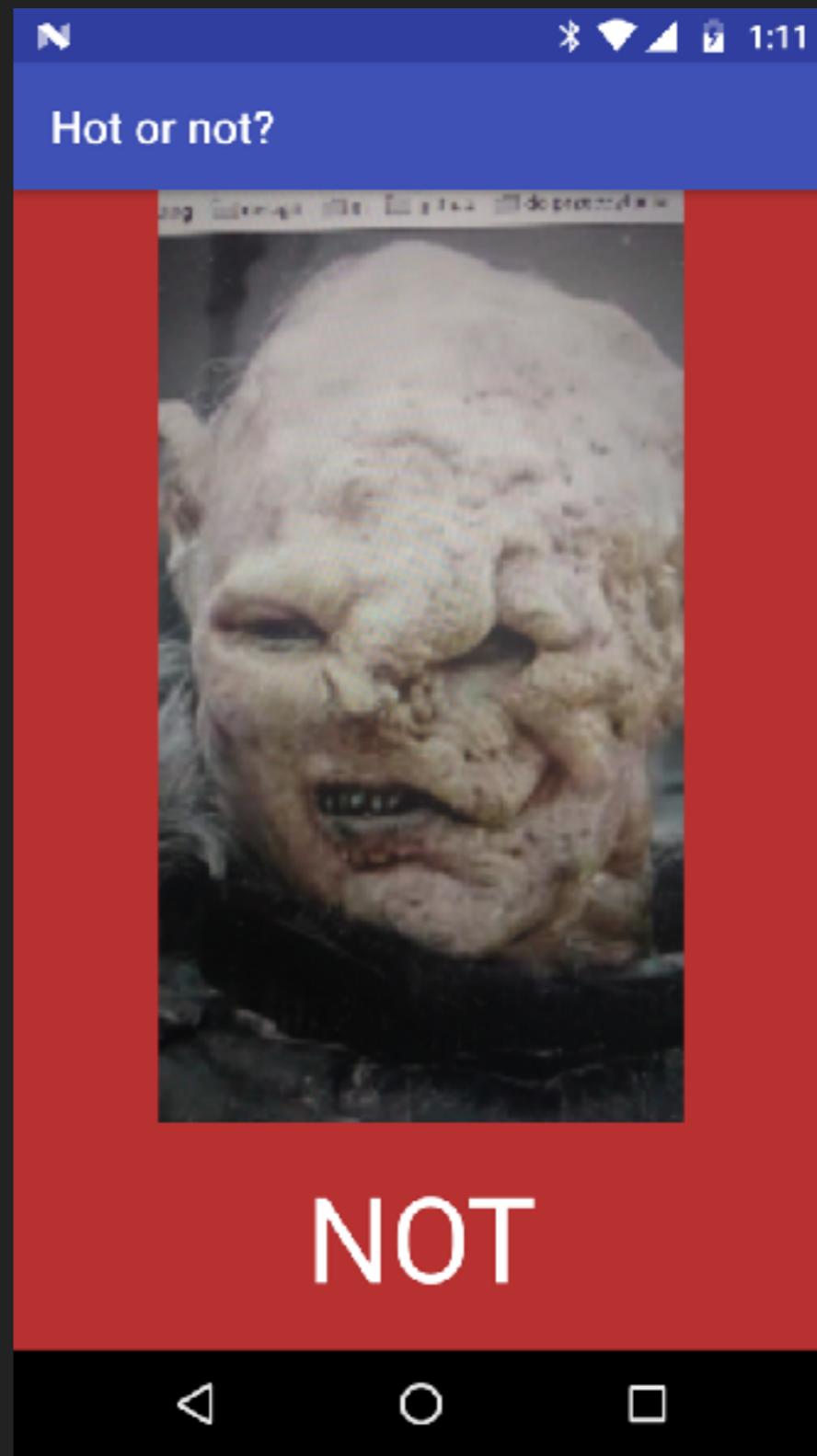
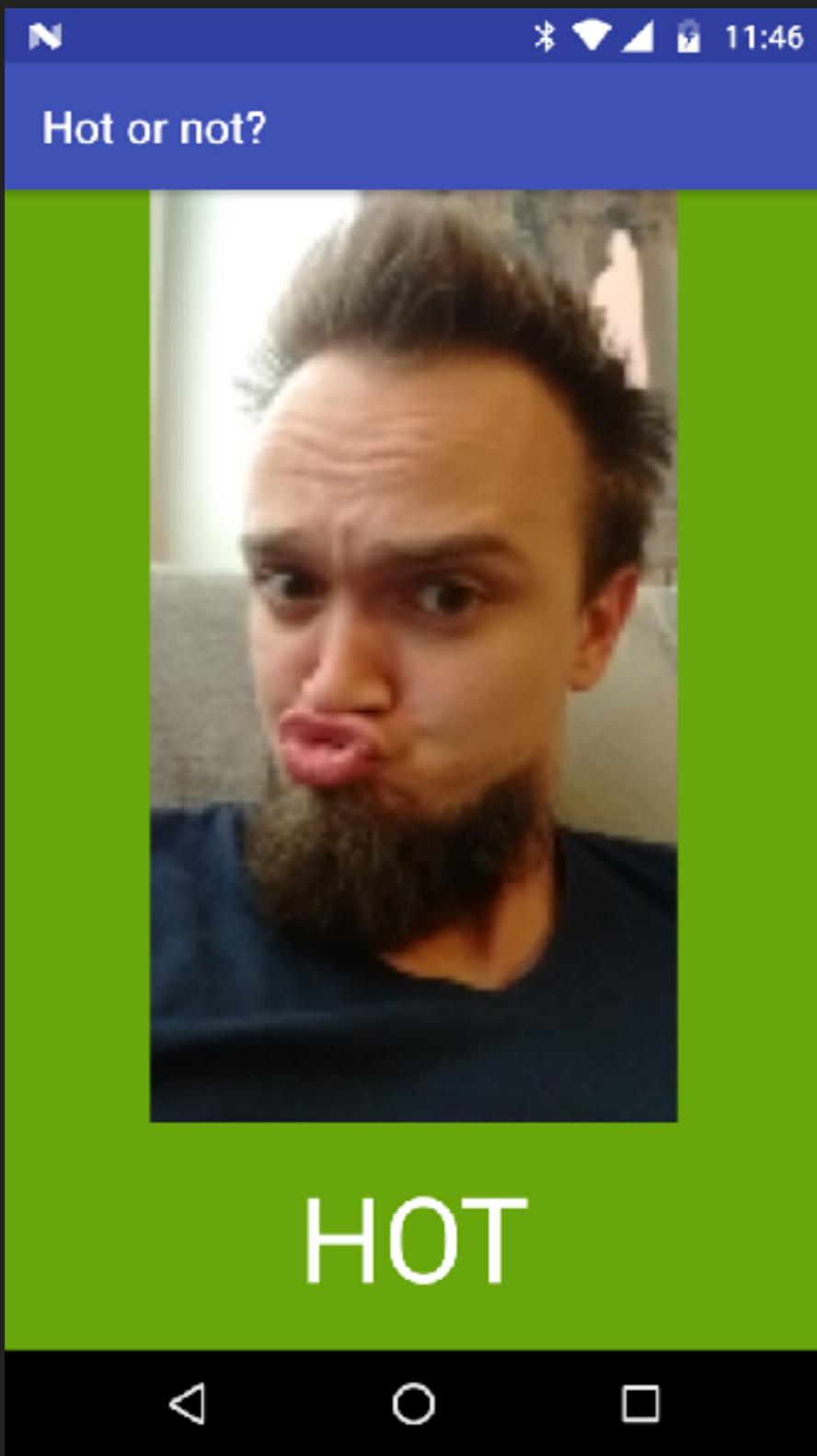


# TENSORFLOW

---

HOT OR NOT?

