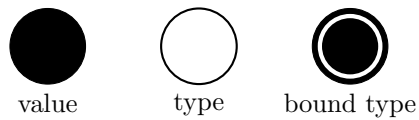To start with, a visual language for data manipulation should most likely be similar to other dataflow languages. It should be able to handle the idea of messaging and therefore be multithreaded.
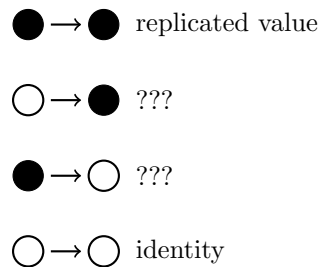
I immediately go to functional programming for a variety of reasons, many of which are.

1 Basic Language

Nodes

value   type   bound type

Arrows

 replicated value

 ???

 ???

 identity