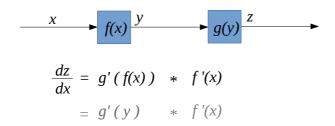
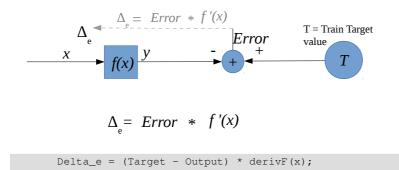
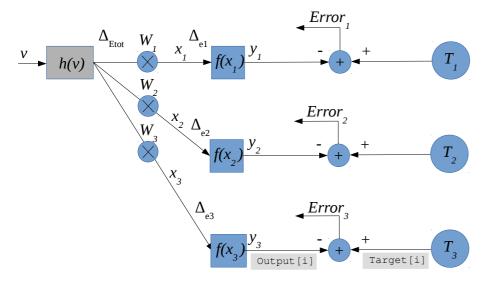
## Chain Rule recap



## Backpropagation with delta error $\boldsymbol{\Delta}_{\!_{\boldsymbol{e}}}$



## Network with weights and dot product $\, \Delta_{_{Etot}} \,$



Caclulate the  $\,\Delta_{_{Etot}}\,$  in code

```
\label{eq:delta_total} \mbox{ $\text{$D$elta\_total $+$= $W[i] $* (Target[i] - Output[i]) $*$ derivF( $x[i] );}
```