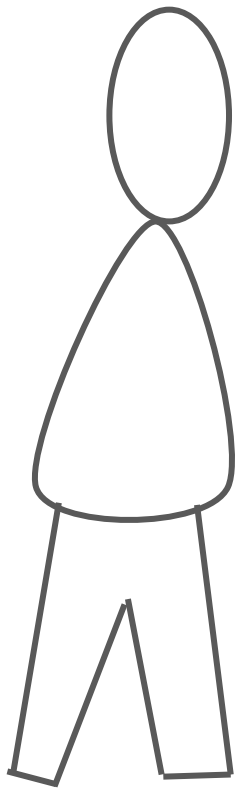
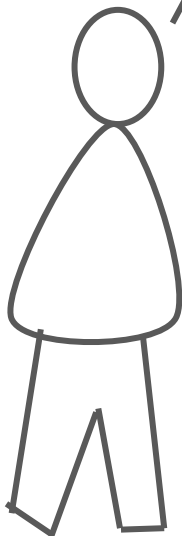


**YOU'RE SAYING THAT WE CAN APPLY COMPRESSIVE  
SENSING TO ACHIEVE 50% REDUCTION IN  
TRANSMISSION !! ON WHAT BASIS ?**



**ON THIS BASIS,  
PROFESSOR.**



$$\begin{pmatrix} 1 & 1 & 1 & \dots & 1 \\ 1 & e^{-i\frac{2\pi}{N}} & e^{-i\frac{4\pi}{N}} & \dots & e^{-i\frac{2(N-1)\pi}{N}} \\ 1 & e^{-i\frac{4\pi}{N}} & e^{-i\frac{8\pi}{N}} & \dots & e^{-i\frac{4(N-1)\pi}{N}} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ 1 & e^{-i\frac{2(N-1)\pi}{N}} & e^{-i\frac{4(N-1)\pi}{N}} & \dots & e^{-i\frac{(N-1)^2\pi}{N}} \end{pmatrix}$$

