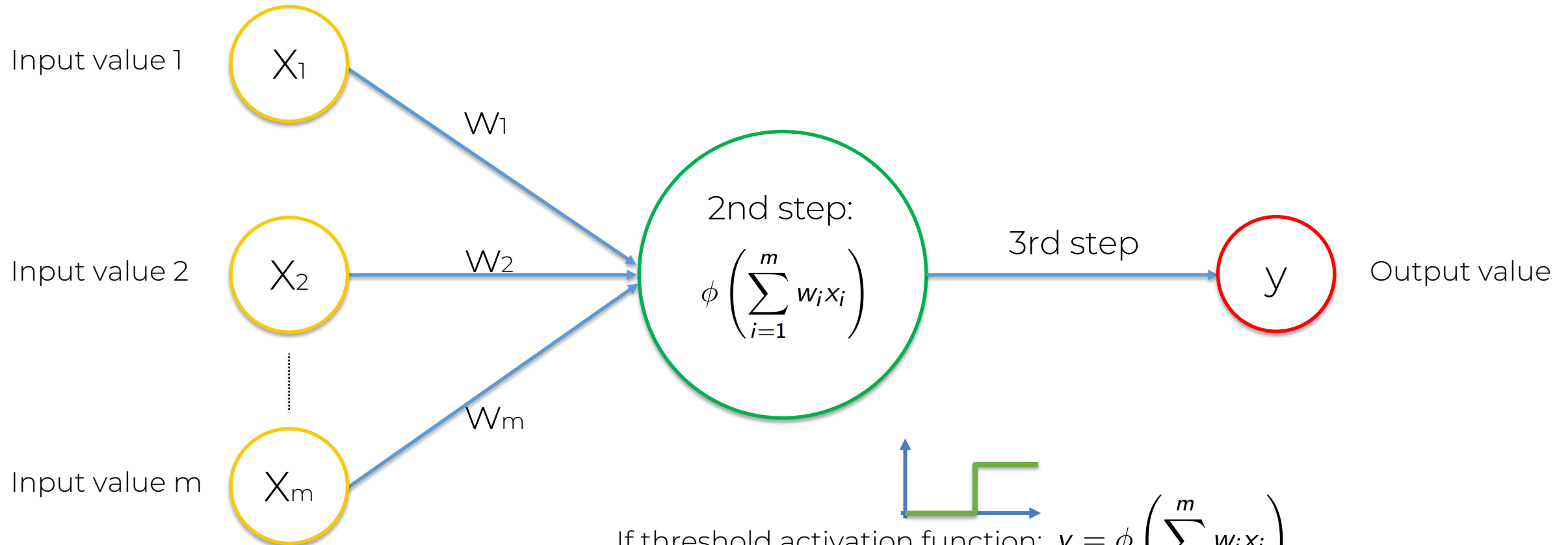


The Activation Function



Assuming the DV is binary ($y = 0$ or 1)

If threshold activation function: $y = \phi \left(\sum_{i=1}^m w_i x_i \right)$

If sigmoid activation function: $\mathbb{P}(y = 1) = \phi \left(\sum_{i=1}^m w_i x_i \right)$