## **Declarations**

The syntax for C requires you to write the type of the variable you want to declare before the variable's name.

Unlike in languages like Python, R, Octave/Matlab, etc., which are **dynamically typed** languages, the C language is a **statically typed** language. From a practical point of view, this means in C we have to declare, up front, the **type** of every variable we use. In languages like Python we can do crazy stuff like this:

```
a = 123.456

b = 50.2

c = 100.0

d = [a, b, c]

print a, b, c, d
```

The Python interpreter will figure out what type to assign to a, b, c and d based on evaluating the right-hand side of each declaration. In C, we have to explicitly declare the type of each variable like this:

We haven't talked about arrays yet but we will later in the tutorial.

For now, let's move on to making meaningful statements with our declared variables.