${\bf Scalar} \quad : \ {\bf serifs}, \ {\bf non\text{-}bold}$

 $a,\alpha,\gamma,x,\xi,y,z$

Vectors : serifs, bold $a = a_i, \alpha, \gamma, x, \xi, y, z, \dots$

 $\mathbf{Matrix} \quad : \ \mathrm{serifs}, \ \mathrm{bold}, \ (\mathrm{uppercase})$

 $m{A}=a_{ij},m{\Gamma},m{X},m{\Xi},m{Y},m{Z},\dots$

 ${\bf Tensor} \quad : \ {\rm sans\text{-}serifs}, \ {\rm bold}, \ {\rm upper \ case}$

 ${m A}=A_{ijk},{m X},{m Y},{m Z},\dots$

 ${\bf Random\ variable/vector}\quad : \ {\bf serifs,\ non\text{-}bold,\ uppercase}$

 $A = A_i, X, Y, Z, \dots$

 ${\bf Sets} \quad {\bf using \ mathbb \ command}$

 $\mathbb{C},\mathbb{R},\mathbb{N},\mathbb{Z}$