CS156 - More on the Fraction Class

Announcements
- New HW up today - due next Thursday
A new class:
\[ \frac{-2}{1} = -2 \quad \frac{8}{6} = \frac{4}{3} \]

Python supports `int` and `float`, but not rationals.

What are rationals? Fraction \( \frac{x}{y} \) where \( x \) and \( y \) are integers.

Why useful? (What do we lose in floats?)

Irrationals

\[ \frac{1}{3} = .33333... \]
Fraction class

We'll store fractions in reduced form.

Our class will be immutable.

Methods:

- __add__
- __mul__
- __div__
- __sub__
- __str__
- __float__

\[ \frac{3}{4} \rightarrow -\frac{1}{2} \]
Today
Finish off the Fraction class.