EE16A Lab 108 Fri 11-2pm

TA: Seiya LA: Cameron, Ed, Ryan



Announcements

X Midterm: Friday 2/24 8-10pm

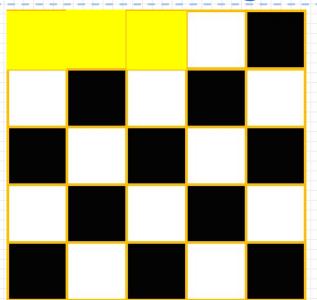
✗ Buffer Week Schedule on Piazza

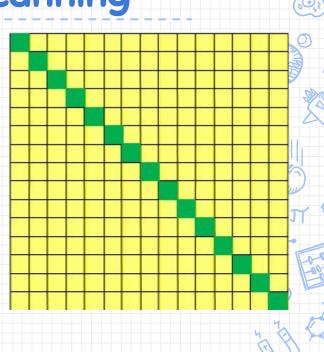
X Can make up any Imaging Lab: Parts 1-3

✗ Take Home Quiz: Part of HW4

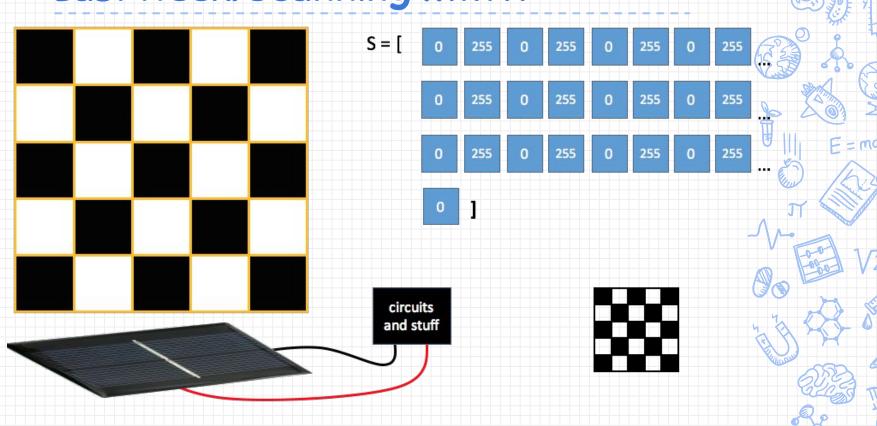
Use it to assess your current knowledge before drop deadline on Friday 2/17

