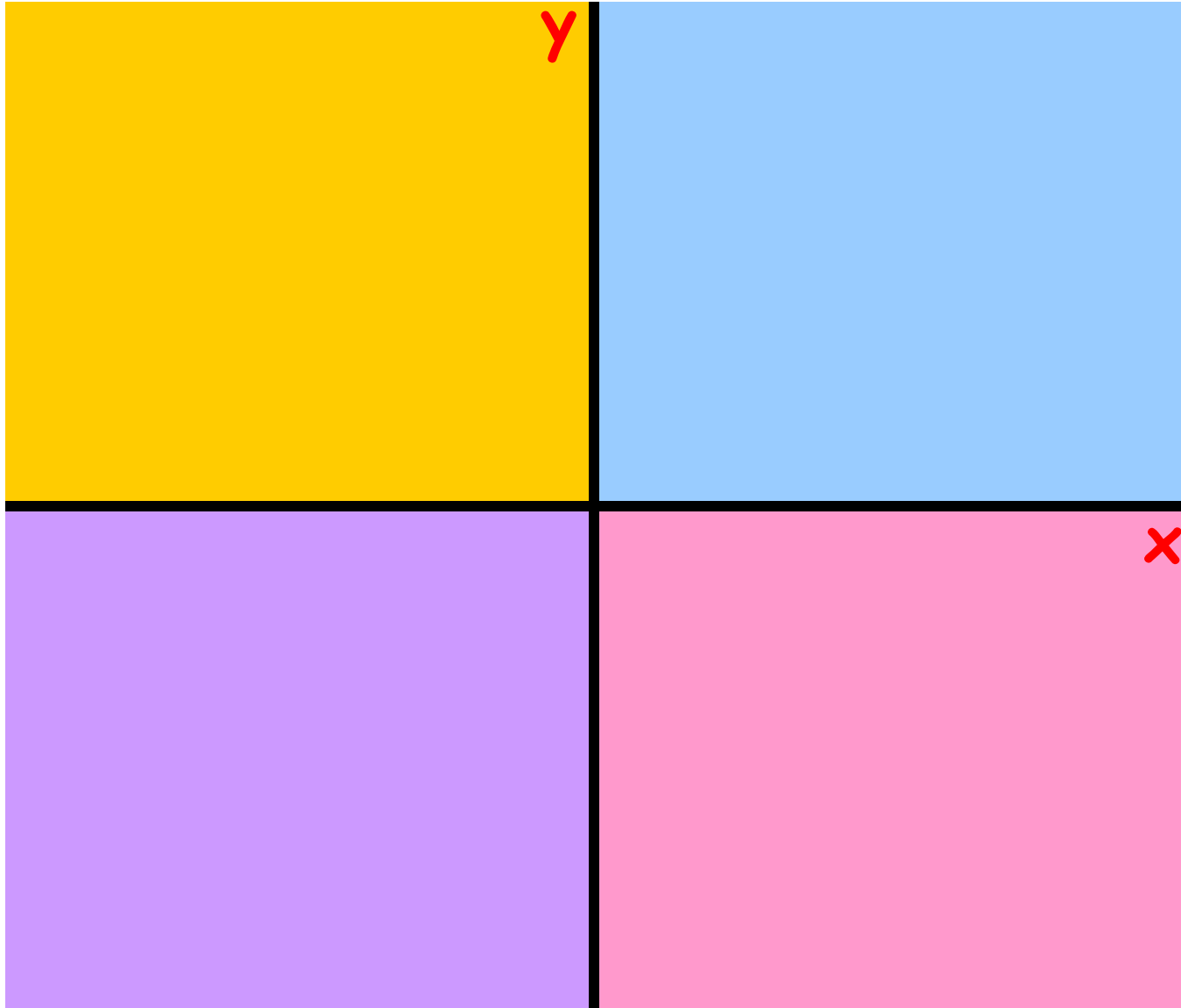
For movies and sound files



Movie files are kept separate, so place in your presentation folder before linking.



