



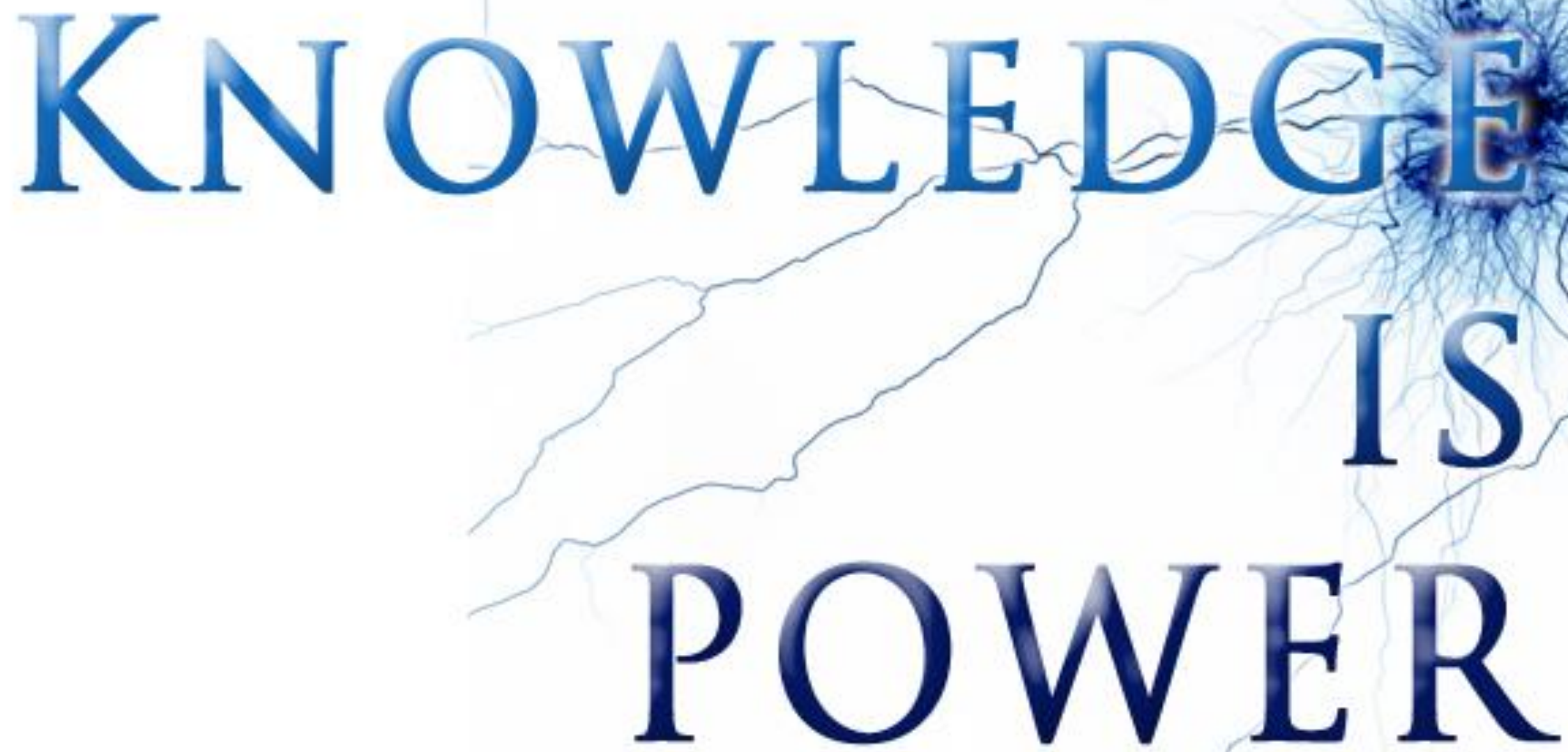
ARTIFICIAL INTELLIGENCE











KNOWLEDGE  
IS  
POWER

**CREEPY**  
**POWERFUL**  
**USEFUL**

**More memory**

**No emotions**

**CREEPY  
POWERFUL  
USEFUL**

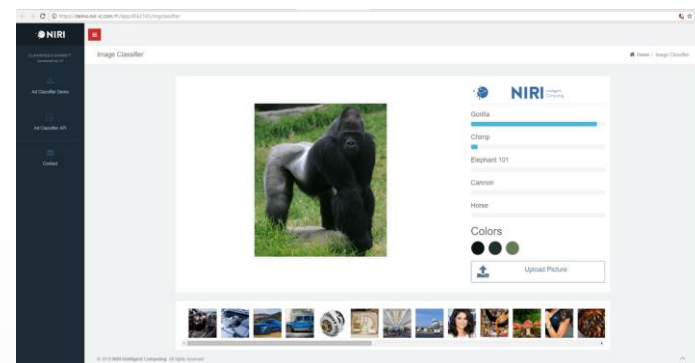


**better**

**saving time**

**faster**

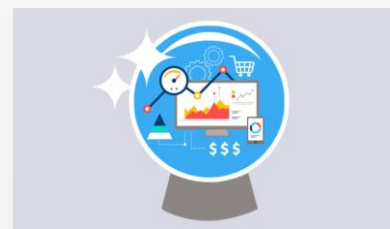
**Image processing and  
classification**



**Text processing and  
classification**



**Predictive analytics**

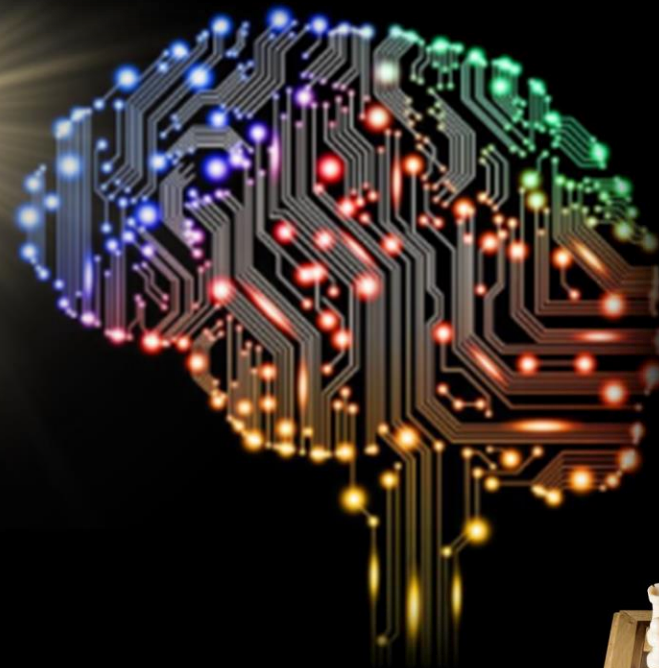
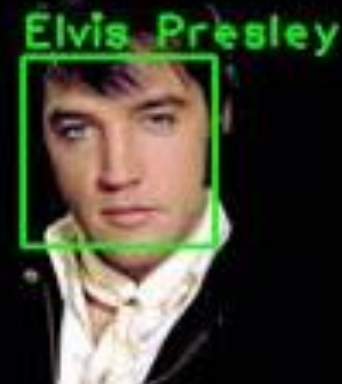