# HOT OR NOT?

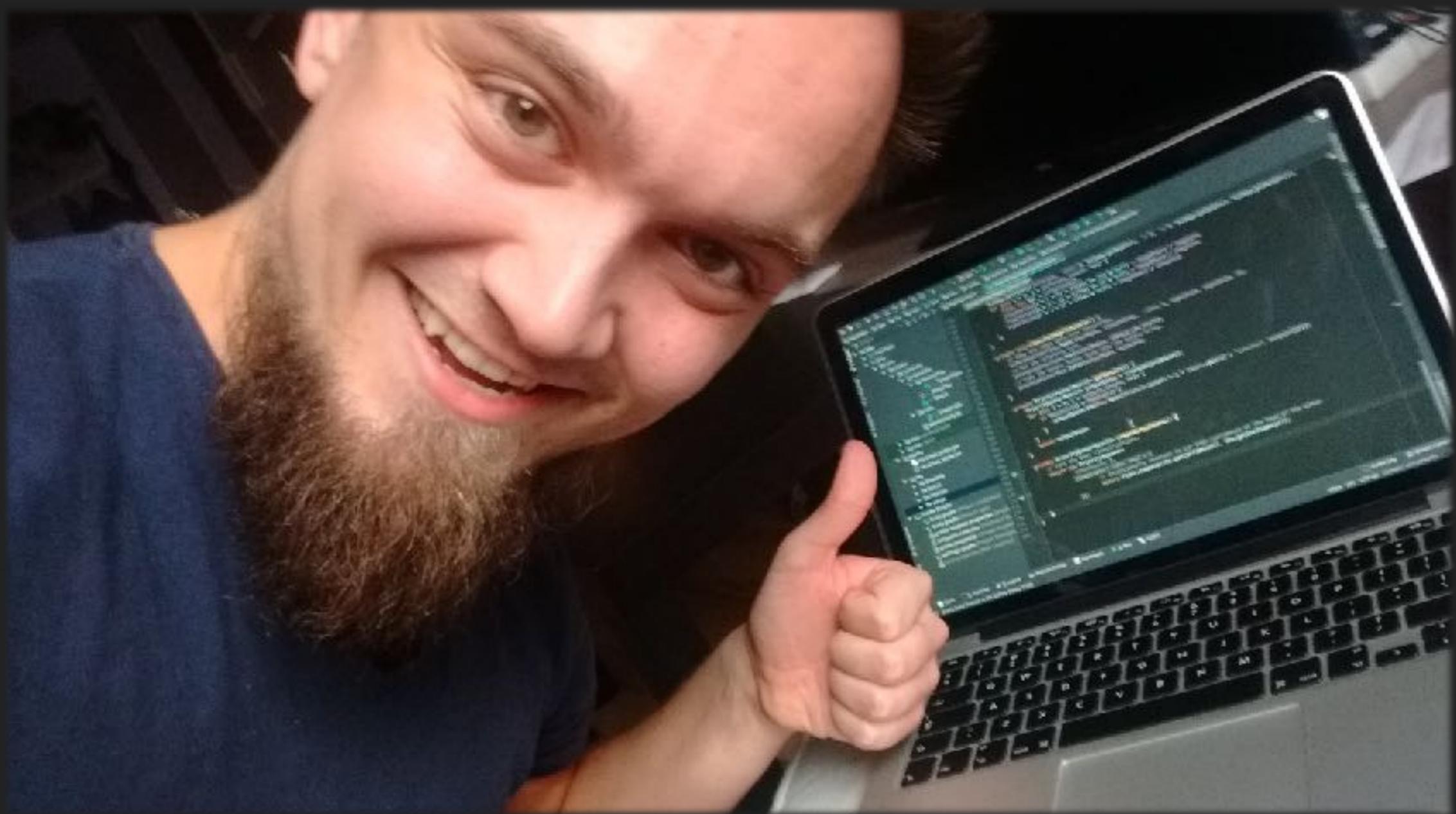


```
dependencies {  
    implementation 'org.tensorflow:tensorflow-android:1.5.0'  
}
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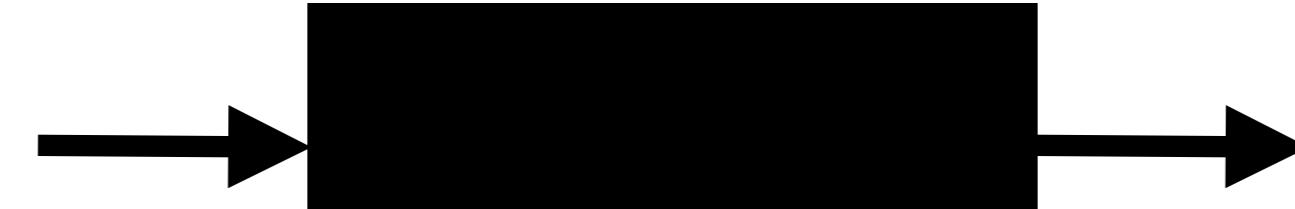
