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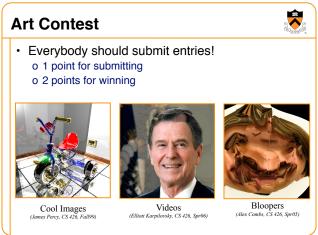
Administrative Matters

- Instructors

 Adam Finkelstein and Tim Weyrich
 Connelly Barnes (TA)
- Book o Computer Graphics with OpenGL, Third Edition, Donald Hearn and M. Pauline Baker, Prentice Hall, 2004 ISBN: 0-13-015390-7
- Web page o <u>www.cs.princeton.edu/courses/archive/spr08/cos426</u>
- Mailing list
 o cos426@lists.cs.princeton.edu

Coursework (approx. dates) Exams (30%) In class (Mar 13 and May 1) Programming Assignments (40%) Assignment #1: Image Processing (due Feb 20) Assignment #2: Modeling (due Mar 9) Assignment #3: Ray Tracing (due Apr 9) Assignment #4: Animation (due Apr 27) Final Project (20%) Do something cool! (due at end of semester) Class Participation (10%)

Programming Assignments When? Roughly every 2-3 weeks Where? Anywhere you want, e.g. home or Friend 017 lab How? C and C++ OpenGL, GLUT What? Basic feature lists Extra credit lists Art contest

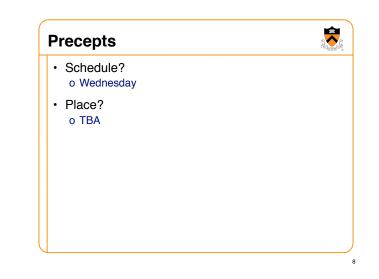


Collaboration Policy



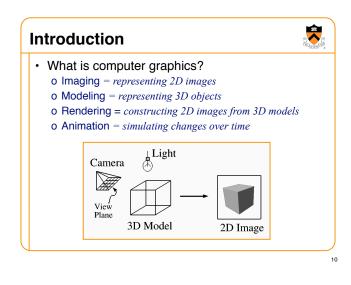
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- · Overview:
 - o You must write your own code (no credit for other code)
 - o You must reference your sources of any ideas/ code
- It's OK to ...
 - o Talk with other students about ideas, approaches, etc.
 - o Get ideas from information in books, web sites, etc.
 - o Get "support" code from example programs
 » But, you must reference your sources
- It's NOT OK to ...
 - o Share code with another student
 - o Use ideas or code acquired from another sources



Overview Administrivia People, times, places, etc. > Syllabus o What will I learn in this course?

Raster Graphics
 o Getting started ...



Applications

- Entertainment
- · Computer-aided design
- · Scientific visualization
- Training
- · Education
- E-commerce
- Computer art



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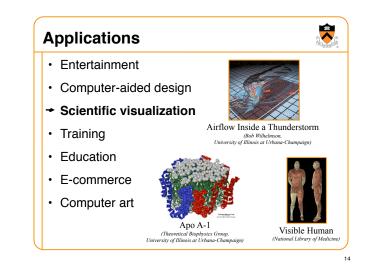
Applications

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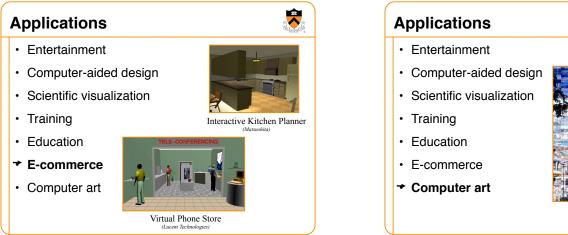


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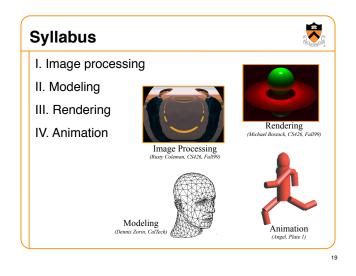


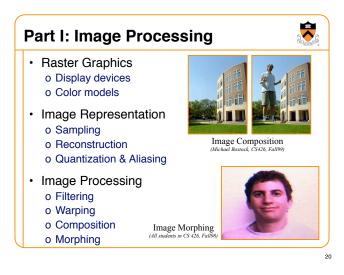


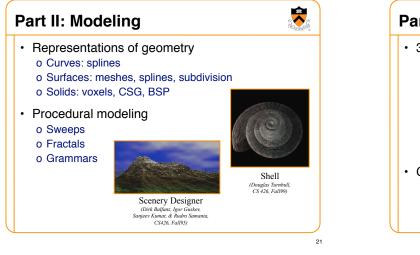
Blair Arch (Marissa Range '98)

