

# CSC 111:

# Intro to Computer Science through Programming

Spring 2017  
Prof. Sara Mathieson



# Admin

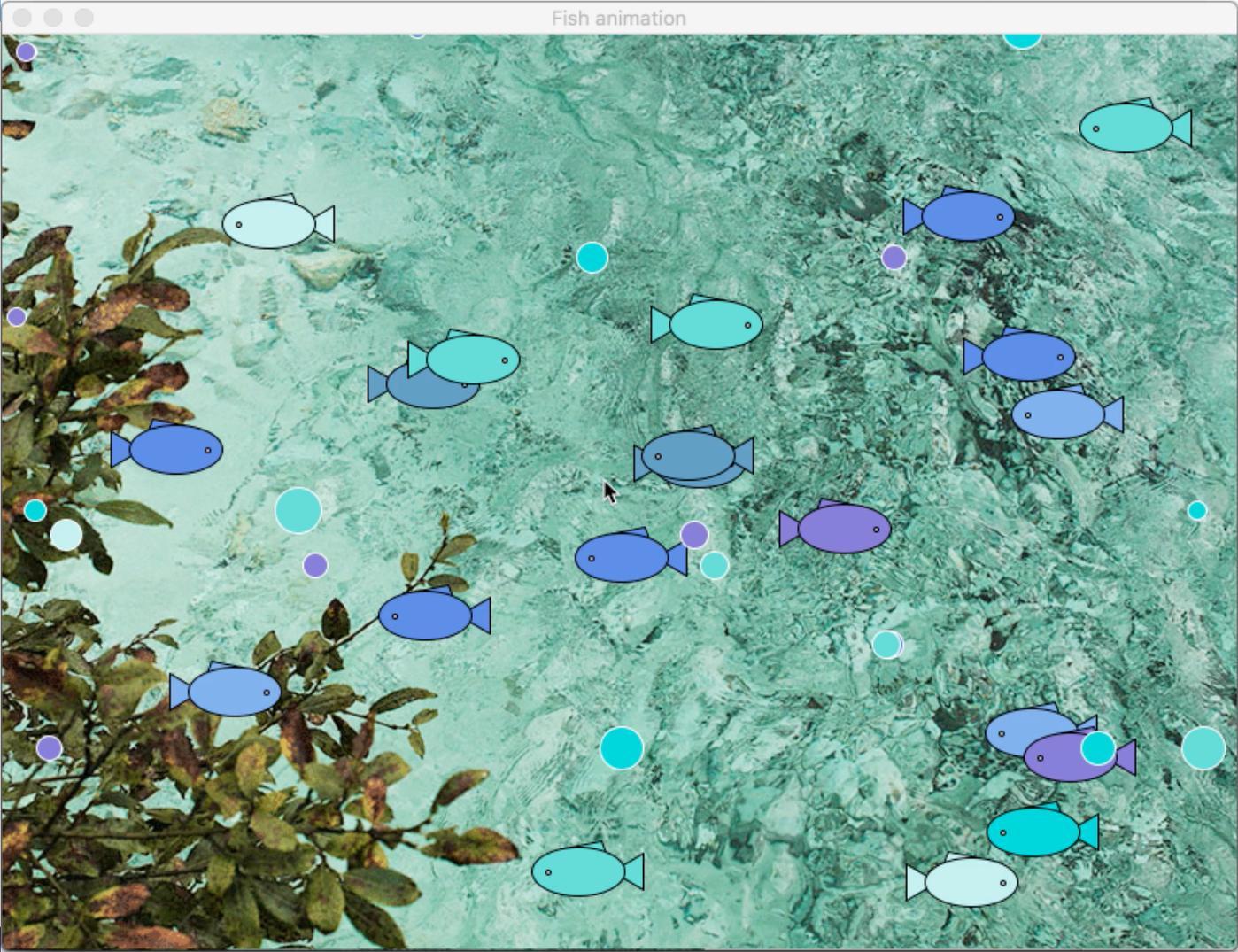
- + Lab 10 due tonight (Lab 11 is the last graded lab)
- + Final project (like 1.5 homeworks) is due May 3 (Wednesday)
- + Self-scheduled final exam (similar style to the midterm)
- + Grader feedback: code quality has jumped up!