**Cybersecurity**



**Does Artificial  
Intelligence  
have a sense of humor?**









**What**

**When**

**How**

**to say ?**



**Intelligence**

**Talent**

**Company of good friends**

**Beer?**



**Intelligence**

**Talent**

**Company of good friends**

**Beer?**





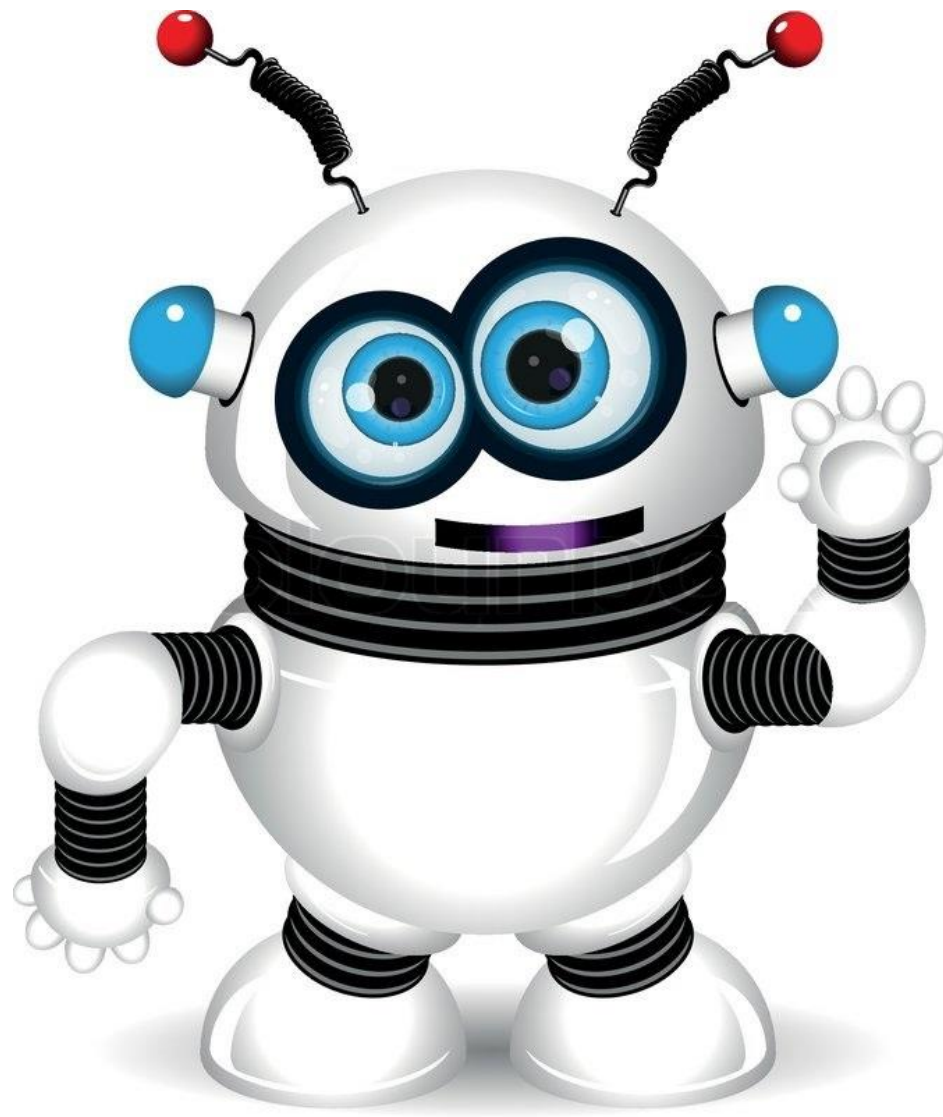
**What?**

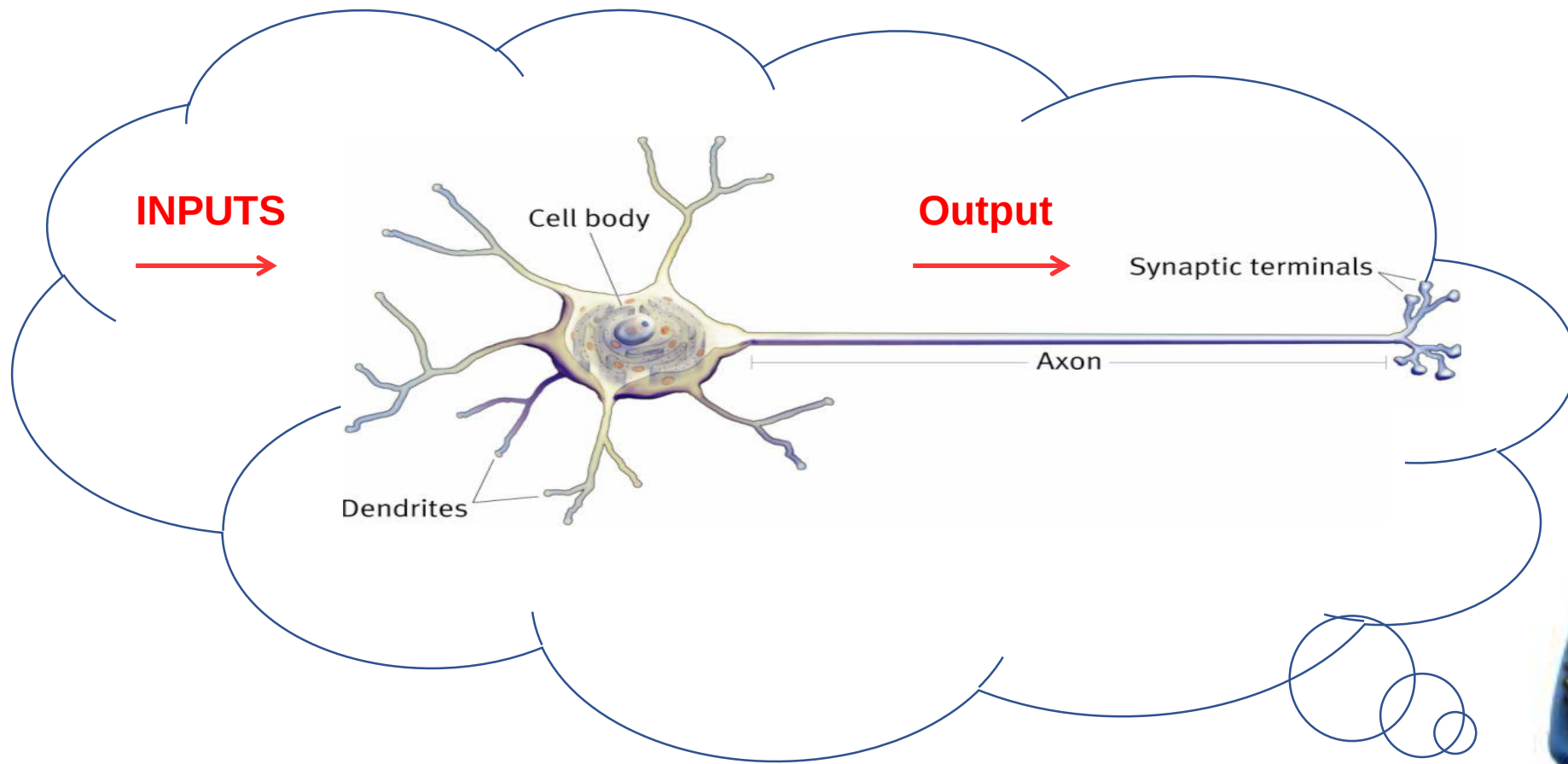
**Intelligence**

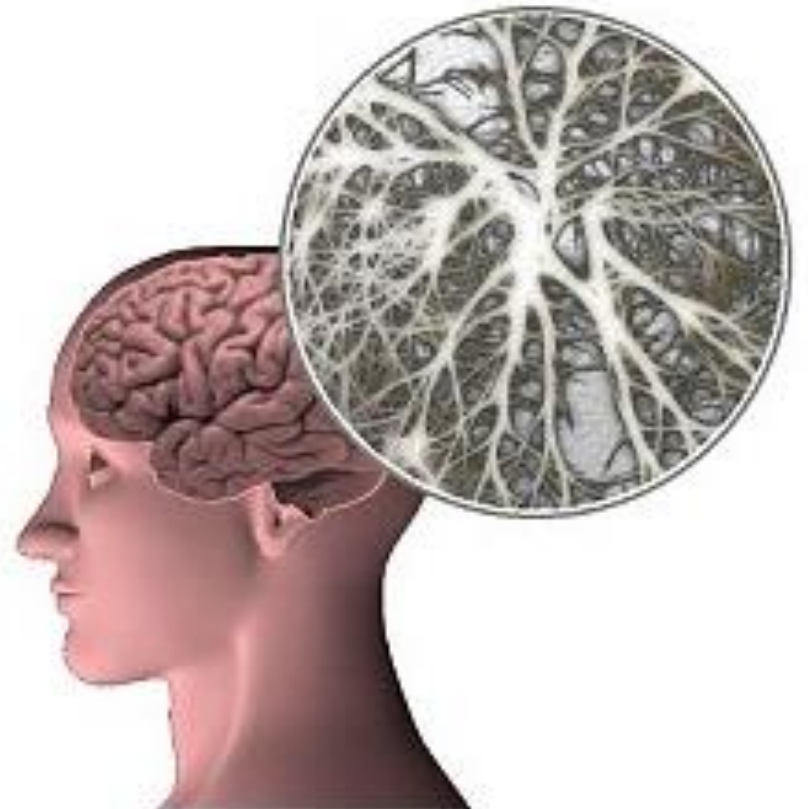
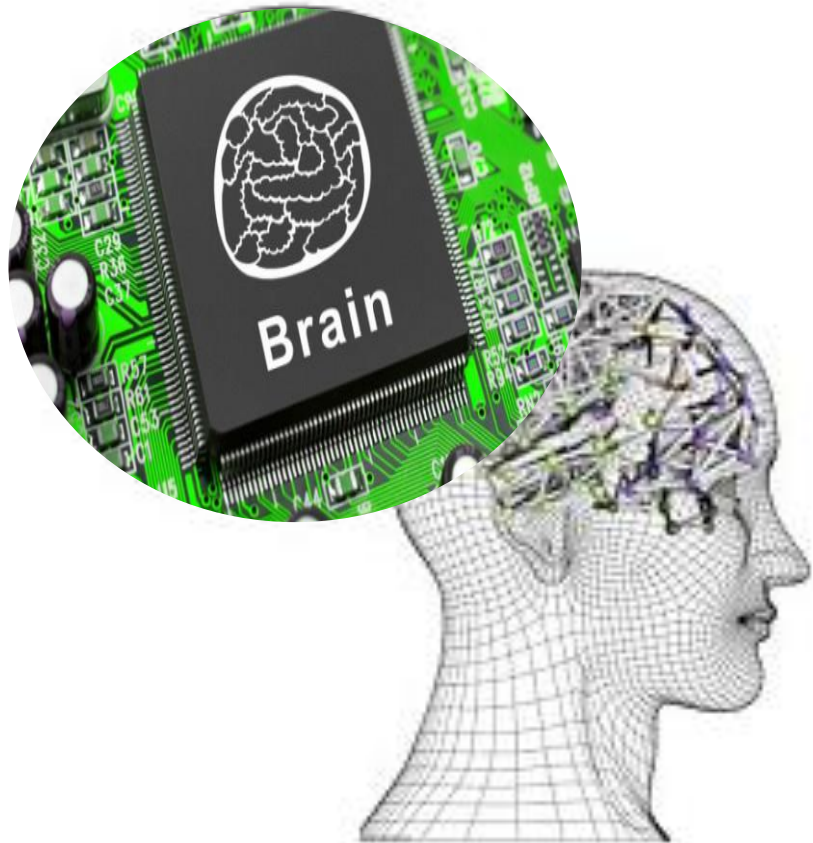
**How?**

**When?**

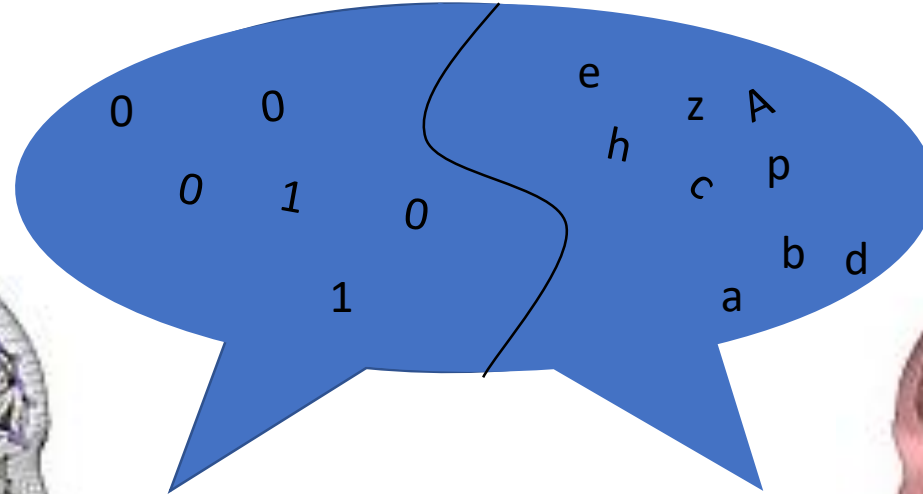
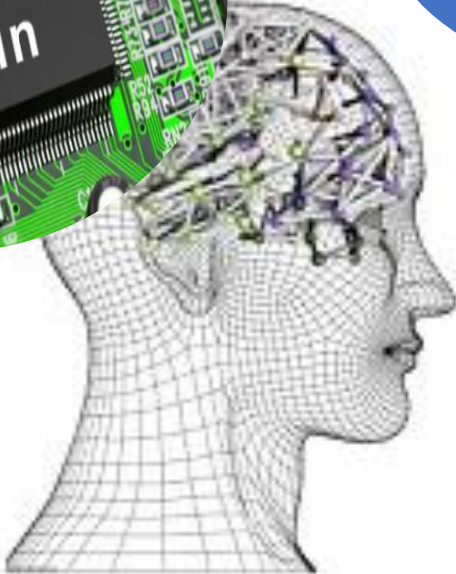
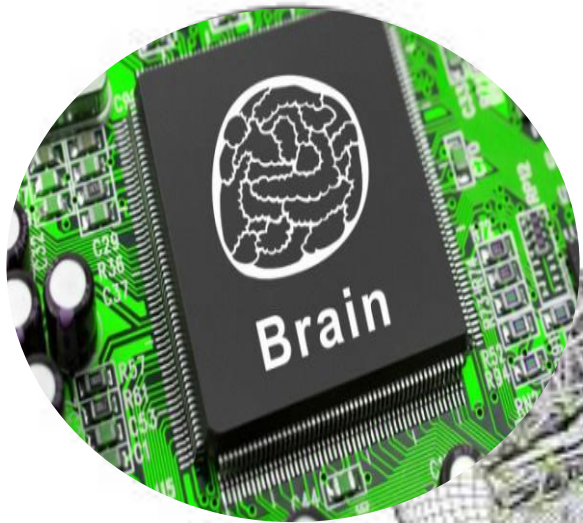
1. According to a new study , the governor of film welcome the leading actor of Los Angeles area , Donald Trump.
2. What do you call a cow with no legs? Ground beef.
3. I like my women like I like my coffee. I don't like coffee.
4. What's the difference between a snowman and a snow woman? Snowballs.
5. What do you say to a policeman? A lot of money.
6. Chuck Norris once possibly relax.



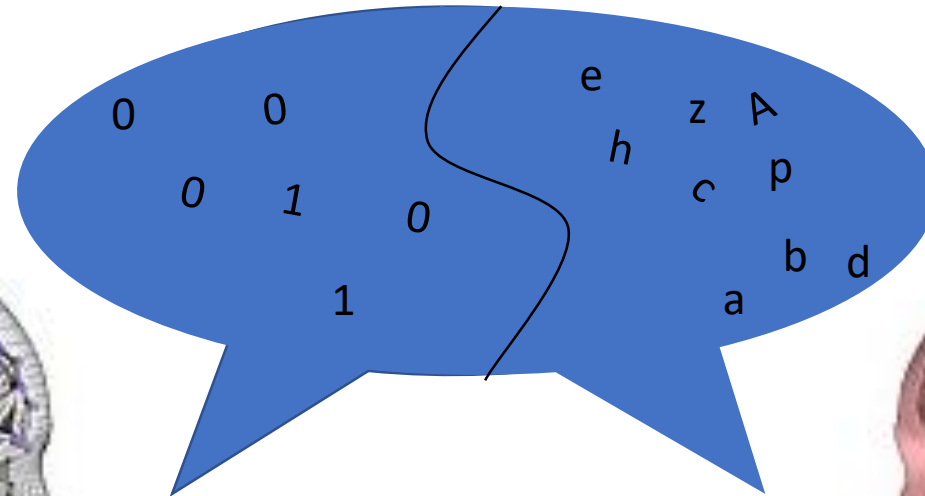
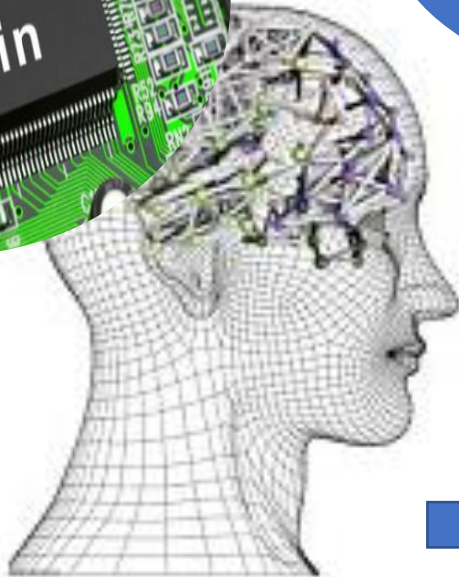
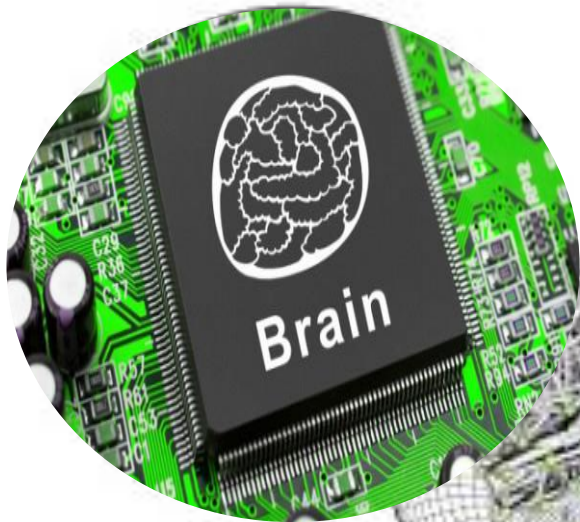




