

Outline

Review

- Synthesis

Cool media art pieces

- Project presentations

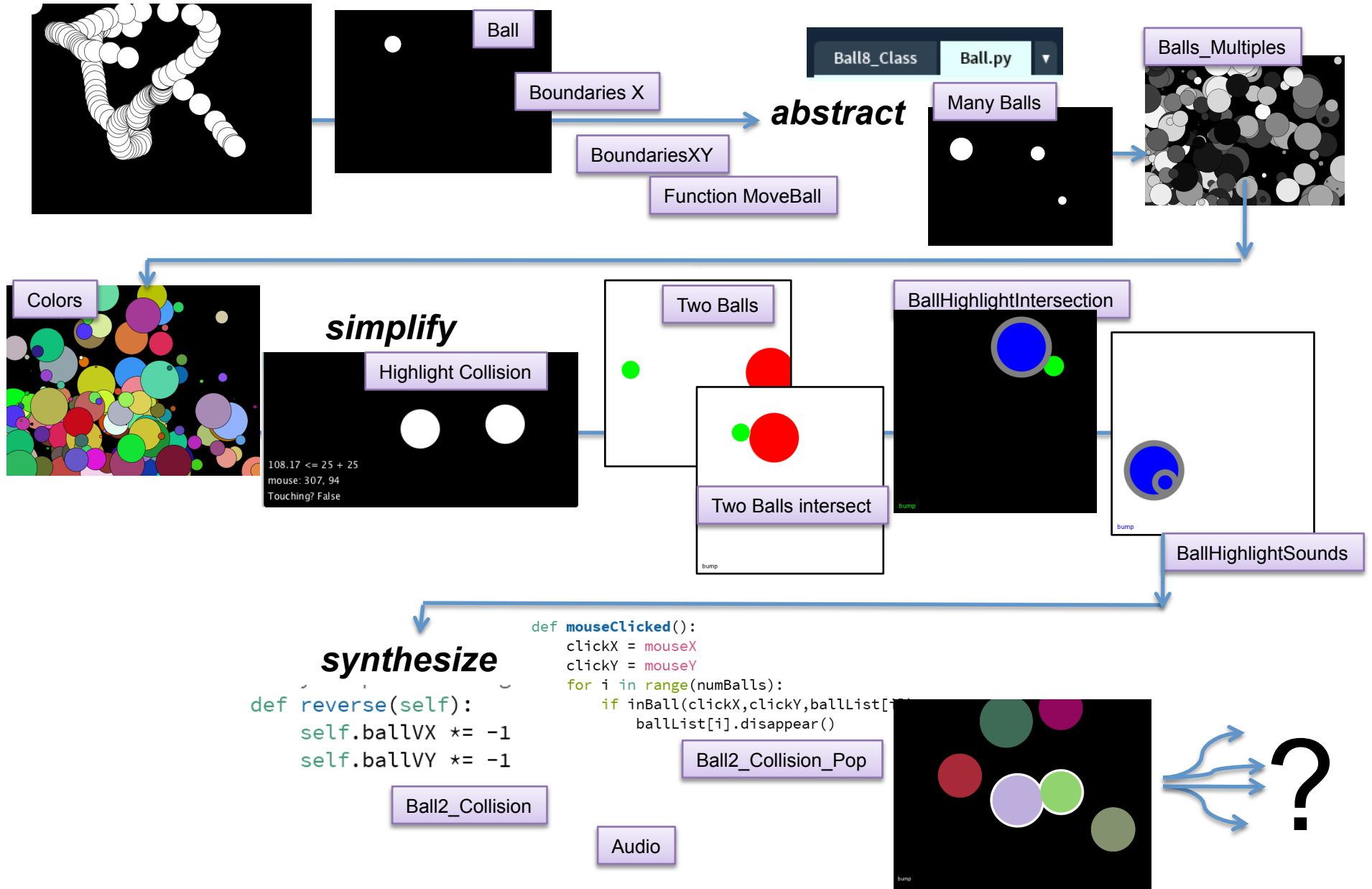
Prof. Angela Chang

Lecture 23 Video

Fall 2017 Nov 29, 2017