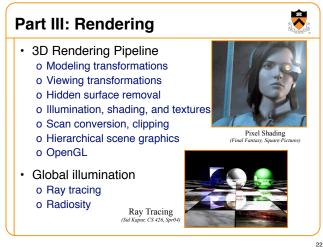


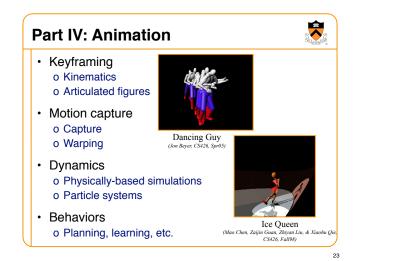
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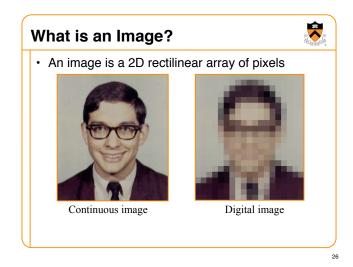
Raster Graphics

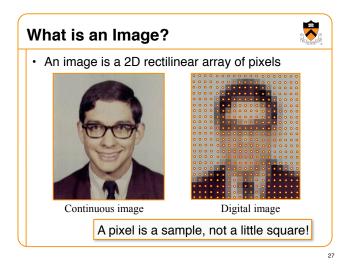
Images

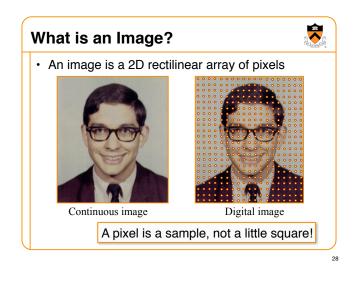
- o What is an image?
- o How are images displayed?
- · Colors
 - o How do we perceive colors?
 - o How do we represent colors in a computer?

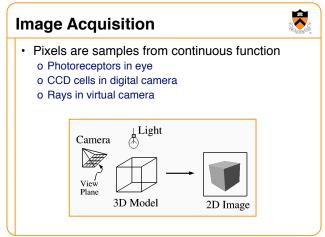
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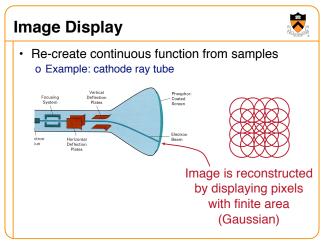
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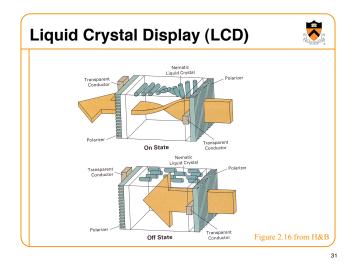


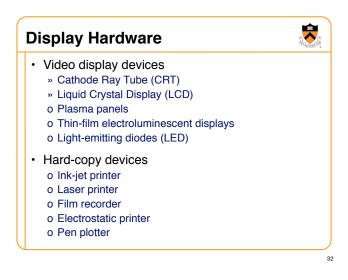




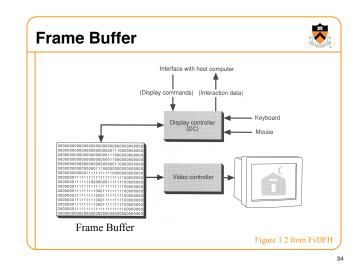


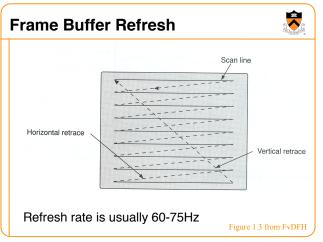


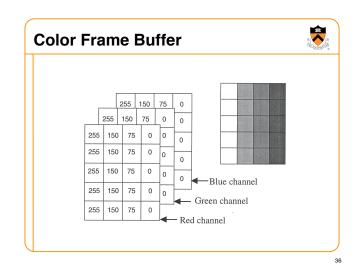


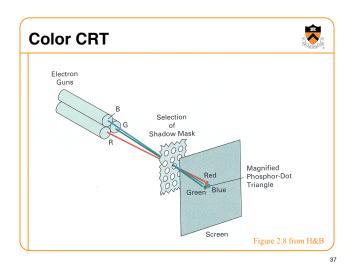


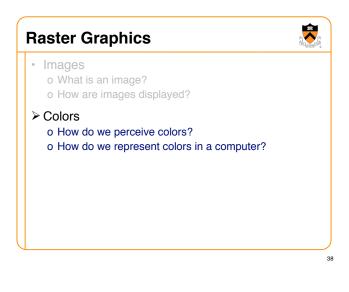
Intensity re o Each pixe		epth" bits for co	lors/inter	sities
Spatial res		x "Height" pixe	Is	
Temporal ro o Monitor re		es at only "Rate	e" Hz	
o Monitor re	freshes imag	es at only "Rate Width x Height	e" Hz Depth	Rate
o Monitor re				Rate 30
o Monitor re	freshes imag	Width x Height 640 x 480	Depth	
	freshes imag	Width x Height 640 x 480	Depth 8	30

