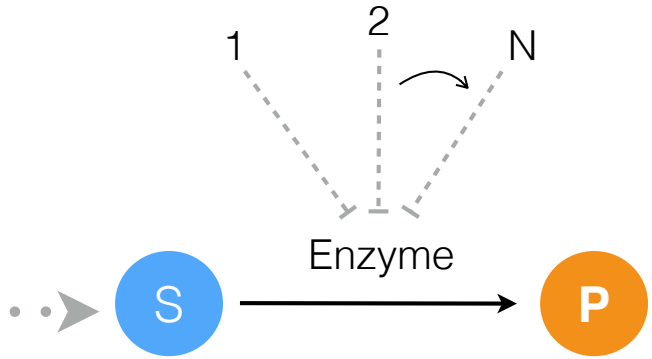
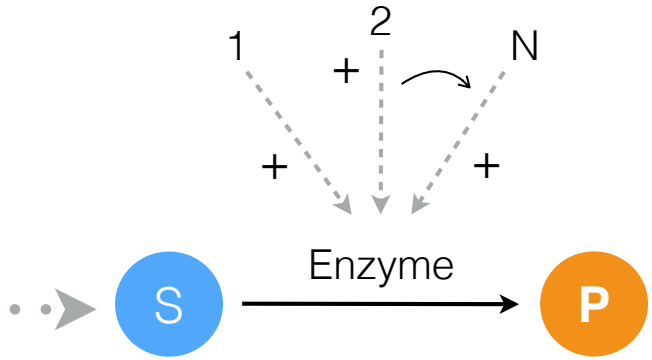
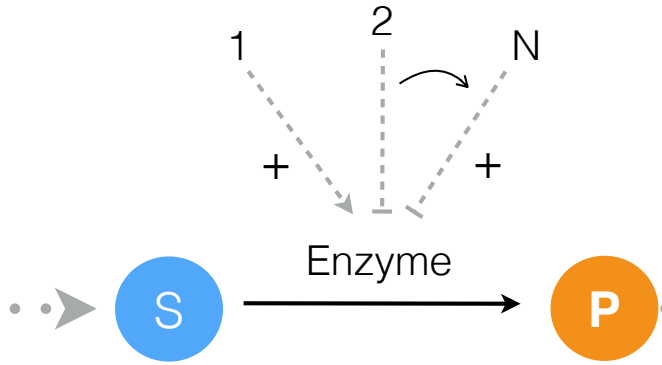


$$0 \leq f_j\left(\mathbf{x}, \mathbf{k}\right) \leq 1$$

OR $v = 1 - \max\left\{ f_1\left(\mathbf{x}, \mathbf{k}\right), f_2\left(\mathbf{x}, \mathbf{k}\right), \ldots, f_N\left(\mathbf{x}, \mathbf{k}\right) \right\}$



OR $v = \max\left\{ f_1\left(\mathbf{x}, \mathbf{k}\right), f_2\left(\mathbf{x}, \mathbf{k}\right), \ldots, f_N\left(\mathbf{x}, \mathbf{k}\right) \right\}$



AND $v = \min\left\{ u, d \right\}$

$$u = \max_{f^+}\left\{ f_1\left(\mathbf{x}, \mathbf{k}\right), f_2\left(\mathbf{x}, \mathbf{k}\right), \ldots, f_{\mathcal{U}}\left(\mathbf{x}, \mathbf{k}\right) \right\}$$

$$d = 1 - \max_{f^-}\left\{ f_1\left(\mathbf{x}, \mathbf{k}\right), f_2\left(\mathbf{x}, \mathbf{k}\right), \ldots, f_{\mathcal{D}}\left(\mathbf{x}, \mathbf{k}\right) \right\}$$