Meet a classmate: ask
“Do you like vanilla or chocolate ice cream sandwiches more?”
Rampup and Python preparation

- Materials posted on rampup page
- Come to office hours this week!
  (Jaisie’s doing some extra ones too)
Prep for Lab 1

Go to a Teaching Lab (BA2200/3175/3185/3195), and

1. Use your Tcard to open the door.
2. Login to a Teaching Lab computer. Check your email for your Teaching Lab account.
Python Memory Model
>>> x = [1, 2, 3]
>>> z = x
>>> z[0] = -999
Aliasing + Mutation = DANGER ZONE
Worksheet: draw lots of diagrams!
How to make the most out of worksheets

Engage in class; don’t blindly type in code
Talk to a partner!
**Continue working after class**
Check your work with a partner or during office hours (or computer, if possible)
Meet a classmate: ask
“What colour is the dress?”
Labs

• Start tomorrow.

• Lab rooms are posted on syllabus.

• Bring pencil and paper for your lab activities.

• Before your first lab, go to a lab room in person and try logging in.
Lab Policies

• You must attend at your registered time and assigned room.

• To earn credit for a lab you must:
  – Arrive by 20 minutes past the hour
  – Put in a good effort
  – Complete the quiz activity at the end of the lab

• You will usually “pair program”
  – Two active roles: “driver” and “navigator”.
  – Switch roles every 10-15 minutes.

• Read the Labs webpage for more.
Worksheet: draw lots of diagrams!
Functions
def mess_about(n: int, s: str) -> None:
    message = s * n
    print(message)
    s = message

if __name__ == '__main__':
    count = 13
    word = 'nonsense'
    mess_about(count, word)
frame: data about a function call
call stack: collection of stack frames
Function parameters are aliases for argument data
Functions can mutate inputs

```python
def mutator(x):
    x[0] = 100

>>> lst = [1, 2, 3]
>>> mutator(lst)
>>> lst
```

```console
[100, 2, 3]
```
Default is non-mutation. Mutation in functions must be explicitly described.