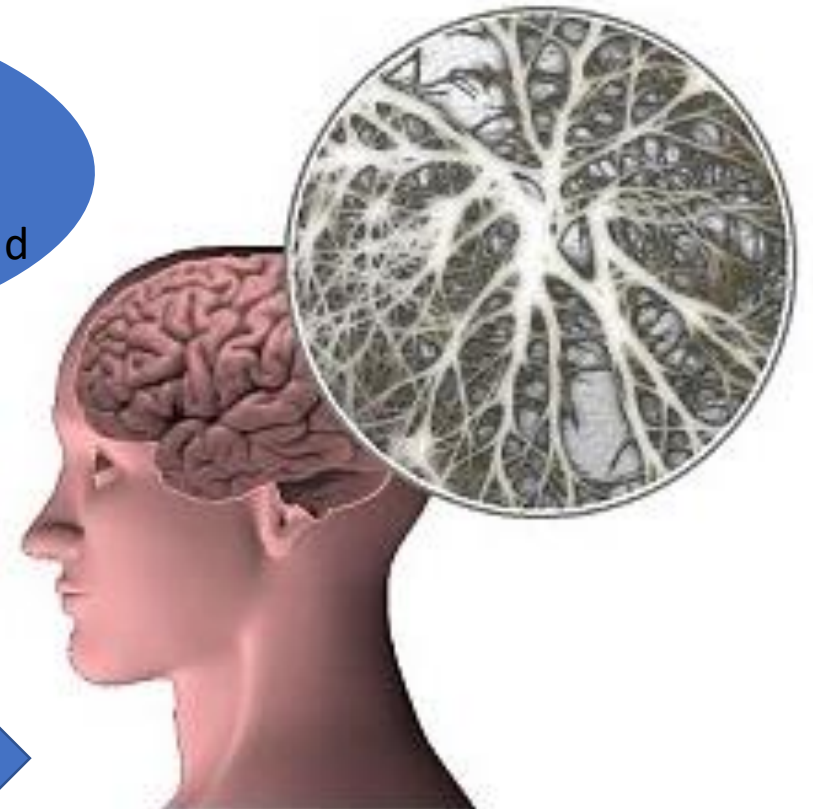


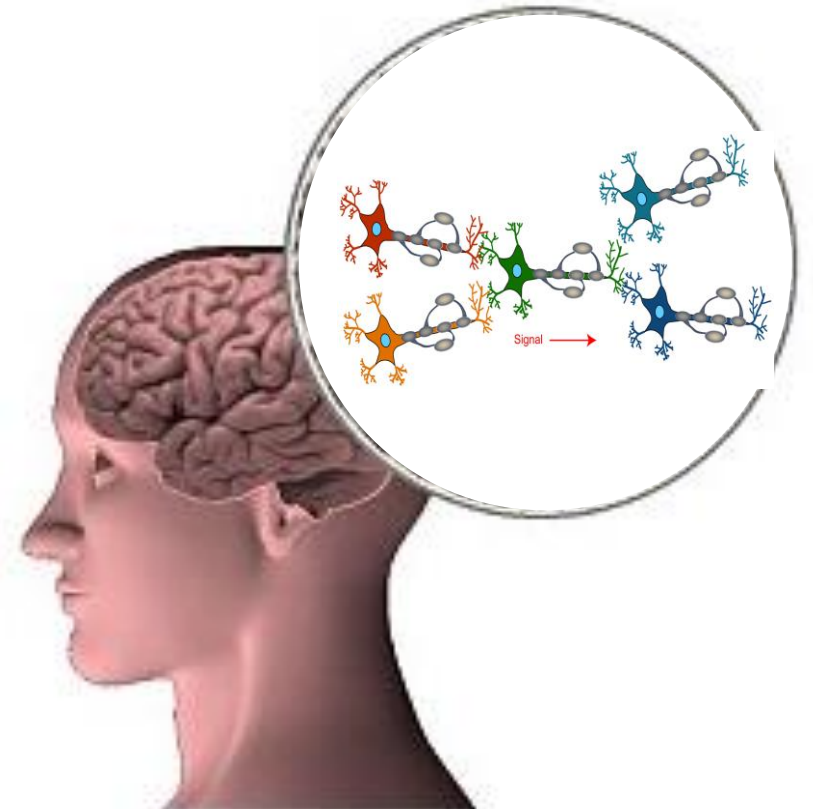
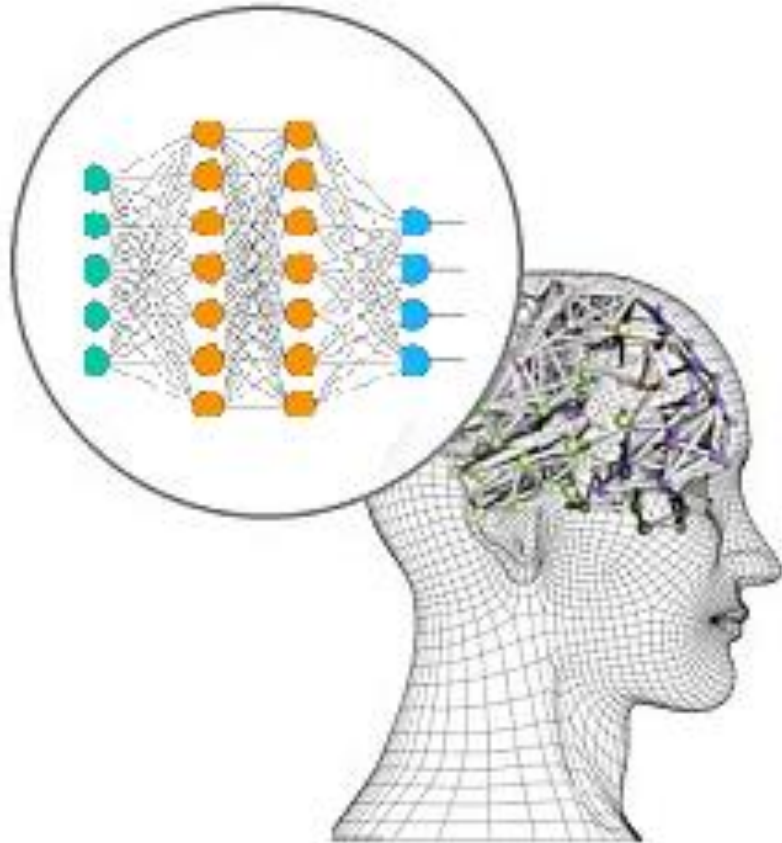
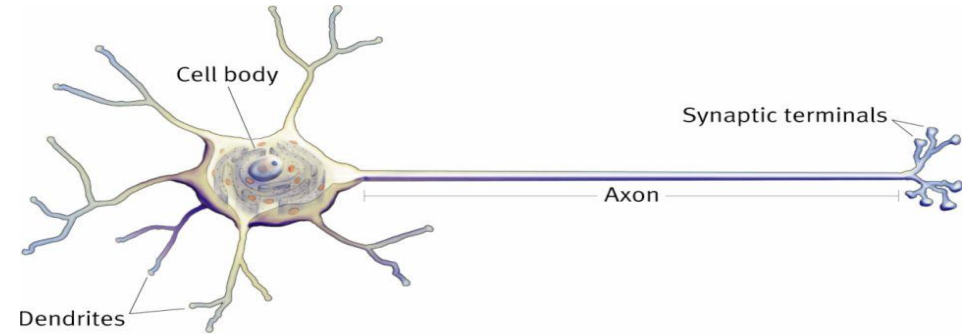
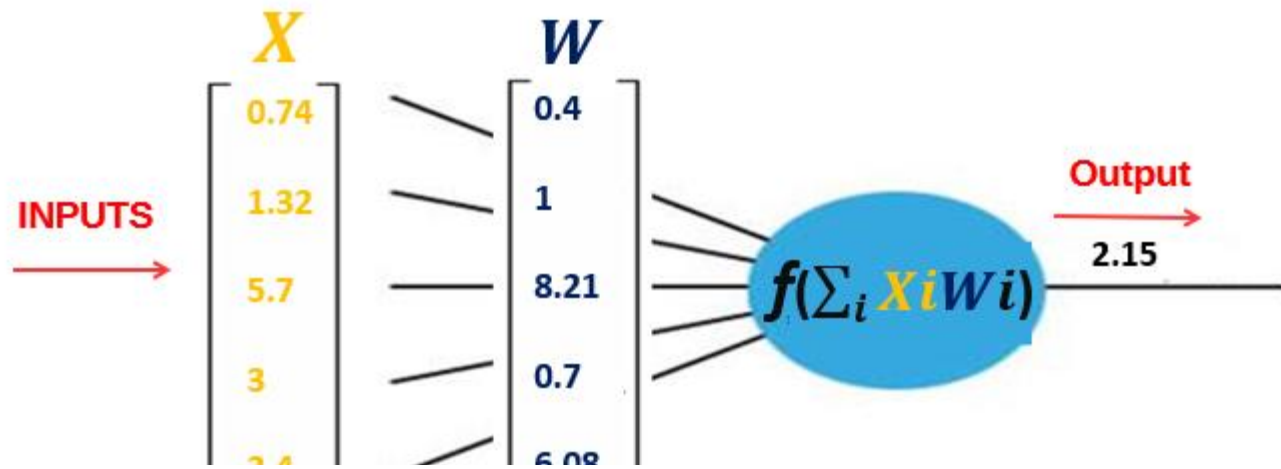


← **PROGRAMMING** ← **MATHS** ←

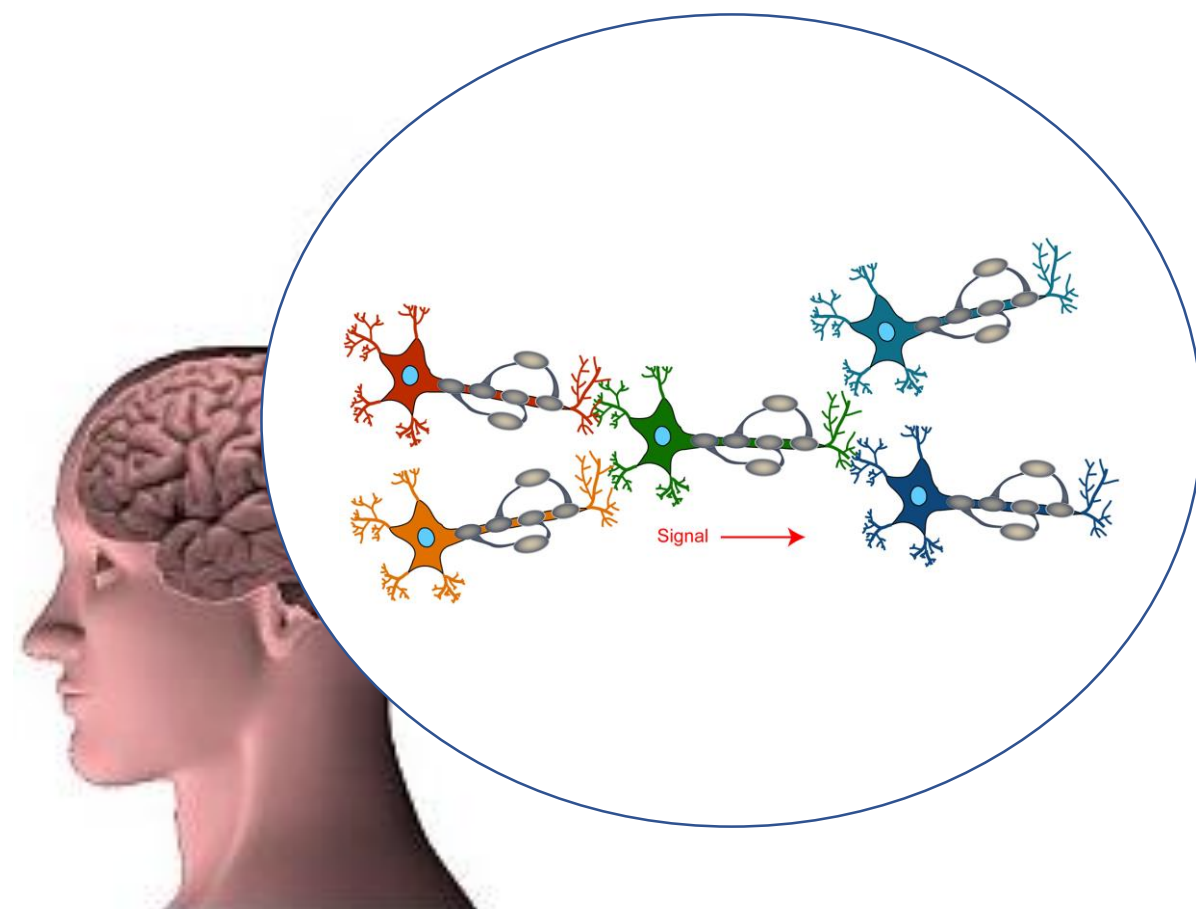
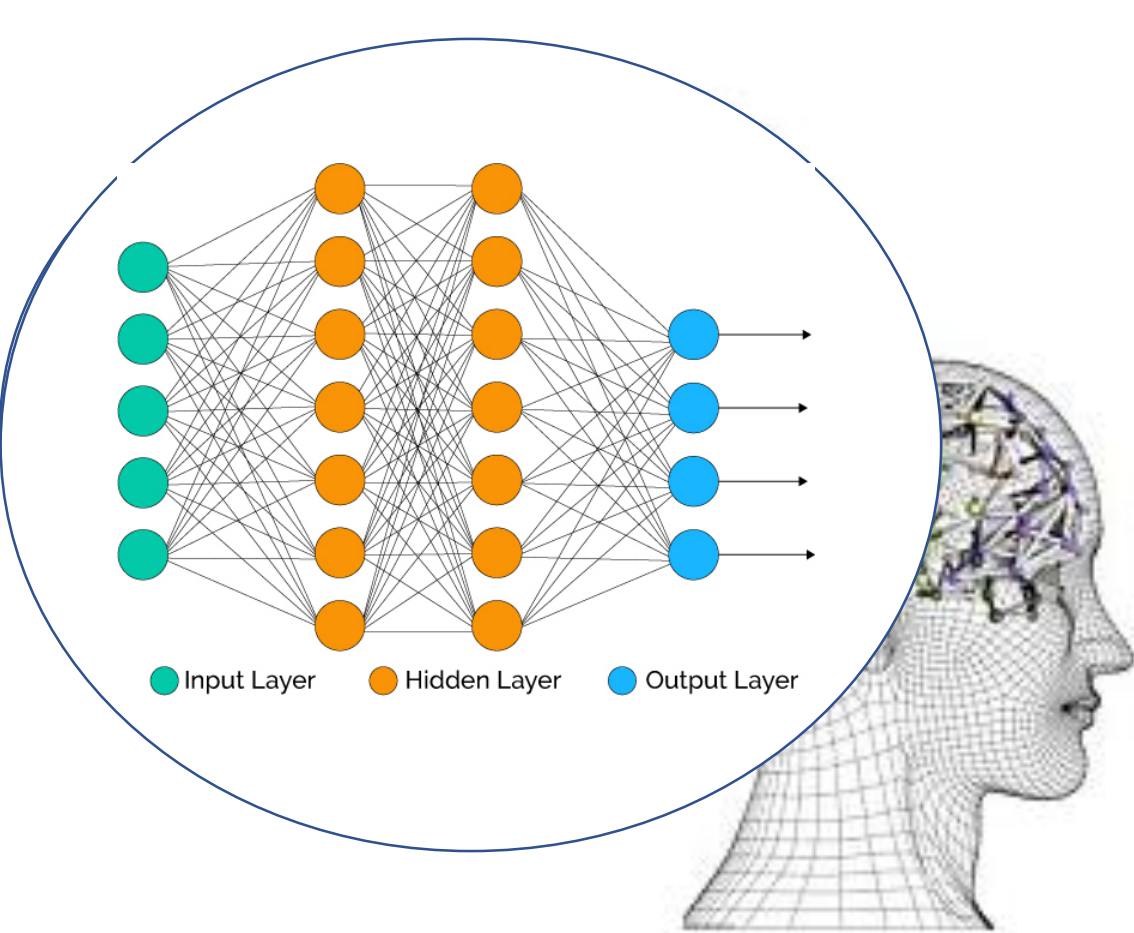


**HUMAN  
LANGUAGE**







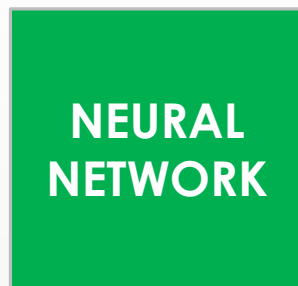


**1. be happy**

**2. think different**

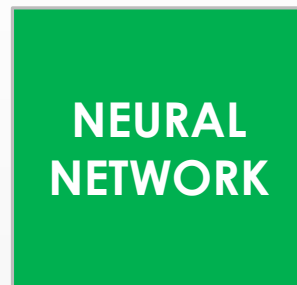


happy



be

different



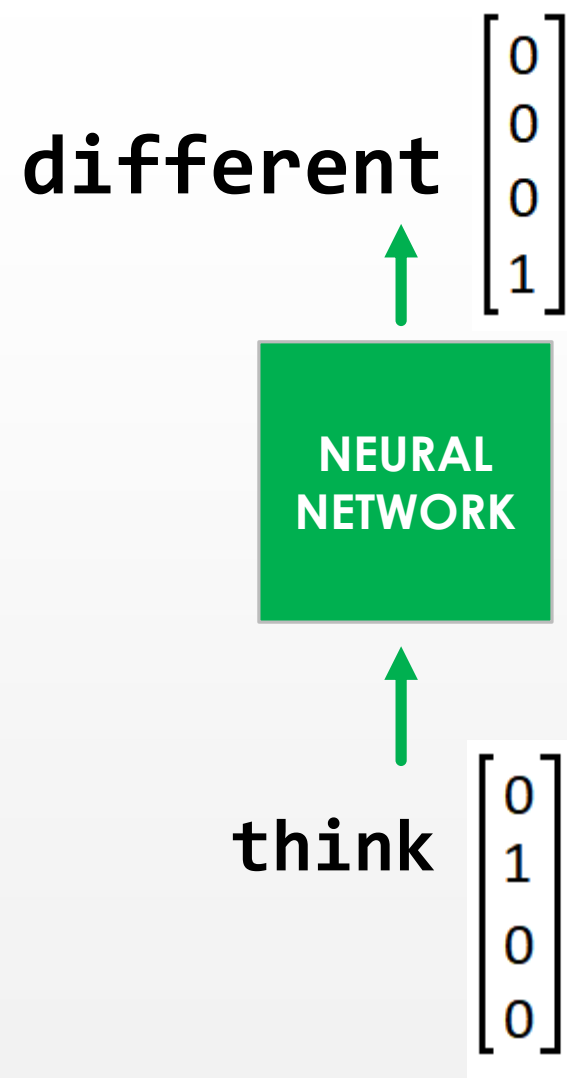
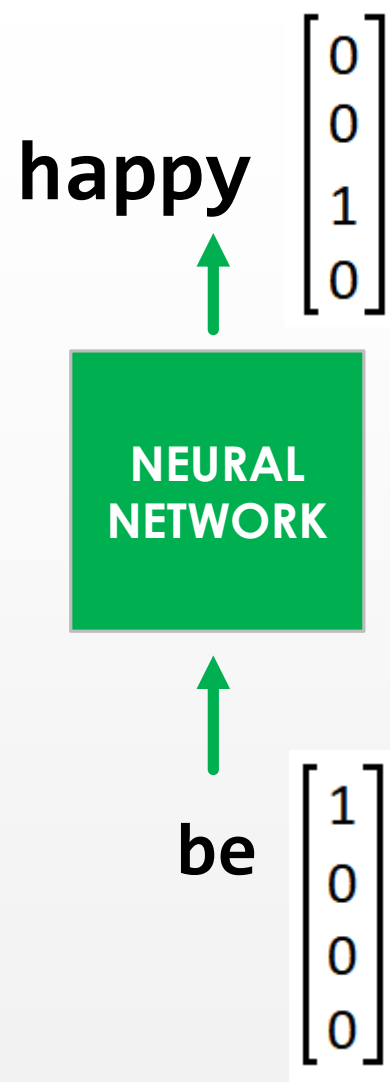
think

