1 Lifted and unlifted types

lifted: * (all standard lifted types), unlifted : #

> **Definition : Lifted types**
>
> A lifted type, which includes any datatype you could define yourself, is any that can be inhabited by *bottom*. Represented by a pointer.

> **Definition : Unlifted type**
>
> Unlifted types are any type which *cannot* be inhabited by bottom (native machine types and raw pointers).

Newtypes are special case.

Data constructors are functions

Data constant $\neq$ Data constructors.

2 Unfold

Folds - catamorphism break data structure down, then unfold build them up.