

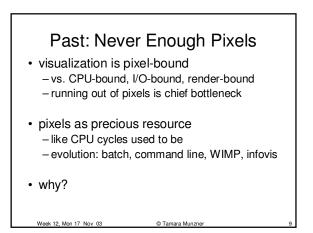


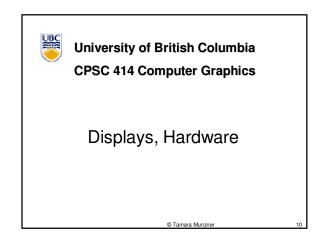
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- 533C: Information Visualization
- undergrads by consent of instructor
- · research job opportunity

Week 12, Mon 17 Nov 03

- hiring co-op student in January
- -414 experience strongly desired
- talk to me soon if interested



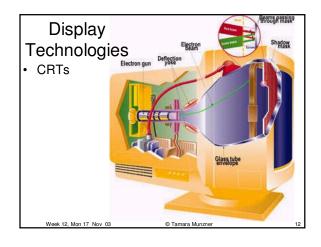


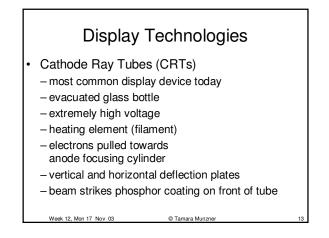
Past: No Moore's Law for Displays			
year	1984	1994	2004
size	640×480	1024x1280	1600x1200
Mpixels	.3	1.3	1.9
ML predict		(10)	(300)
CRT size, weight			

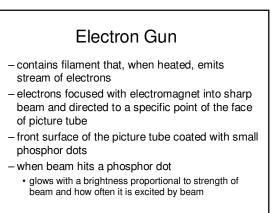
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- sits on table: keyboard, mouse

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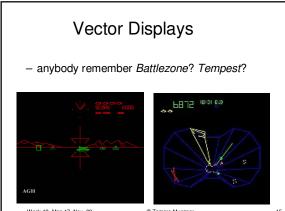




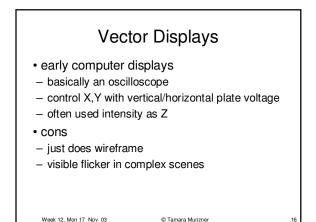


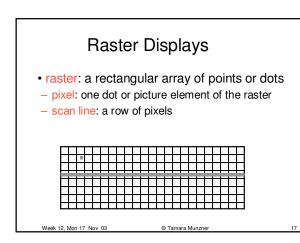
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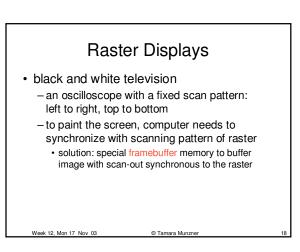
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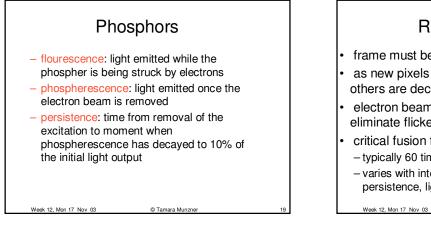


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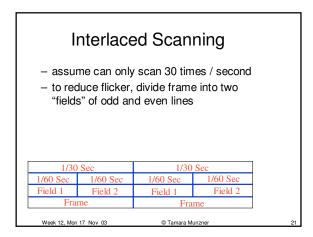


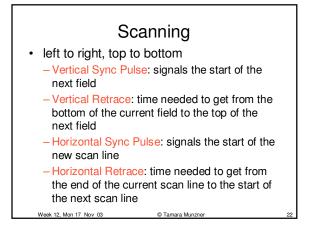


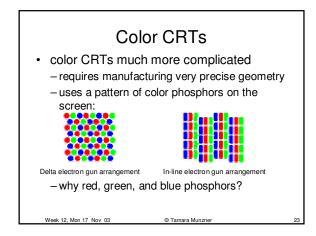
Raster Displays

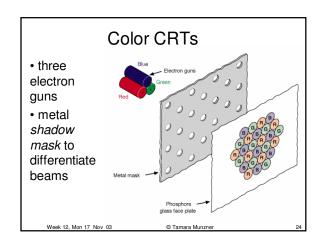
- frame must be "refreshed" to draw new images
- as new pixels are struck by electron beam, others are decaying
- electron beam must hit all pixels frequently to eliminate flicker
- critical fusion frequency
 - typically 60 times/sec
 - -varies with intensity, individuals, phosphor persistence, lighting...

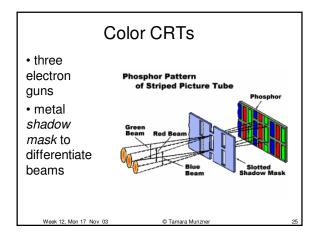
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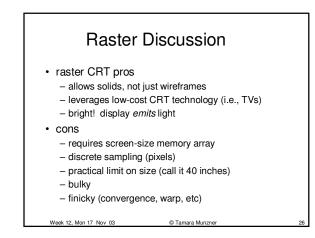


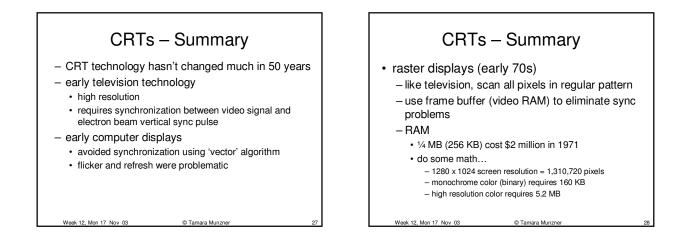


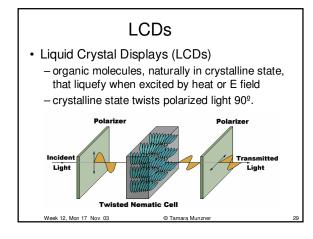


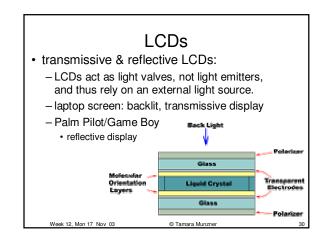


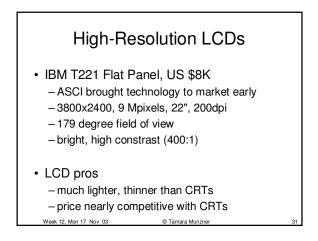


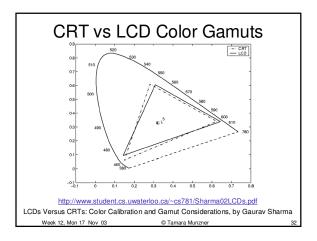


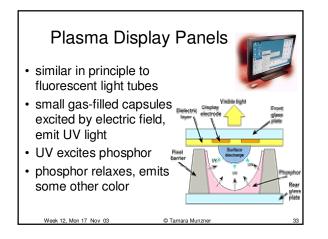


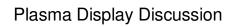












- pros
 - -large viewing angle
 - -good for large-format displays
 - fairly bright
- cons
 - expensive
 - -large pixels (~1 mm versus ~0.2 mm)
 - phosphors gradually deplete
 - -less bright than CRTs, using more power

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