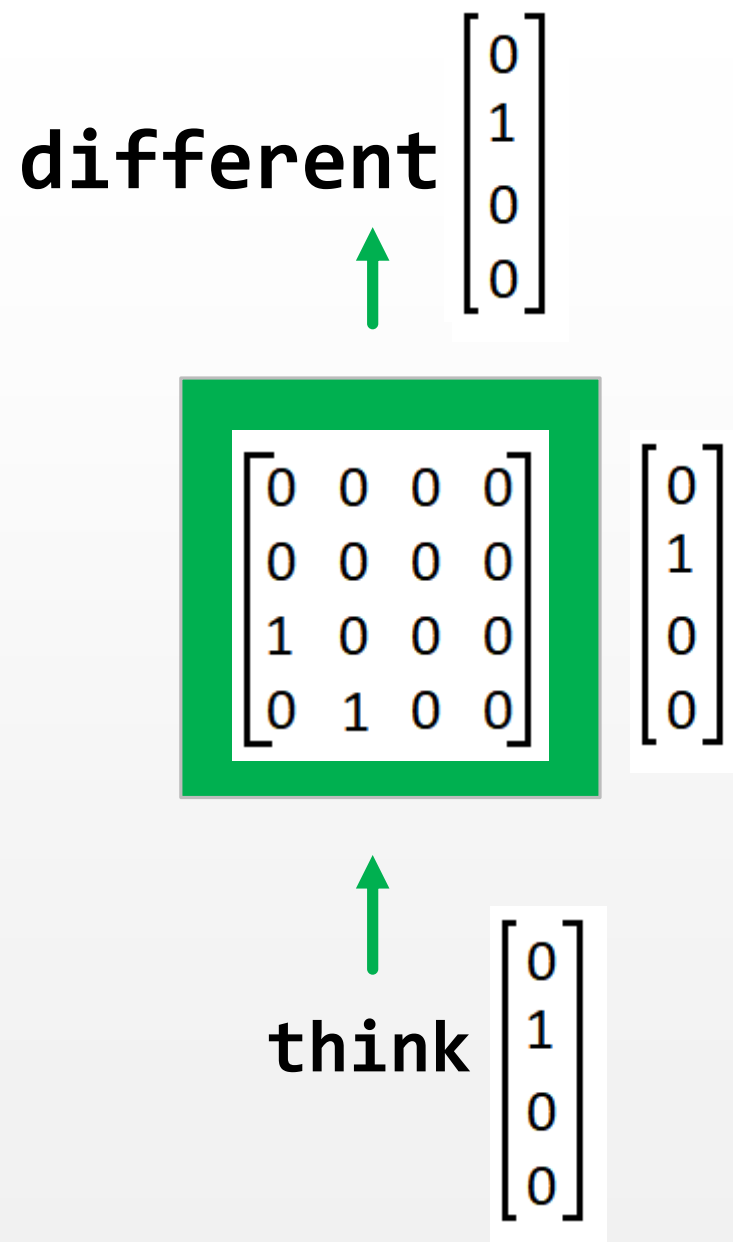
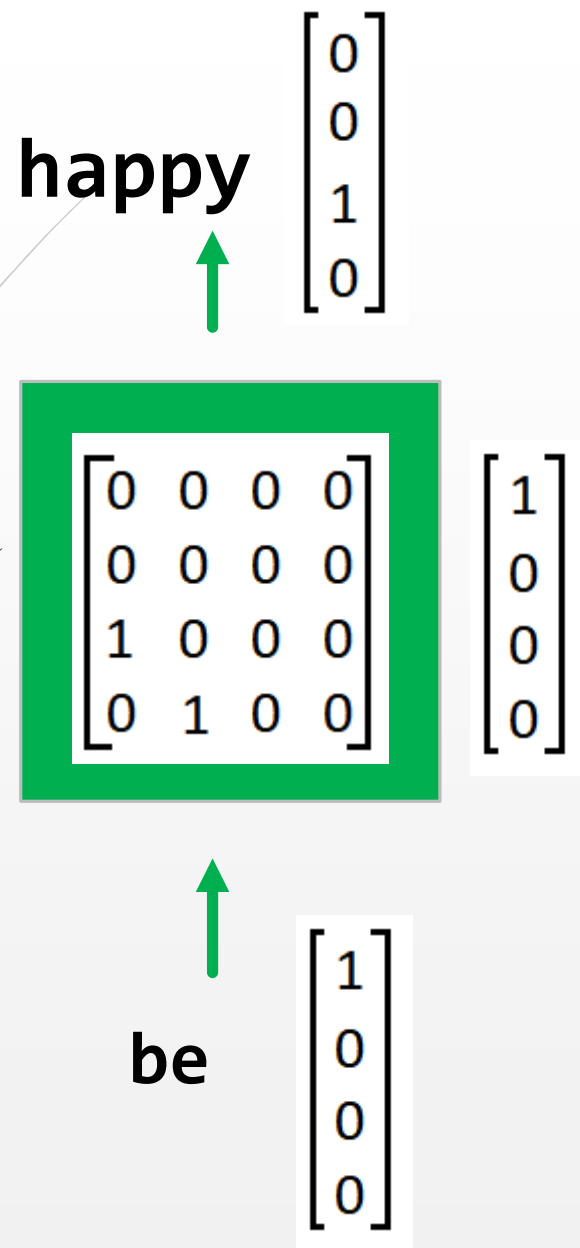
be  $\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$

happy  $\begin{bmatrix} 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}$

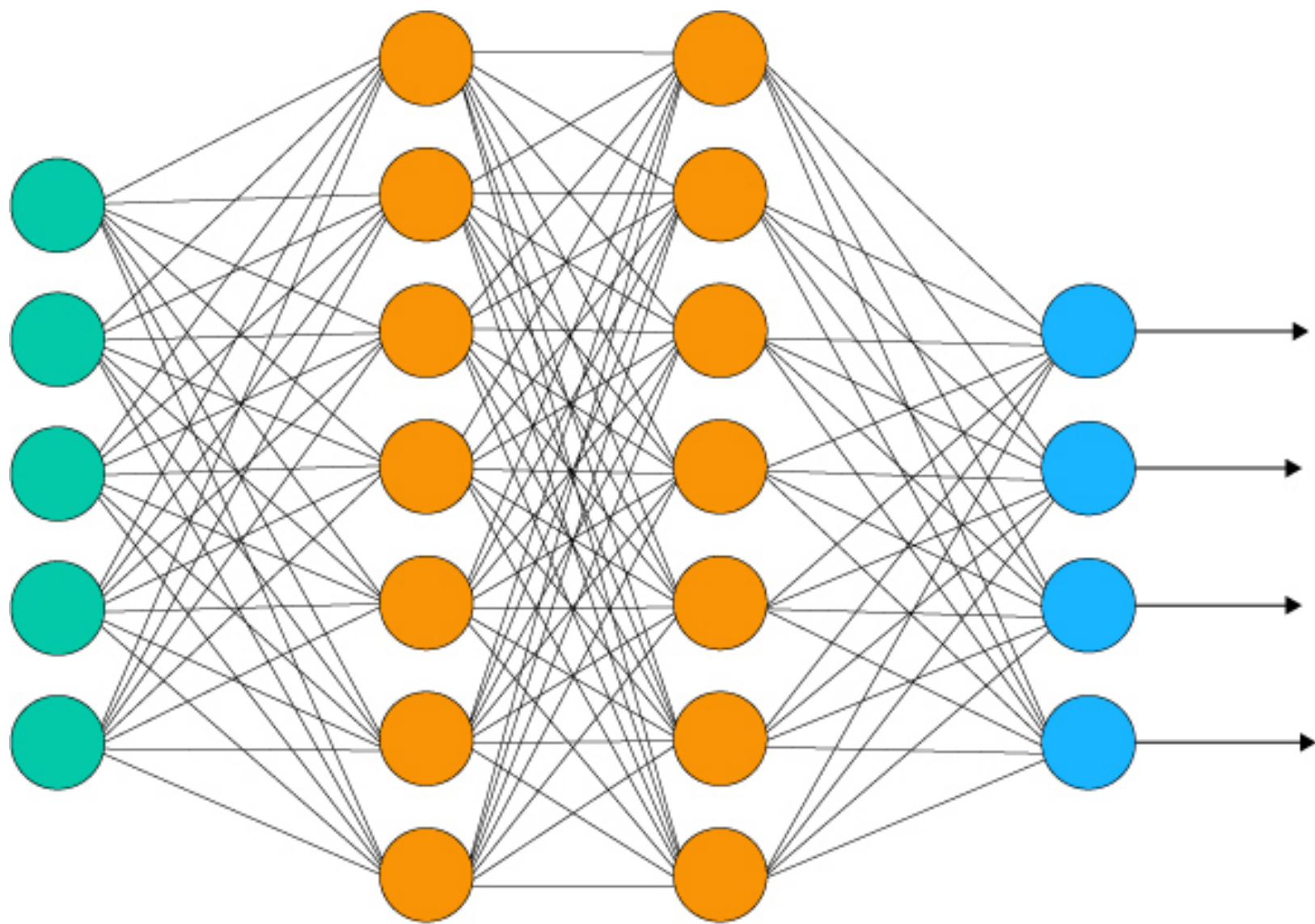
think  $\begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}$

different  $\begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \end{bmatrix}$





