Fundamentals | Intermediate Memory

Basic memory refresh

- Memory is stored using binary
 - Bits: 0 or 1
- Computer optimized for bytes
 - 1 byte == 8 contiguous bits
- Fully contiguous

Addresses

- All data in memory has an "address"
 - Used to locate data
 - Always the same only data changes
- Usually don't utilize addresses directly
 - Variables handle most of the work

Offsets

- Items can be located at an address using an "offset"
- Offsets begin at 0
- Represent the number of bytes away from the original address
 - Normally deal with indexes instead

Addresses & Offsets



Recap

- Memory uses addresses & offsets
- Addresses are permanent, data differs
- Offsets can be used to "index" into some data