#### **Announcements**

#### Final project presentations on Wednesday

- Each group has 10 minutes
- Place .ppt talk in artifact directory

#### Final reports due on Friday at 11:59pm

- Web page (see project4 web page)
- Does not have to be long, but should be sufficient to describe what you did, related work, results, and discussion

Evals at the end of class today

## Matting and Transparency



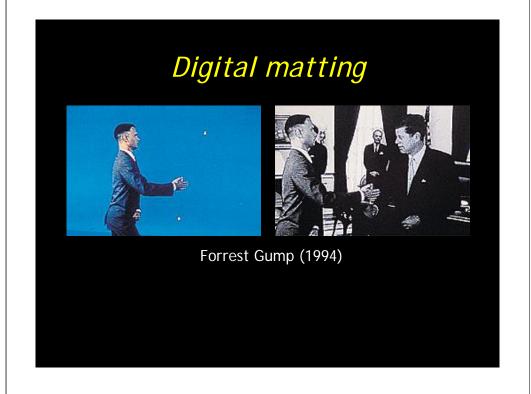
Slides adapted from Alexei Efros, Yung-Yu Chuang, and Shree Nayar

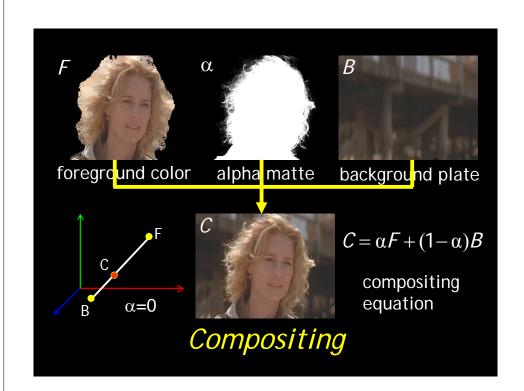
## How does Superman fly?

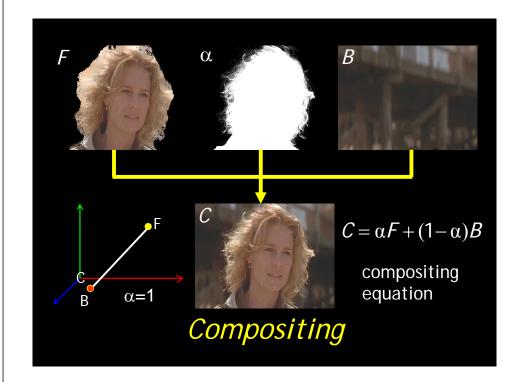


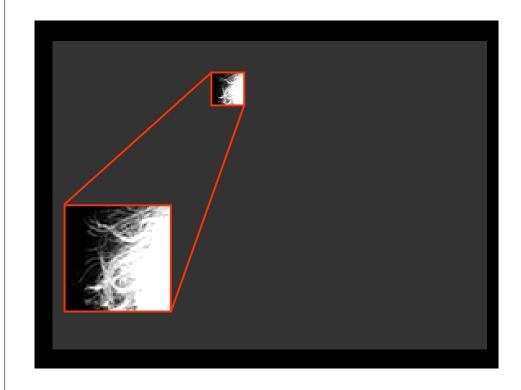


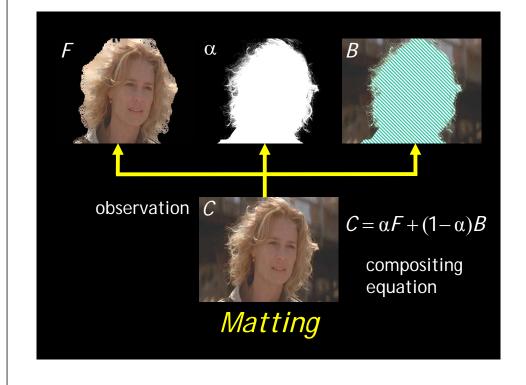
Super-human powers? OR Image Matting?