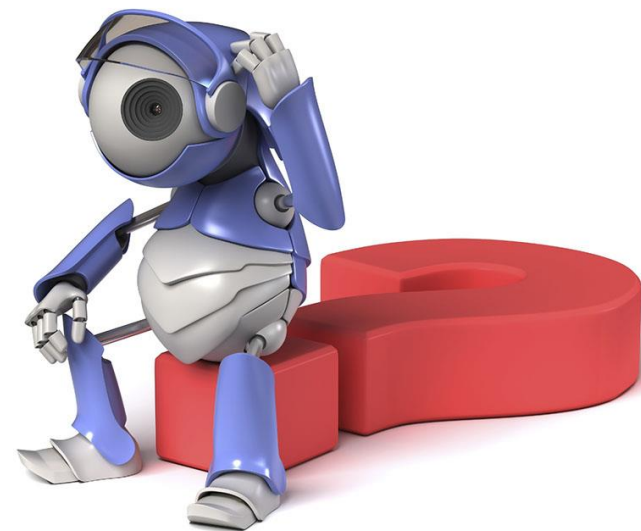


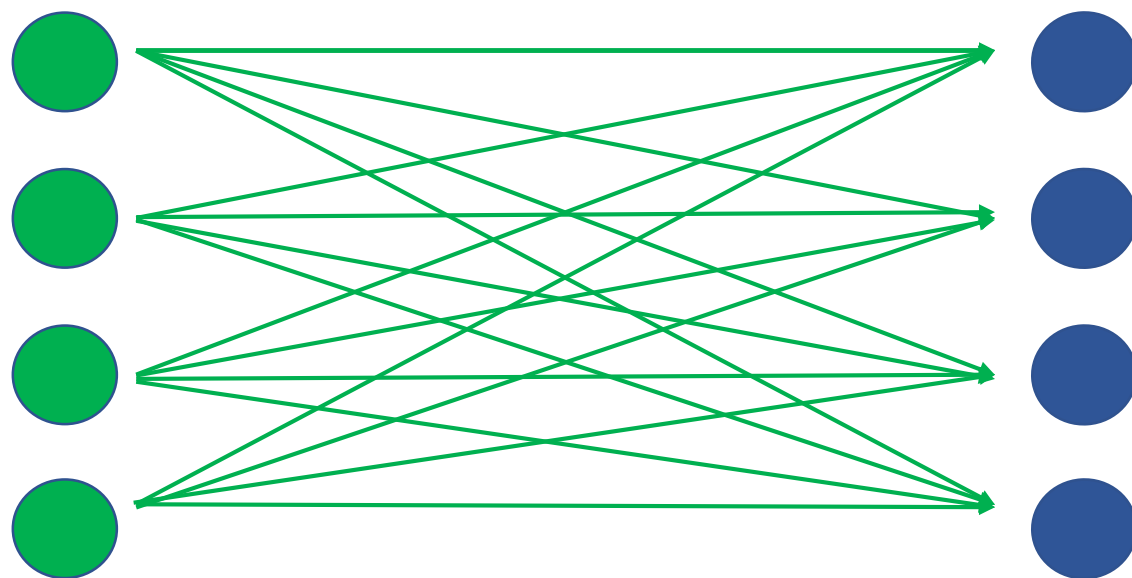


● Input Layer

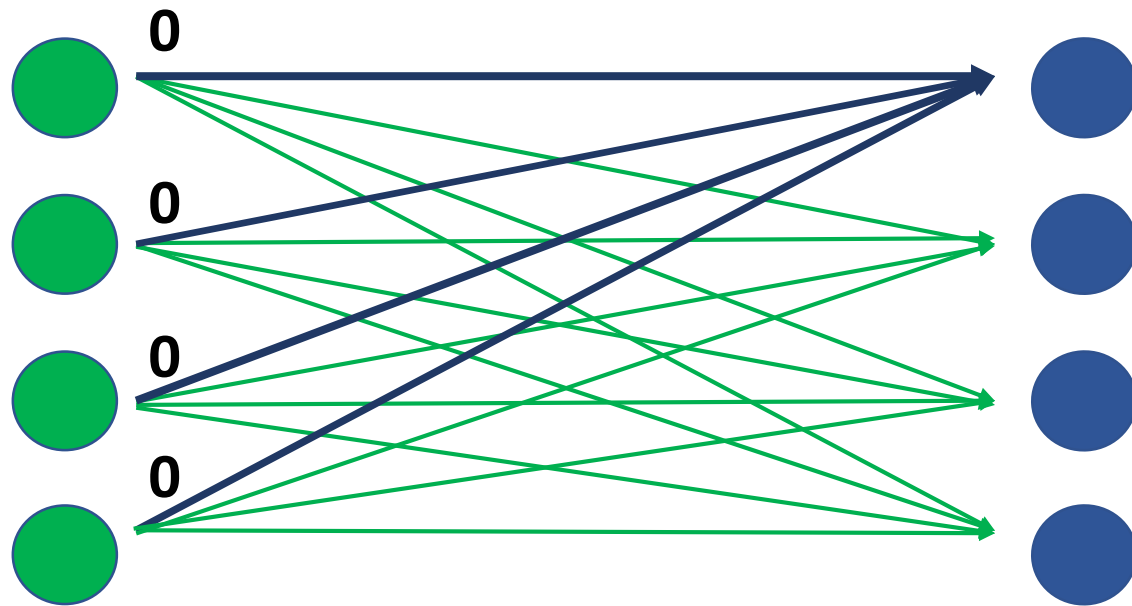
● Hidden Layer

● Output Layer

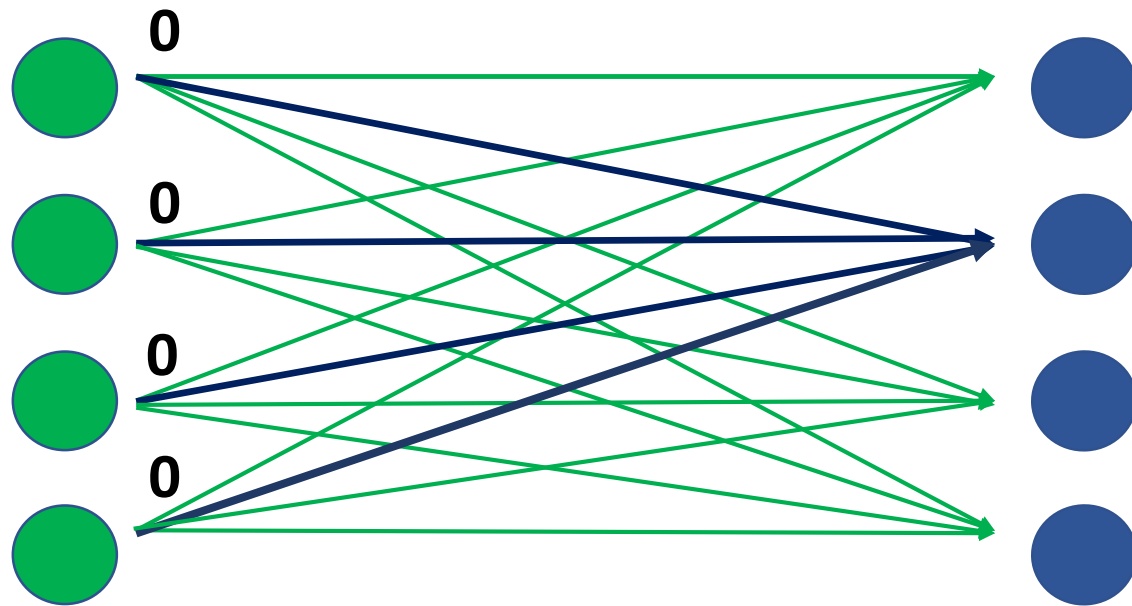




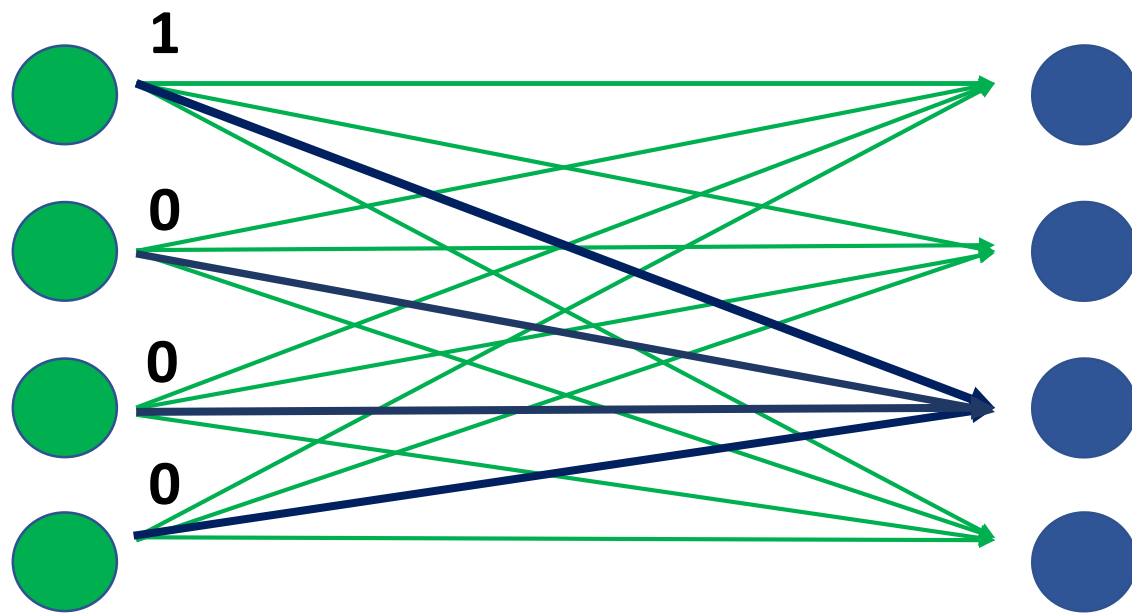
$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$



