





Dr Niko Suenderhauf



- Matlab Grader invites: check your spam and Clutter folder!
- Team-based assessments: assignments will come online by the end of the week
- Individual assessments: first assignment will come online by the end of the week
- Lecture Videos: next set online tomorrow morning
- Computer Labs and Tutorials started this week! On-campus, and via Zoom.



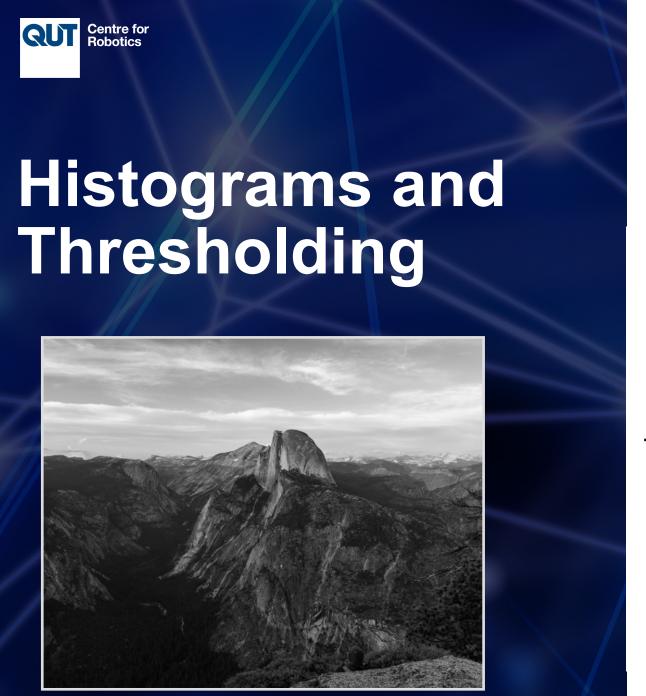
# Do not publish your assignment code on github!

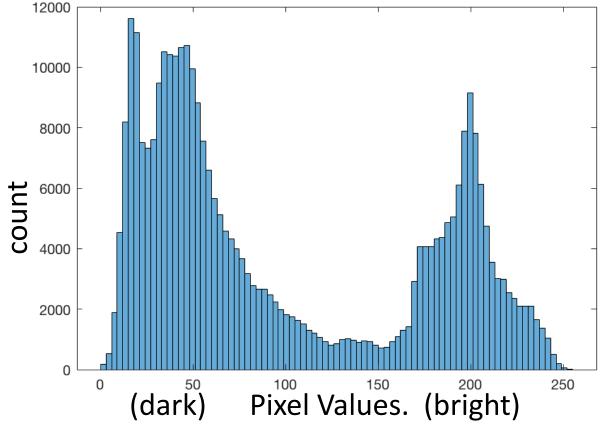
This is academic misconduct!

- Making the solutions of assignments available to other students is a form of academic misconduct.
- Do not use public repositories!
- Use private repositories instead.

- Hint: Do not use publicly available code either.
  - This would be serious misconduct.
  - It is easy for us to spot this.