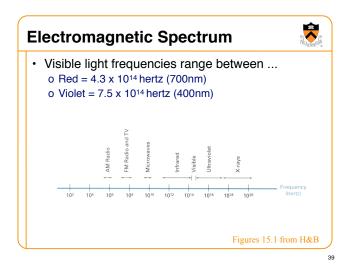


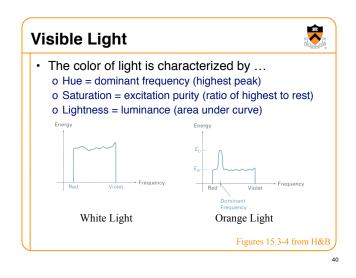


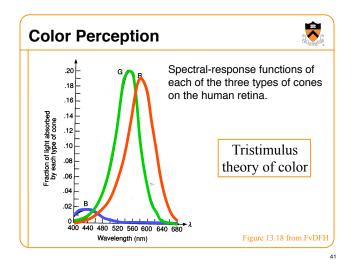


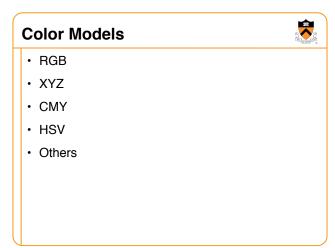


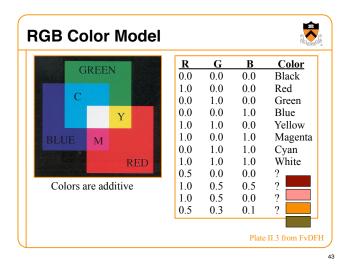


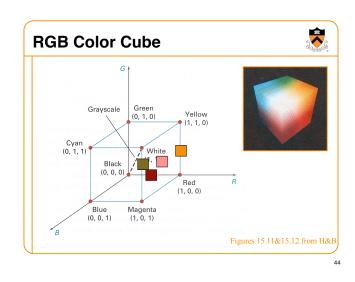


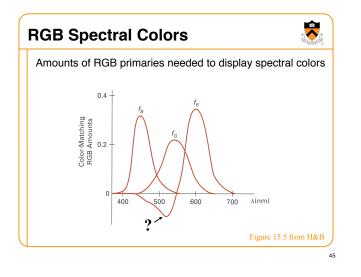


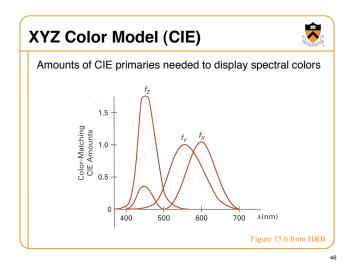


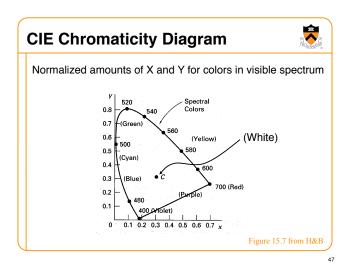


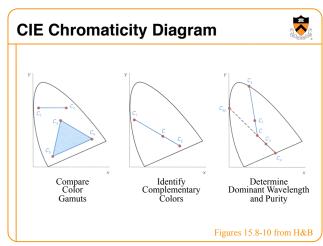


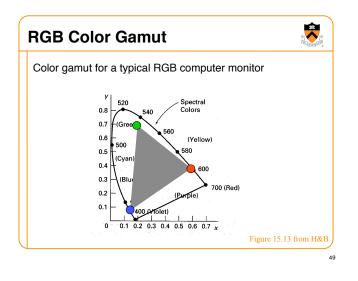












	С	М	Y	Color
YELLOW	0.0	0.0	0.0	White
C	1.0	0.0	0.0	Cyan
G	0.0	1.0	0.0	Magenta
R	0.0	0.0	1.0	Yellow
K	1.0	1.0	0.0	Blue
N B	1.0	0.0	1.0	Green
	0.0	1.0	1.0	Red
MAGENTA	1.0	1.0	1.0	Black
	0.5	0.0	0.0	2
lors are subtractive	1.0	0.5	0.5	
	1.0	0.5	0.0	