0	0	0	0
0	0	0	0
1	0	0	0
0	1	0	0

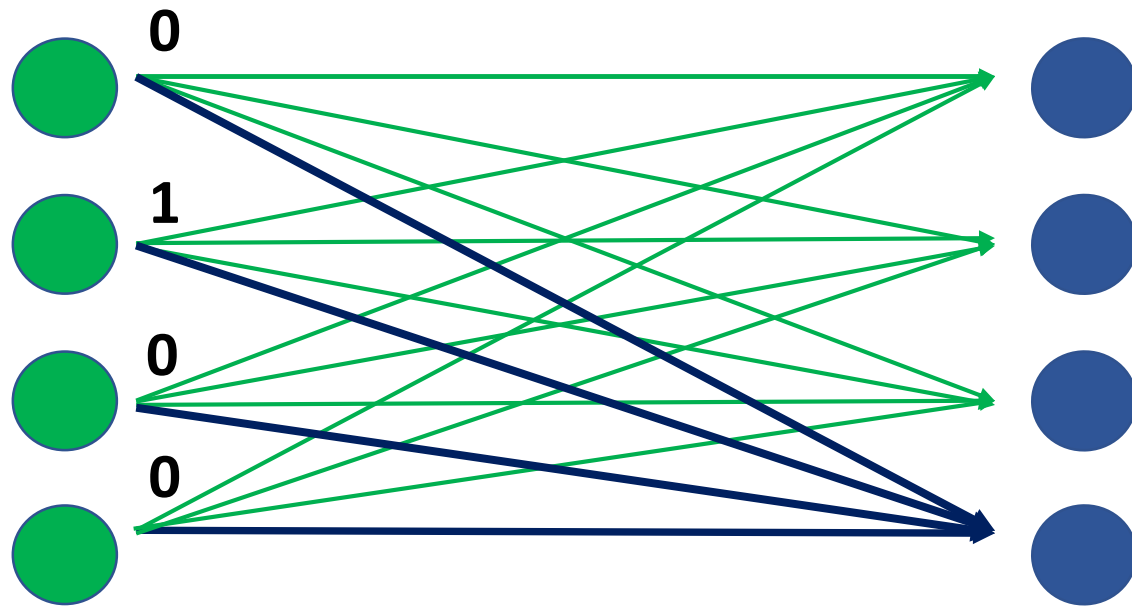


$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$

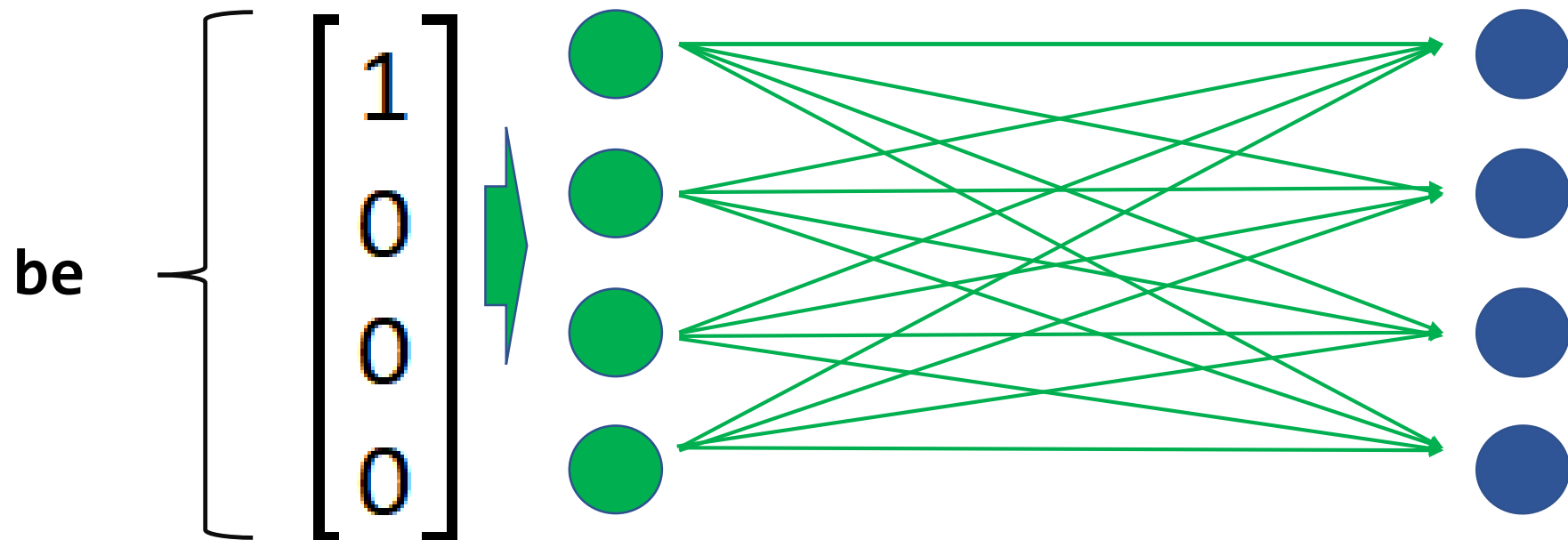


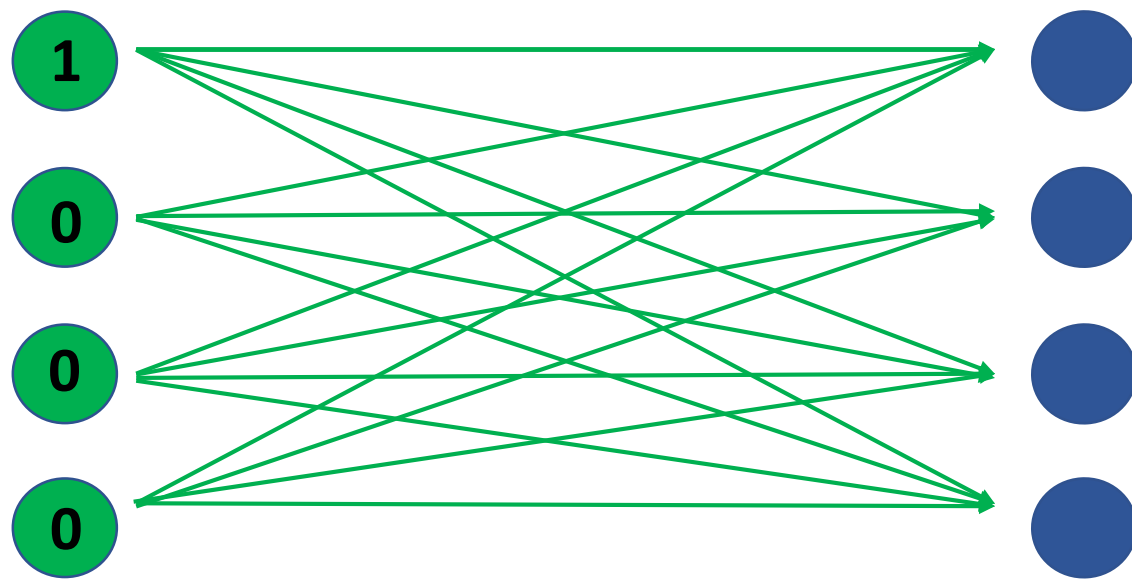
0	0	0	0
0	0	0	0
1	0	0	0
0	1	0	0

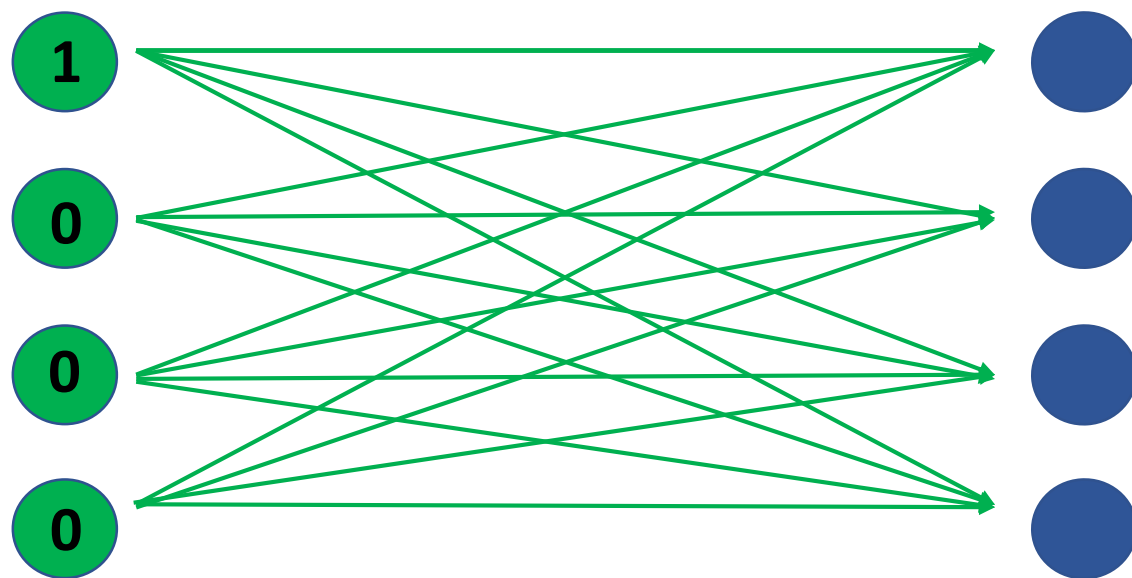




0	0	0	0
0	0	0	0
1	0	0	0
0	1	0	0

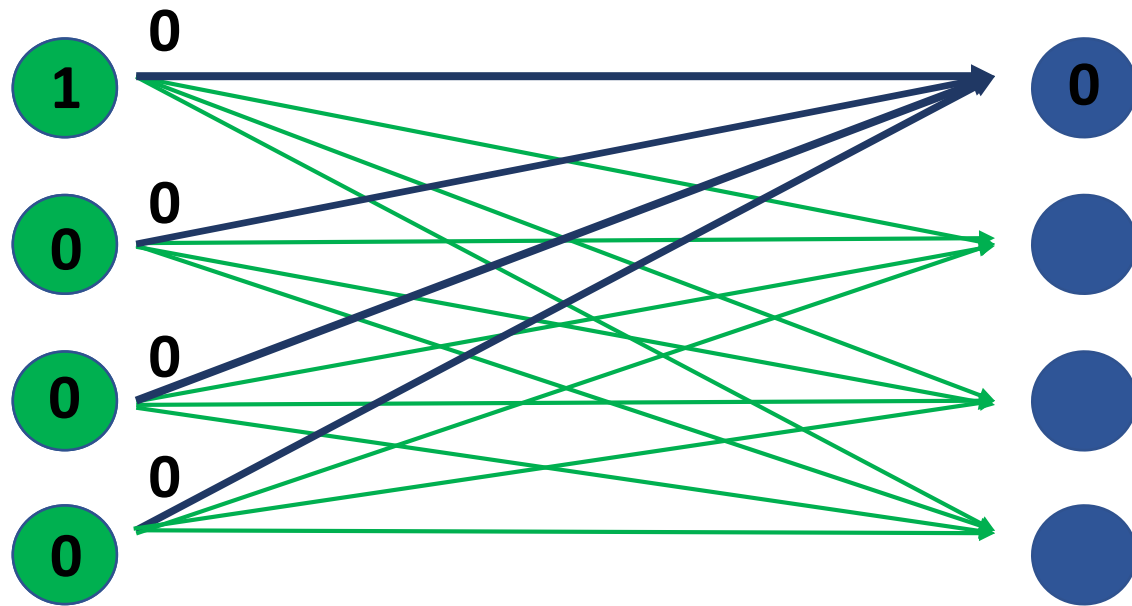






$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

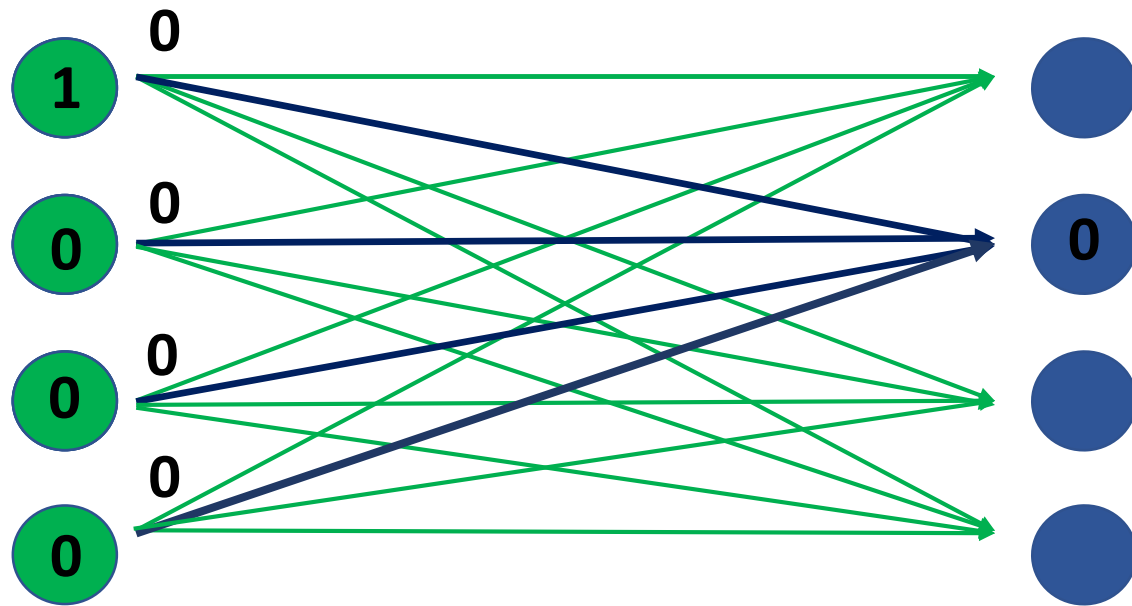
$$1*0 + 0*0 + 0*0 + 0*0 = 0$$



$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

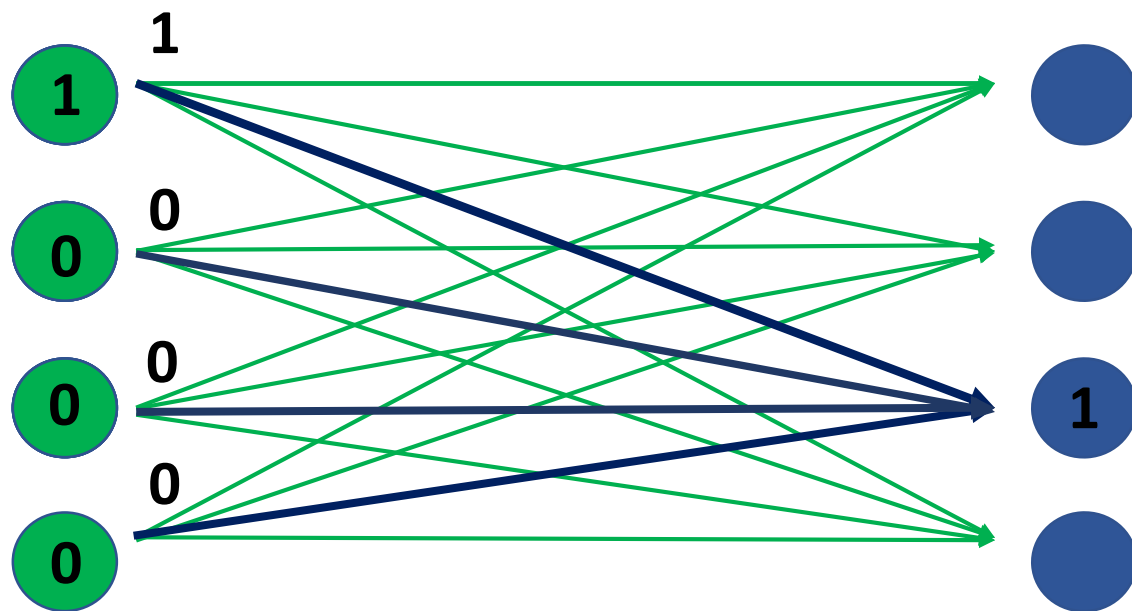


$$1*0 + 0*0 + 0*0 + 0*0 = 0$$



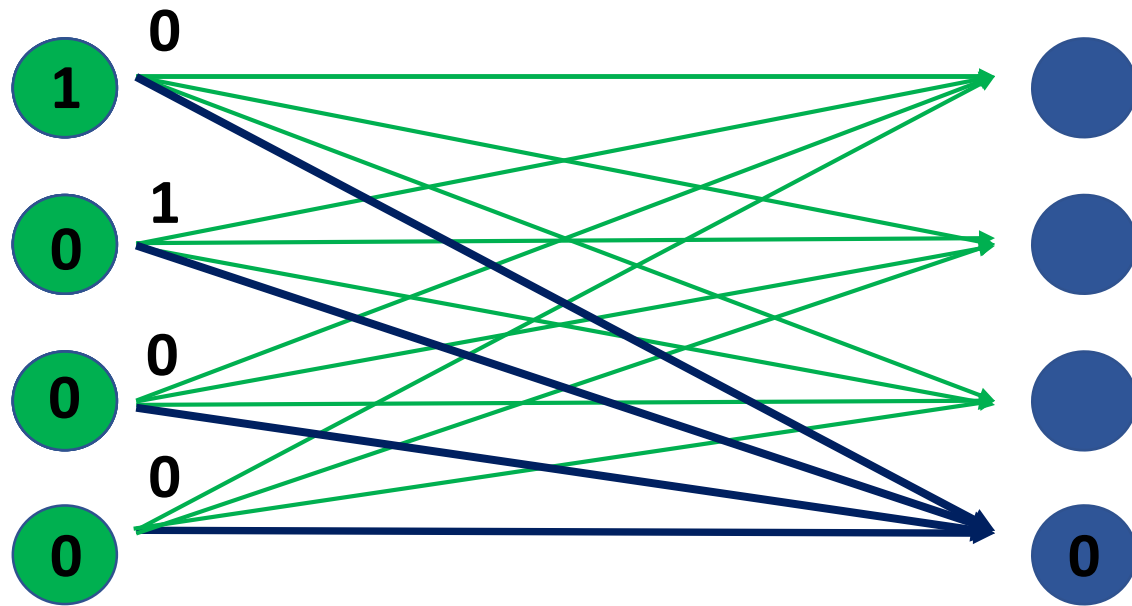
$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$1*1 + 0*0 + 0*0 + 0*0 = 1$$

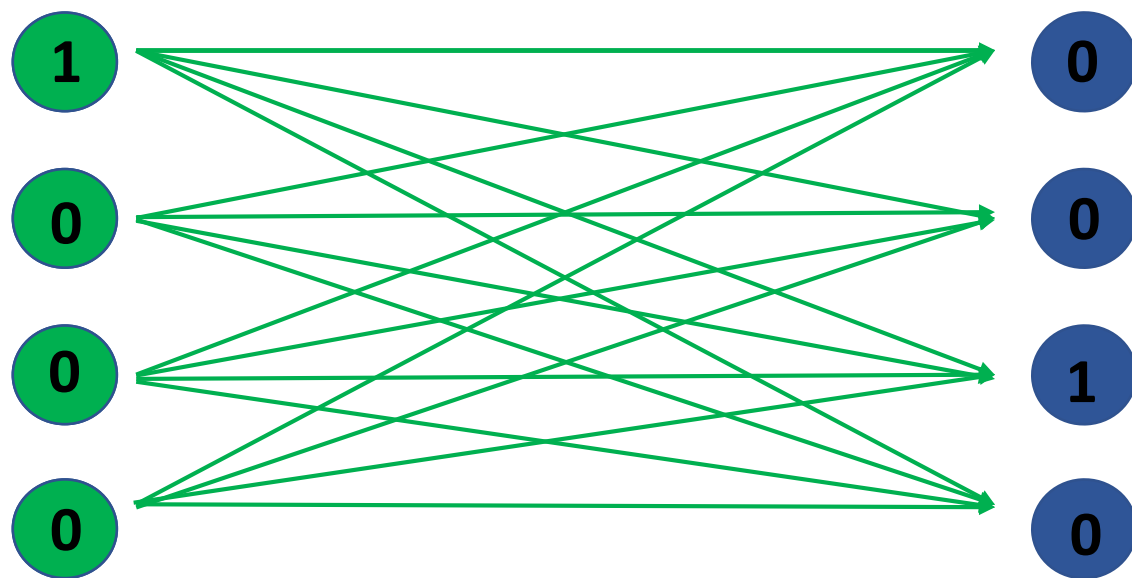


$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

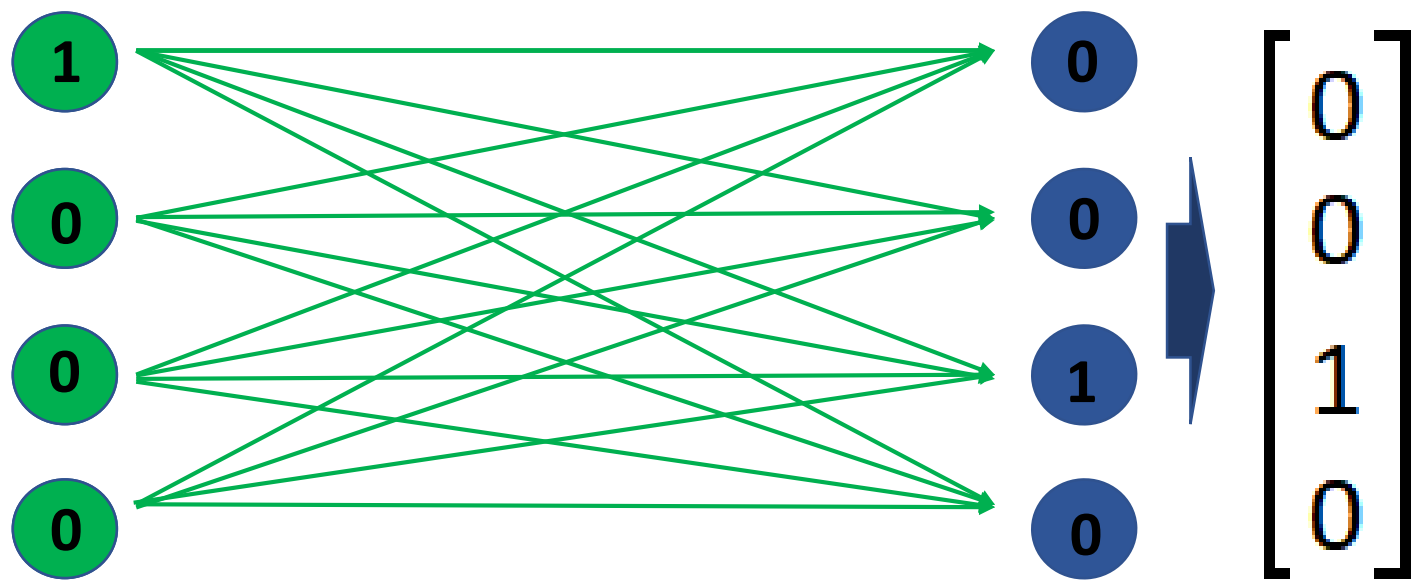
$$1*0 + 0*0 + 0*0 + 0*0 = 0$$



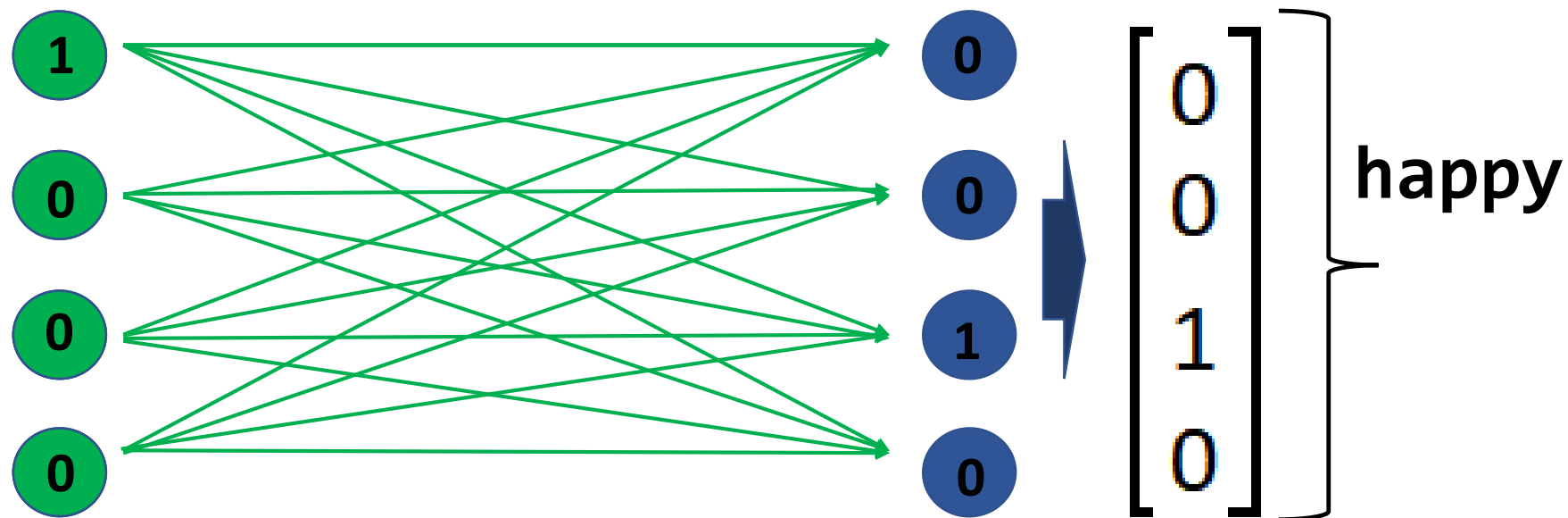
$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$



