## Haskell's Primitive Types

## PoDs

The plain old data types, know more formally as *primitive data types*, in Haskell are Int, Char, Bool, Double, Integer, and Float. These are your most basic building blocks in Haskell. Numbers can be stored as Ints or Integers if they are whole, and Doubles or Floats if they are fractional. Likewise, characters will be stored as Chars, and Booleans will be stored as Bools.

## Int vs. Integer

There are two main ways that Haskell stores integers: Int and Integer. Ints are bounded and limited in size; Integers are unbounded and have unlimited size. This most evident when working with really BIG numbers. You can give this a go right now by typing a really BIG number into GHCi and telling the compiler that it should have type Int:

## 9876543798976543245678 :: Int

See how the compiler gives you a wee warning? That is because Ints are bounded, it will even have told you the range. But why use Ints then? Well Ints are faster and easier for the computer to work with. However, you should only use Ints when you are sure that the number will stay within the range.