CODE, CULTURE, AND PRACTICE

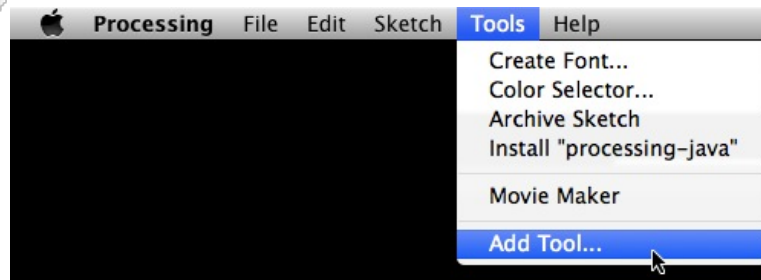
Iterative Process



Get “video” library and examples

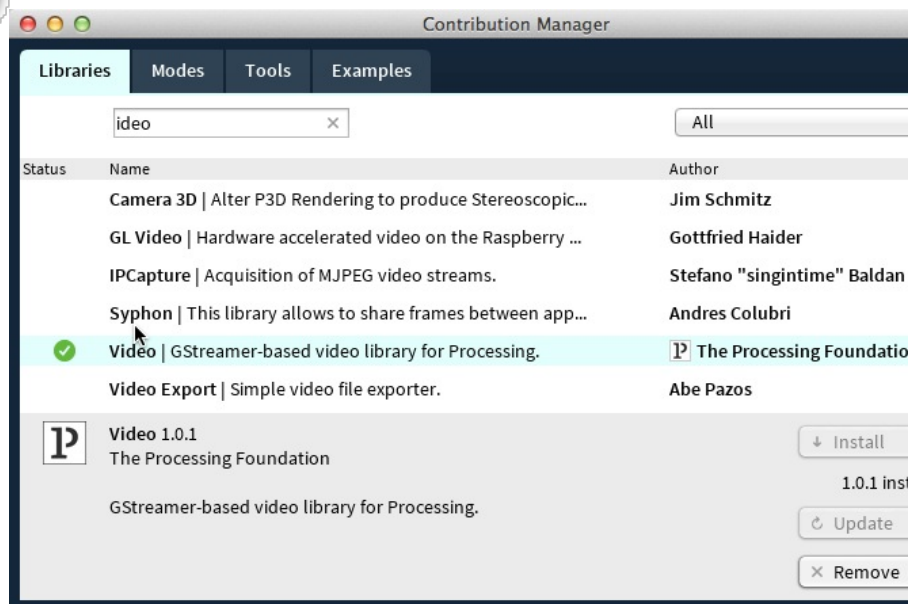
1

go to Tools->Add Tools



