

EASY
TRANSLATION FOR
THE

BRAILLE

ALPHABET

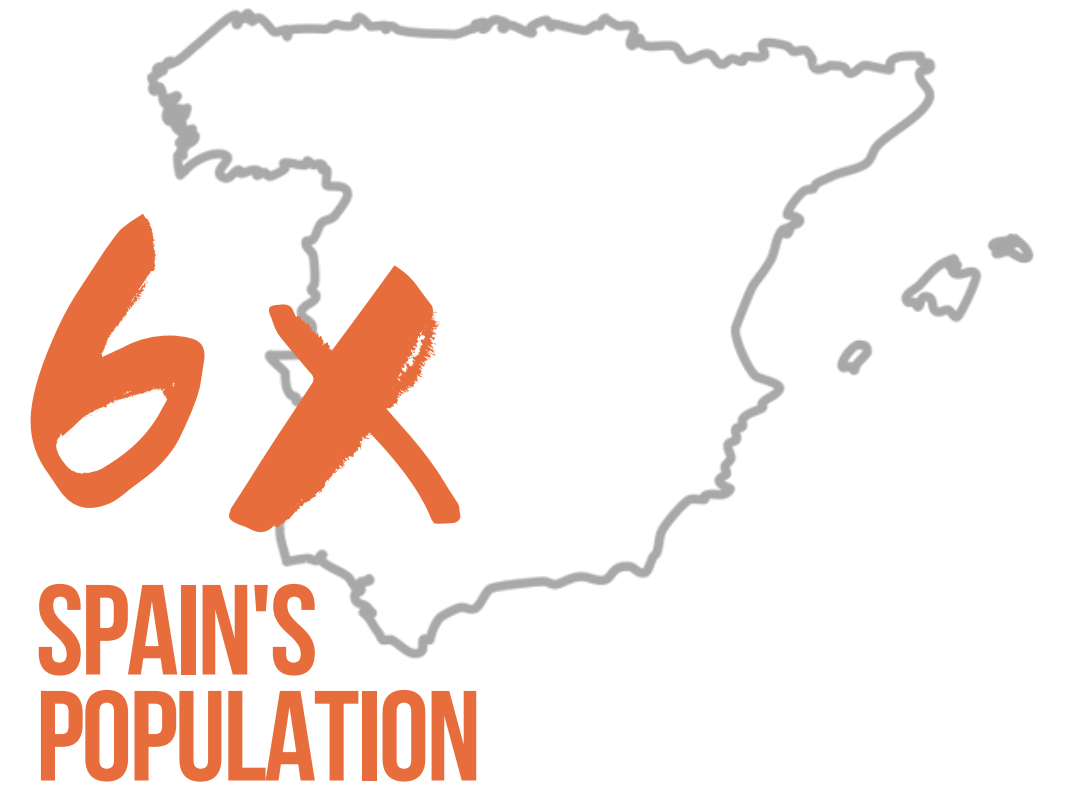


IRON HACK
2020

BLANCA DE OCHOA

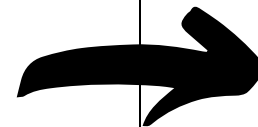
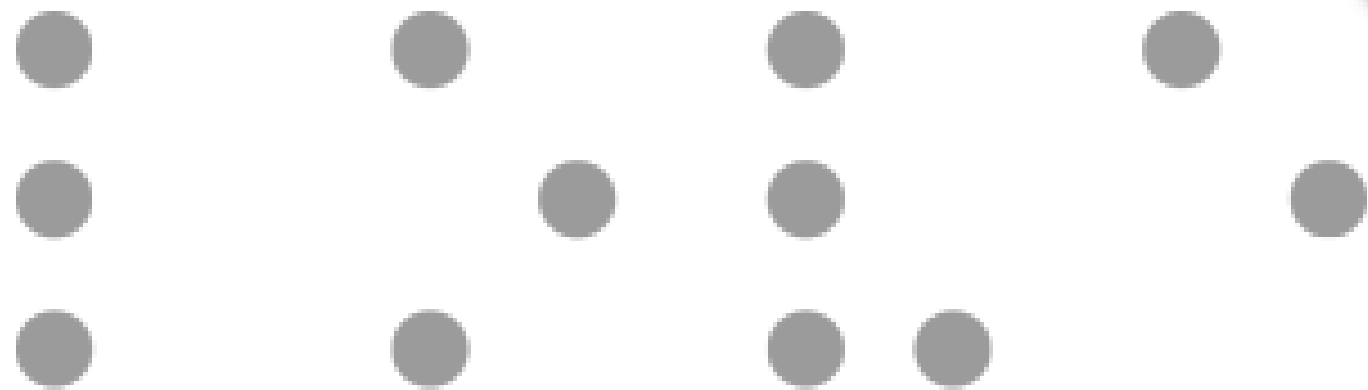


