Biological Neuron

Artificial Neuron

Dendrites
(Inputs)

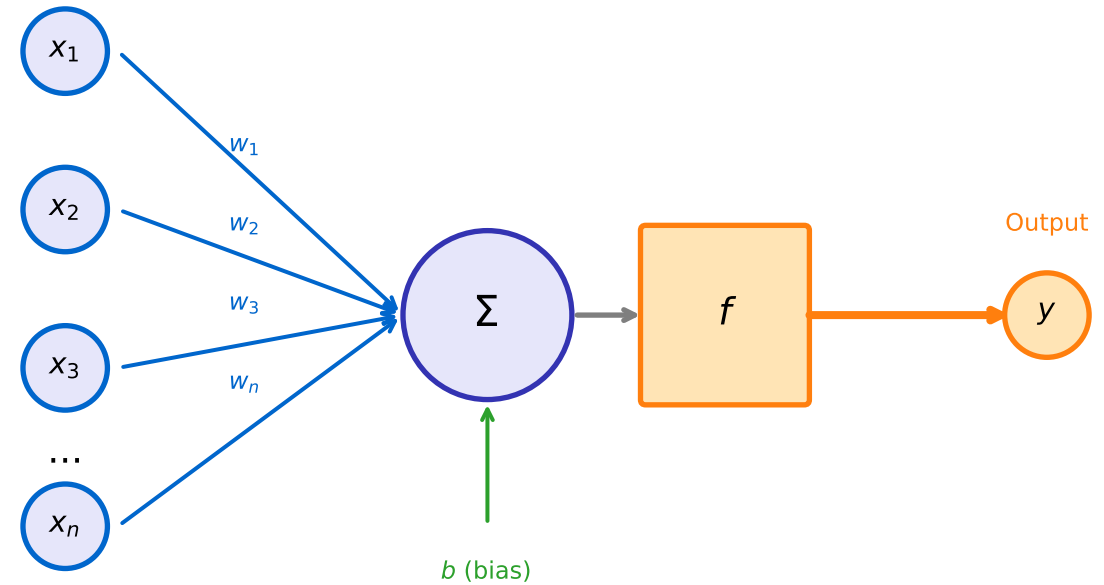**Soma**
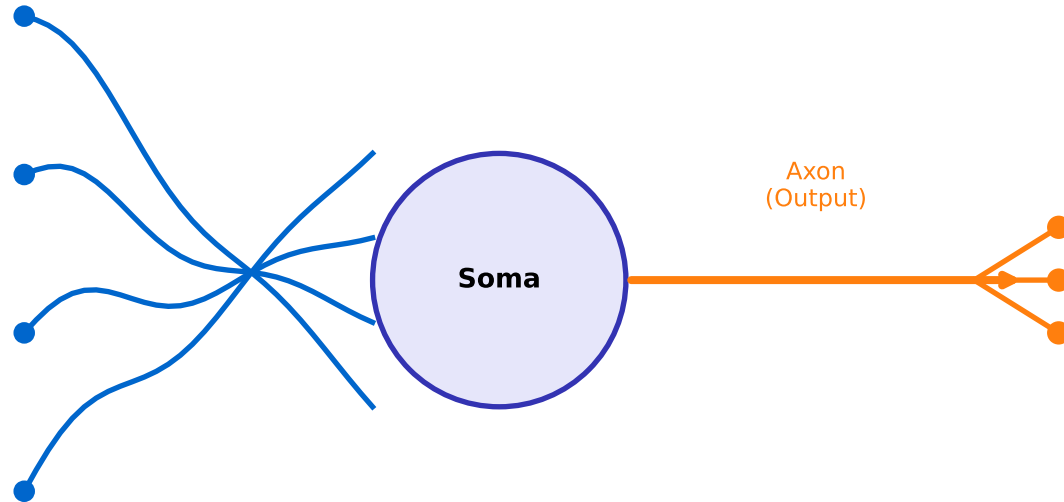
Axon
(Output)

*Processes information
and generates output signal*

Inputs

x_1

x_2

x_3

...

x_n

w_1

w_2

w_3

w_n

Σ

b (bias)

f

Output

y

$$y = f(\sum_i w_i x_i + b)$$