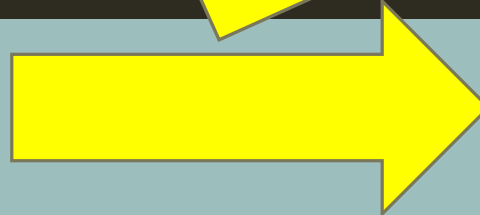
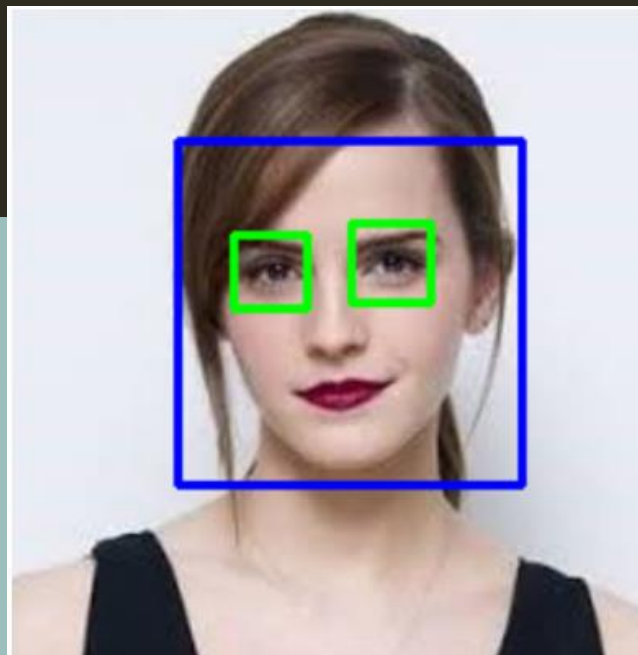
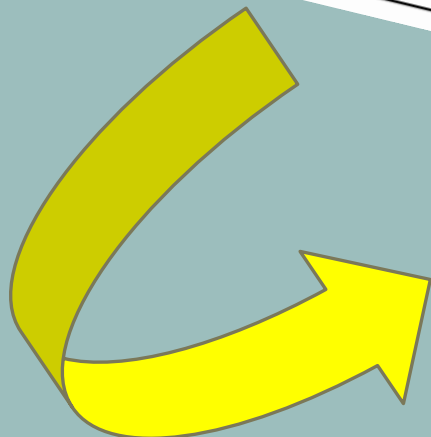