285 M



USING DEEP LEARNING

FROM THIS



TO THIS

LOVE

PROJECT STRUCTURE

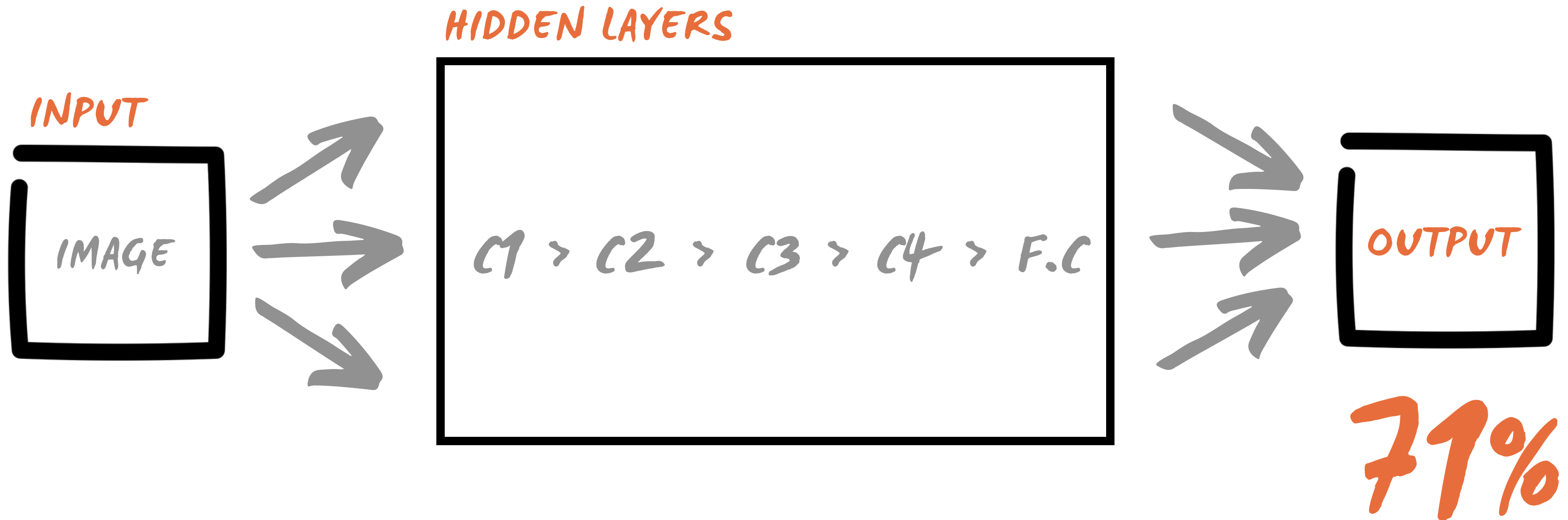
```
graph TD; A[PROJECT STRUCTURE] --> B[01 TRAINING THE MODEL...]; A --> C[02 PREDICT CHARACTERS...]; A --> D[03 PREDICT WORDS...];
```

01 TRAINING
THE MODEL
...

02 PREDICT
CHARACTERS
...

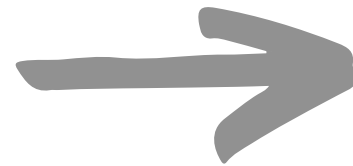
03 PREDICT
WORDS
...

