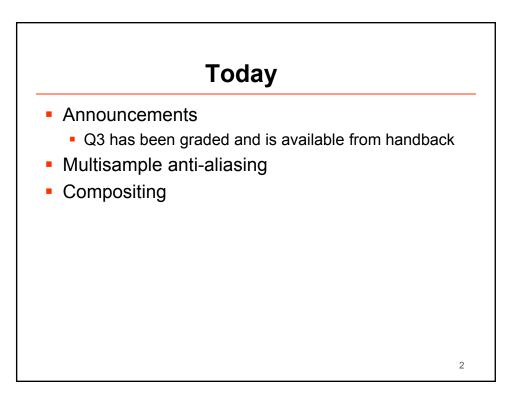
## Compositing and the alpha channel

Dinesh K. Pai

**Textbook Chapter 16** 

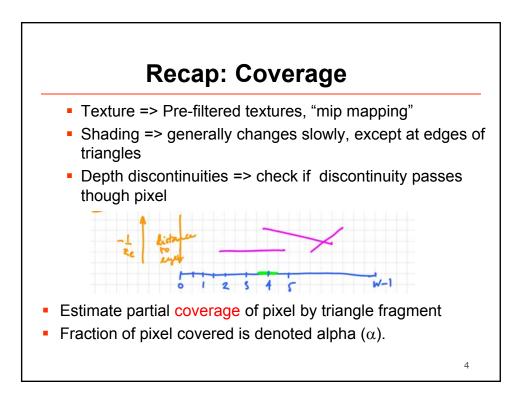
Several slides courtesy of M. Kim

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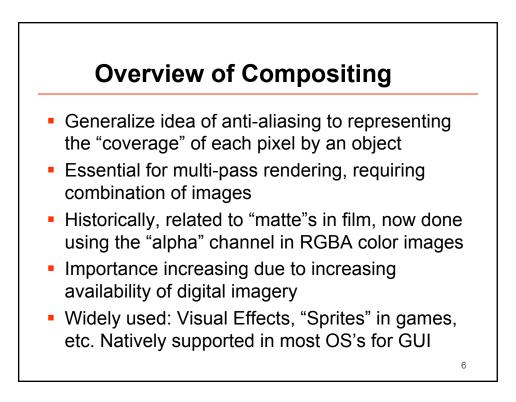
## Q3 solutions

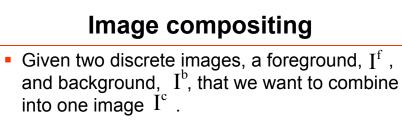
- Q1: 9,7,4,18,10,15,14,3
- Q2: T, F, T, T
- Will discuss other questions on Wednesday



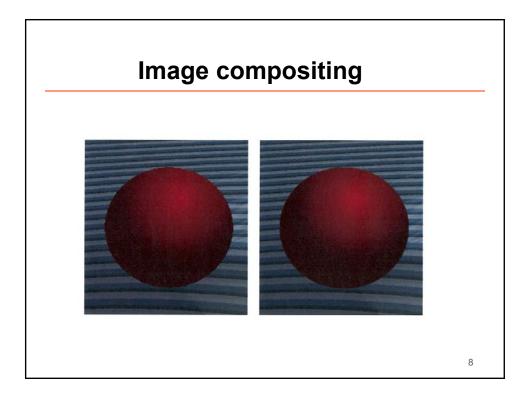


Example of demo reel http://vimeo.com/72617082





- Simple: in composite, use foreground pixels where they are defined. Else use background pixels.
- This will give us a jagged boundary.
- Real image would have "boundary" pixels with blended colors.
- But this requires using "sub-pixel" information.



## Alpha blending

Associate with each pixel in each image layer, a value, α[i][j], that describes the overall <u>opacity</u> or coverage of the image layer at that pixel.

- An alpha value of 1 represents a fully opaque/occupied pixel, while a value of 0 represents a fully transparent/empty one.
- A fractional value represents a partially transparent (partially occupied) pixel.
- Alpha will be used during compositing.

