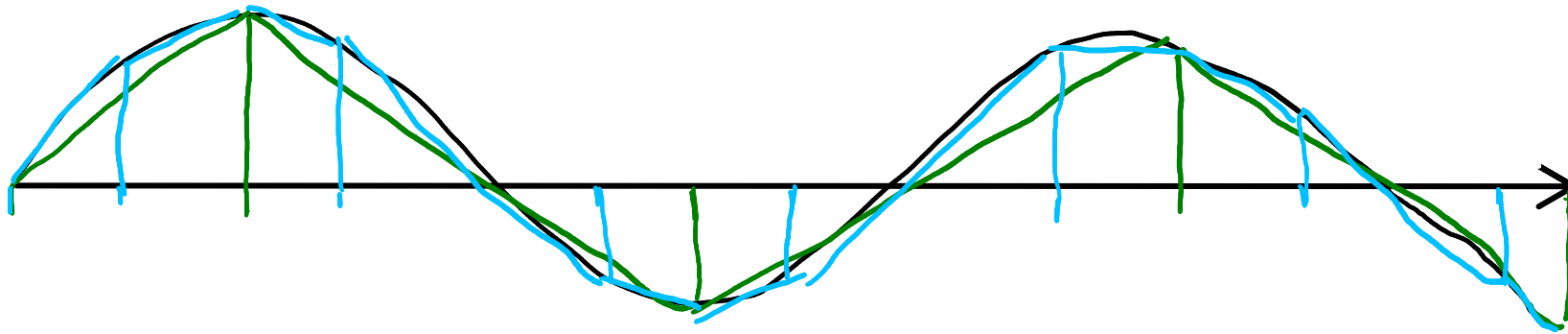
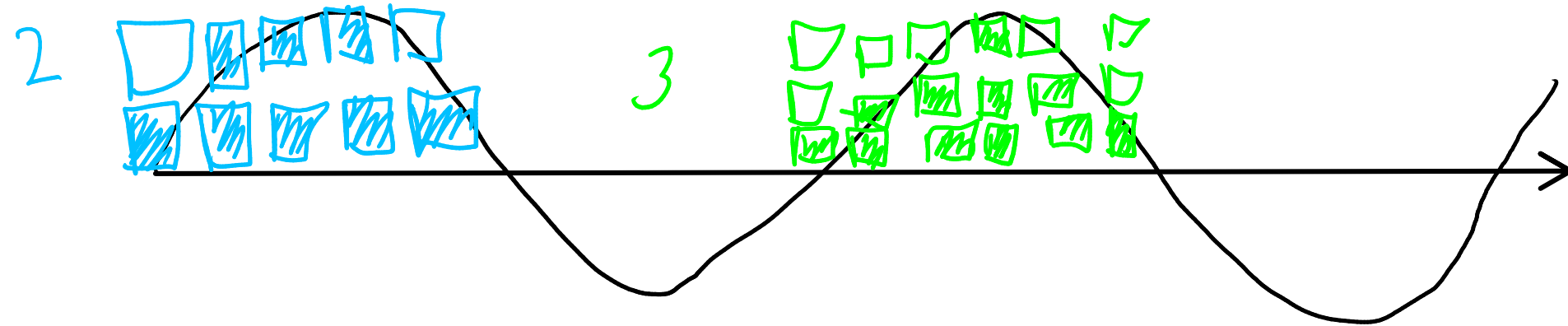


Sampling Rate



bit depth



Bit rate

$$\begin{array}{lcl} \text{Sampling Rate} & \times & \text{bit depth} \\ \text{Samples} & & \text{bits per} \\ \text{per second} & \times & \text{Sample} \\ \text{Hz} & & \end{array} = \begin{array}{l} \text{bit rate} \\ \text{bits per} \\ \text{second} \\ \text{bits/s} \end{array}$$

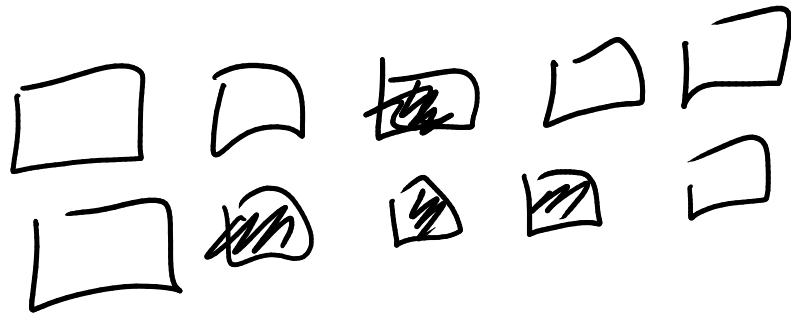
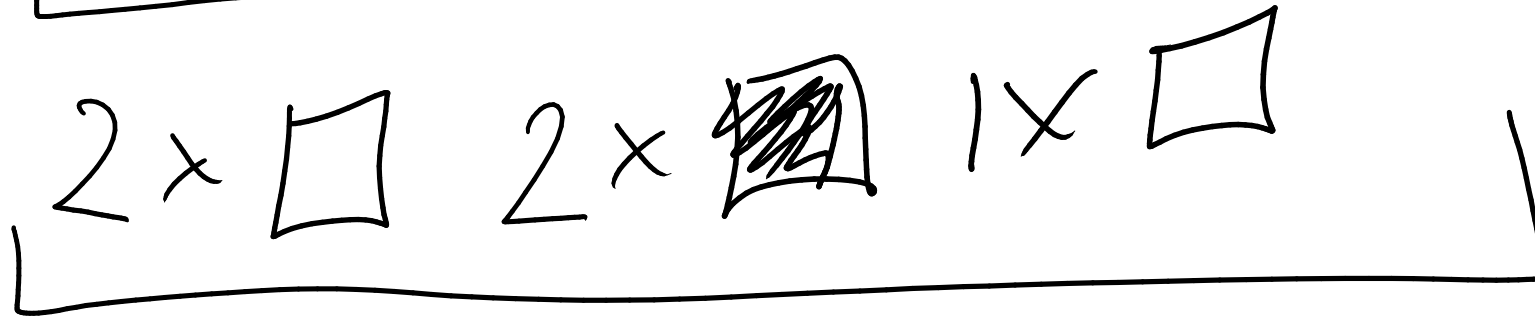
$$\begin{array}{lcl} \text{bits per} & \times & \text{amount} \\ \text{second} & & \text{of seconds} \end{array} = \begin{array}{l} \text{File size} \end{array}$$




$$\begin{array}{lcl} \text{bit rate} & \times & \text{duration} \\ \text{bits/s} & \times & \text{s} \end{array} = \begin{array}{l} \text{file size} \\ \text{bits} \end{array}$$

5x 



Run length
encoding



2x  1x  2x 

1x  3x  1x 