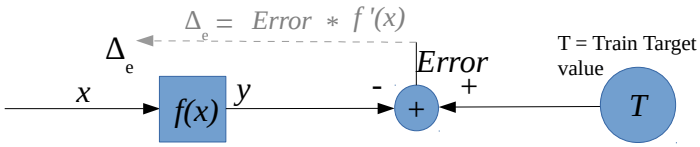
Chain Rule recap

$$\frac{dz}{dx} = g'(f(x)) * f'(x)$$

$$= g'(y) * f'(x)$$

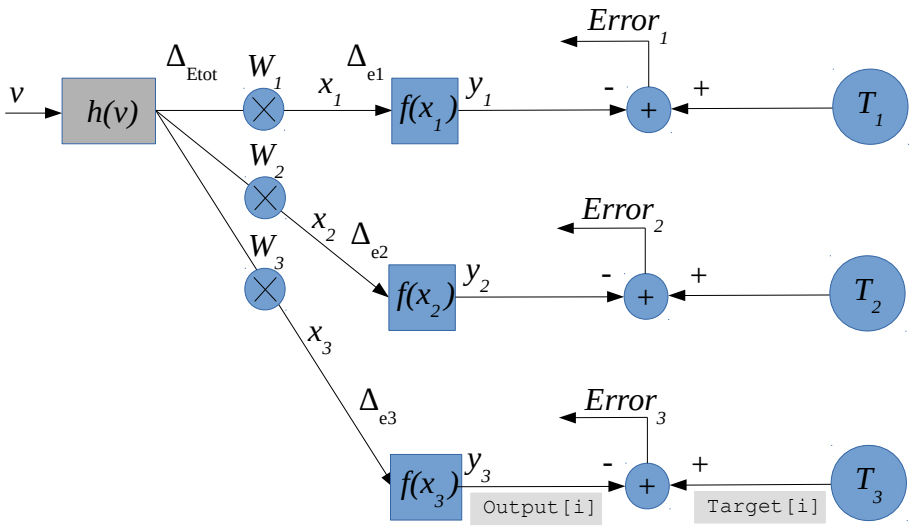
Backpropagation with delta error Δ_e



$$\Delta_e = Error * f'(x)$$

```
Delta_e = (Target - Output) * derivF(x);
```

Network with weights and dot product Δ_{Etot}



Caclulate the Δ_{Etot} in code

```
for(i=0; i<nr_of_weights ; i++){
  Delta_total += W[i] * (Target[i] - Output[i]) * derivF( x[i] );}
```