Meeting 23: Objects

Today

- Compiling Objects
- Midterm (go over it - time)

Compiling Classes

```python
x = 3
class C:
    print x  # 3
    x = 5
    print x  # 5
    print C.x  # 5

x = 0
class C:
    if input():
        x = 3
        y = x
    print C.y  # 3
    print C.x  # x  # 3

input = 0  # 0
input = 1  # 1
[ x = 3 ]
[ y = 8 ]
```
Computing Classes - function attributes

```python
class C:
    def f(args):
        body

x = 0
class C:
    x = 1
    def f():
        return x

print(f(x))
```

Computing Objects

```python
o = C()

class C:
    def foo():
        ...

(C if input() else foo)()
```
Liveness
while cond:
  body

Liveness
if cond:
  body_1
else
  body_2