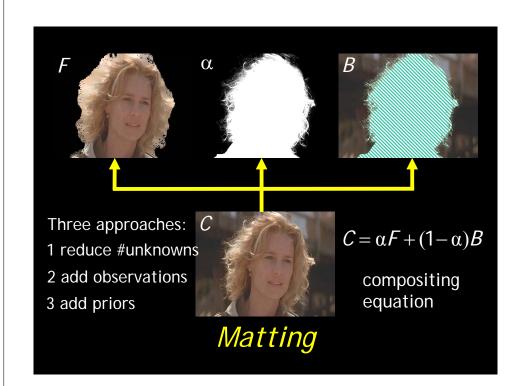


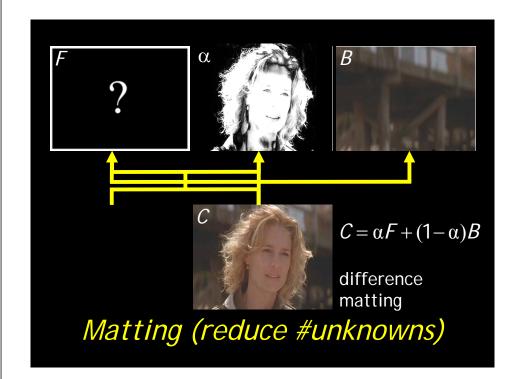


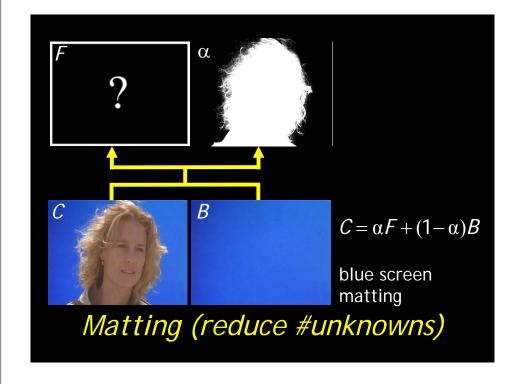




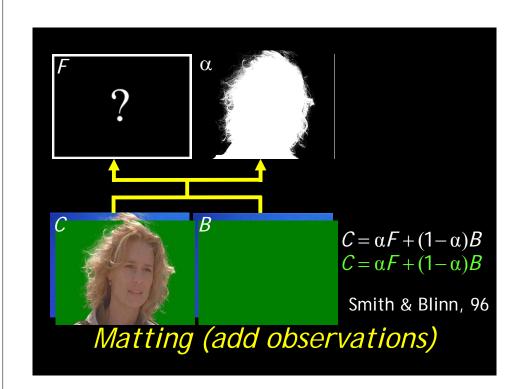


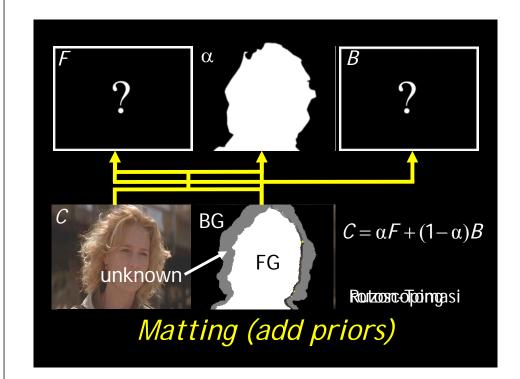






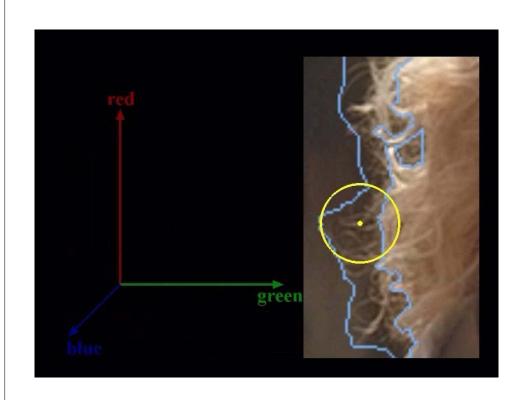


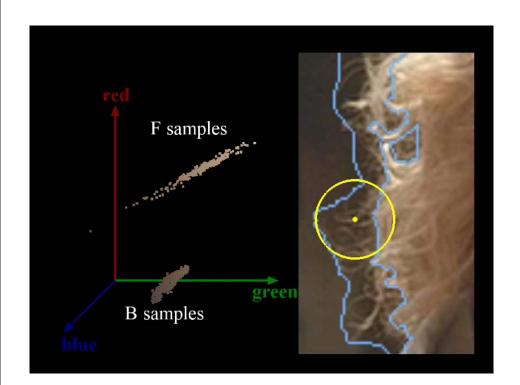


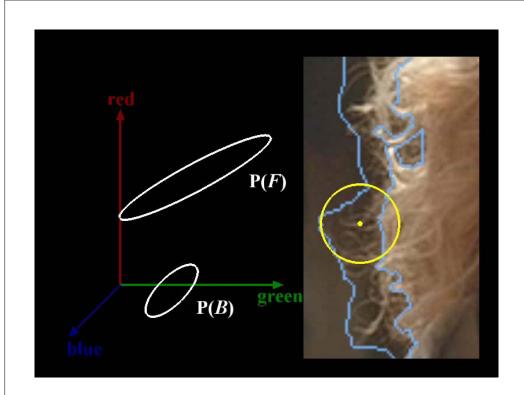


