

Scary Math!

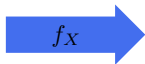
$$f_X(x; \theta) = p$$

Slightly Less Scary Math:

Sample Space

$$\mathbf{x} = x_1, x_2, x_3, \dots, x_n$$

**Probability
Mass Function**



Probabilities

$$\mathbf{p} = p_1, p_2, p_3, \dots, p_n$$

Parameters

$$\boldsymbol{\theta} = \theta_1, \theta_2, \theta_3, \dots, \theta_k$$