The Signs of the Quadrants in Mathematics

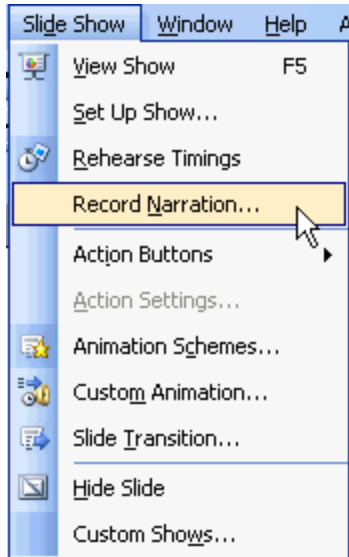


Constructed using the drawing tools



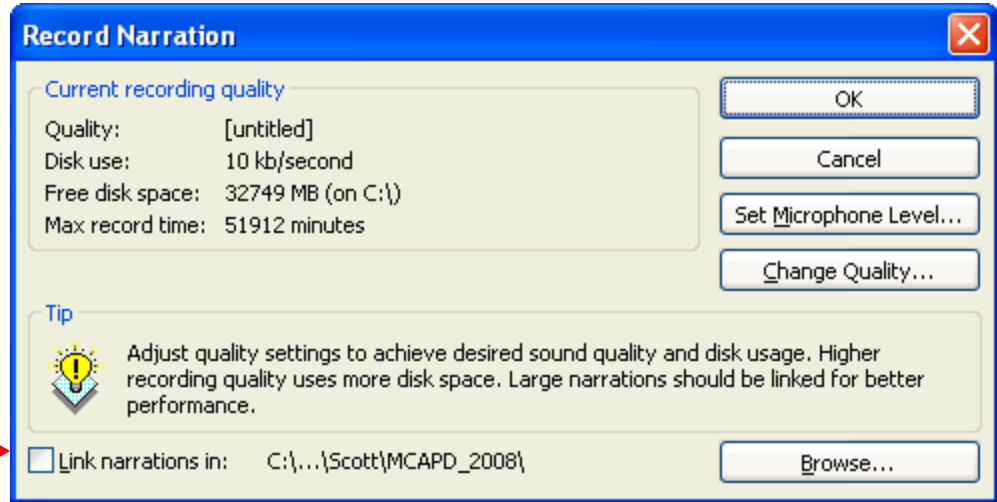
Adding narration...

1. Select record narration from the slide show menu.

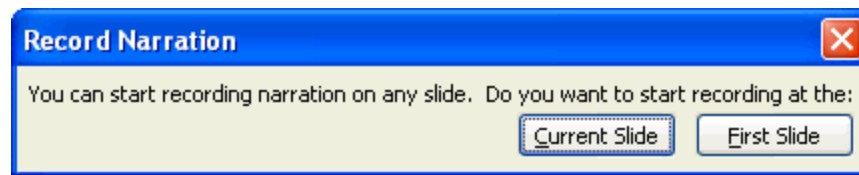


File gets really big! →

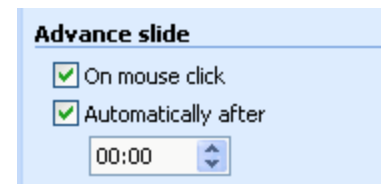
2.



3.