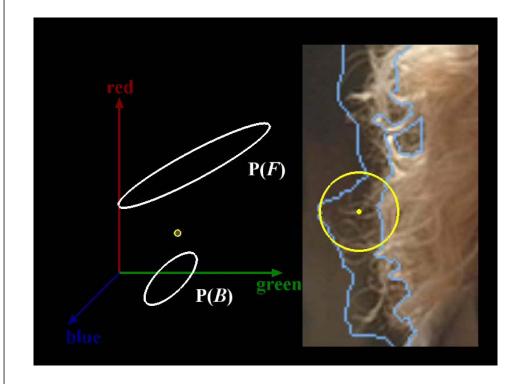


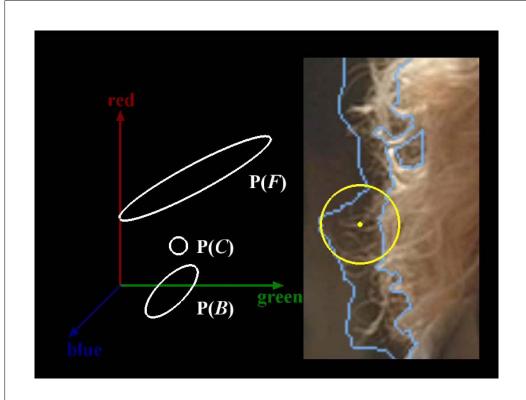


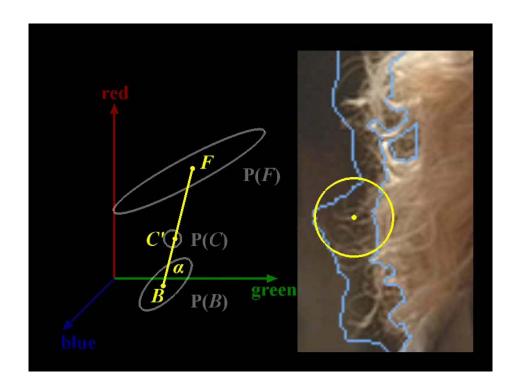


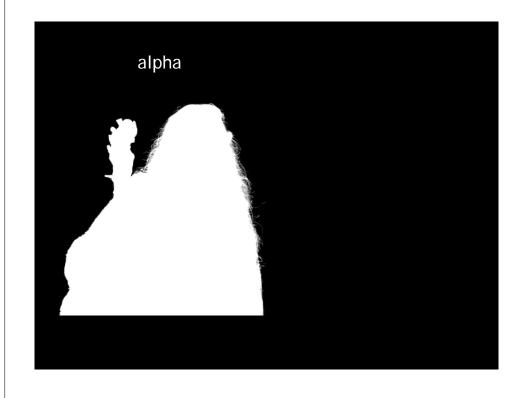


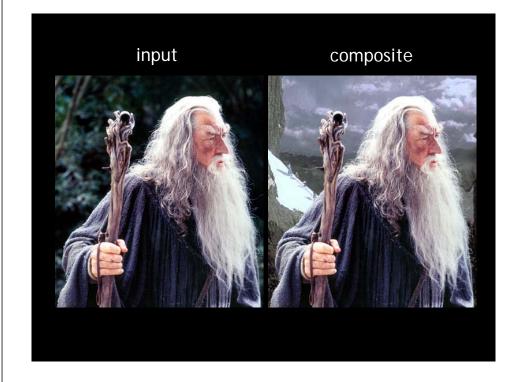












### **Environment Matting and Compositing**



Video

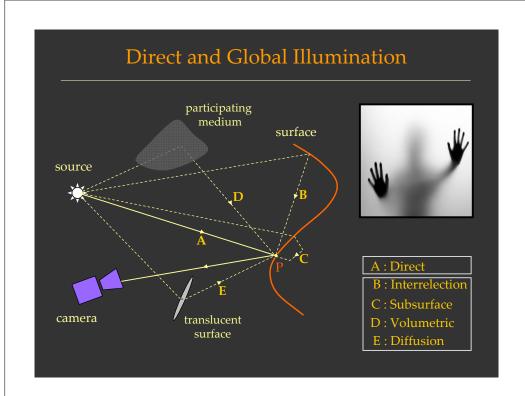
Douglas E. Zongker ~ Dawn M. Werner ~ Brian Curless ~ David H. Salesin