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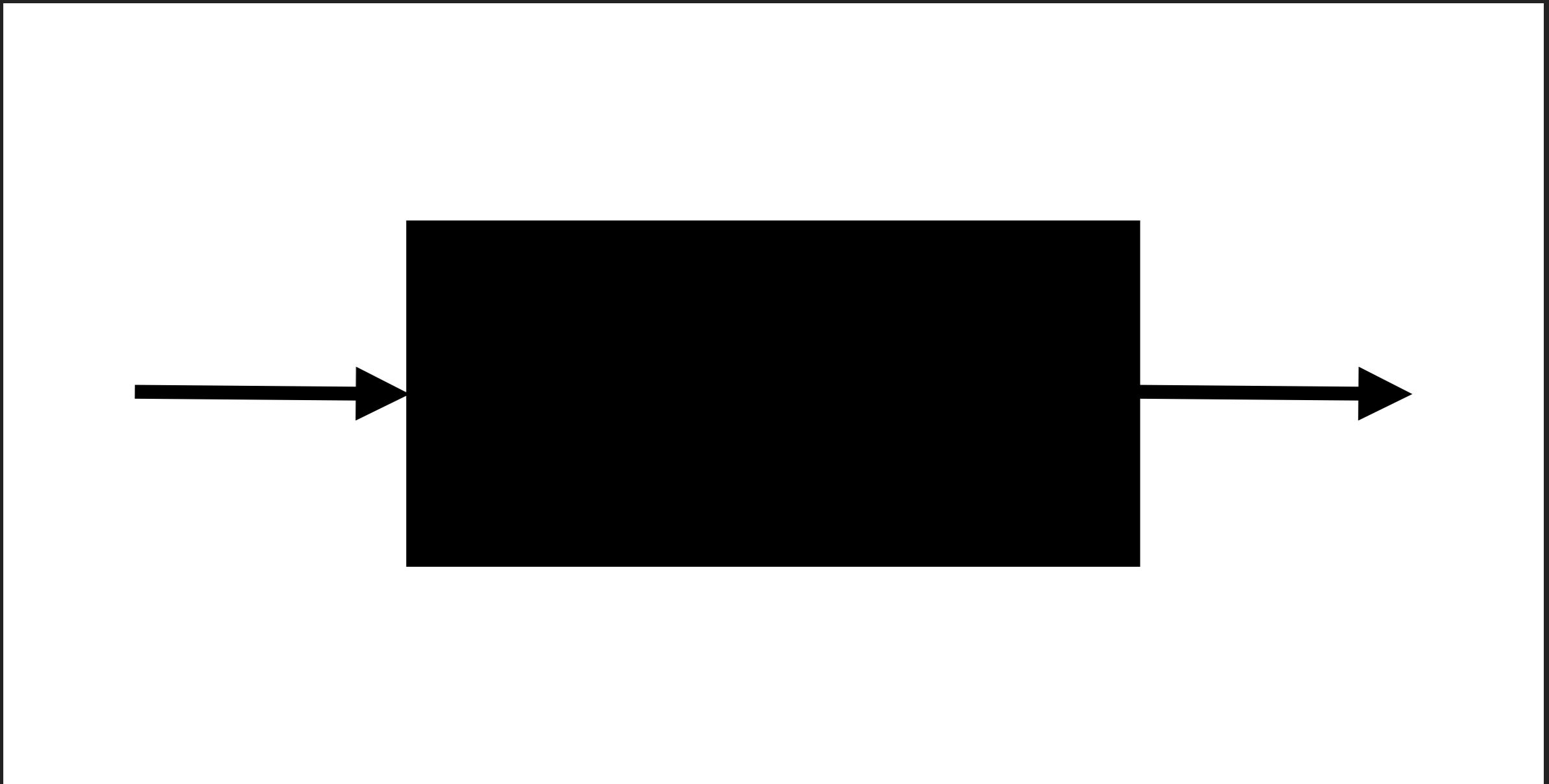
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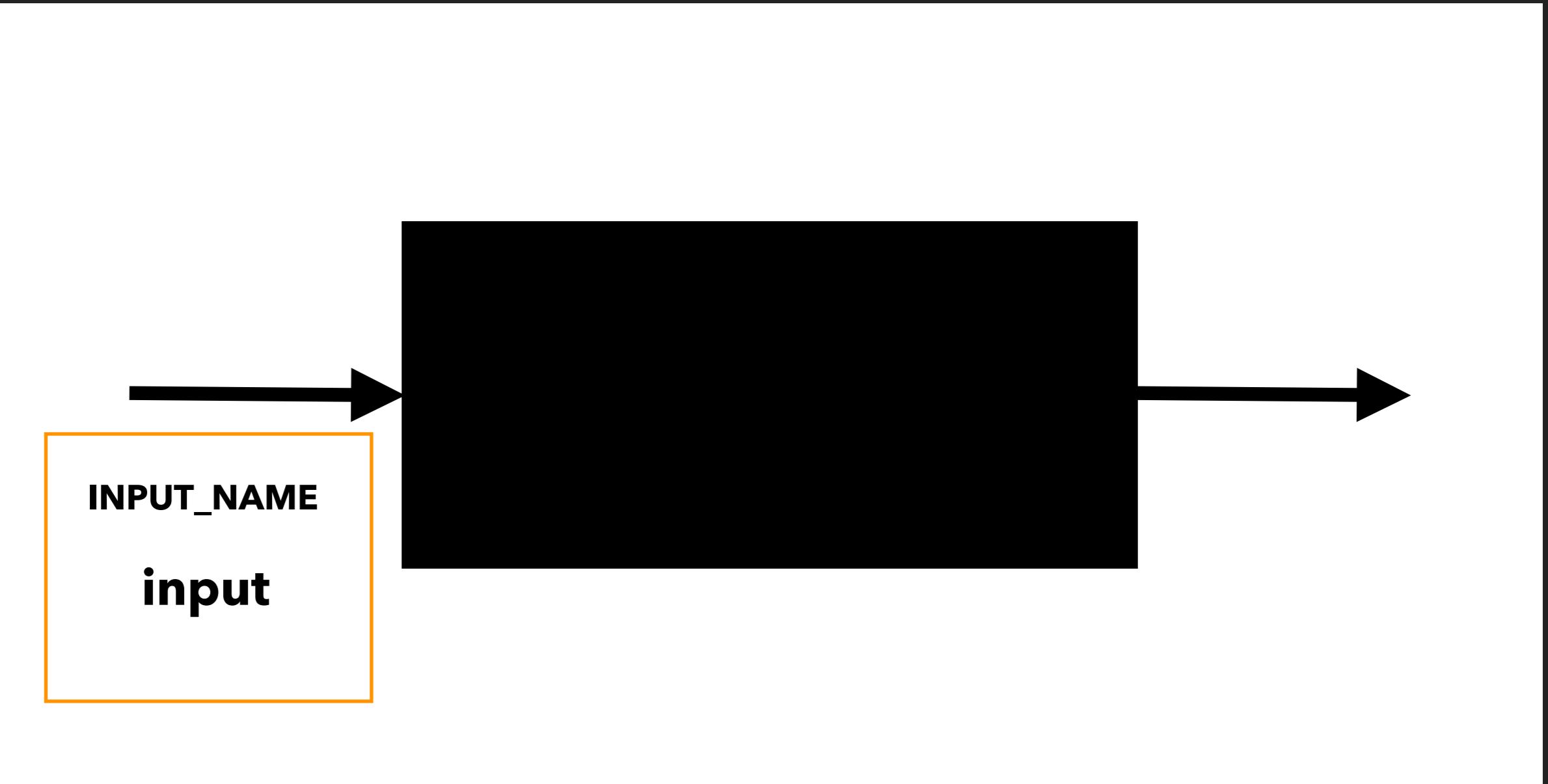
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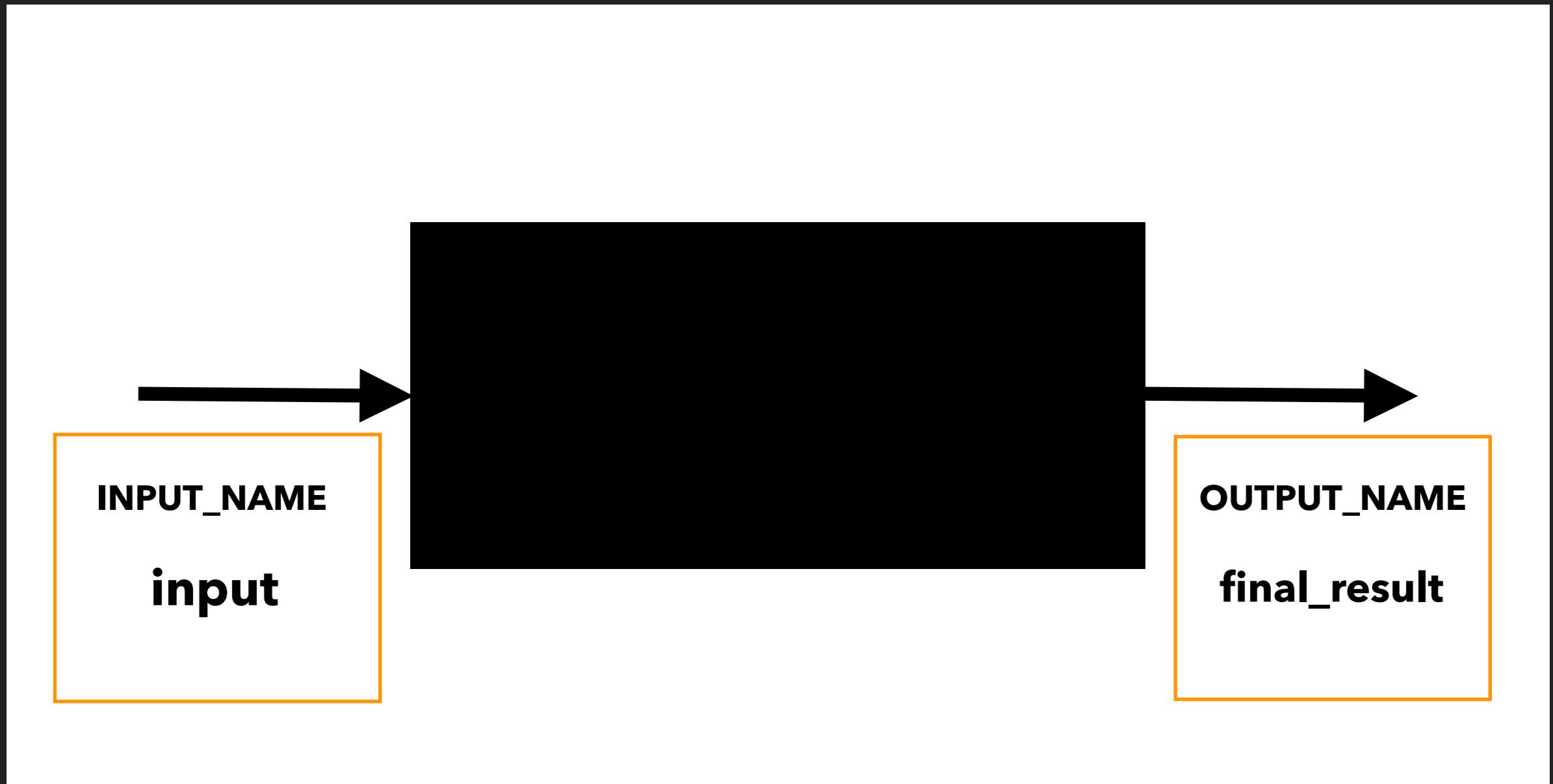


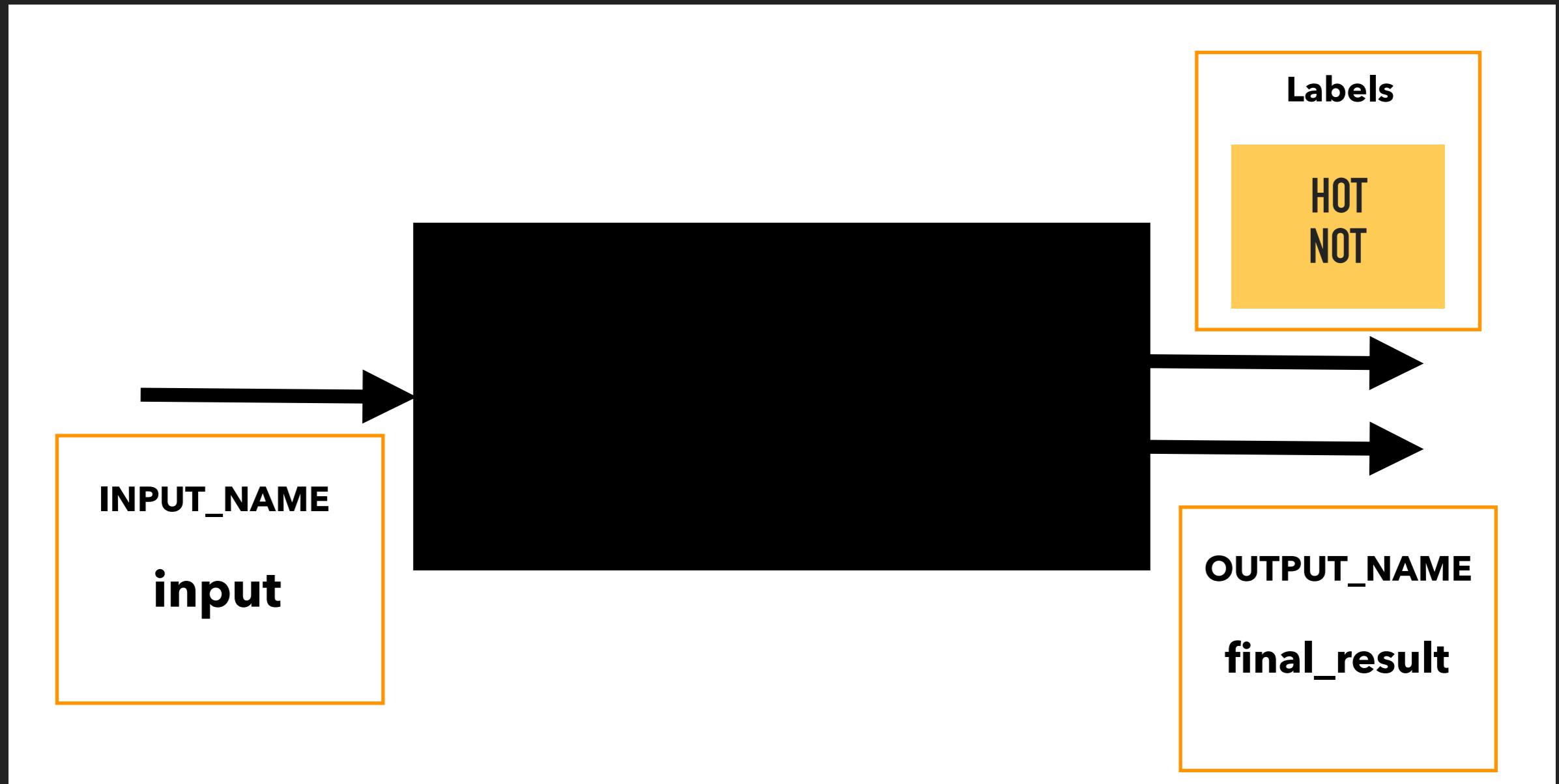
