## Day 15 Object-Oriented Programming

Nov. 5, 2020



## Administrative

- Homework 4 is due Fri Nov 13
- **Projects** Complete the project survey by Friday! Only 18 responses so far.
- **Midterm** is being graded. Done by early next week.
- No final exam

## Pre-Class

## Questions/Issues

- I'm confused about classes and instances and what the differences are
- When are we creating/using attributes versus methods?
- Why/when do we need to use Object-Oriented Programming?

We will be doing some more OOP on Tuesday and we will start using it in models after that.

Out[16]: 0

```
In [17]:
            class Point(object):
               def init__(self, x=0, y=0):
                    self.x coord = x
                    self.y coord = y
               def translate(self, x=0, y=0):
                     self.x coord += x
                    self.y coord += y
               def print point(self):
                    print("({:d},{:d})".format(self.x coord, self.y coord))
In [21]:
            my point = Point()
            my point.print_point()
            my point.translate(-1,2)
            my point.print point()
            my point.translate(1,-2)
            my point.print point()
            (0,0)
             (-1, 2)
```

(0,0)

Questions, Comments, Concerns?