TRAIN THE MODEL



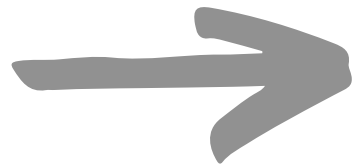
PREDICT CHARACTERS

* *Img size*



THE SIZE HAS TO BE 28X28

* *Grayscale*



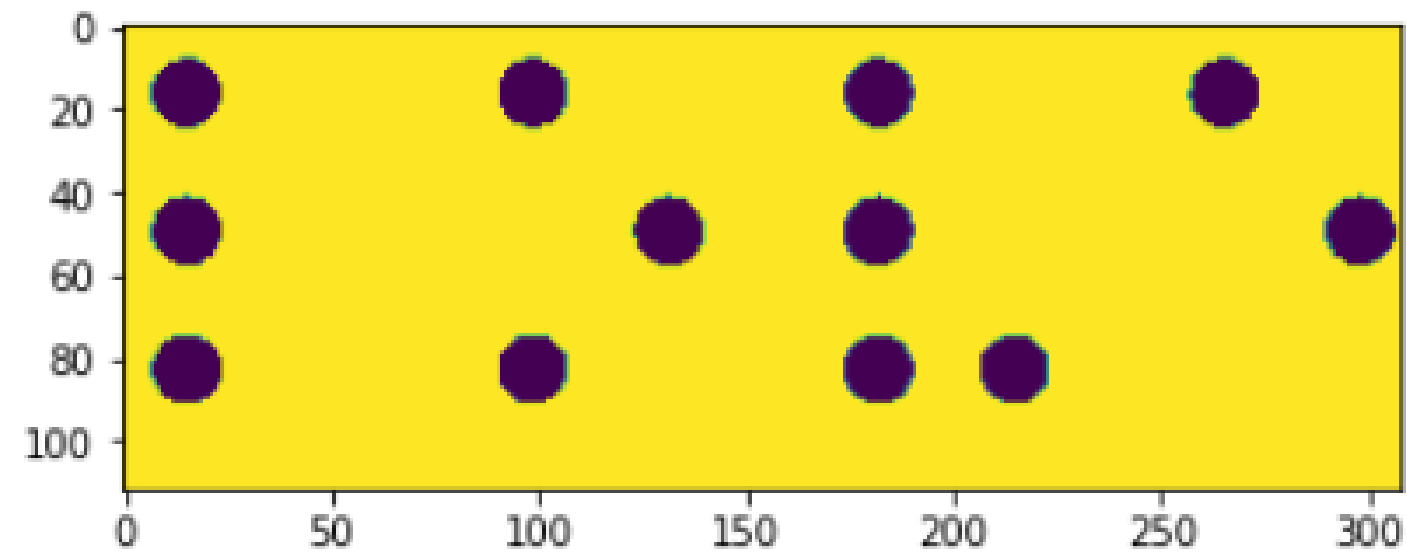
FROM 3 CHANNELS (RGB), TO 1 CHANNEL

* *Reshape
1./255*

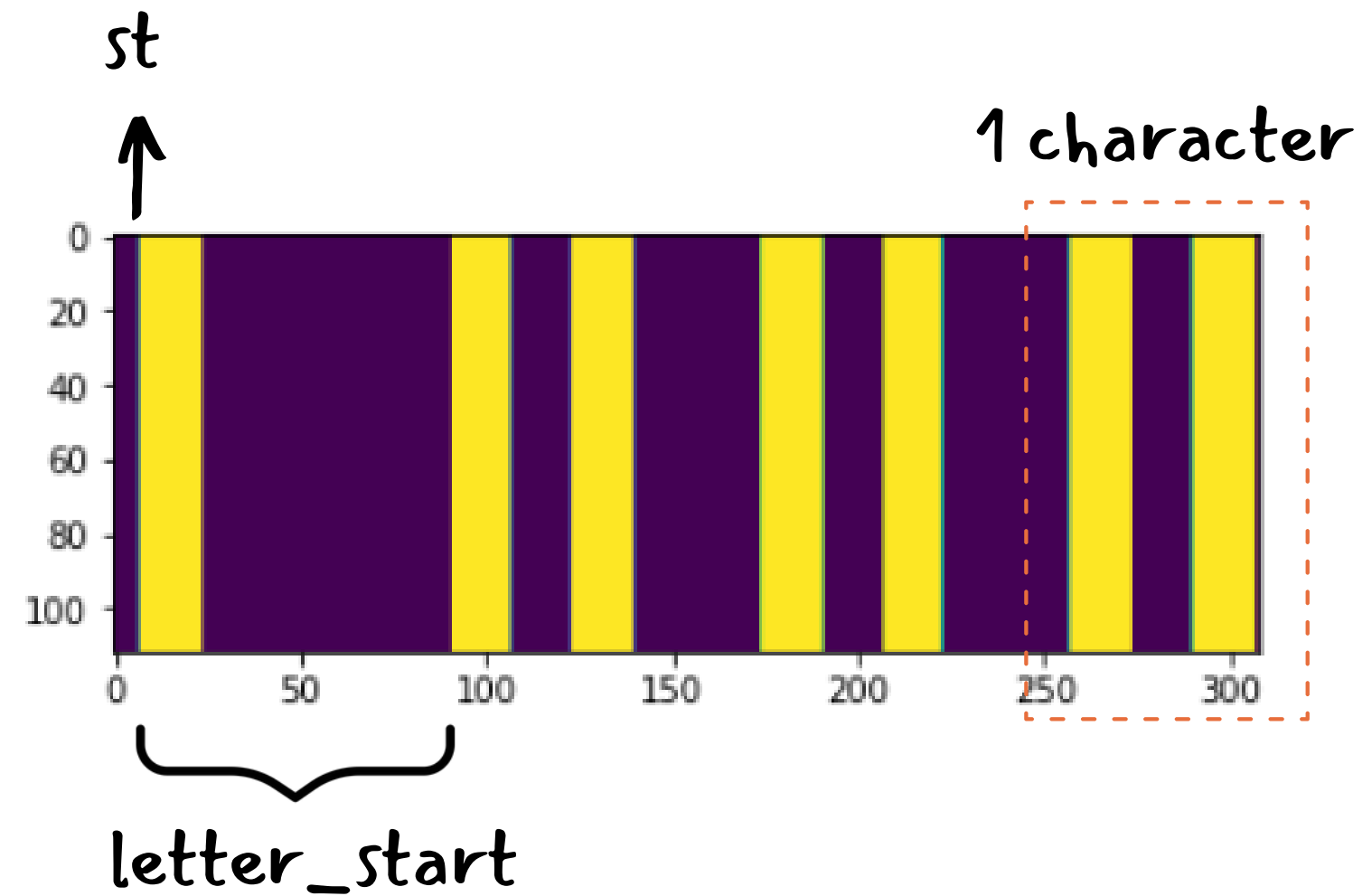
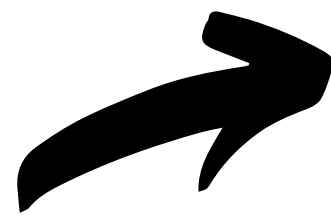


