

**Ref**  
Van Rossum 2000

**Region**  
Hippocampe

**Bounds**  
Soft

2

### Equation

$$\frac{dx}{dt} = -\frac{x}{\tau_+} + \delta(t_{pre} - t)$$

$$\frac{dx}{dt} = -\frac{x}{\tau_-} + \delta(t_{post} - t)$$

$$w_{updated} = w + A^+ \cdot (1 - w) \cdot x(t) \quad \text{if } t = t_{post}$$

$$w_{updated} = w - A^- \cdot w \cdot y(t) \quad \text{if } t = t_{pre}$$

$$\tau_w \frac{dw}{dt} = (w_{updated} - w)$$

### Parameters

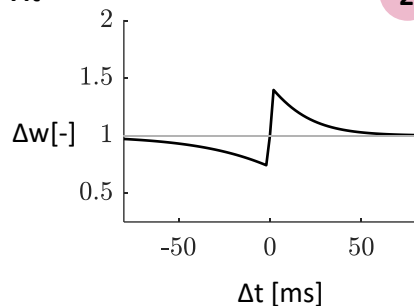
$$A^+ = 0.0096$$

$$A^- = 0.0053$$

$$\tau_+ = 16.8$$

$$\tau_- = 33.7$$

### Fit



### Reset