$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$



$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

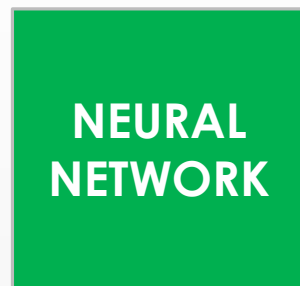


$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} * \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

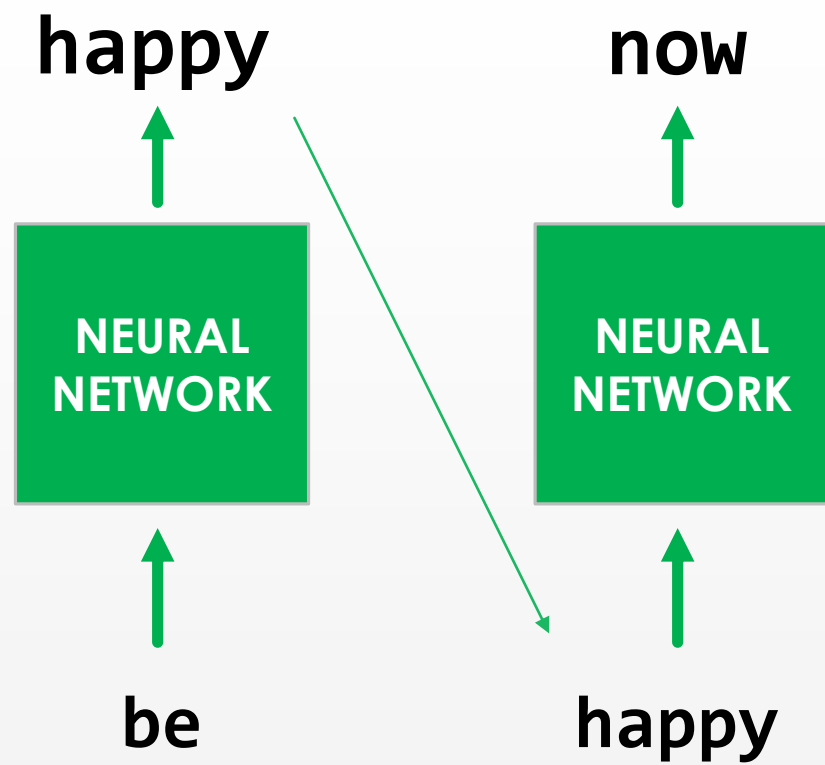


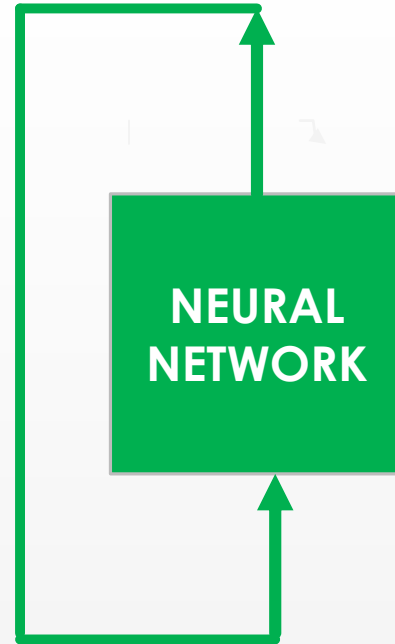
- 1. be happy now**
- 2. think different today**

happy

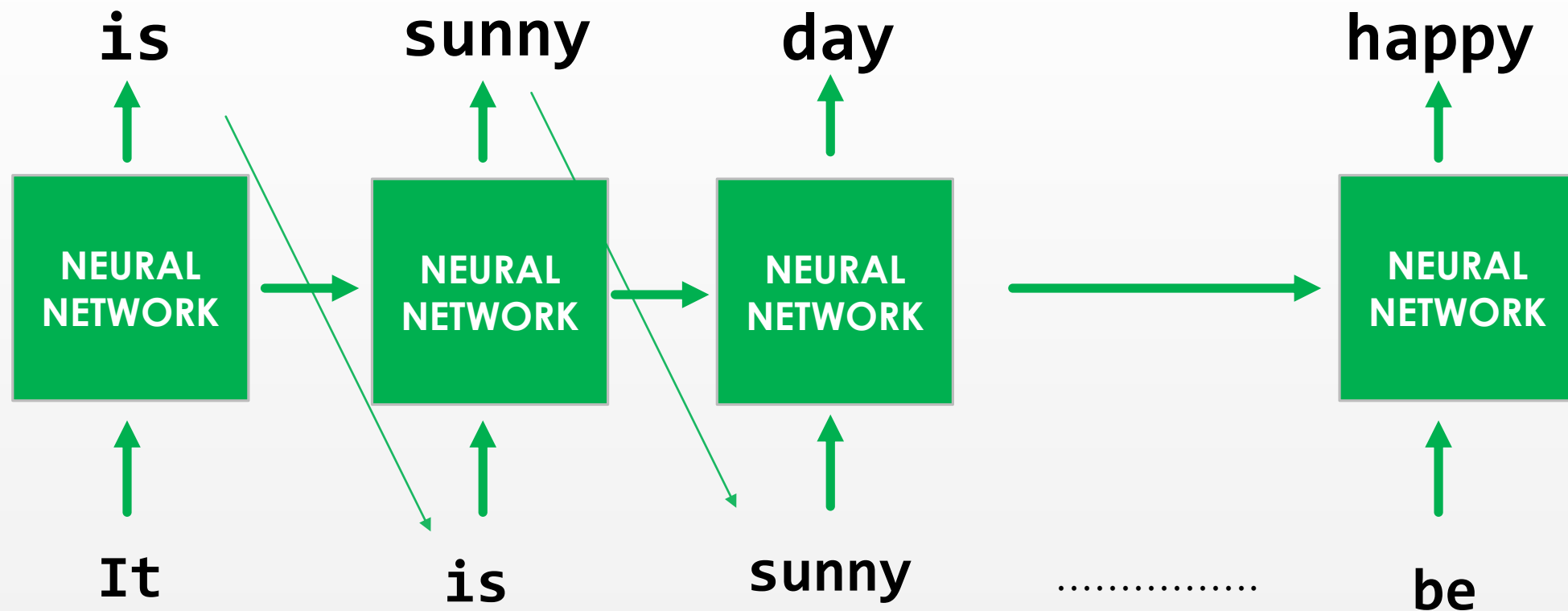


be

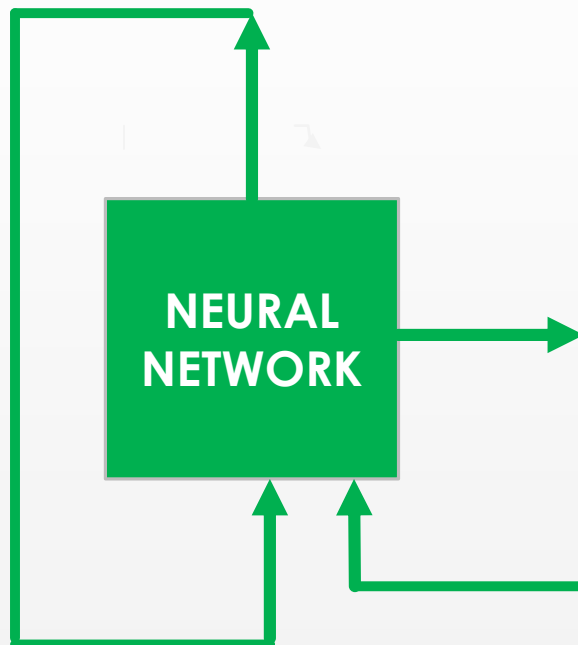


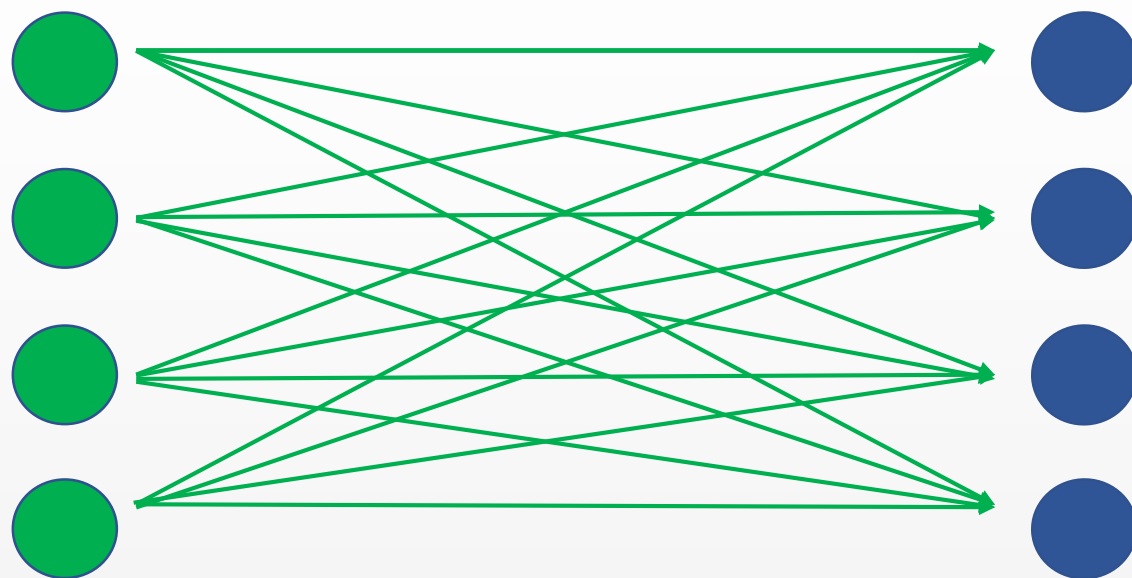


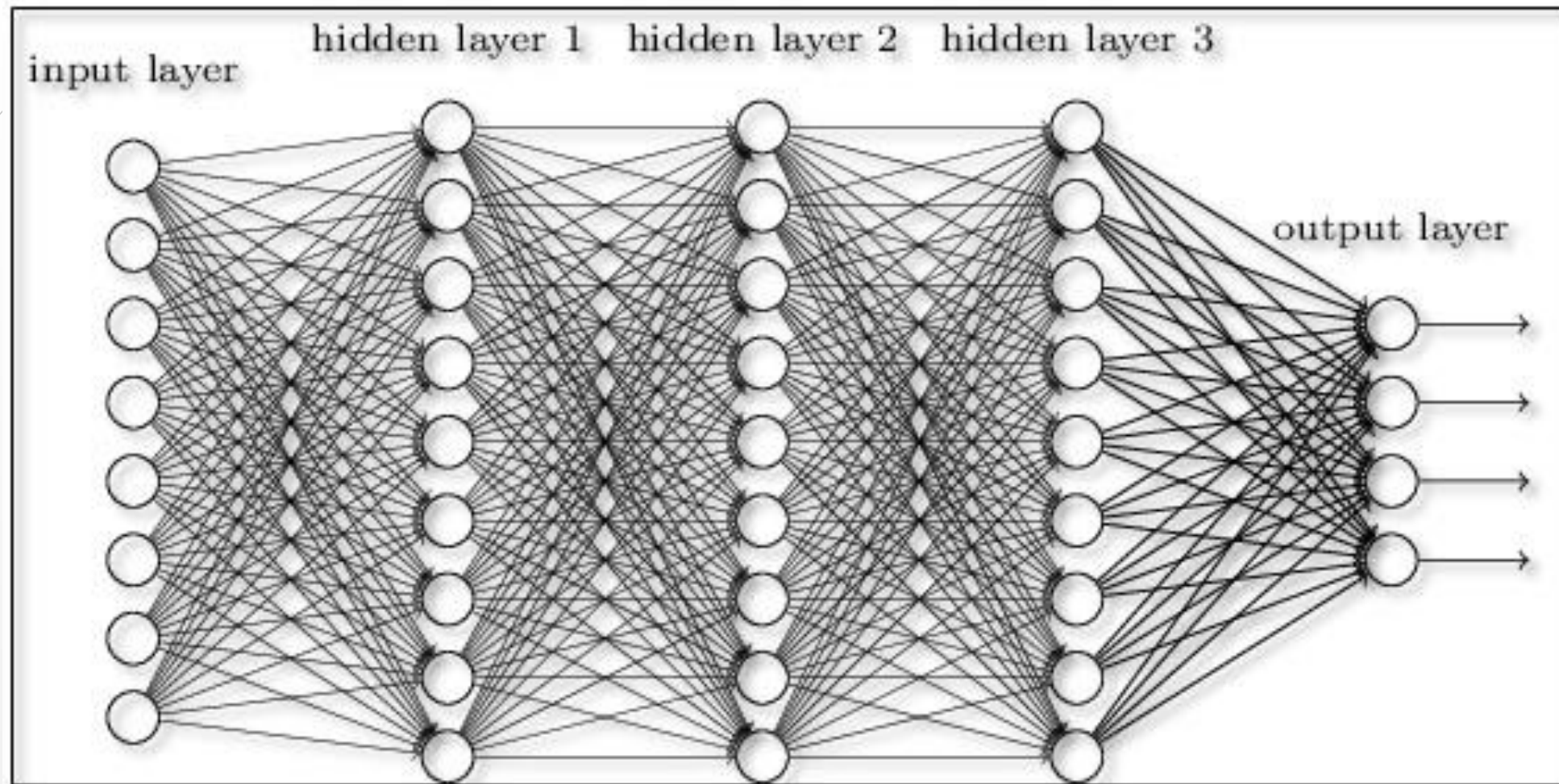
- 1. It is a sunny day so I should be happy now.**
- 2. It is a rainy day so I should be sad now.**