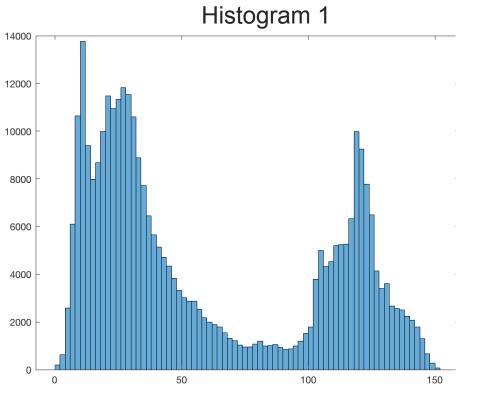


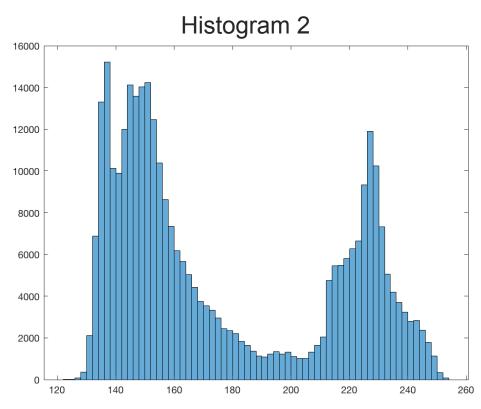


#### Quiz: Which Image Corresponds to which Histogram?

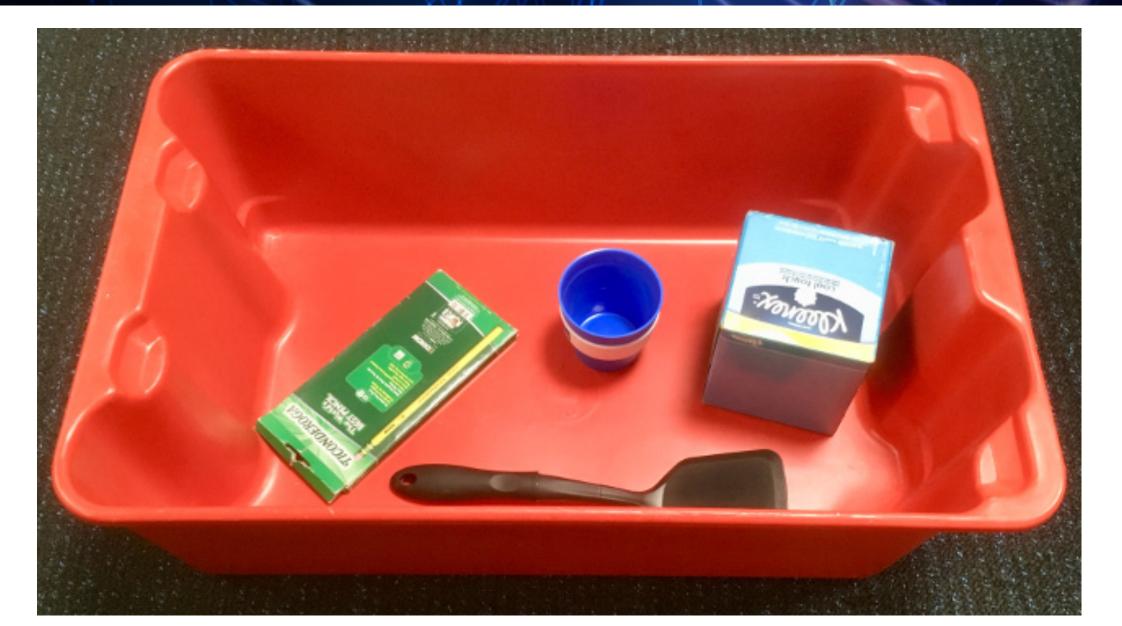














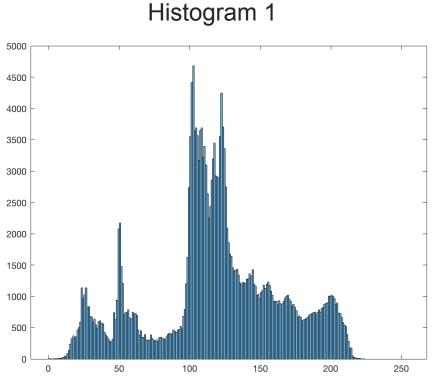
#### Quiz: Which Image Corresponds to which Histogram?

