

runtime objects

Unicode strings, variable-length integers,
hashmaps rather than `List<Record<K, V>>`

pointers

unions

can be built out of lists and records

lists and records

the hard part: arbitrary length lists and
array-of-structs to struct-of-arrays translation

flat arrays

one of many array libraries, e.g. Numpy

physical bytes

binary blobs on disk, network, or memory