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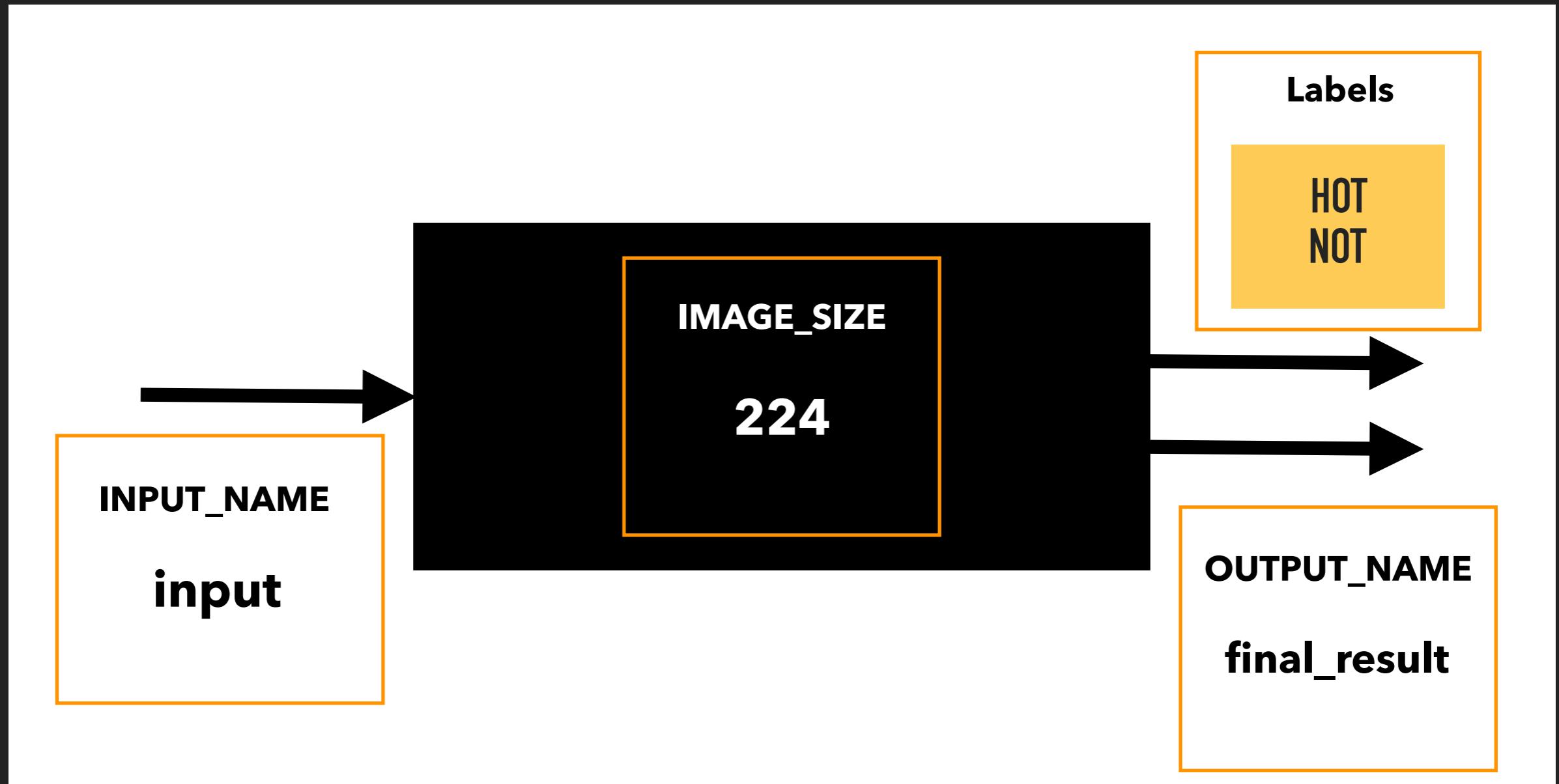


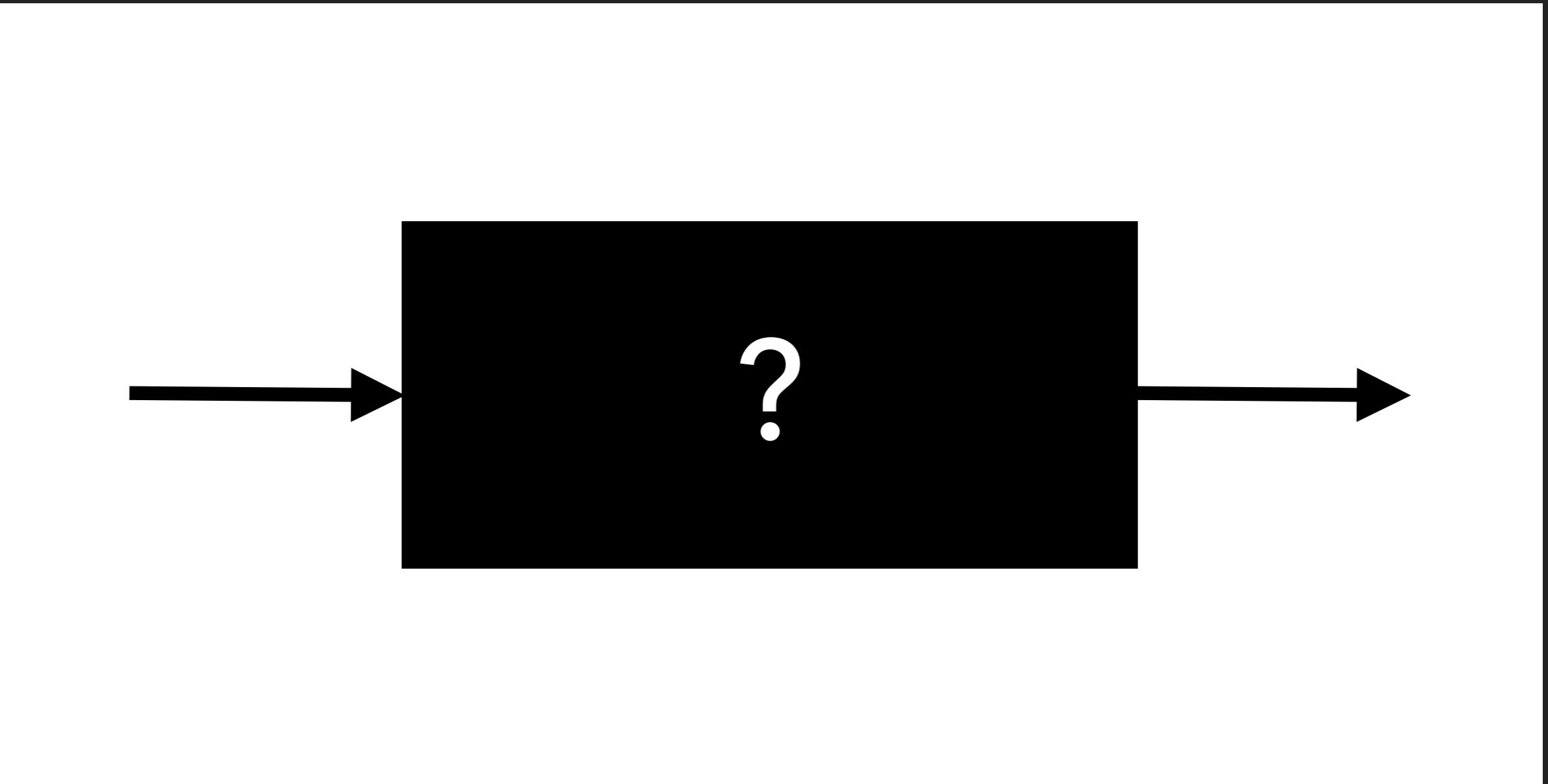


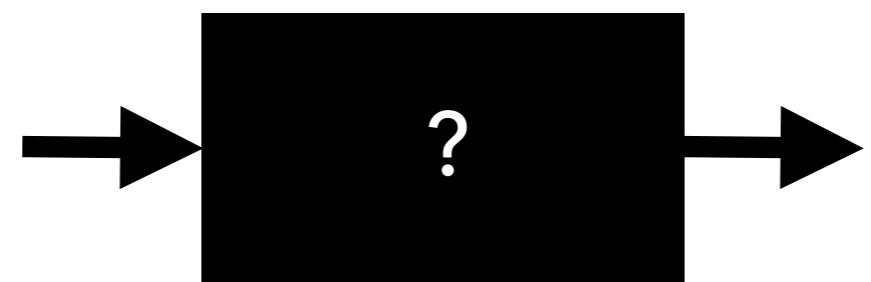


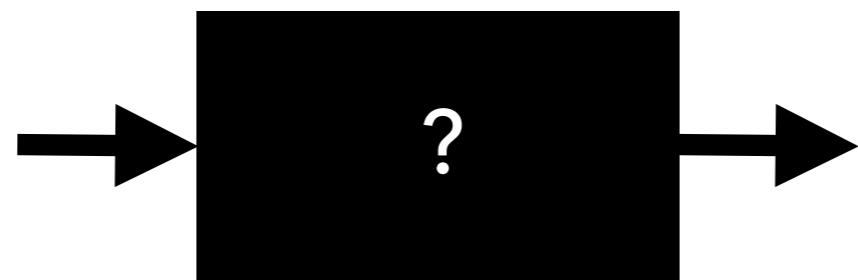




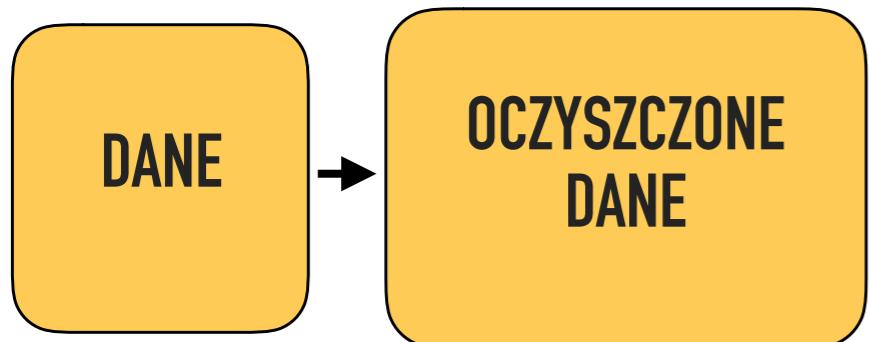