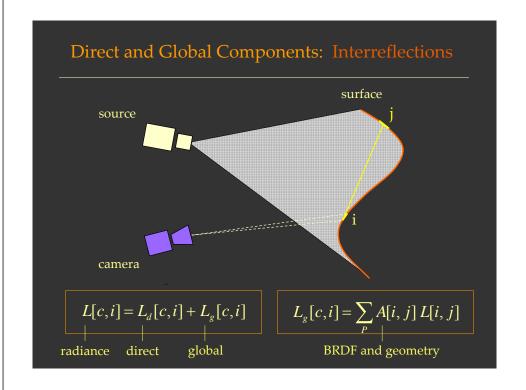
# Fast Separation of Direct and Global Images Using High Frequency Illumination

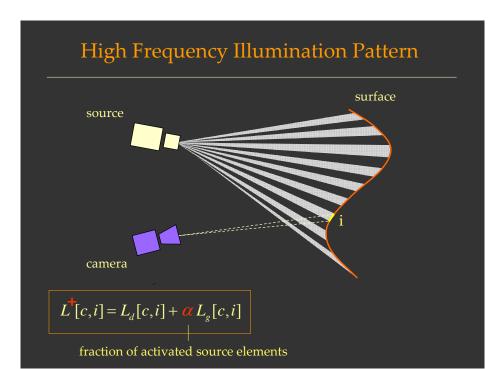
Shree K. Nayar
Gurunandan G. Krishnan
Columbia University
Michael D. Grossberg
City College of New York
Ramesh Raskar
MERL

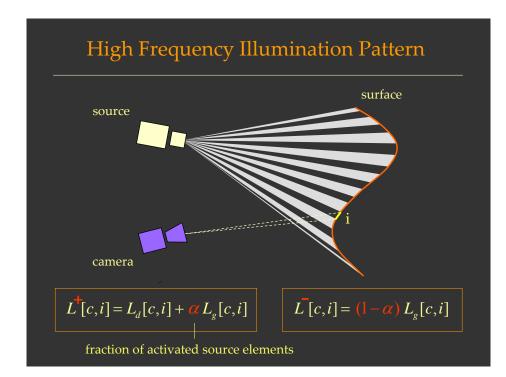
SIGGRAPH Conference Boston, July 2006

Support: ONR, NSF, MERL



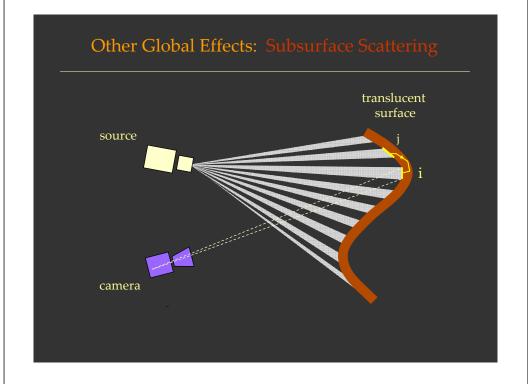


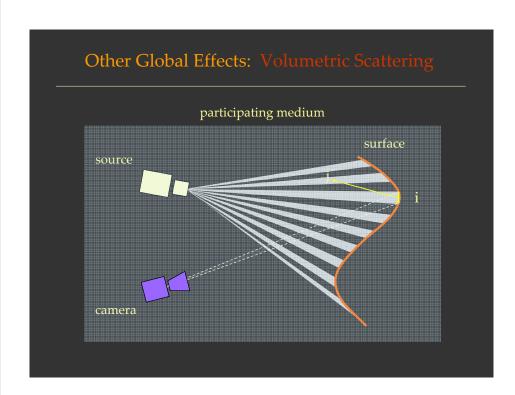


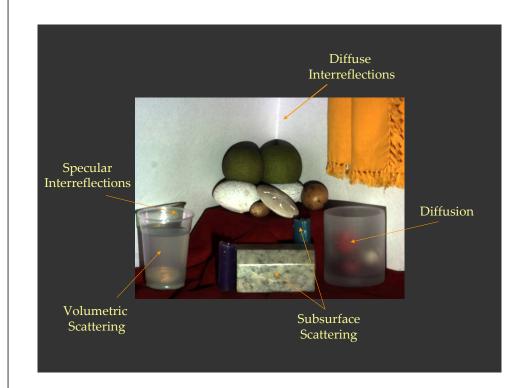




$$lpha = rac{1}{2}$$
:  $L_d = L_{\max} - L_{\min}$ ,  $L_g = 2L_{\min}$  direct global











## Real World Examples:

Can You Guess the Images?