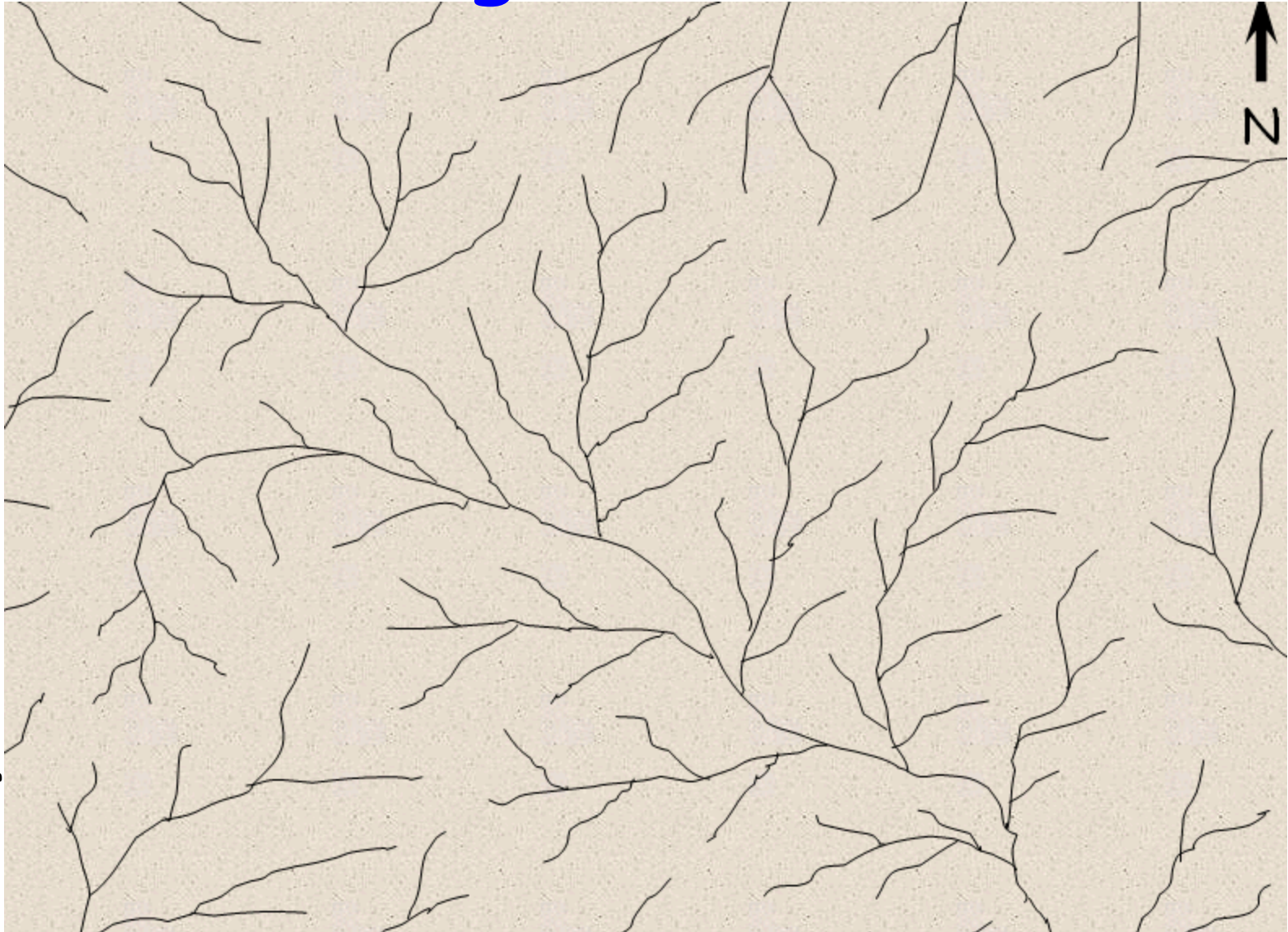


4. Slide advance is set to automatic.



Recommendation from a narrator: write out your script!!!

Annotating with PowerPoint



Move
cursor
over



Map drawn with drawing tools! Annotations can be saved at conclusion.

ZoomIt

As you can obviously see...



