Coming Up

- Sunday @ 10:Week 3 Exercise due
- Monday: Catch-up day -- more boolean and if examples
 - No office hours from 4-5
- Tuesday: Assignment I due
- Wednesday: string formatting
- Friday: while loops
- Friday Tutorial: Assignment | Quiz

Any burning questions before we start?

if statements

• Simplest form:

```
if expression:
  body
```

- How it's executed:
 - I. Evaluate the expression.
 - 2. If the result is **True** then execute the body.
 - 3. If the result is False, skip the body.

• Example:

```
if temperature < 0:
    print "Brrr, it's freezing!"</pre>
```

- The *expression* must be a boolean expression.
- The *body* can be any number of statements. It can even include other if statements.

Extension: chaining ifs Any number of expressions and their bodies.

```
if expression1:
        body
elif expression2:
        body2
elif expression3:
        body3
```

• How it's executed:

Evaluate the expressions, in order. For the first one that evaluates to True,

- execute the associated body
- and terminate the if-statement (without checking further conditions).

Compare this

```
if sunny:
        print "I love the sunshine!"
    elif warm:
        print "Yay, it's nice and warm."
VS
    if sunny:
        print "I love the sunshine!"
    if warm:
        print "Yay, it's nice and warm."
```

Option: else Executed if none of the previous expressions evaluates to True:

```
if grade >= 80:
    letter_grade = "A"
elif grade >= 70:
    letter_grade = "B"
elif grade >= 60:
    letter_grade = "C"
elif grade >= 50:
    letter_grade = "D"
else:
    letter_grade = "F"
```