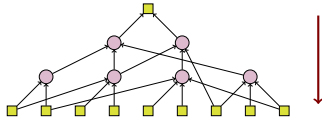


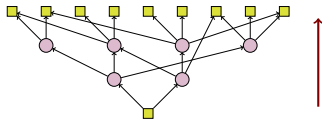
Reverse mode AD is best suited for

$$F: \mathbf{R}^n \rightarrow \mathbf{R}$$



Forward mode AD is best suited for

$$G: \mathbf{R} \rightarrow \mathbf{R}^m$$



- ▶ Forward and reverse mode represents just two possible (extreme) ways of recursing through the chain rule.
- ▶ For $n > 1$ and $m > 1$ there is a golden mean, but finding the optimal way is probably an *NP*-hard problem.