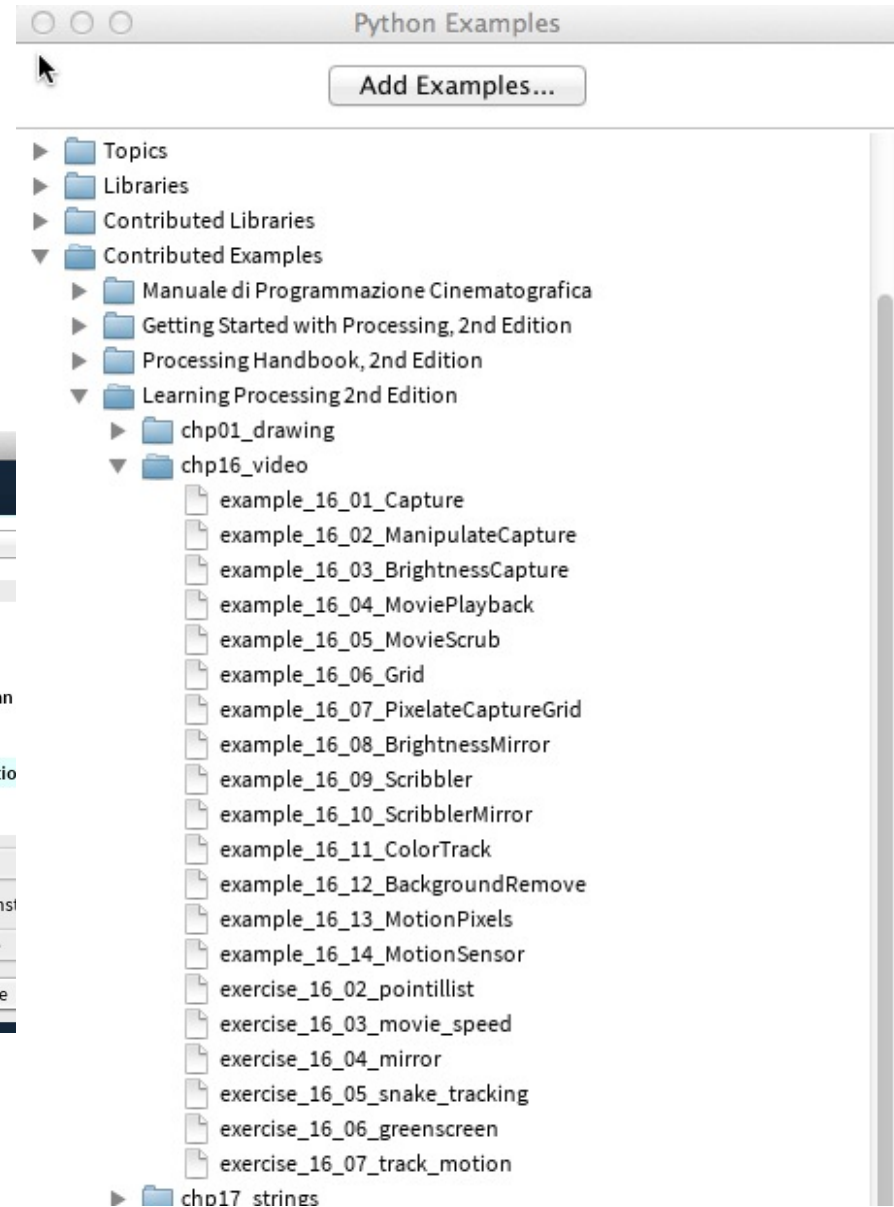
2

select Video and click Install

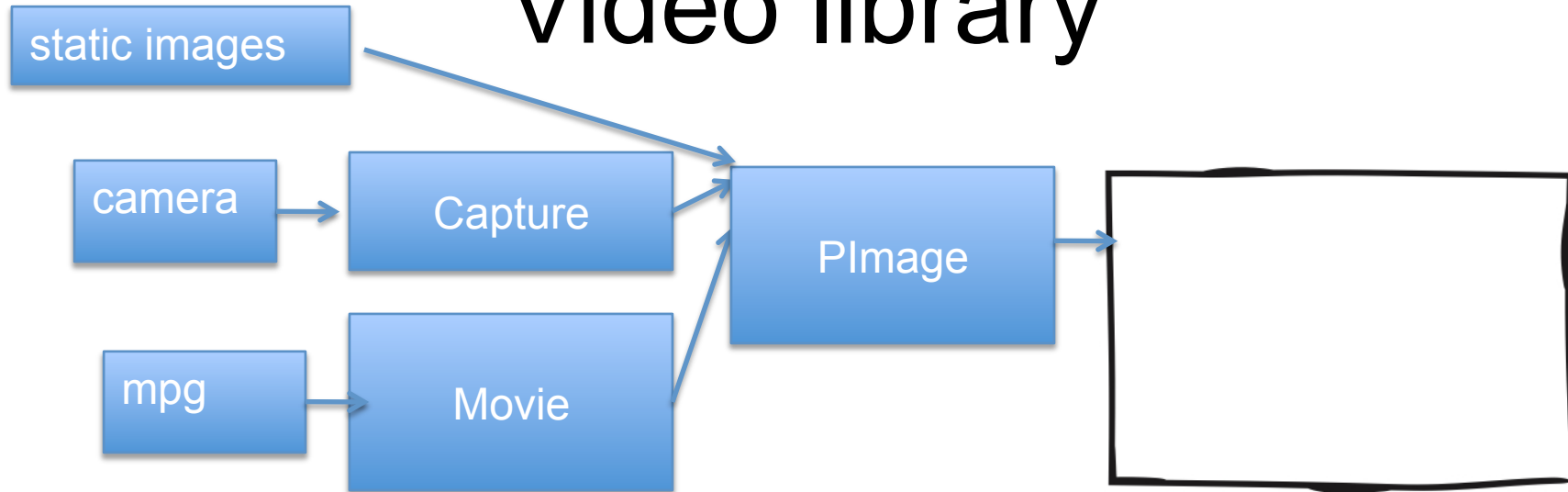


3

play with Examples in Contributed
Examples-> Learning
Processing_2nd_edition_chp16_video