# Outline: 4/21

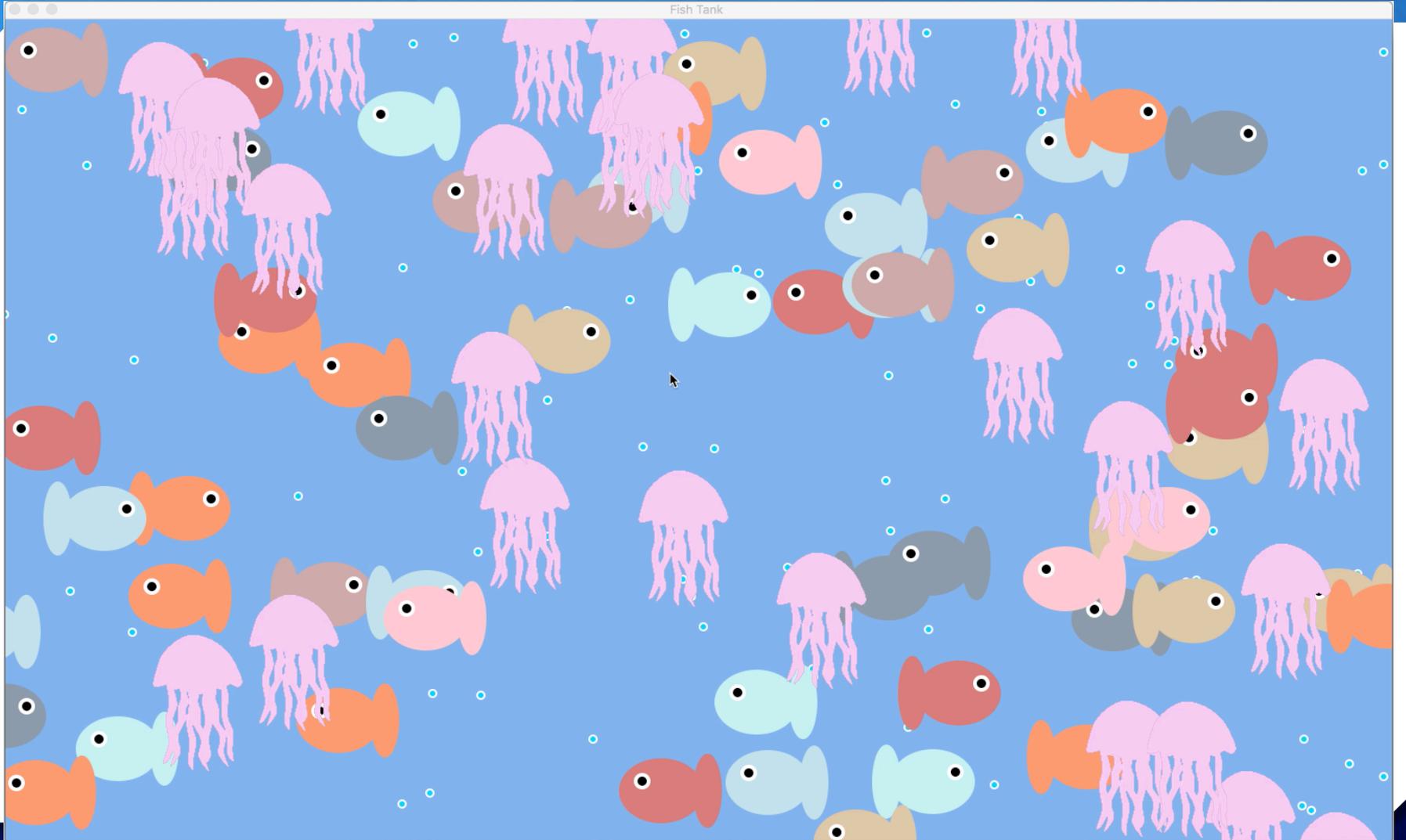
- + Homework 9 examples
- + Using **assert**
- + Printing classes with **\_\_str\_\_**
- + Simultaneous assignment and return

