

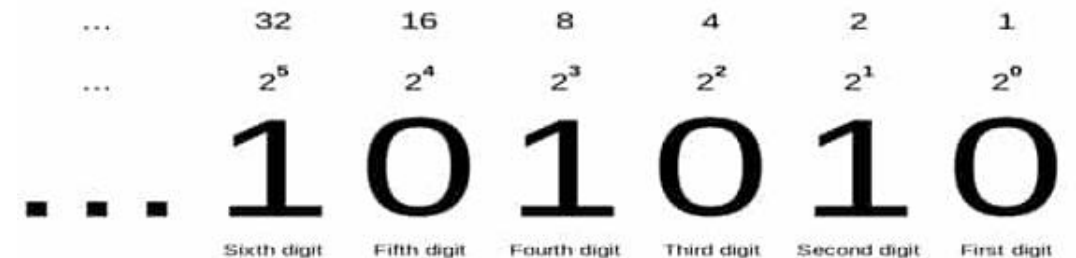
# Bits og bytes

# Motivasjon

- 0-9 gir lite mening for en datamaskin
- Av og på
- 0 eller 1
- Trenger en bedre løsning

# Det binære tallsystem

- Alternativt tallsystem
- Brukes av alle datasystemer
- $44_{10} = 101100_2$



# Bytes

- Gruppe av bits
- Som regel 8 (oktett)
- int: 2 byte (16 bit)
  - 0 til 65 536
- long: 4 byte ( 32 bit)
  - 0 til 2 147 483 647



**YouTube**

Shared publicly - Dec 1, 2014

We never thought a video would be watched in numbers greater than a 32-bit integer (=2,147,483,647 views), but that was before we met PSY. "Gangnam Style" has been viewed so many times we had to upgrade to a 64-bit integer (9,223,372,036,854,775,808)!

Hover over the counter in PSY's video to see a little math magic and stay tuned for bigger and bigger numbers on YouTube.

