

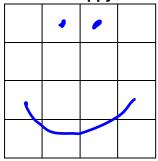


Digital Mirror

Am I friend or foe?

How does a Computer See

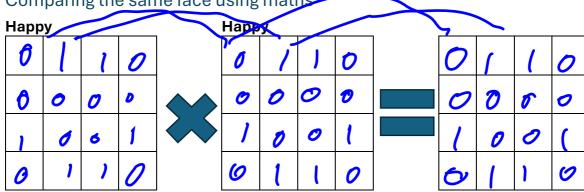
Sketch a **Happy** face



Write a Happy face as 0 and 1s

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

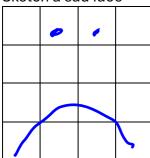
Comparing the same face using maths



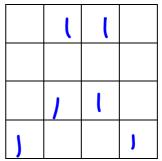
So what does Happy x Happy = \square

Add all the numbers together.

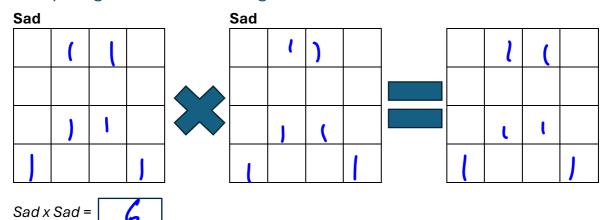
Sketch a sad face



Write a sad face as numbers



Comparing the same face using maths



Comparing the same face using maths

Happy Sad

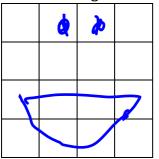
$$Happy x Sad =$$

What faces are most alike?

Happy, sad and Delighted



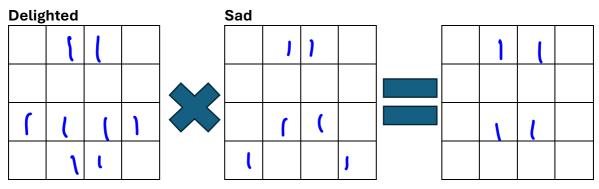
Sketch a Delighted face



Write a Delighted face as numbers

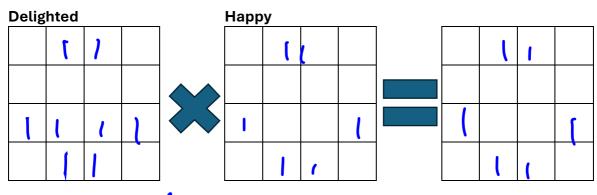
	1	J	
(1	·	
	Ţ	1	

Comparing the more faces using maths

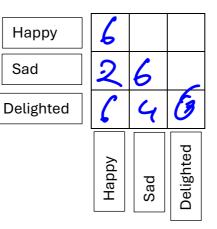


Delighted x Sad =

Comparing the same face using maths



Delighted x Sad =



Going from 2D to 1D

	0	
HAPPY 0 1 10	• 1 • 0	Vector.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	- \(\begin{aligned} \cdot \\ \theta \\ \theta \end{aligned}	
	1	