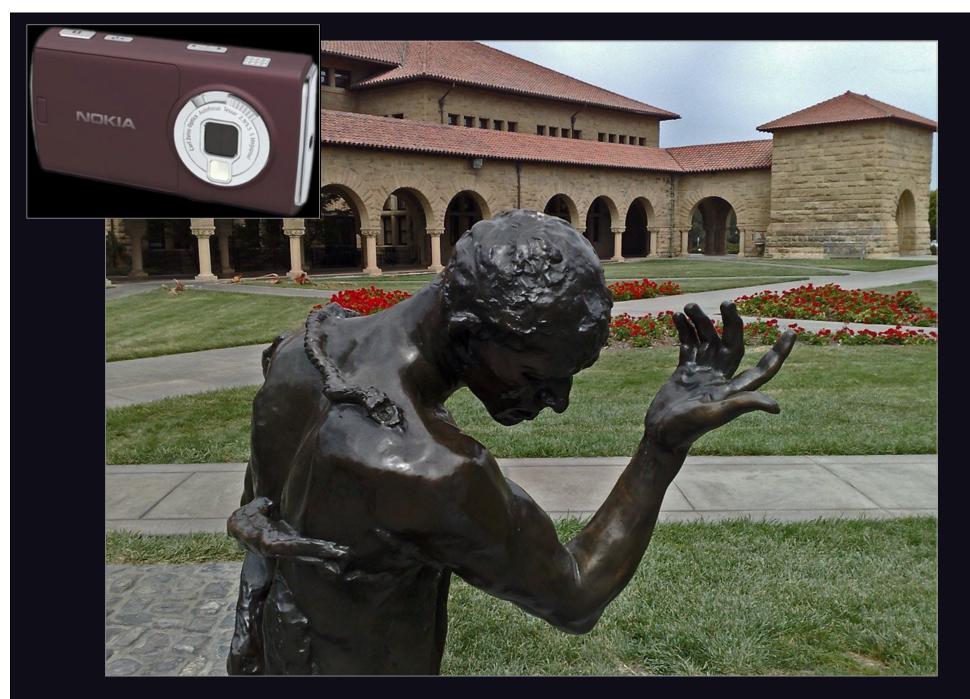
# Choosing a camera

CS 178, Spring 2011



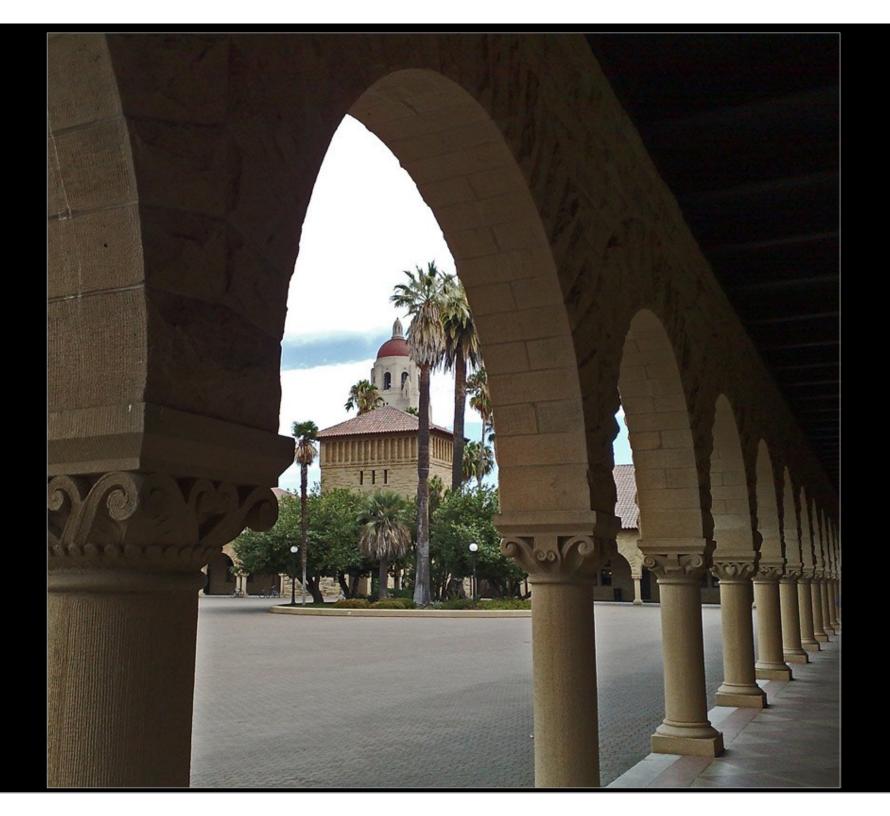
Marc Levoy
Computer Science Department
Stanford University

Having an SLR is neither necessary nor sufficient for taking good photographs.

