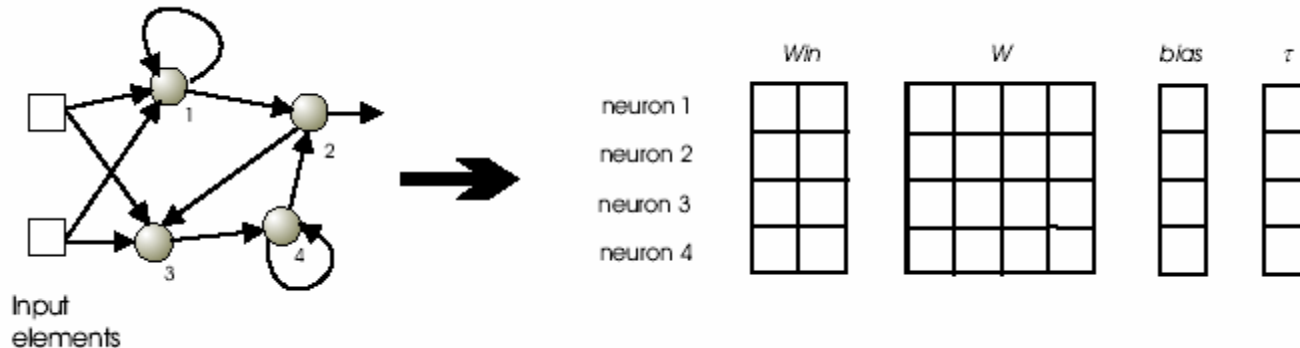
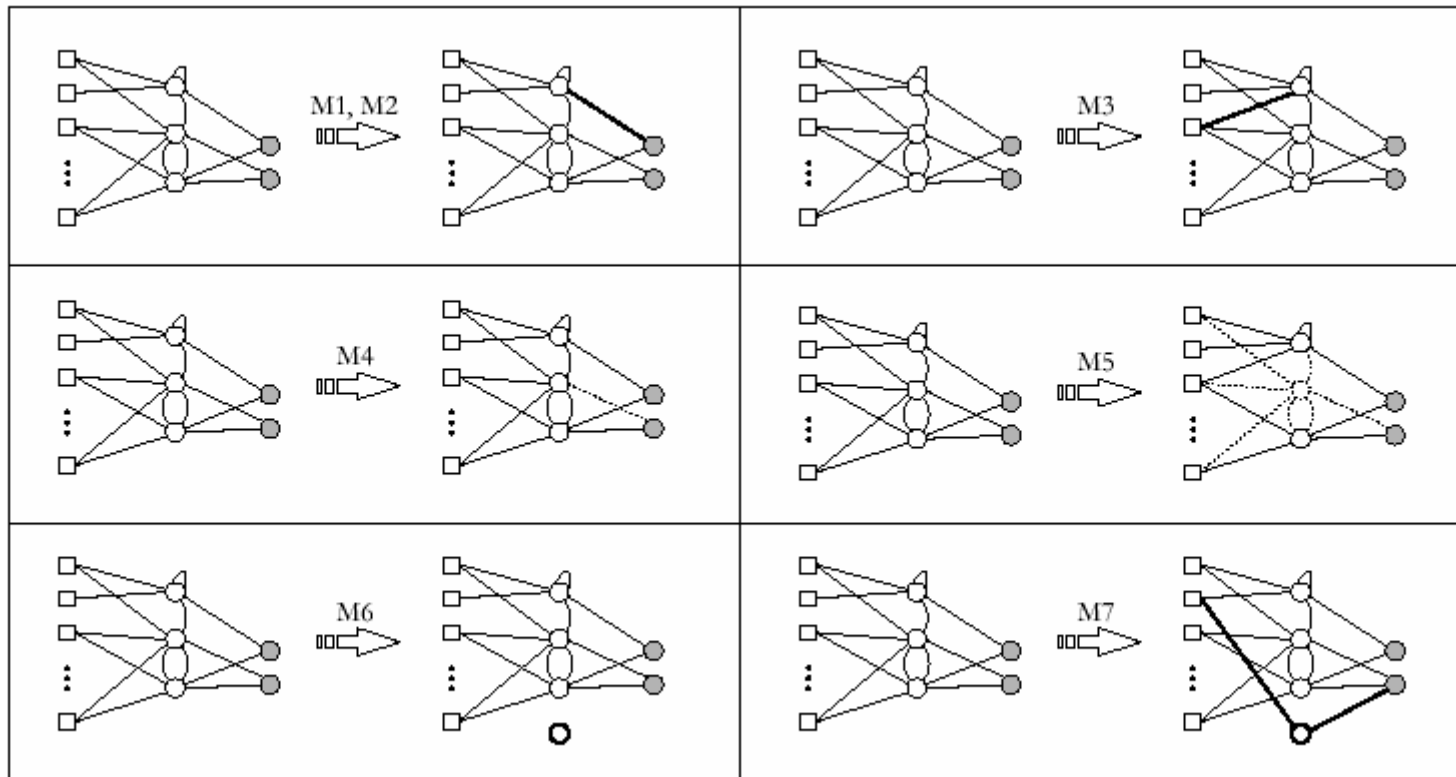
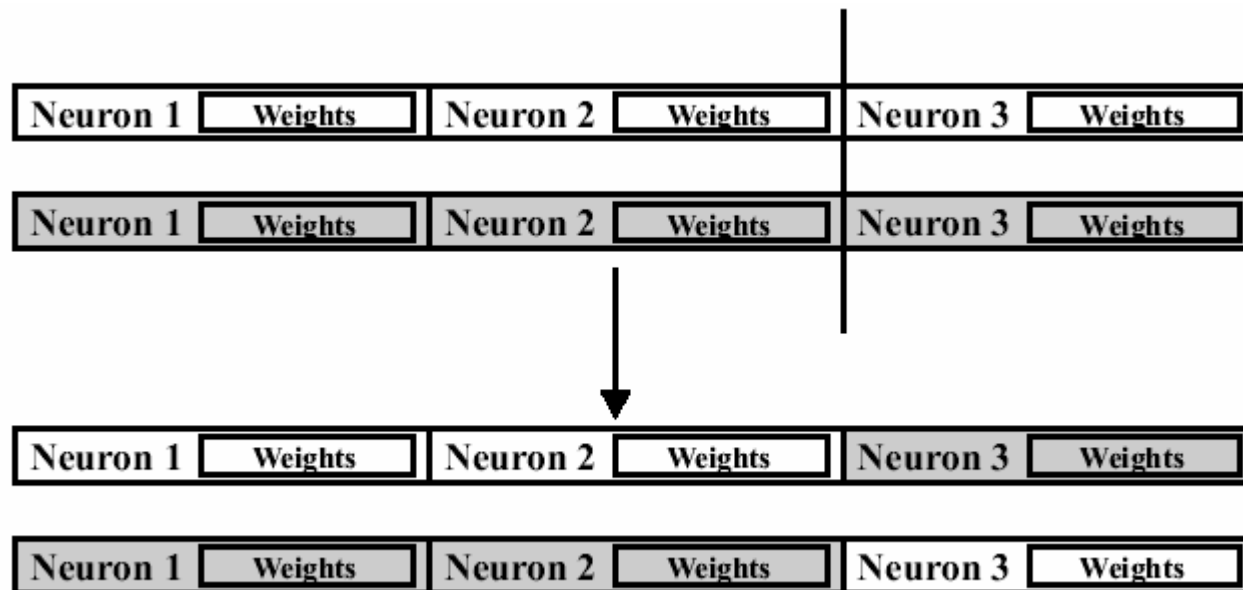


Encoding scheme for RNNs







Backpropagation is a supervised learning method: It requires a set of input-output pairs, from which error signals can be formed (to guide the algorithm)

Träningsdatamängd, $n^{(I)}$ insignaler, $n^{(O)}$ utsignaler:

| m | x_1 | x_2 | \dots | $x_{n^{(I)}}$ | O_1 | O_2 | \dots | $O_{n^{(O)}}$ |
|----------|----------|----------|----------|---------------|----------|----------|----------|---------------|
| 1 | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots |
| 2 | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots |
| \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots |
| M | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots | \vdots |