neural network

- initialized
  - # of hidden layers \( L \)
  - # of neurons in each hidden layer \( n \)
  - weights

my examples are working examples they are not injective.

check "operation"

one or more examples fail

training

keep adjust weights for each example use sigmoid

every example works correctly stop.

put in test inputs \( x_1, x_2, y \)
in weighted sum

\[
\begin{align*}
0 & - 0 - 0 \\
0 & - 0 - 0 \\
\rightarrow & 0 0 0 0
\end{align*}
\]

\[
\begin{align*}
0 & 1 1 \\
1 & 0 1 \\
1 & 1 0
\end{align*}
\]