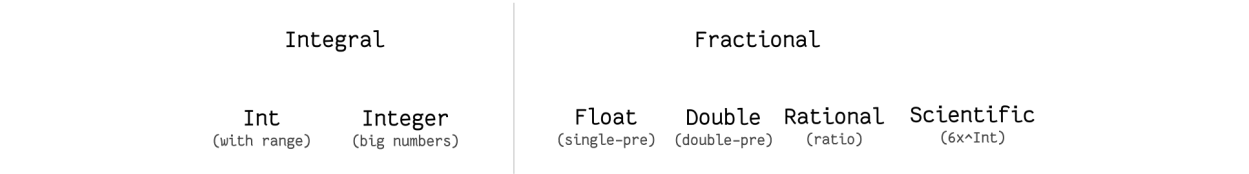


1 Basic Datatypes

Expressions, when evaluated, reduce to values. Every value has a type.
This is a data declaration.

```
data Bool = False | True
```

- Bool. Type constructor.
- False. Data constructor for False.
- Pipe — is *sum type*.



Numbers are **polymorphic** the surface, and the compiler doesn't assign them a *concrete type* until it is forced to.
Scope is a way to refer to where a named binding to an expression is valid.
2 or 3-tuple, this number is **tuple's arity**.

```
(a,b) = (,) a b
```

A typeclasses is a set of operations defined with respect to a polymorphic type. A type alias `type Name = String`
Polymorphism is either *parametric* or *constrained*.

2 Names and variables

f' is called **f-prime**.