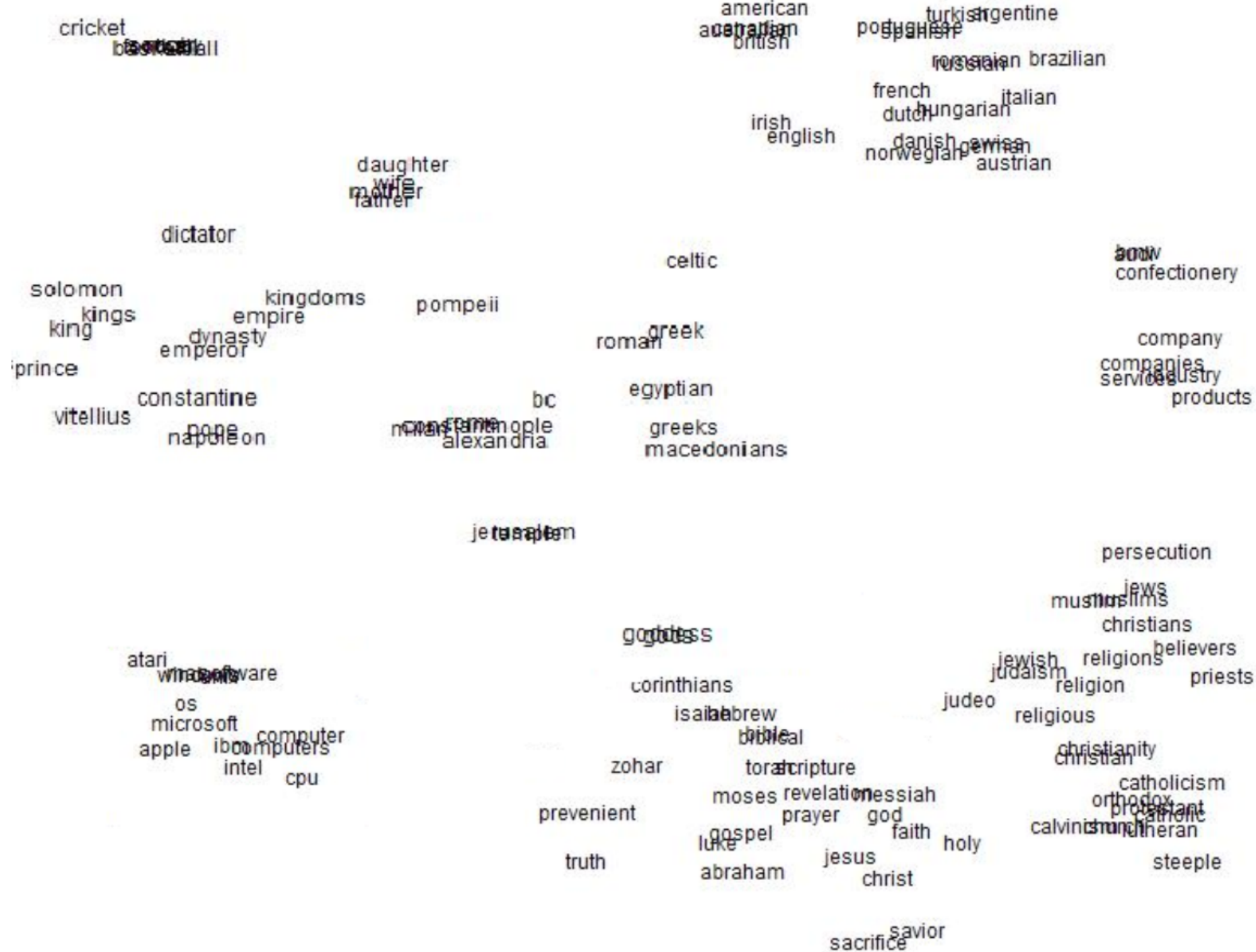












be

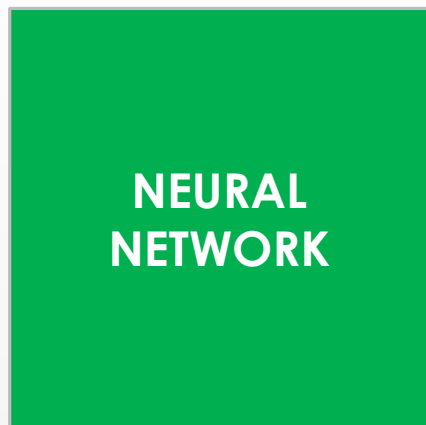
$$\begin{bmatrix} 0.3 \\ 2.1 \\ \cdot \\ \cdot \\ \cdot \\ 3.4 \end{bmatrix}$$


50,100,300...

happy

$$\begin{bmatrix} 7.1 \\ 5.1 \\ \cdot \\ \cdot \\ \cdot \\ 2.5 \end{bmatrix}$$

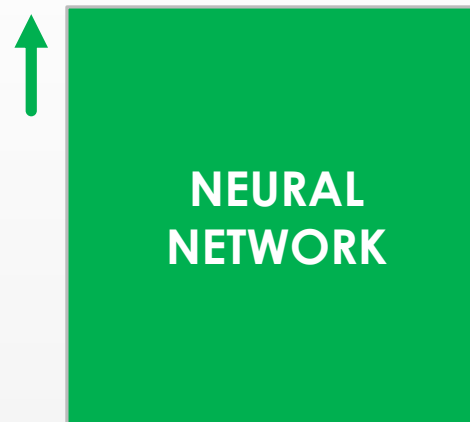
happy  $\begin{bmatrix} 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}$



be  $\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$

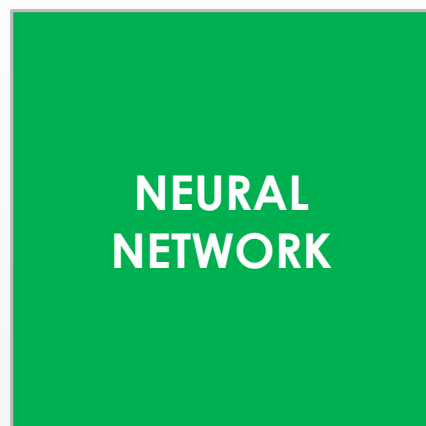
NEURAL  
NETWORK

$[P(\text{happy}) \ P(\text{be}) \ P(\text{think}) \ P(\text{different})]$



be  $\begin{bmatrix} 0.3 \\ 2.1 \\ \cdot \\ \cdot \\ \cdot \\ 3.4 \end{bmatrix}$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \end{bmatrix}$$
$$\begin{bmatrix} P(\text{happy}) & P(\text{be}) & P(\text{think}) & P(\text{different}) \end{bmatrix}$$



be

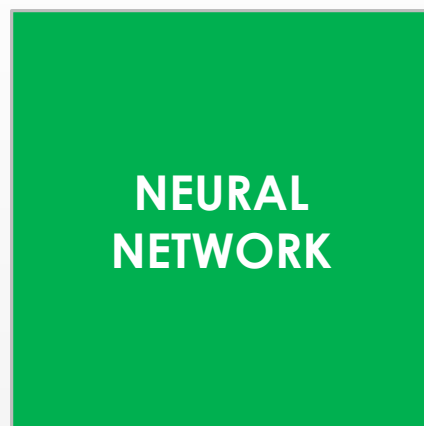
$$\begin{bmatrix} 0.3 \\ 2.1 \\ \cdot \\ \cdot \\ \cdot \\ 3.4 \end{bmatrix}$$



happy

$$\max \begin{bmatrix} 1 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} P(\text{happy}) & P(\text{be}) & P(\text{think}) & P(\text{different}) \end{bmatrix}$$



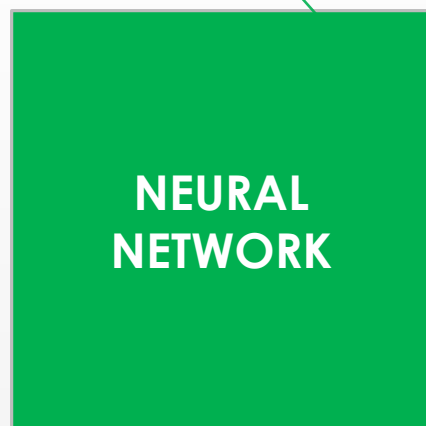
be

$$\begin{bmatrix} 0.3 \\ 2.1 \\ \cdot \\ \cdot \\ \cdot \\ 3.4 \end{bmatrix}$$

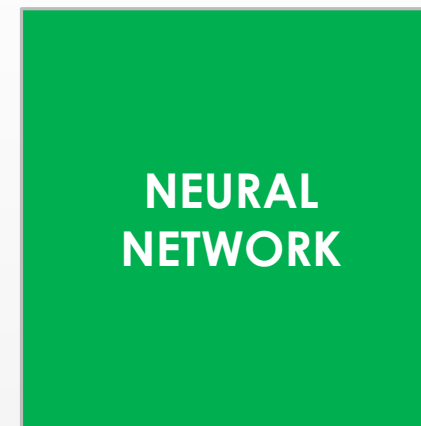
happy

$$\max \begin{bmatrix} 1 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} P(\text{happy}) & P(\text{be}) & P(\text{think}) & P(\text{different}) \end{bmatrix}$$



be

$$\begin{bmatrix} 0.3 \\ 2.1 \\ . \\ . \\ . \\ 3.4 \end{bmatrix}$$


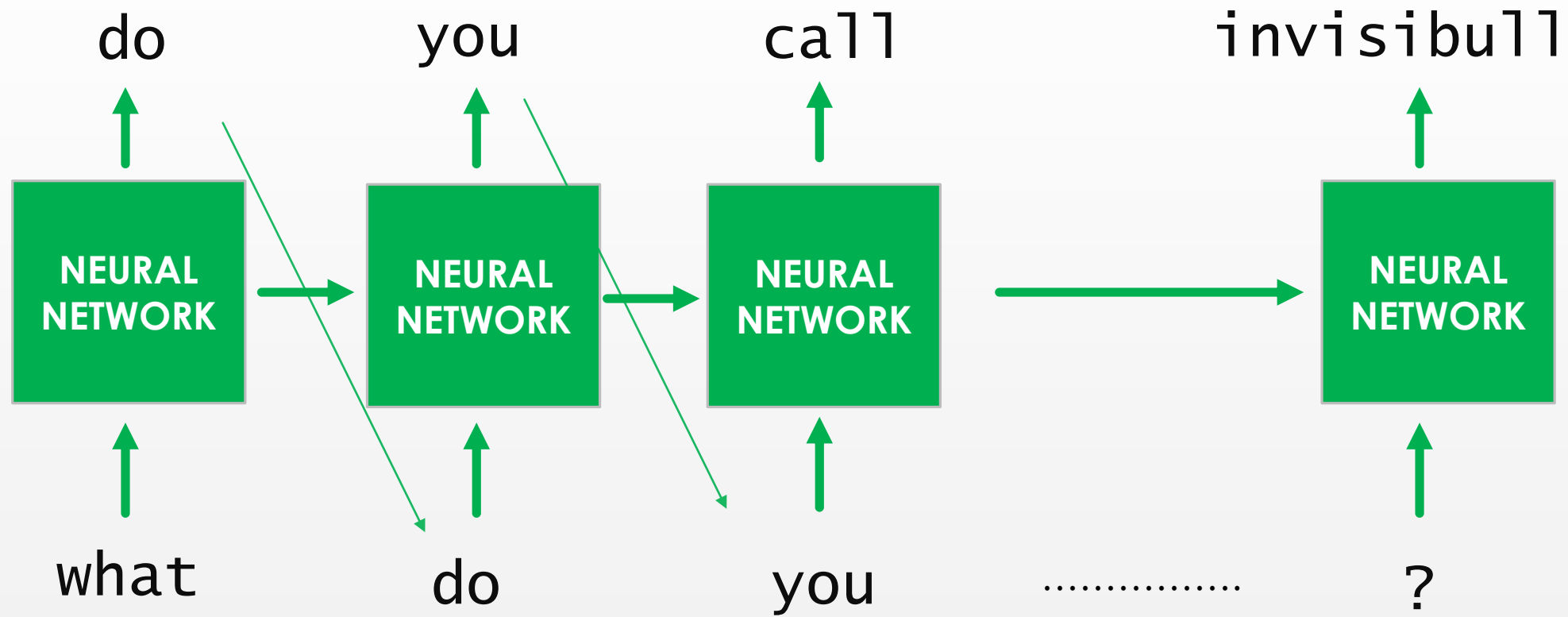
happy

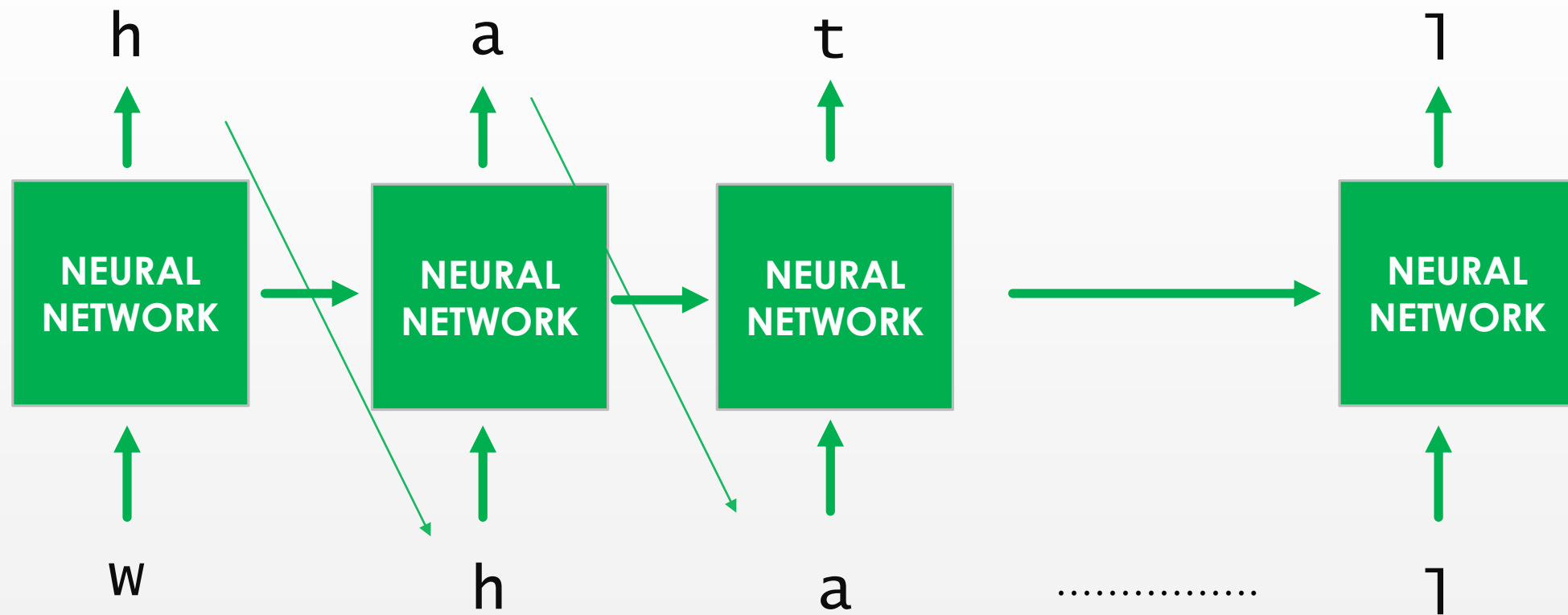
$$\begin{bmatrix} 7.1 \\ 5.1 \\ . \\ . \\ . \\ 2.5 \end{bmatrix}$$

"what do you call a green cow in a field? Invisibull."

"what do you call bacteria that can swim fast? Micro Phelps."







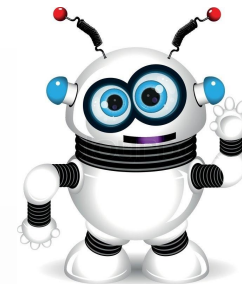
**What?**

**Intelligence**

**How?**

**When?**

**What?**



# **Intelligence**

**How?**



**When?**



# INTELLIGENCE IS NOT THE ONLY POWER







**KEEP  
CALM  
AND  
JOIN  
NIRI**