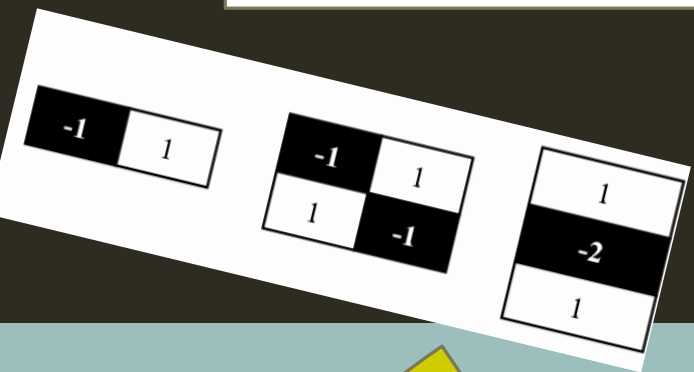
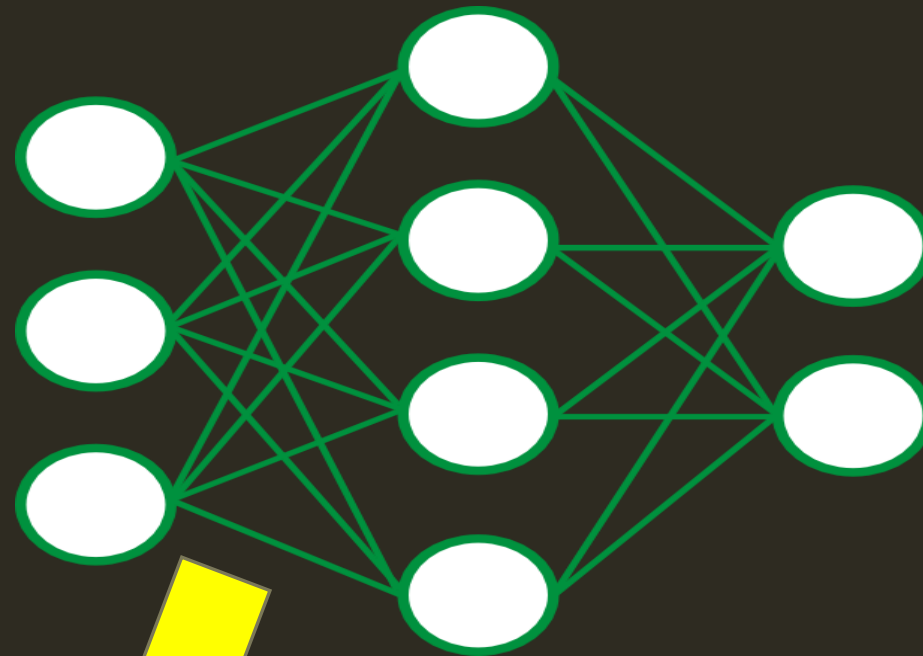
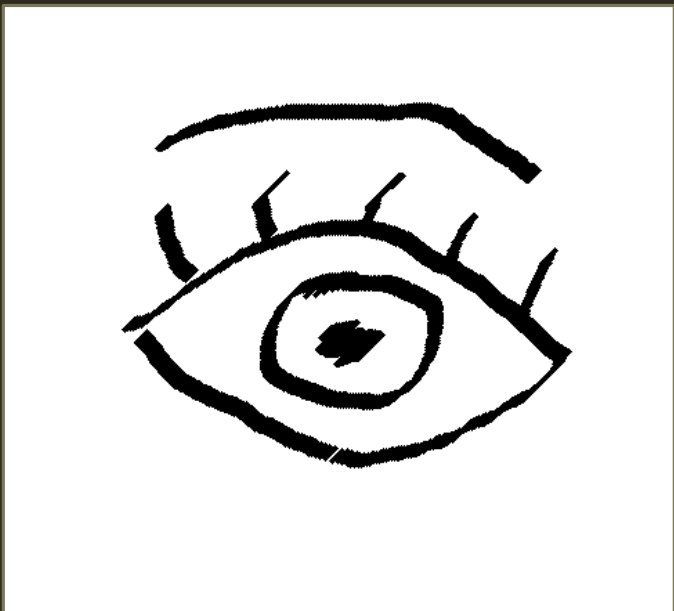




