**How data is represented by computer systems?**

Number Systems:

Denary, Base 10, used as standard by Humans, unrecognisable by computers.

Binary, Base 2, standard used by digital electronics, consists of only on and off states (printed as 1 or 0)

Hexadecimal, Base 16, letters A-F = 10-15, it can be cross referenced with binary (IE 15=F=1111)

Binary Coded Decimal: when you store a denary number in half of 1 byte (a nibble)

Two’s Compliment: Invert the current binary, then save 1 byte as an identifier, 0 would mean negative, 1 would mean positive. Seriously limits capabilities when dealing with large numbers.