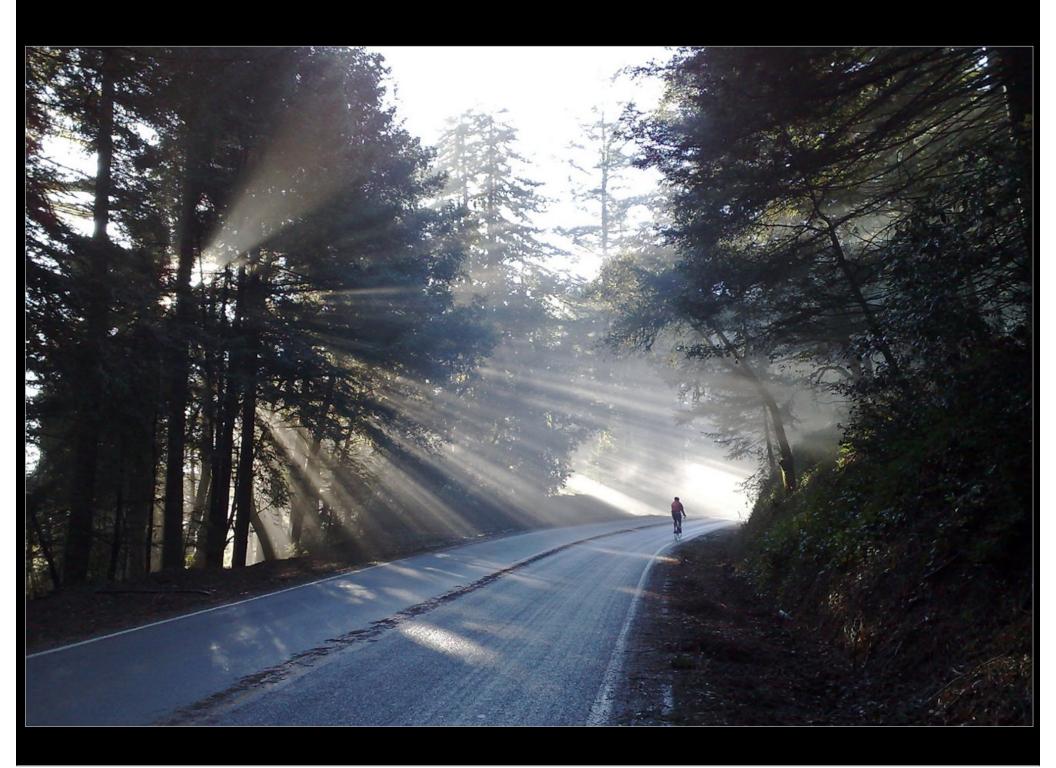


unretouched pictures from Nokia N95 (5 megapixels, Zeiss lens, auto-focus)









## Choosing a camera

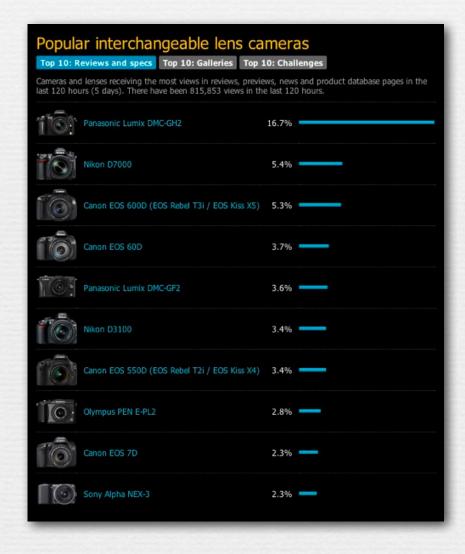
- for this course, need manual control over shutter and aperture
- if you have the money, get an SLR, not a point-and-shoot
  - larger sensor = less noise, especially in low light
  - larger aperture = more control over depth of field
- don't worry about
  - megapixels most cameras have too many
  - brand any major brand is good enough
  - body inexpensive ones are fine (and lighter)
- worry about lenses
  - variable-zooms are convenient but the quality varies
  - avoid large focal ranges (18-250mm) they're "soft"
  - maximum aperture (lowest f/stop) matters

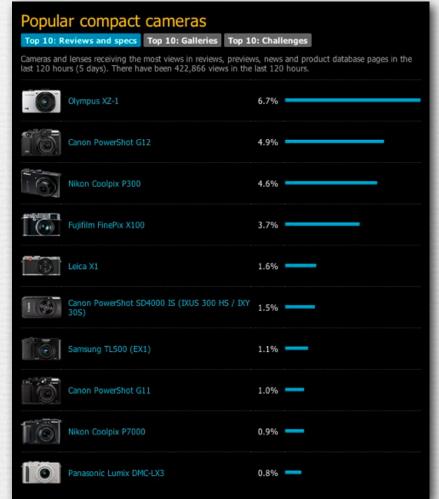
## Extra goodies

- → 50mm f/1.8 "fast" "prime" lens for low-light work
- + tripod
  - sturdy is good, but heavy to carry
  - look at mini-tripods, flexible tripods, etc.
- + flash
  - external flash aimed at ceiling takes <u>much</u> better pictures than a built-in flash aimed at the subject
- → video capability
- + count on ≥ \$500 for SLR + standard zoom + tripod
- + CS 178 loaner cameras are
  - Canon A590 point-and-shoot (takes surprisingly good pictures!)
  - Nikon D40 (or D3000) with 18-55mm f/3.5-5.6 (28-88mm equiv.)

#### Resources

http://dpreview.com





### Resources

- http://dpreview.com
- ♦ http://www.the-digital-picture.com
- ♦ http://www.steves-digicams.com
- ♦ http://www.luminous-landscape.com
- ♦ http://www.kenrockwell.com