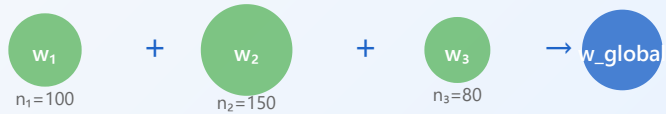


# FedAvg & FedProx



## FedAvg

$$w = \sum (n_k/n \times w_k)$$

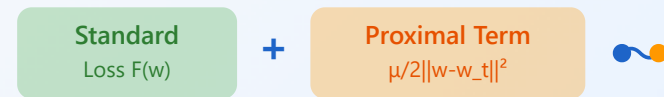


- Simple weighted average
- Fast convergence
- Works well with IID data



## FedProx

$$\min F(w) + \mu/2 \|w - w_t\|^2$$



- Adds proximal term
- Handles heterogeneity
- More robust