DRAW ME!

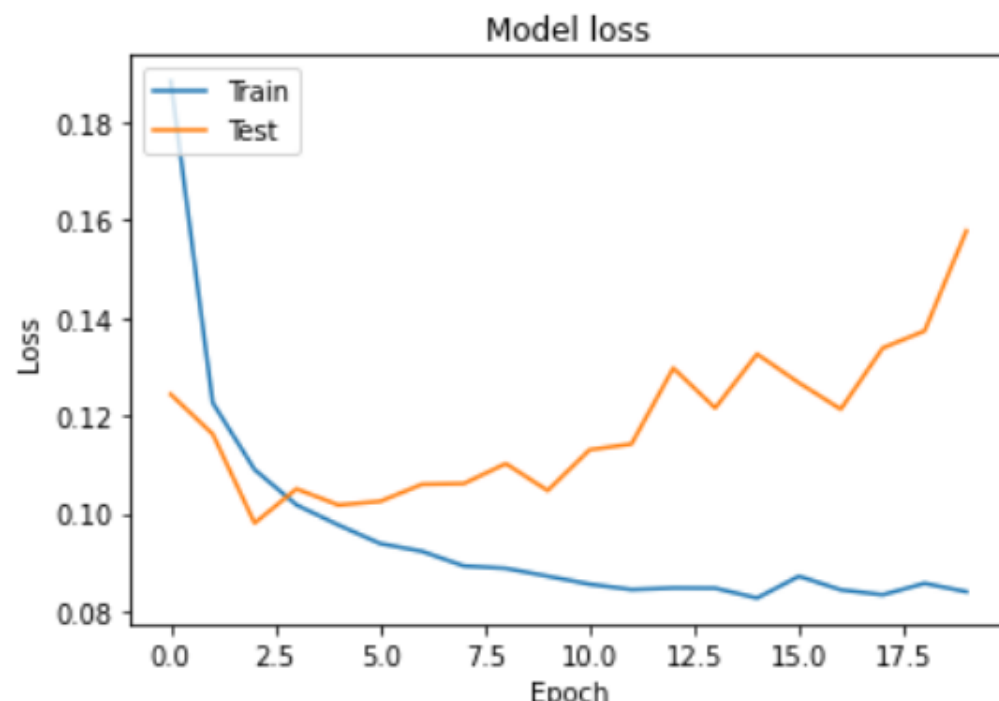
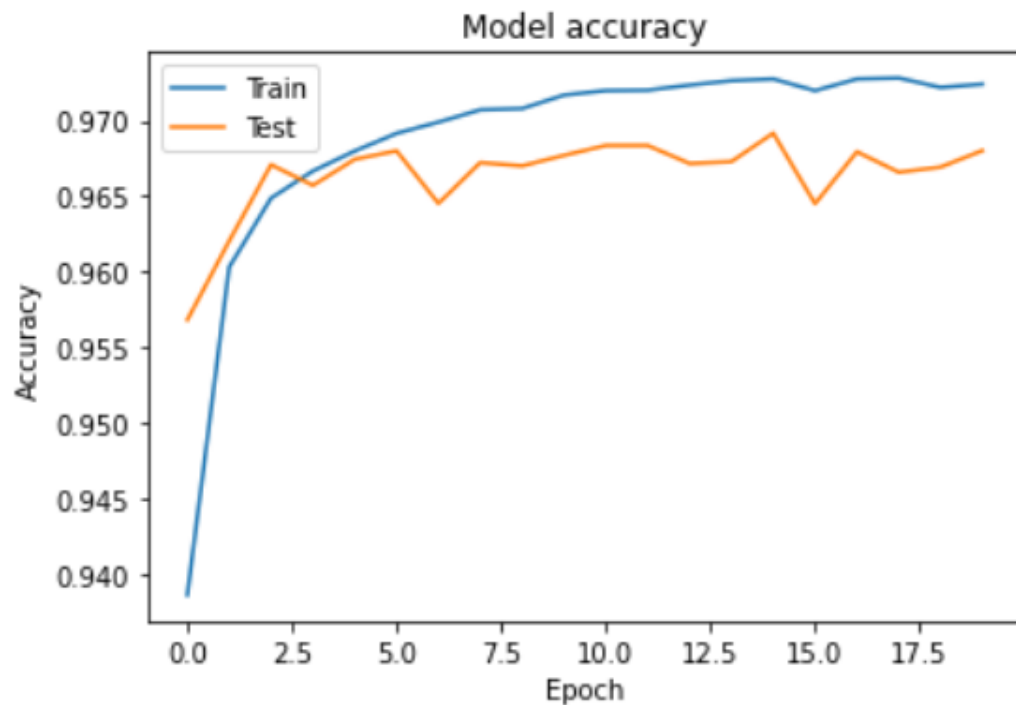
IRON
HACK