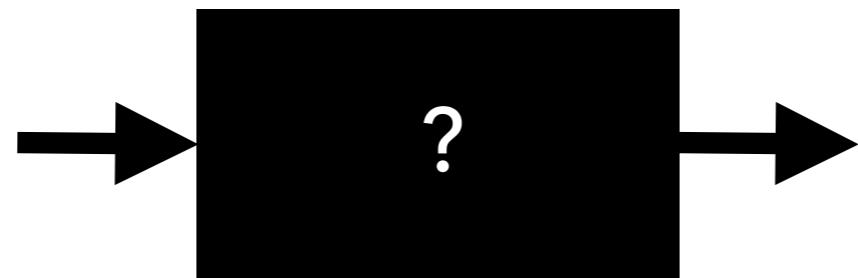


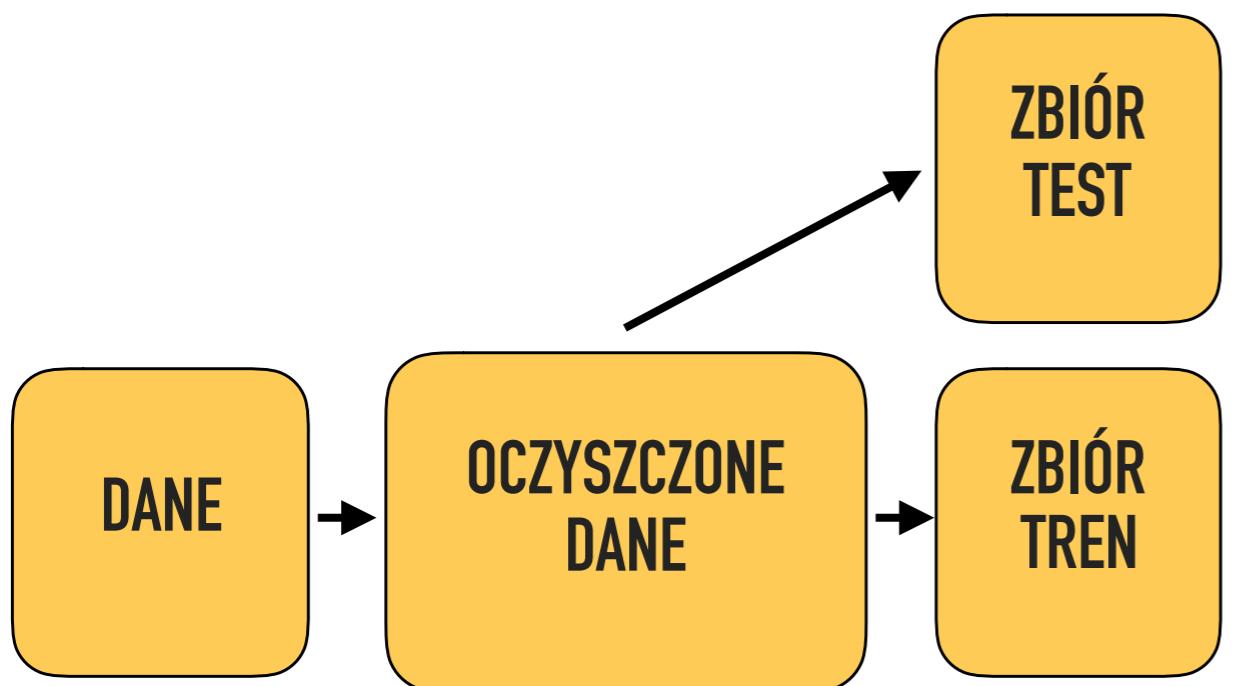
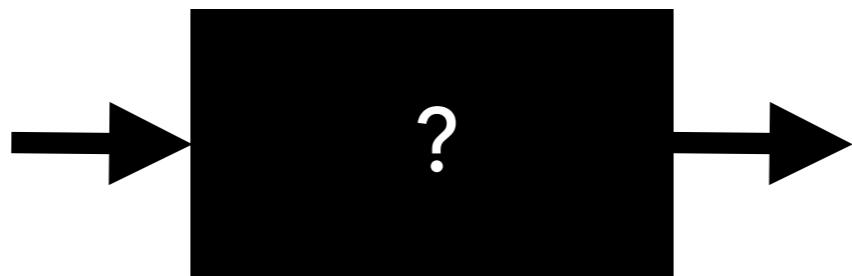


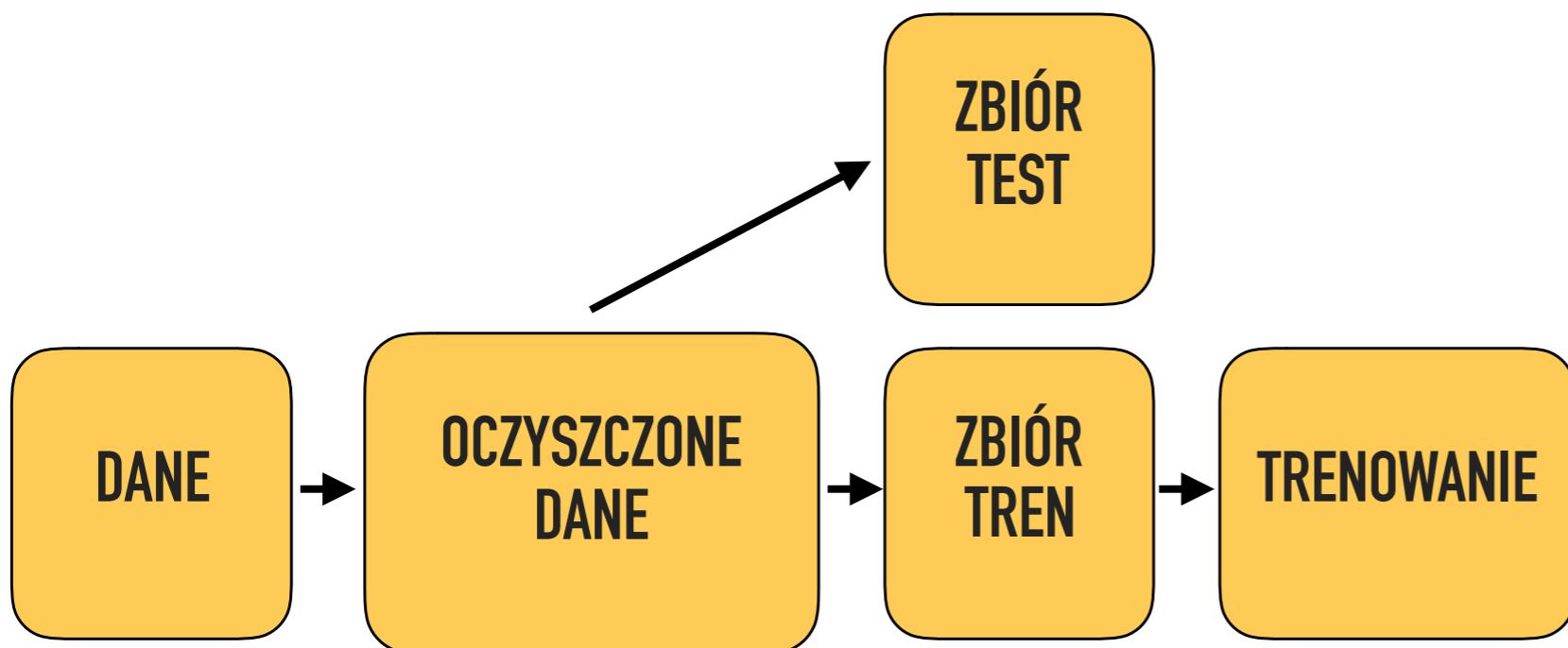
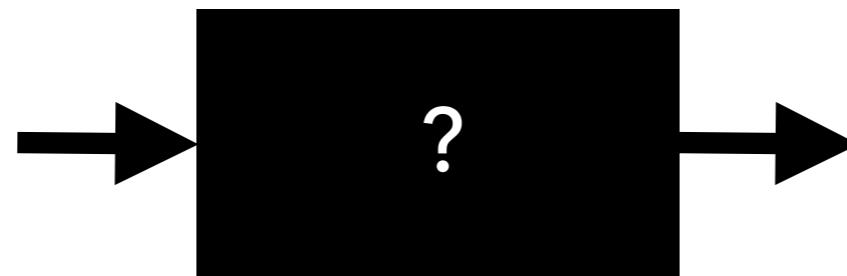


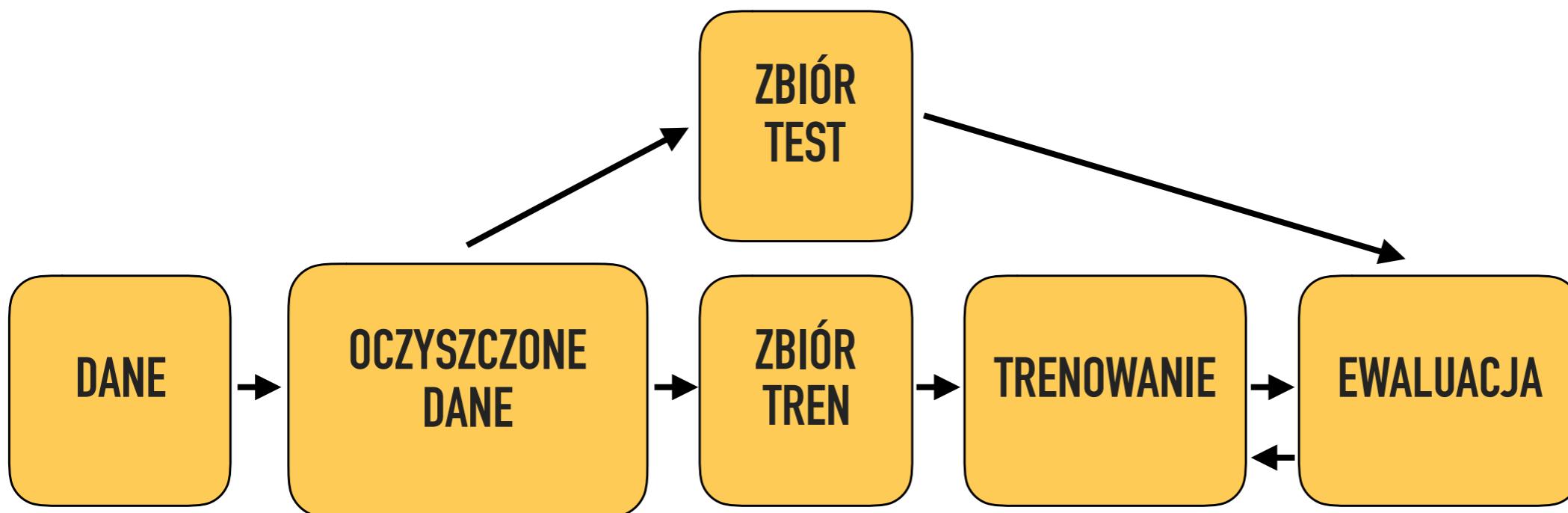