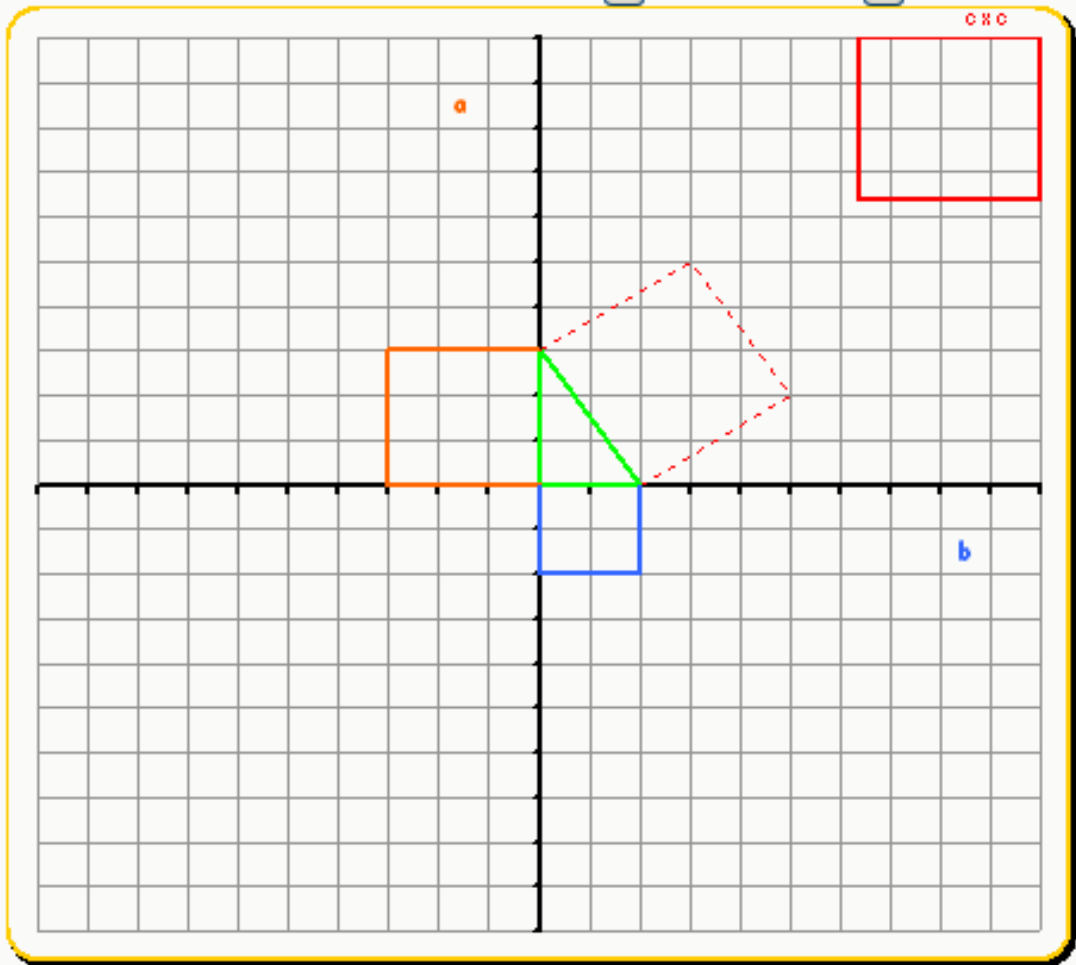


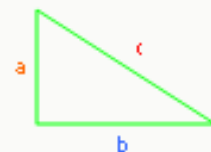
or NOT!!!

Close up

<http://www.photolib.noaa.gov/htmls/line0730.htm>

more with ZoomIt...

	A	B	C	D	E	F	G	H	I	J	K	L												
1	Pythagorean Theory																							
2			$a^2 + b^2 = c^2$		a =	3	b =	2			areas are equal													
3											 = 													
4																								
5																							$a^2 =$ 9	
6																							$b^2 =$ 4	
7																								
8																								
9																							$c^2 =$ 13 (sum)	
10																								
11																							so, c =	3.6055513
12																								
13																								
14																								
15																								
16																								
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29																								
30																								
31																								



labeled example
→

[Sinex 2008](#)

Why exit animation?

- Use a background colored box with exit animation - hides answer on screen and during printing!!
- Students must view animated slides!!