Video library



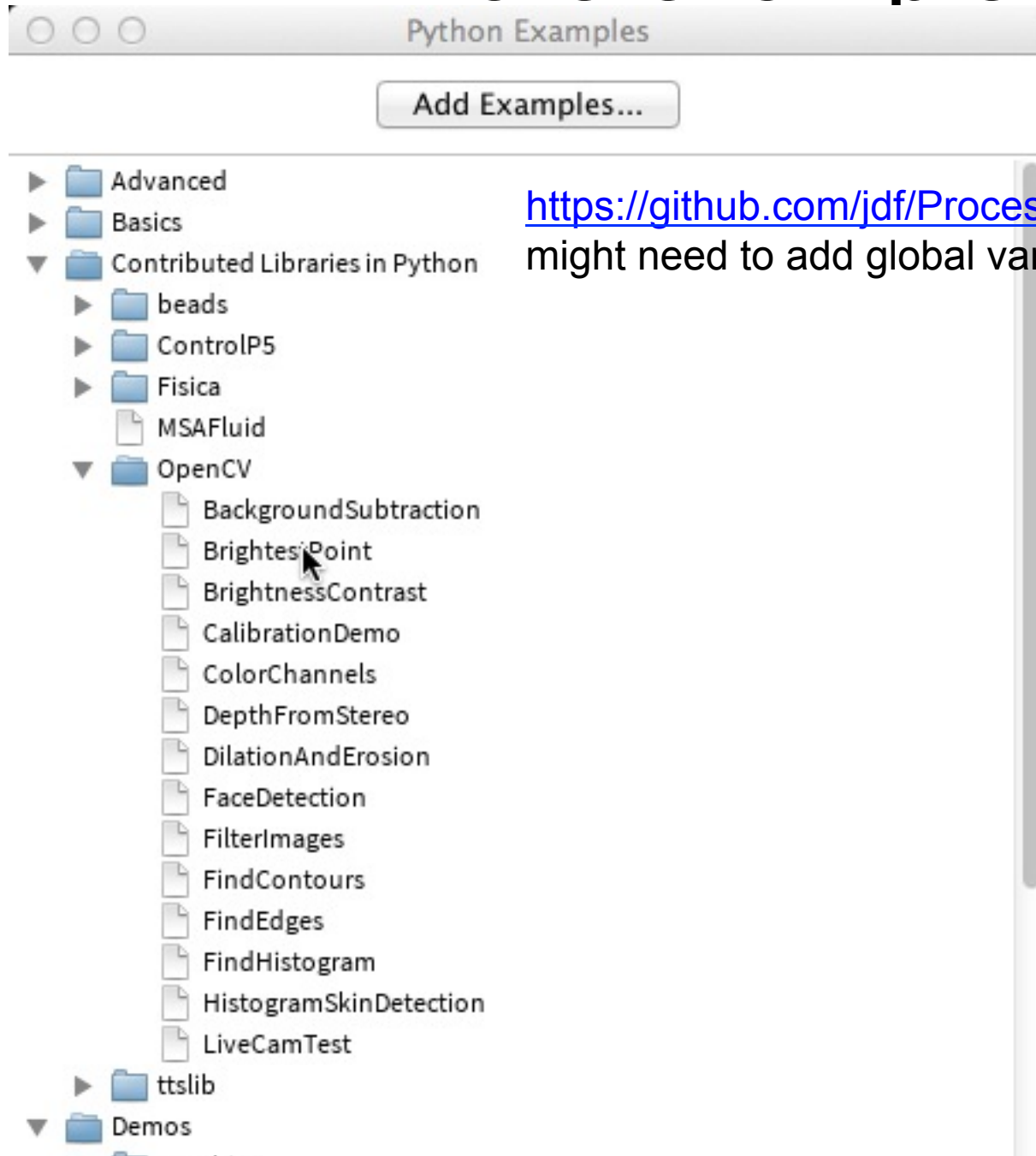
```
camera_basic
add_library('video')
#https://www.processing.org/reference/libra

def setup():
    global video
    size(320,240)
    video = Capture(this,320,240,15)
    video.start()
    background(0)

def draw():
    global video
    if (video.available()):
        video.read()
    set(0,0, video)
```

camerabasic.pyde

More examples...



<https://github.com/jdf/Processing.py-Bugs/issues/132>
might need to add global variables!