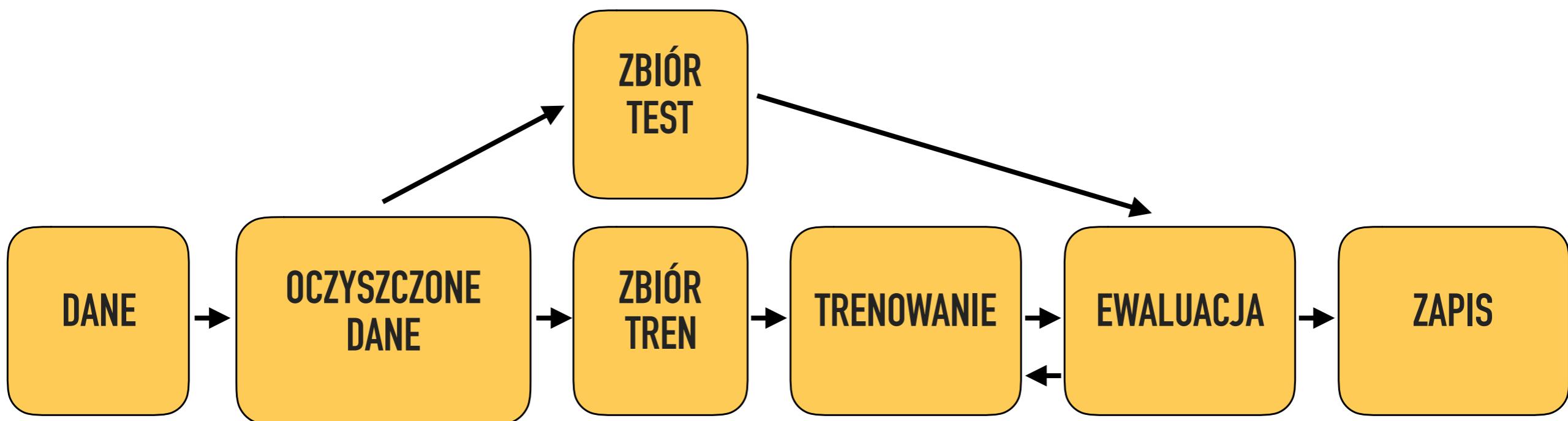
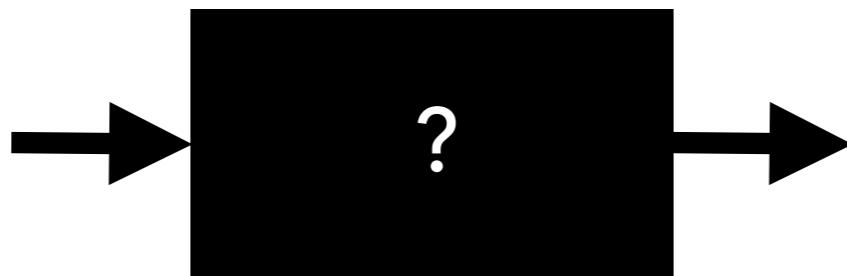
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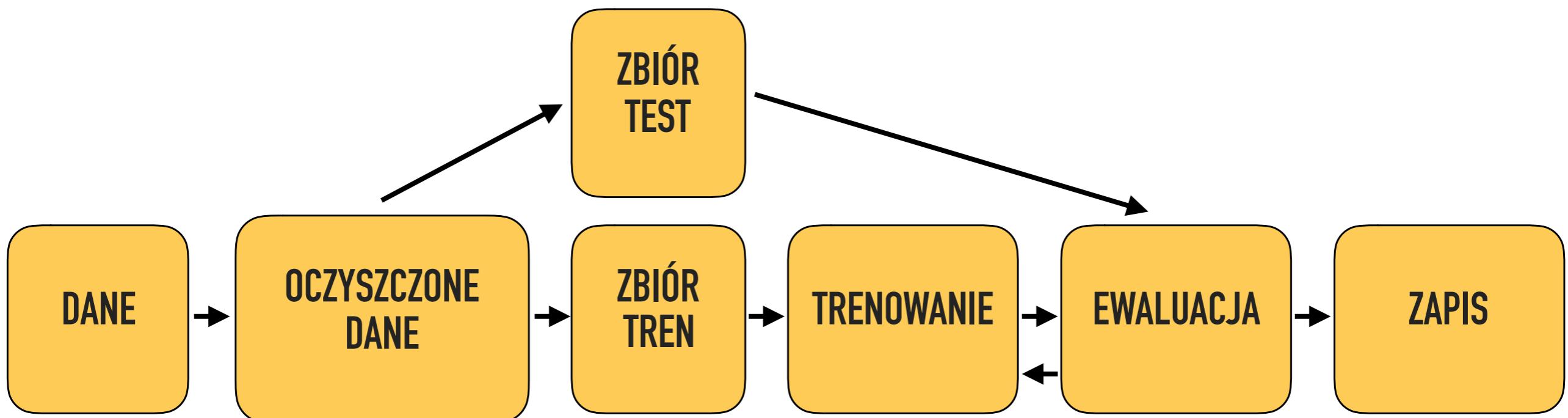
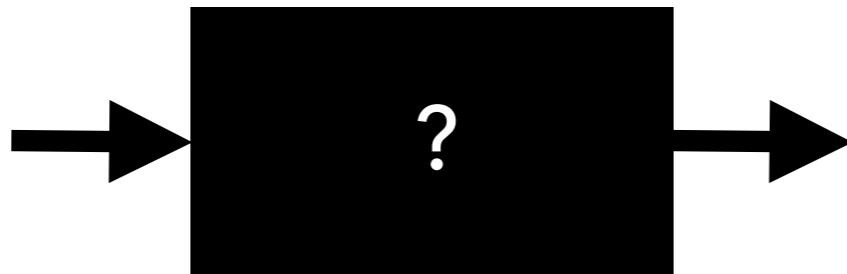




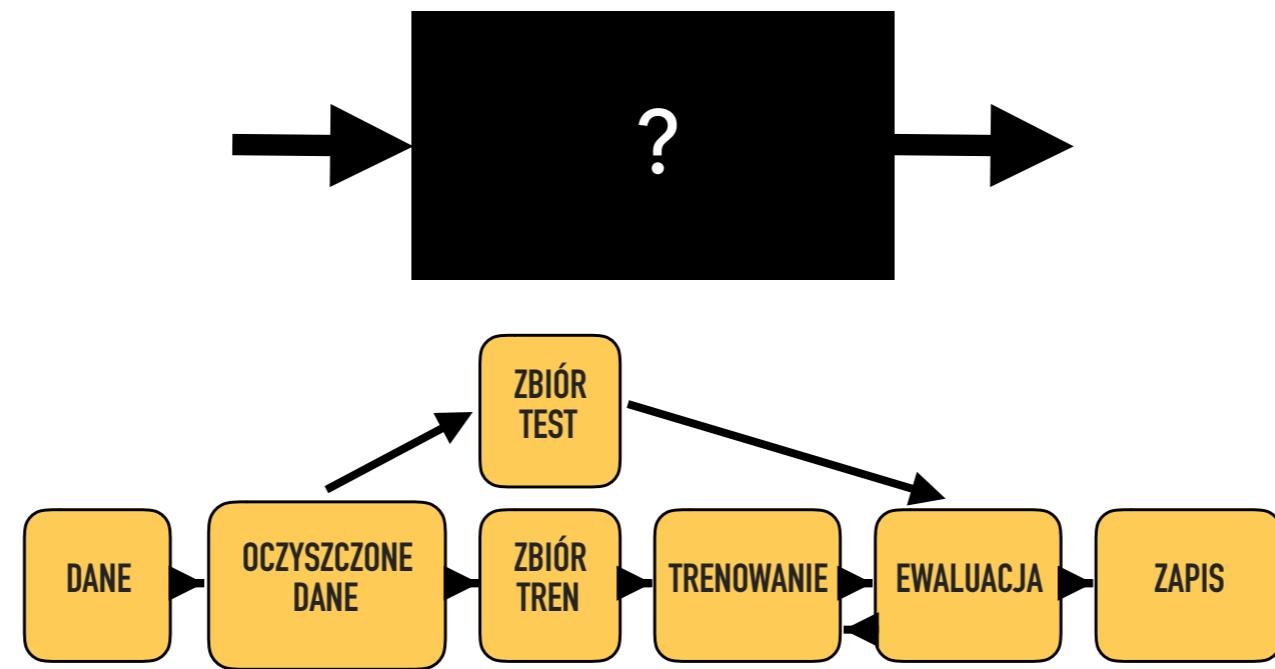


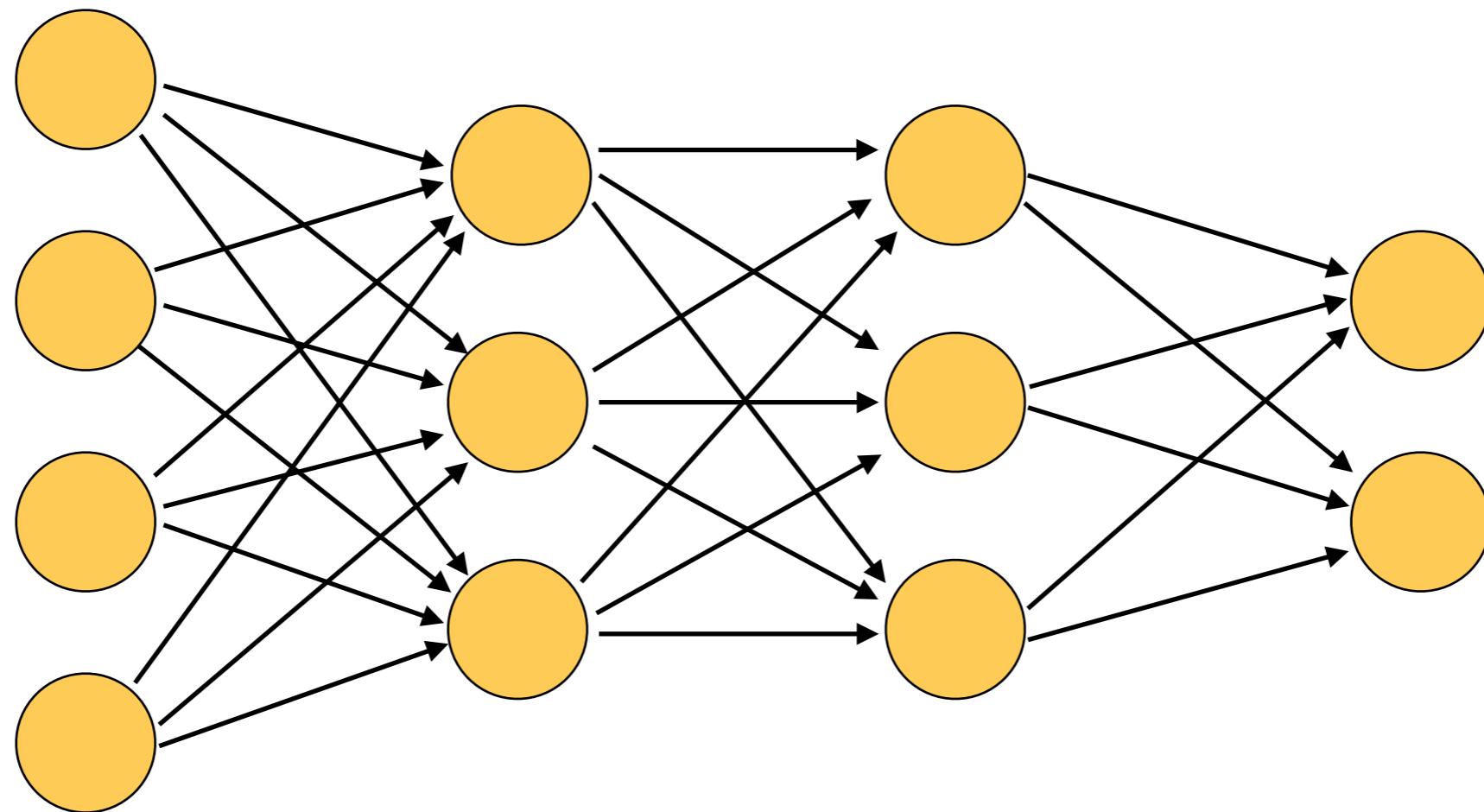