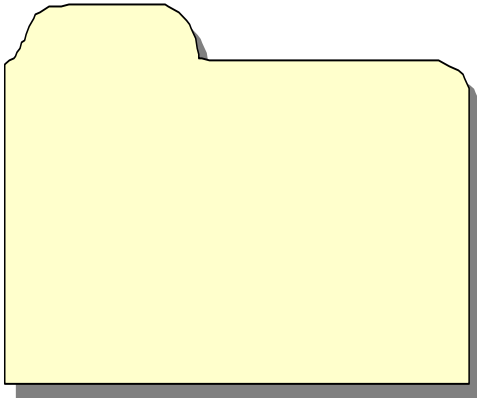
Save As...

File formats

Save as type	Extension	Use to save
Presentation	.ppt	A typical Microsoft PowerPoint presentation
Windows Metafile	.wmf	A slide as a graphic
GIF (Graphics Interchange Format)	.gif	A slide as a graphic for use on Web pages
JPEG (File Interchange Format)	.jpg	A slide as a graphic for use on Web pages
PNG (Portable Network Graphics Format)	.png	A slide as a graphic for use on Web pages
Outline/RTF	.rtf	A presentation outline as an outline document
Design Template	.pot	A presentation as a template
PowerPoint Show	.pps	A presentation that will always open as a slide show presentation
Web Page	.htm; html	A Web page as a folder with an .htm file and all supporting files
Web Archive	.mht; mhtml	A Web page as a single file including all supporting files

Cartoons to animated gifs

For animated viewing that students can't print



first thing to do...

- Create a presentation folder
- Save your PowerPoint file to this folder
- Add movies, sound files
- Add documents with LiveWeb links - such as Excel files
- Narration sounds files will go here if you don't embed them

More resources...

M.A. Christian (2002) Death by PowerPoint or Twelve Steps to Better E-Presentations

http://www.marshall.edu/it/cit/presentations/2002/wvnet/preventing_death_by_powerpoint.pdf

S. Loomis (2007) Using the Annotation Tools in Microsoft PowerPoint

<http://scottloomis.net/resources/Using+Annotation+Tools+in+Microsoft+PowerPoint.doc>

S. Loomis (2007) Inserting Text Box Objects in Microsoft PowerPoint

<http://scottloomis.net/resources/LoomisLetterMay2007.pdf>

D.M. Marcovitz (2004) Powerful PowerPoint for Educators: Using Visual Basic for Applications to Make PowerPoint Interactive, Libraries Unlimited, Westport Connecticut. See website for book for examples and more tricks.

<http://www.loyola.edu/eddept/PowerfulPowerPoint>

Still more resources...

S.A. Sinex (2002) Dynamic PowerPoint: A Visualization Tool for Engaging Learners

<http://academic.pgcc.edu/~ssinex/DPP/DynPP.ppt>

S.A. Sinex (2008) Instructional Technology Tools (many other easy tools to use)

<http://academic.pgcc.edu/~ssinex/ITTools>

S.A. Sinex and R.S. Osinski (2002) Producing Dynamic Presentations Using Microsoft PowerPoint 2002

http://academic.pgcc.edu/psc/DPP_guide.pdf

S.A. Sinex (2008) PowerPoint 2007 Quick Guide

<http://>

Dynamic PowerPoint: Using PowerPoint's Interactivity Features to Create Games, Quizzes, Menus, Tutorials and More

<http://www.powerpointmagician.com/articles/Dynamic%20PowerPoint.pdf>

Still more resources...

Freeware/Add-ins:

LiveWeb - a macro that will allow you to embed webpages or other files in PowerPoint (instructions for installing are given as well; note versions for PowerPoint 97-2003 and PowerPoint 2007)

<http://skp.mvps.org/liveweb.htm>

ZoomIt - screen enlarging freeware plus it allows for annotations and a timer

<http://technet.microsoft.com/en-us/sysinternals/bb897434.aspx>

2007 Microsoft Office Add-in: Microsoft Save as PDF or XPS

<http://www.microsoft.com/downloads/details.aspx?FamilyID=4d951911-3e7e-4ae6-b059-a2e79ed87041&displaylang=en>

Contact...

Scott Sinex - ssinex@pgcc.edu

<http://academic.pgcc.edu/~ssinex>



Thanks for attending too!