

- o Each column is independent
- o Maximum information is 2 bits per position, if column is 100% conserved.

$$\log_2 (4/1) = 2 \text{ bits}$$

yeast	GUGUUCGCUAC
human	GCCUUCGGCGC
fly	GCAUUCGUAGC
fish	GUUUUCGAUAC
orc	GUCUUCGGAAC
frog	GCGUUCGCGGC
worm	GCUUUCGAGGC
mouse	GUAUUCGUCAC



sequence profile:
14 bits