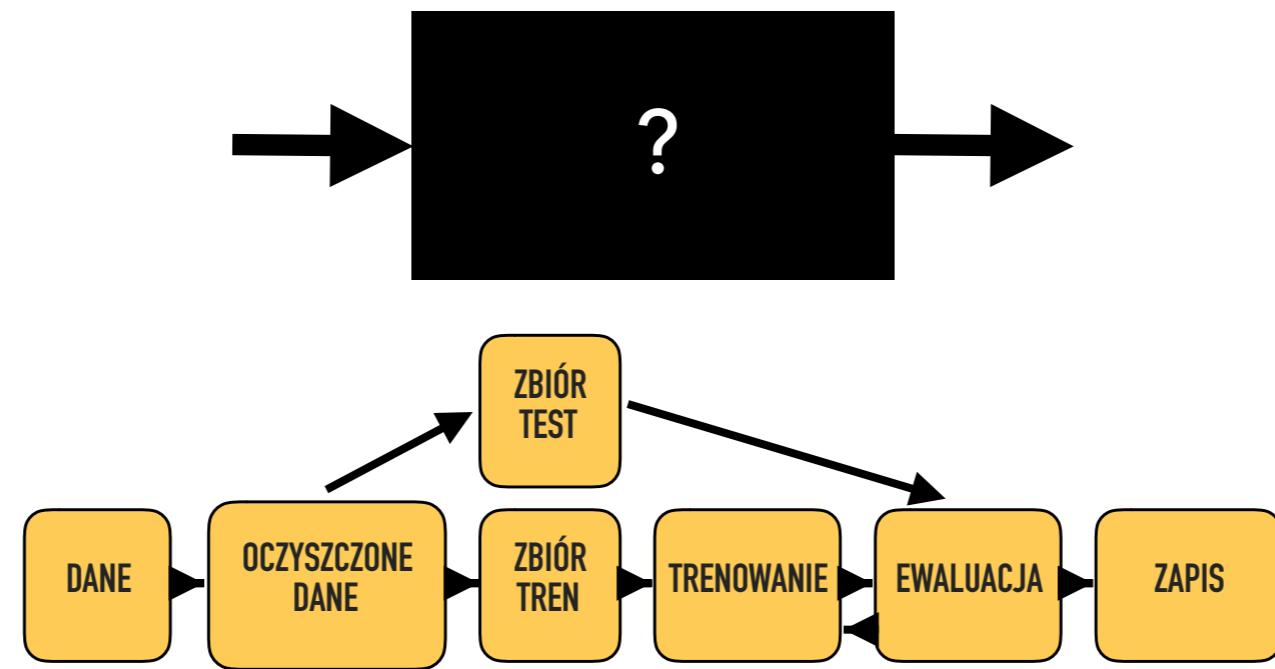


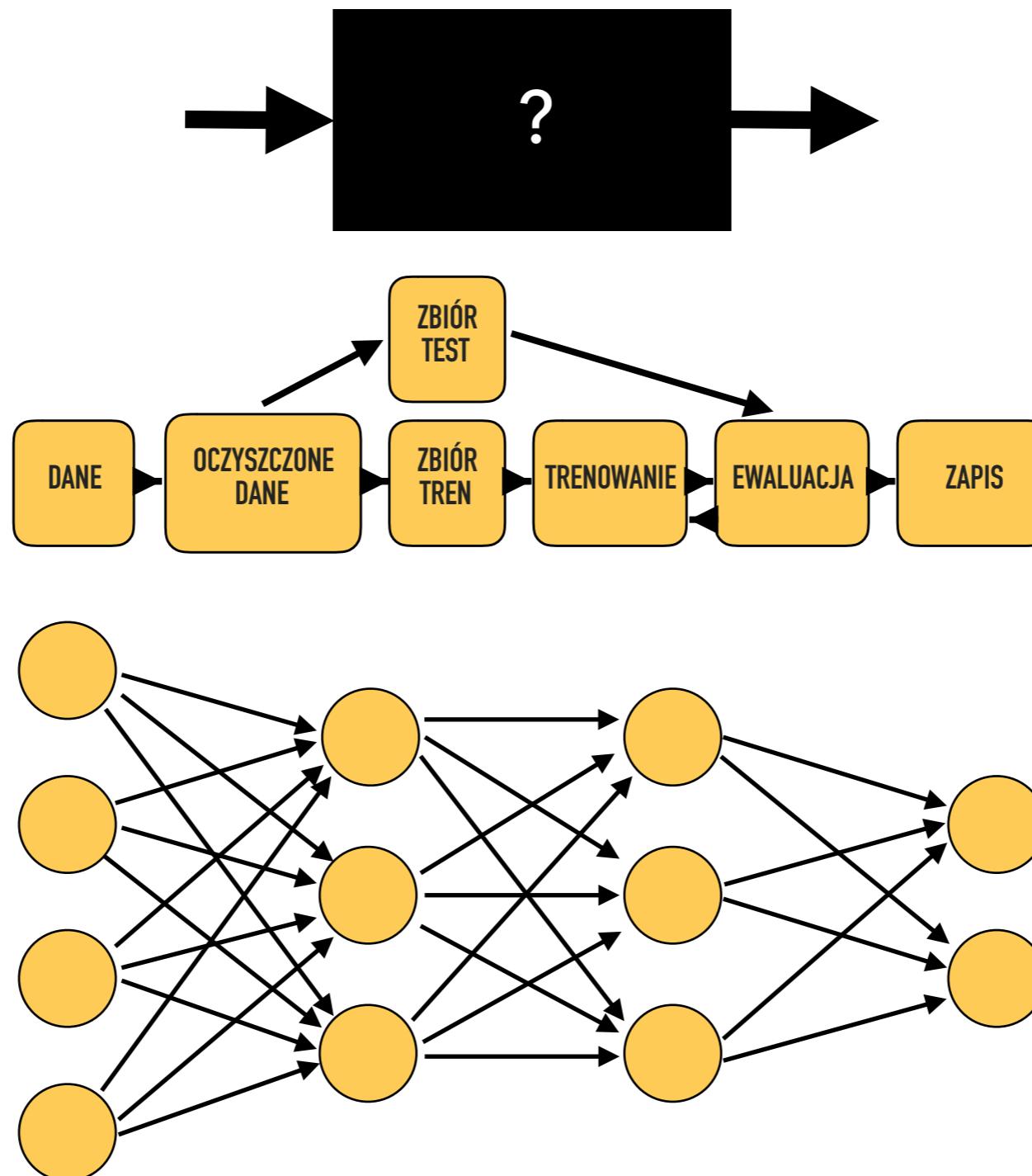




# Uczenie maszynowe (Machine Learning)

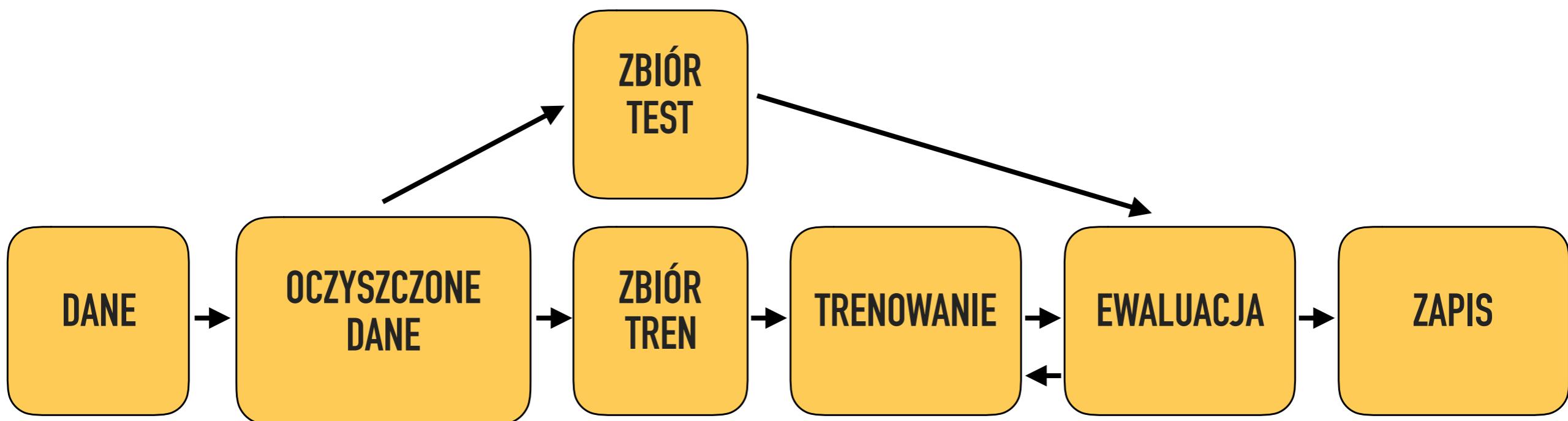
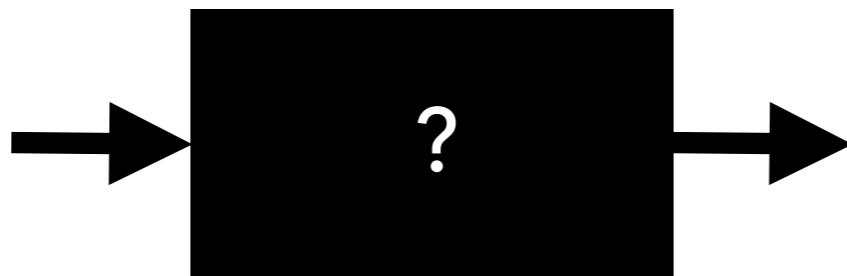


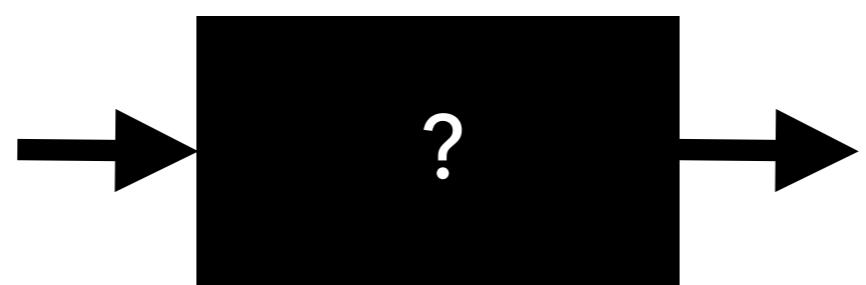


