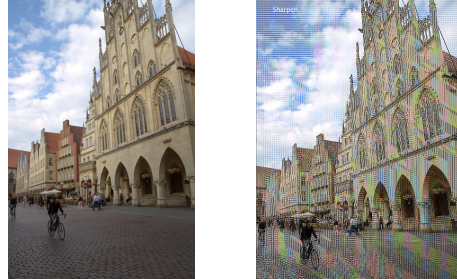


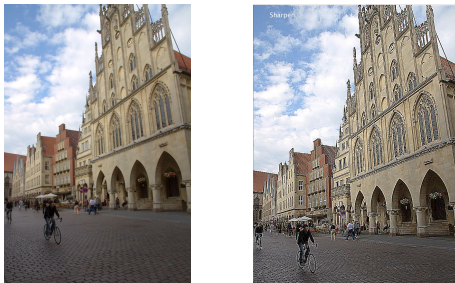
Assignment 06

- Most popular combos
 - sepia/negative/tint
 - obamicon
 - pointillism
 - sharpen/blur
- Comment your filters!
- Filter originality/creativity
- Collage arrangement
- Use an array of PImage
- Use a loop
- Use the pixel functions associated with an image, not those that apply to the entire sketch
 - img.loadPixels()
 - img.pixels[]
 - img.updatePixels()
- You need 2 PImages for convolution!

Convolution on the same source and destination



Convolution on a different destination



Exam Review

Resources

- Exam Week Office Hours
 - Me
 - Tuesday (5/3) 1pm-2pm
 - Wednesday (5/4) 1pm-2pm
 - Professor Xu
 - Monday 5/2 2pm-4pm
- Last Quiz
 - longer than usual
 - ungraded, solutions provided

Topics

- 1d array
- classes/objects
- recursion
- transformations
- 2d array
- strings
- ArrayList

Arrays

- Declaration
- Creation
- Initialization
- General iteration/access
- Functions that take and return arrays
- Arrays that store objects

Classes/Objects

- Creating/designing a class
- Constructors
 - parameters
 - initialization
- Methods
- Object creation
- Object storage in arrays
- Object manipulation with loops+arrays
- **null**

Recursion

- Understanding the recursive principal
- Base case
- Recursive call

Transformations

- translate()
- rotate()
- scale()
- pushMatrix()
- popMatrix()
- order of transformations

Strings

- Declaration
- Creation/initialization
- String methods
 - length()
 - equals()
 - indexOf()
 - substring()

2D Array

- Is an array of 1D arrays
- **arr.length**
- **arr[i].length**
- ragged 2D arrays

ArrayList

- Declaration
 - parameterized type
- Creation
- Traversal
- size()
- get(i)
- Insertion
- Removal

Odds and Ends

- When asked to write code segments, functions, etc, you do not need to write a complete program
 - no need for void setup()
 - size()
 - etc
- Perform full traces and write down intermediate values whenever possible