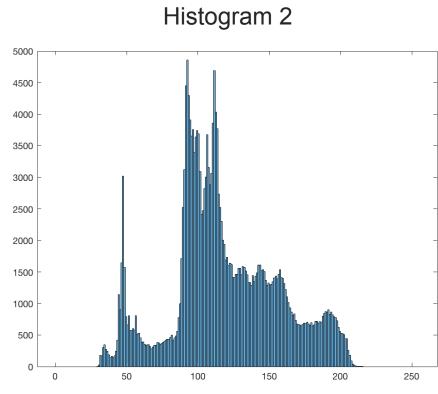
Image A



Image B





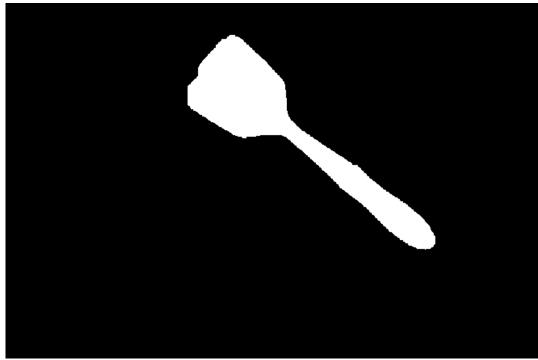










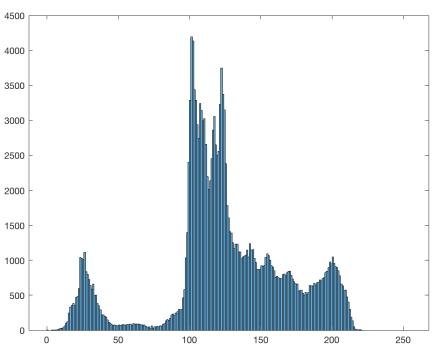




Histograms can help you choose a threshold





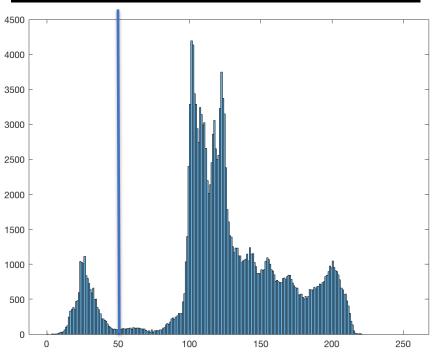




Histograms can help you choose a threshold





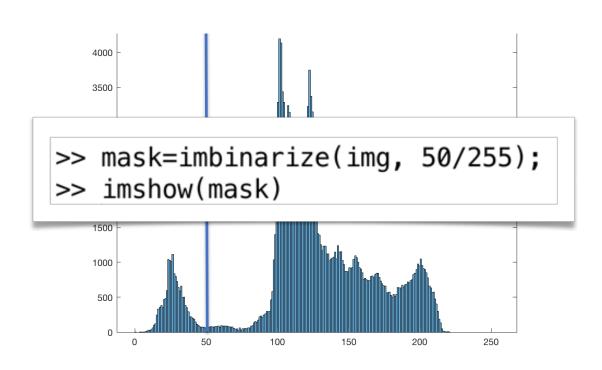




Histograms can help you choose a threshold





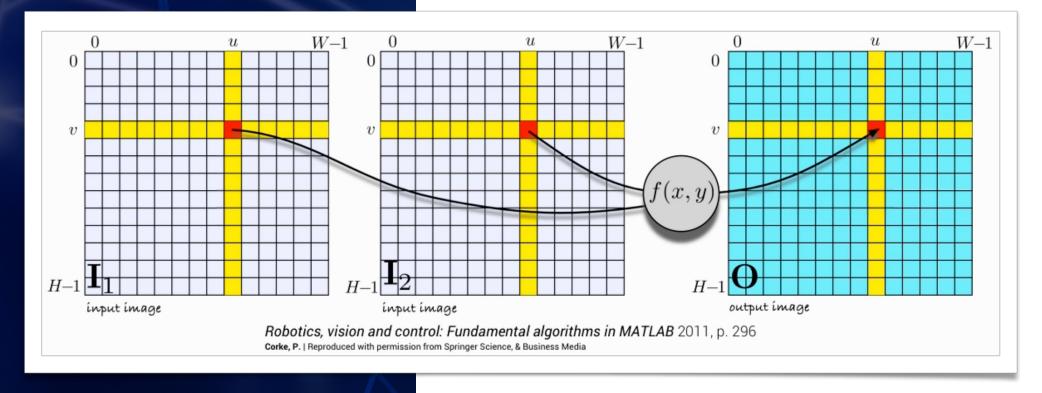






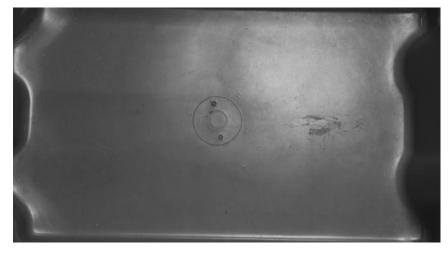
# Diadic Processing

- Each output pixel is a function of two corresponding input pixels
- Same function is applied to all pixels
- Images must be of the same size





## **Image Subtraction**









#### Quiz







```
>> img1 = imread('a.png');
```

>> img2 = imread('b.png');

% img1 and img2 are of type uint8

#### % Which method of calculating the difference between both images is correct?

```
% Option a) diff = img1 - img2;
```

% Option b) diff = abs(img1 - img2);

% Option c) diff = abs(double(img1) - double(img2));

% Option d) diff = double(img1) - double(img2);



