

B² Binary

0 1

16 8 4 2 1
1 1 0 1 0
 $16 + 8 + 2 = 26$

D¹⁰ Decimal

0 1 2 3 4 5 6 7
10² 8 9
100 10 1
3 7 1 ~~0~~
 $300 + 70 + 1$

1 binary number = bit

0, 1
8 binary numbers = byte

10010101

Num of bits

64-bit

10000...0001

64 digits

8-bit number

128 64 32 16 8 4 2 1
00000000

00010000 = 16

Utf-8

ASCII

1 byte

10000001
1 byte

→

→

→

→

128	64	32	16	8	4	2	1
0	1	0	0	0	0	0	1
0	1	1	0	0	0	0	1

Optimising for memory

Smaller data types

Reduce number of dfs

Modify dfs in place (where possible)

avoid Think about loops
nested

Time Series
(Sarima)
pdq PDQS

data structures

np arrays are fastest
way to do maths

to make use of anything
that uses C

If using Pytorch or
TensorFlow,
see about using your GPU