Summary 12 – Casting

What is this?

The expression

    (*typeName*) blah

attempts to ***cast*** (i.e., convert) the expression *blah* into the type *typeName*.

Casting to an integer truncates (instead of rounding).

We'll discuss casting of object types later.

- **Examples with primitive types**

```
int x;
double y = 10.4;
x = (int) (2 * y);   // causes x to become 20
```

The following example is typical – it casts to integers because the *look* method needs integers as its arguments.
```
// Look toward the mouse.
int eyeBallX = (int) (this.eyeRadius + ratio * (mouseX - eyeX));
int eyeBallY = (int) (this.eyeRadius + ratio * (mouseY - eyeY));

this.eyeBall.look(eyeBallX, eyeBallY); // Relative to eye
```

- **For further study:**
  - *Big Java*, page 136
  - This summary's *author:* David Mutchler