

# Lecture 2: Objects, classes, methods (<http://courses.cs.cornell.edu/cs2110/2019su>)

## Announcements:

- Discussions
- Project 1
- Reading / Java basics

## Today:

- kinds of variables, where they live (stack, heap)
- using the debugger
- start building a "real" class

```

class Demo {
  int x;
  String y;
  void f() {

```

```

    int x;
    x = 2; // prim. types
    String s = "hello";
    Demo d = new Demo();
    g();
    g();
    // print x
  }

```

local vars

```

void g() {
  int x = 3;
  int d = 4;
  // y
}

```

```

static Demo z;

```

Stack

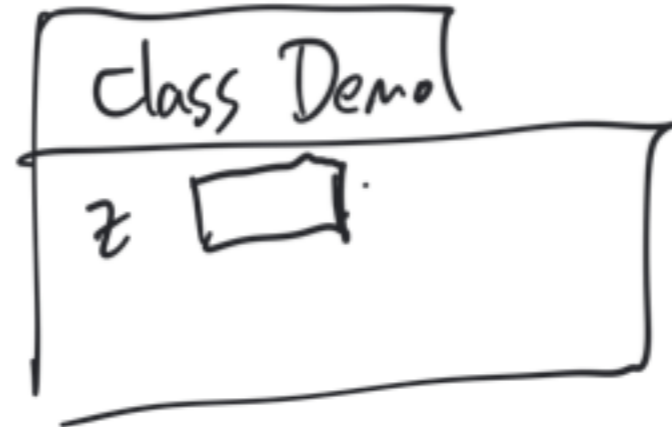


Heap



many Demo objects.

Static area



there's only one "Demo" class,

}