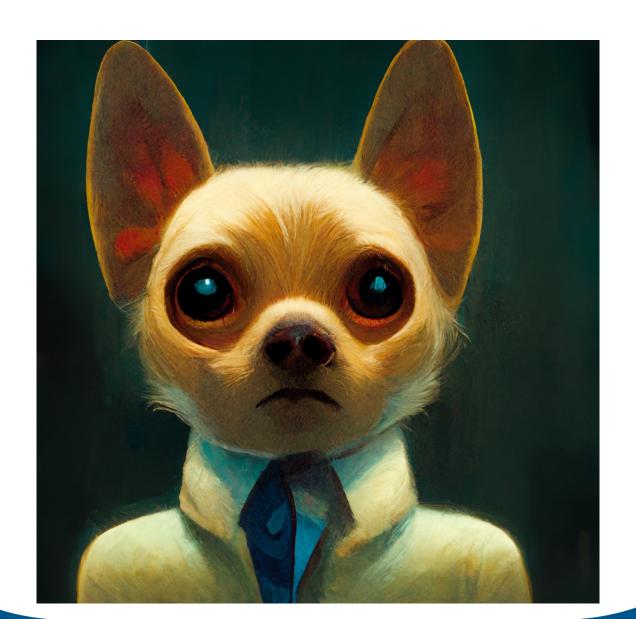
CS210 Discussion

Week 6



Attendance





Today

- Exercise hints
- Finish through exercise 3
 - Show us passing Gradescope tests to leave early



Exercise Hints

- Casting to a Die object Die otherDie = ((Die) other);
- Die toString method should print 3 rows of 5 characters, each separated by a newline

```
• i.e 5 = "* *\n * \n* *";
```

- 0 = "Not rolled yet";
- Remember, you can access the instance variables of another object (so long as they're accessible)

```
public double distanceTo(Location other) {
double otherLat = other.lat;
```

• Great circle distance for Location.java

```
d = 6359.83\arccos(\sin(x_1)\sin(x_2) + \cos(x_1)\cos(x_2)\cos(y_1 - y_2)).
```

• Euclidean distance for Point3D.java

•
$$\sqrt{(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2}$$

- Remember you can use existing compare methods
 - Double.compare(); "some-string".compareTo();