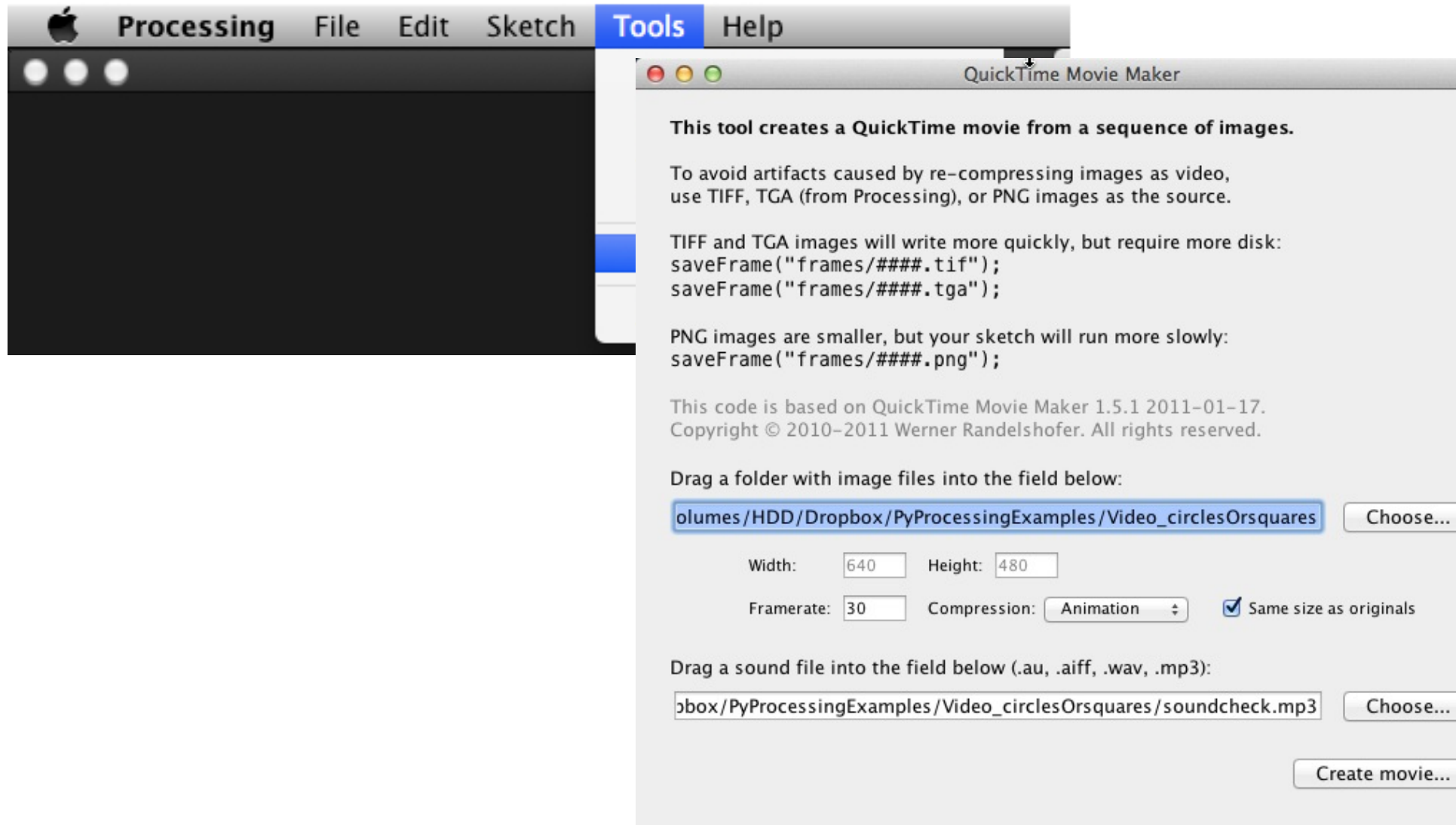
Processing (java)

- use `//` or `/*` for comments `*/`
- curly braces
- semicolons `;` after statement
- indentations not important
- uses `void` and `{ }` for function defs
- requires variables are typed at initialization

Python

- `#` or `"""` for comments `"""`
- end declarations with colon
- no semicolons after statements
- indented code blocks are subordinate
- uses `def` and `:` for function defs
- just declare the variable

MovieMaker Tool



Class Challenge

- Create a video using:
 - one of the video examples OR
 - any processing example you can find
- The video must be uploaded in .mov format

Other toys

- videogrep
- MoviePy
- --- there' are probably more!

Homework

1

Final project proposal presentations on Wednesday April 19

A. Data –

example data you have (or an idea of where you get it)
description of how you'd want to use the data (what details
would your program need to keep track of)

B. On the poster for Wednesday

-your idea (data + programming = ?) in a sentence or paragraph
-system diagram, including group members (if any), and roles

<https://canvas.emerson.edu/courses/1486048/assignments/8565190>

2

Class participation today:

Make a change in either the collision_pop or raindrop source files
from Lecture22/23

Upload your work (as a zip file) and a paragraph describing what
you wanted to do, what did/didn't work to document what you did.

+

Reminder, don't forget to tell me your reflections from the first project:

<https://canvas.emerson.edu/courses/1486048/assignments/8561800>

Summary of today

- Technical practice, modifying a game
 - upload class participation of your code
<https://canvas.emerson.edu/courses/1486048/assignments/8565156>
- The process of data visualization by Ben Fry
- HW for next Wednesday:
 - Final Project Posters
<https://canvas.emerson.edu/courses/1486048/assignments/8565190>

For Inspiration on your final projects, check out

<http://www.coolhunting.com/tag/Data%20Visualization>

<http://flowingdata.com>

<http://benfry.com>

Happy Patriots Day!