# Homework 9 Videos

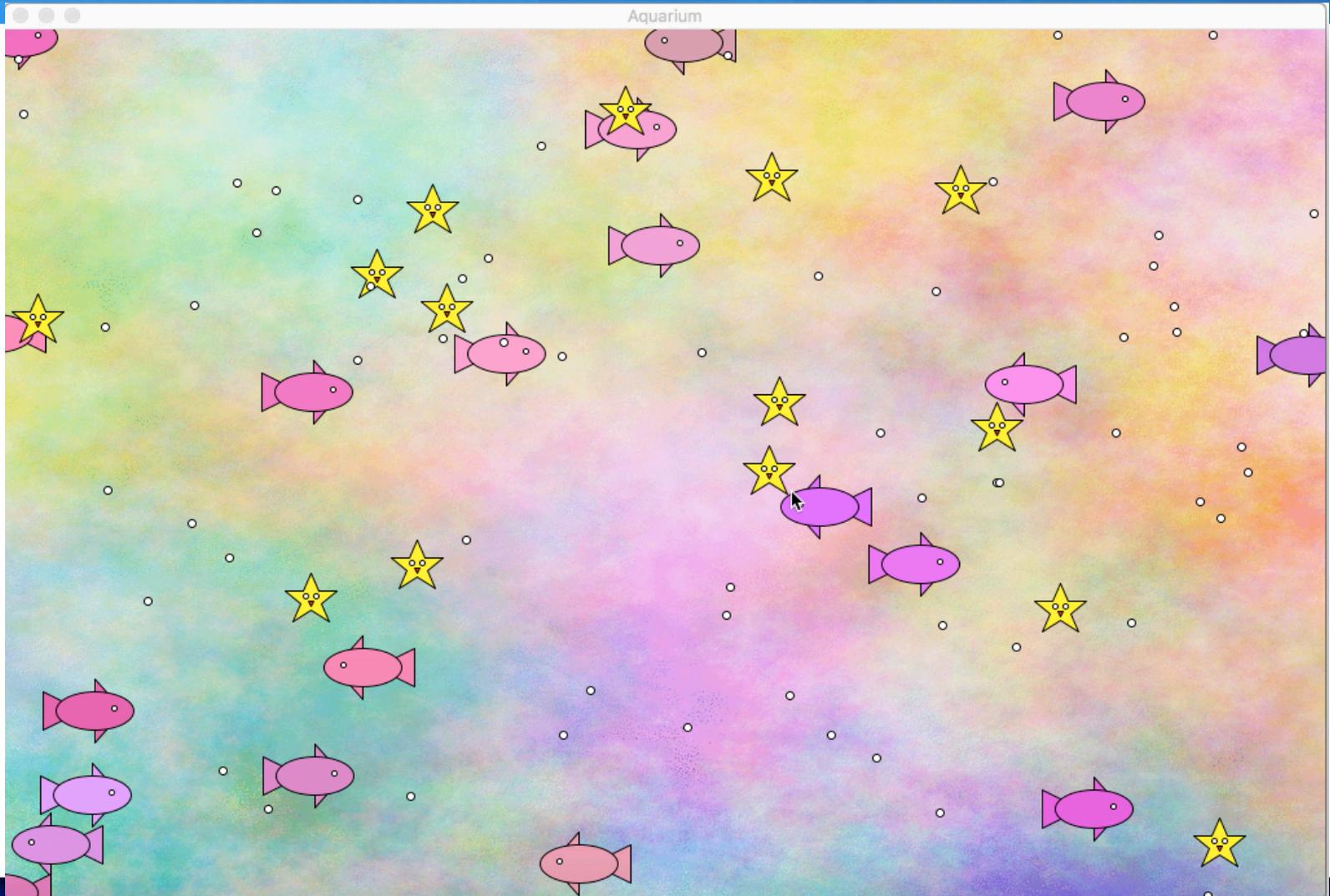
# Chloe



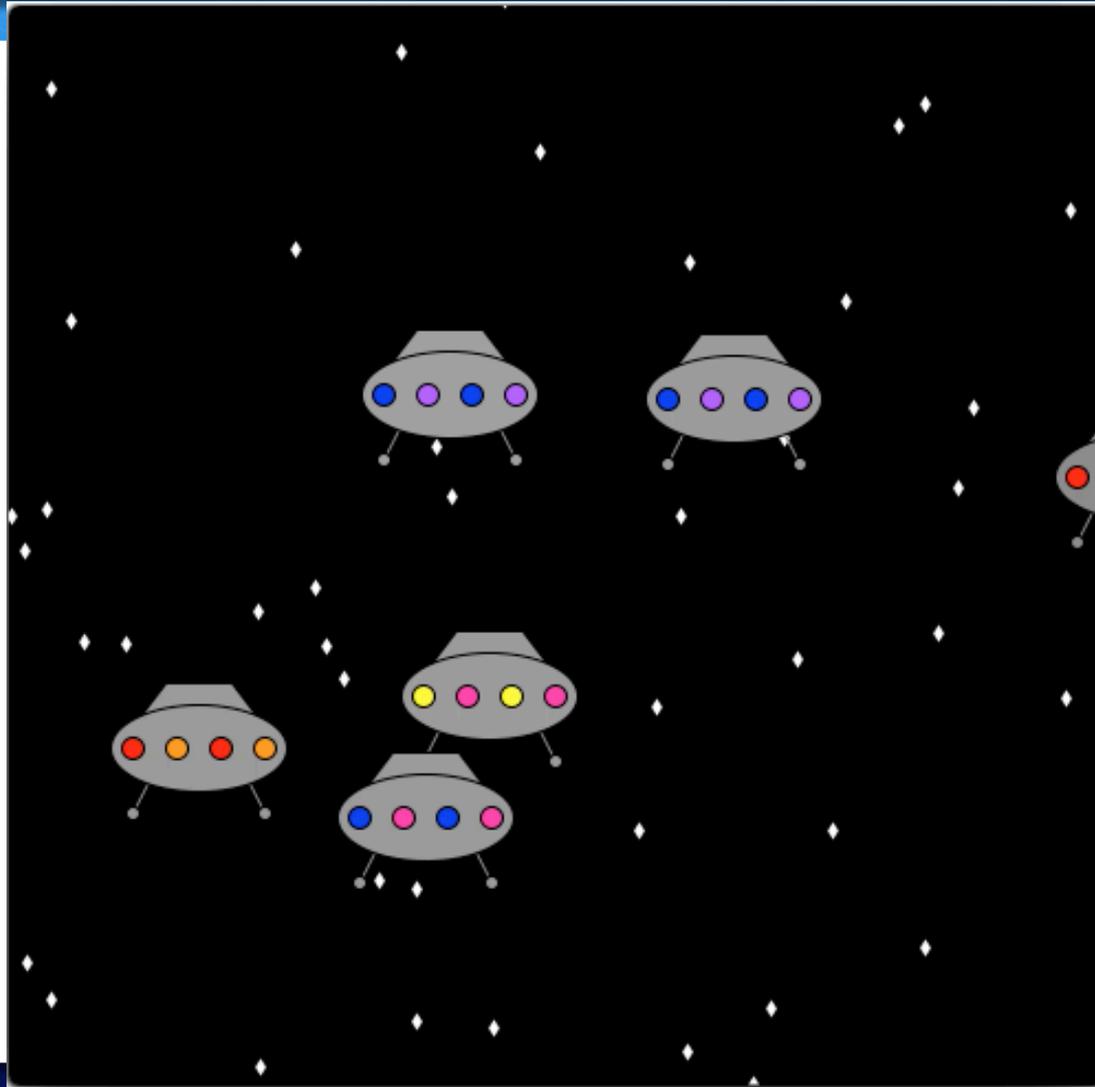
# Karen



# Mai



Sarah M.



# Tani



Assert

# Assert (keyword: **assert**)

- + Important debugging strategy
- + Also very useful for checking user input
- + The expression used with assert must evaluate to a boolean
  - **True**, assert holds, nothing happens
  - If this boolean is **False**, assert fails and throws an error

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```
>>> lst = [4,6,3,2,5,3]
>>> assert 3 in lst
>>> assert 10 in lst
Traceback (most recent call last):
  File "<pyshell#11>", line 1, in <module>
    assert 10 in lst
AssertionError
```

```
>>> user_input = "hello"
>>> assert isinstance(user_input,int)
Traceback (most recent call last):
  File "<pyshell#22>", line 1, in <module>
    assert isinstance(user_input,int)
AssertionError
>>> assert isinstance(user_input,str)
```