SO VALUES ARE IN BETWEEN 0 AND 1

PREDICT WORDS

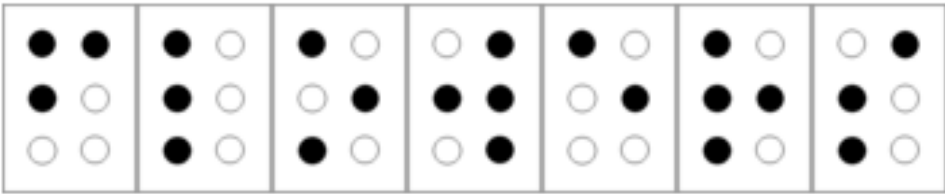


* Transform all the img values into 0 or 1

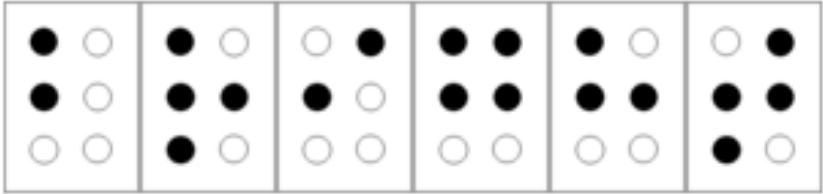


```
sep_letters = []  
  
arr = np.array(image_original)  
for st in letter_start:  
    left = int(st-thick_col/2)  
    left = left if left >= 0 else 0  
    right = int(st+dist_mean+thick_col)  
    right = right if right <= arr.shape[1] else arr.shape[1]  
    sep_letters.append(arr[:,left:right])
```