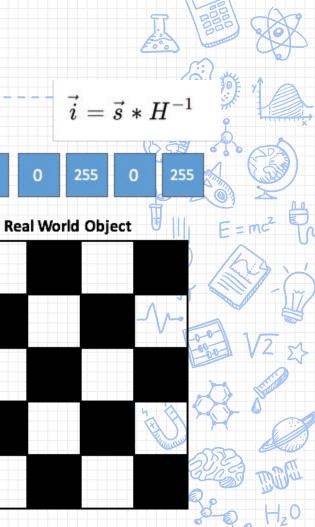
Last Week: Single-Pixel Scanning

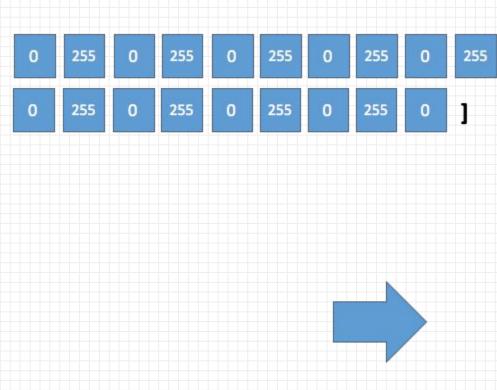




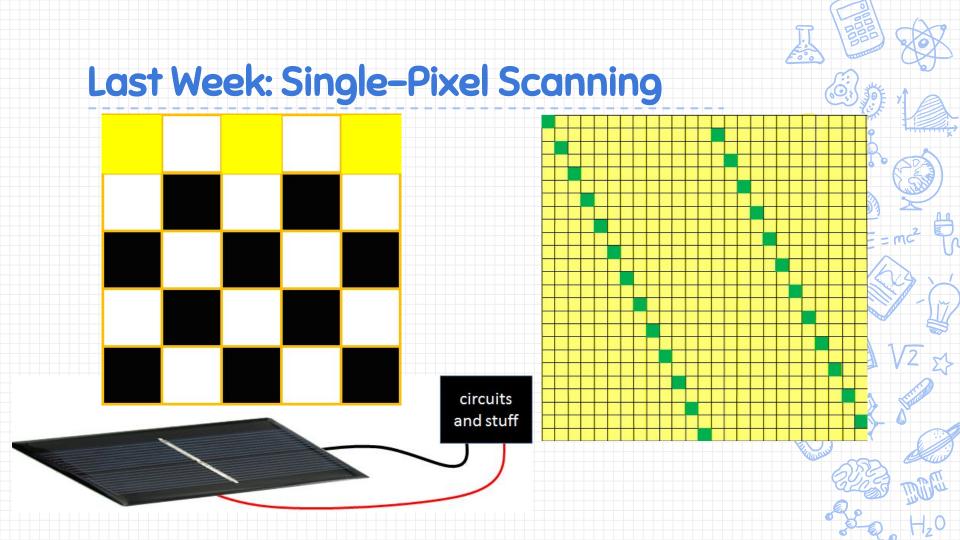
Last Week: Scanning with H



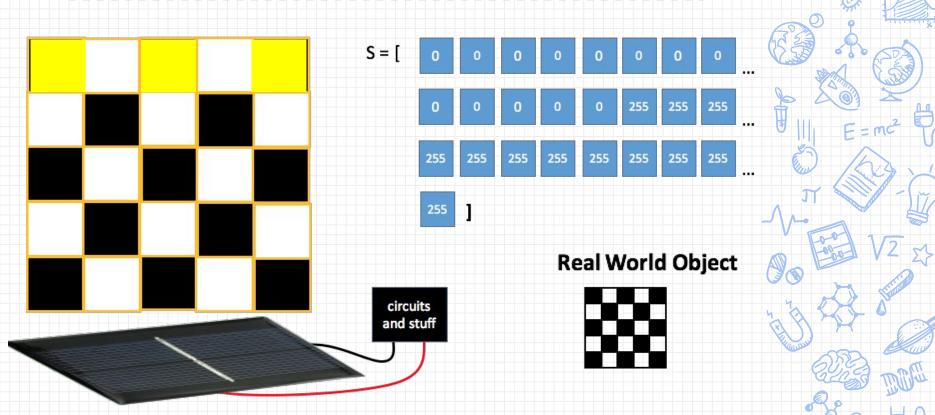


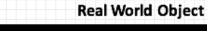


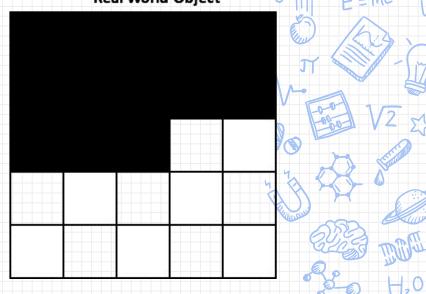
S = [



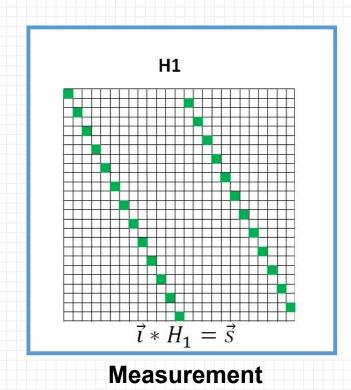
Last Week: Scanning with H1



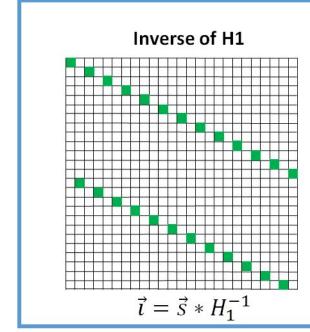




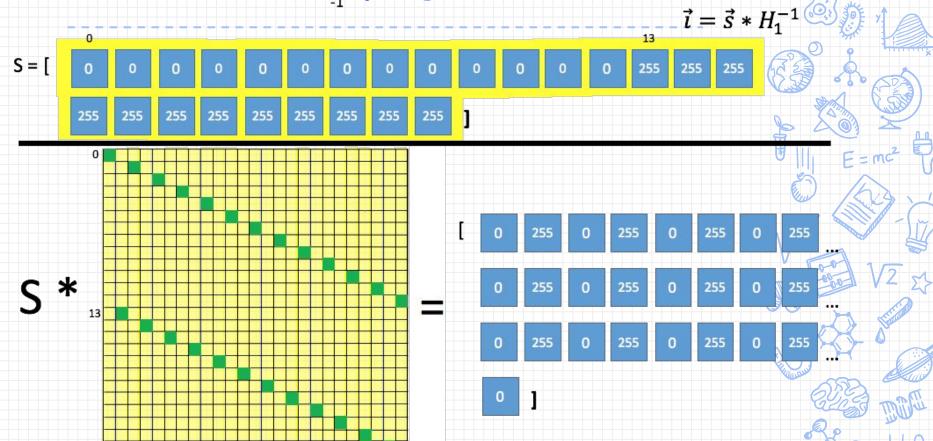
 $\vec{i} = \vec{s} * H_1^{-1}$



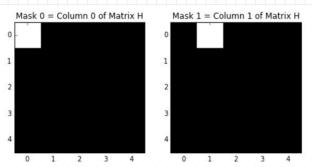


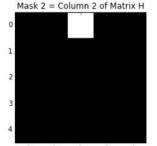


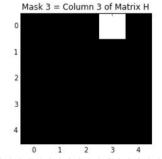
Reconstruction

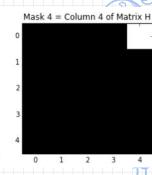


Single-Pixel Scanning









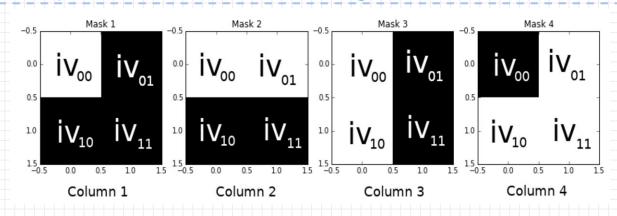


Each column of H describes one measurement

- Before, measured each pixel individually and exactly once
- The measured value is the brightness of that pixel
- What happens if we mess up on a particular measurement?



Today: Multi-Pixel Scanning



- **X** Can we measure multiple pixels at a time?
 - Measurements are now linear combinations of pixels
 - X Pros / cons?
 - ✗ How to choose H?
 - Will any H matrix work? Are some better than others?



Notes



- Can adjust projector settings
 - X Focus with dial on side
 - Brightness, contrast, sharpness
- ✗ If sensor readings are less than 100, get a new ALS
- ✗ If you aren't checked off for Imaging 2, do so today
- X Check off: lab.ee16a.com
 - X If your name does not appear, submit to: tinyurl.com/lab108-checkoff
 - * Ask Questions: tinyurl.com/lab108-Q