David Carricondo
Sánchez
Ironhack Final Project



NEURAL NETWORK

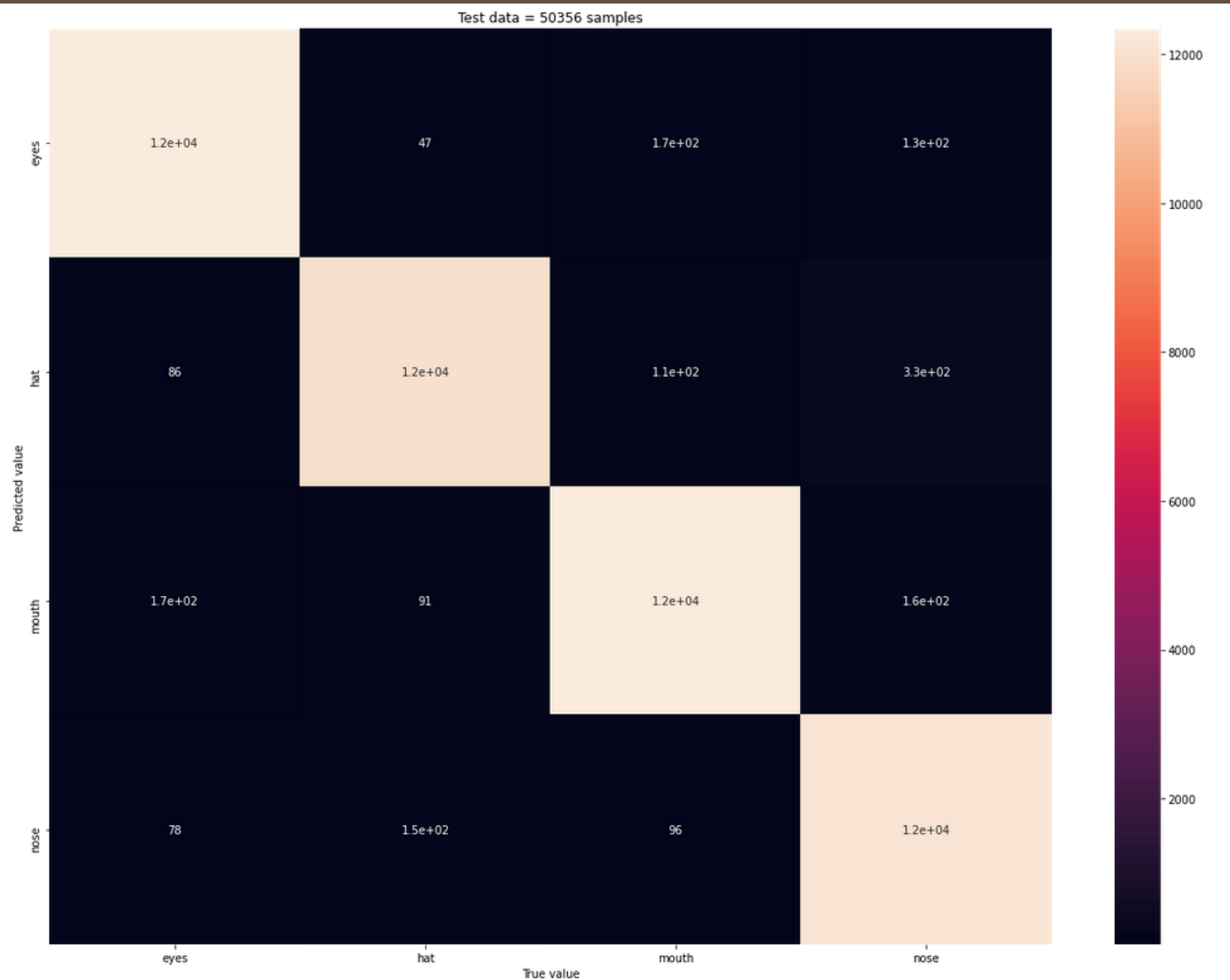
Layer (type)	Output Shape	Param #
conv2d_49 (Conv2D)	(None, 28, 28, 64)	3200
max_pooling2d_29 (MaxPooling)	(None, 14, 14, 64)	0
conv2d_50 (Conv2D)	(None, 14, 14, 128)	73856
conv2d_51 (Conv2D)	(None, 14, 14, 128)	147584
max_pooling2d_30 (MaxPooling)	(None, 7, 7, 128)	0
conv2d_52 (Conv2D)	(None, 7, 7, 256)	295168
conv2d_53 (Conv2D)	(None, 7, 7, 256)	590080
max_pooling2d_31 (MaxPooling)	(None, 3, 3, 256)	0
flatten_9 (Flatten)	(None, 2304)	0
dense_27 (Dense)	(None, 128)	295040
dropout_16 (Dropout)	(None, 128)	0
dense_28 (Dense)	(None, 64)	8256
dropout_17 (Dropout)	(None, 64)	0
dense_29 (Dense)	(None, 4)	260
Total params: 1,413,444		
Trainable params: 1,413,444		
Non-trainable params: 0		



NEURAL NETWORK



CONFUSION MATRIX





FEATURES RECOGNITION

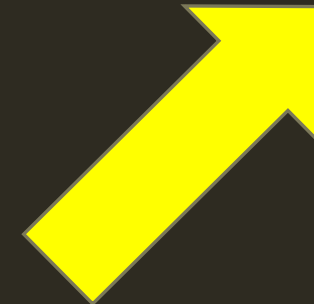
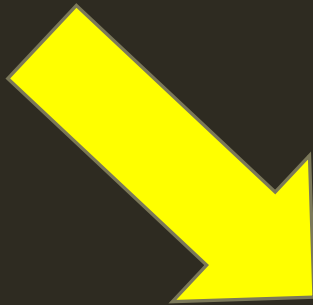
- Haar Cascades
- Face, nose, eyes, mouth
- Hyperparameter twitching

FEATURES SWAPPING

- Identify pixels in origin
- Redefine pixels
- Tracking
- Alpha select

IMAGE PROCESSING

- Resizing
- Inversing
- Normalizing
- Modifying alpha channels



DEMO TIME!



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