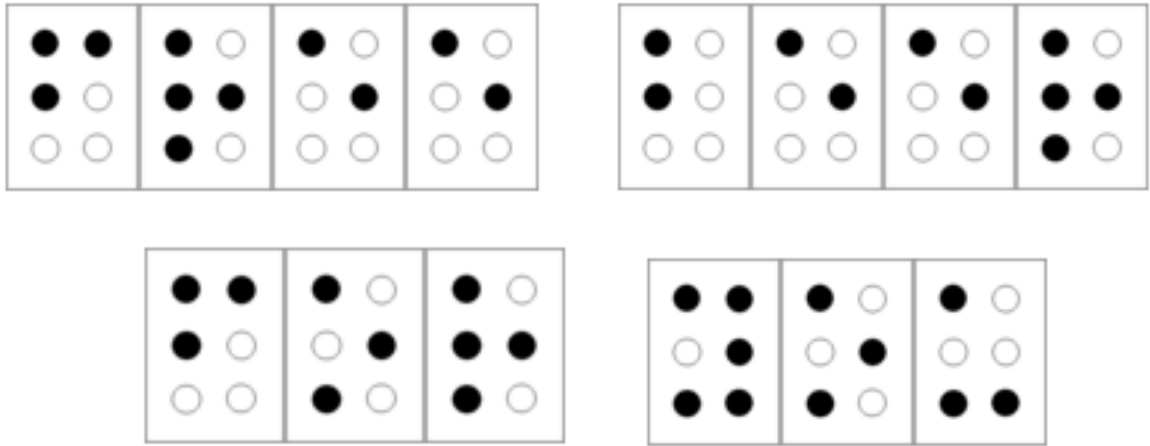
WIN THIS
~~LETS PLAY A GAME!~~



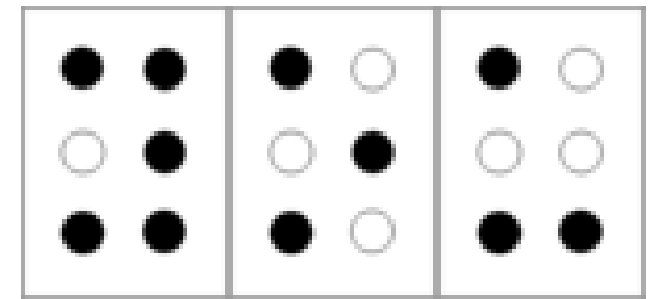
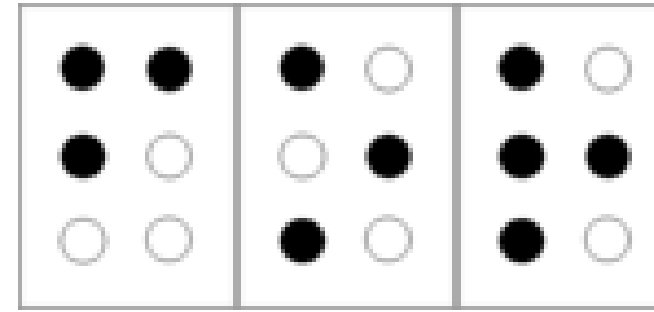
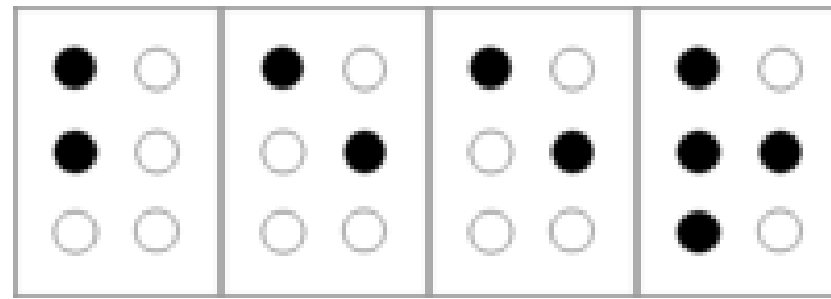
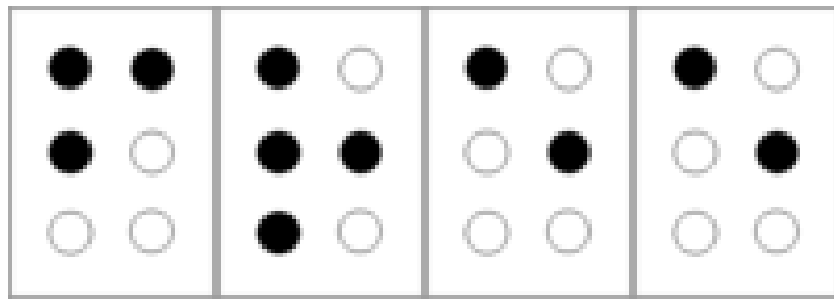
FLOWERS



BRIGHT



?



**FREE BEER
FOR YOU !**



IMPROVEMENT

```
graph TD; A[IMPROVEMENT] --> B[01 MODEL THAT CAN PREDICT ANY PICTURE ...]; A --> C[02 CREATE AN API FOR EASY PREDICTIONS ...];
```



01 MODEL THAT
CAN PREDICT
ANY PICTURE
...

02 CREATE AN API
FOR EASY
PREDICTIONS
...



**THANKS FOR
LISTENING.**