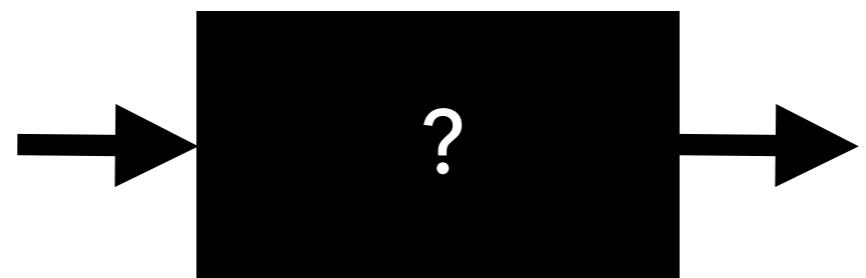


**Głębokie uczenie  
(Deep Learning)**

**Sieci neuronowe  
(Neural Networks)**

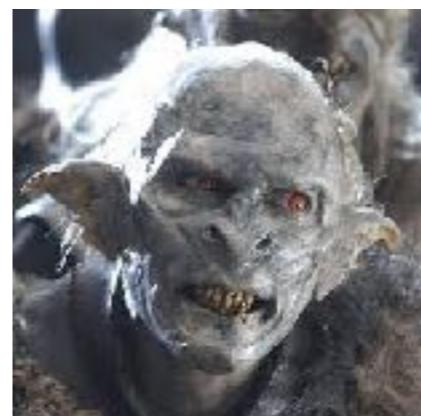






DANE

HOT



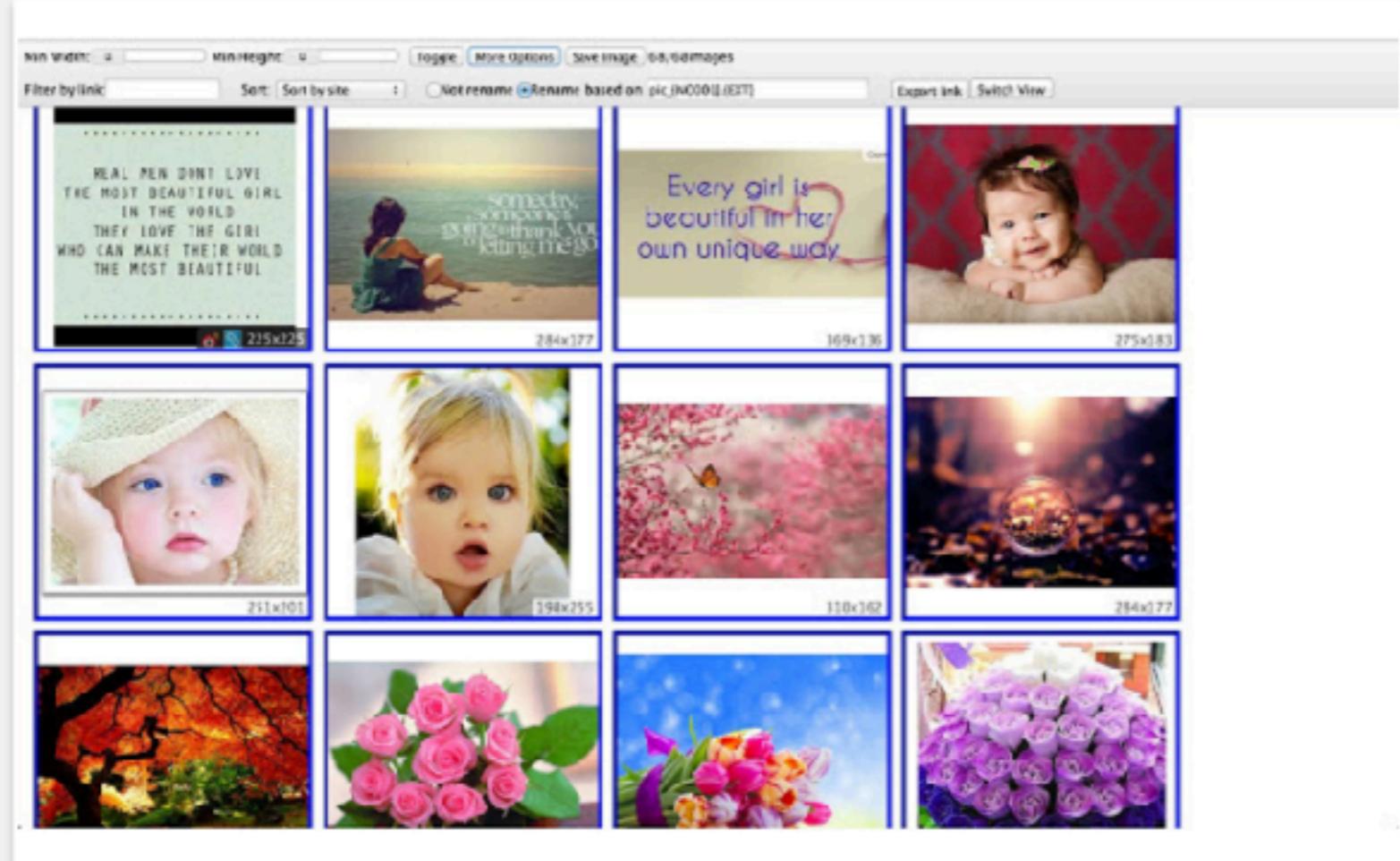
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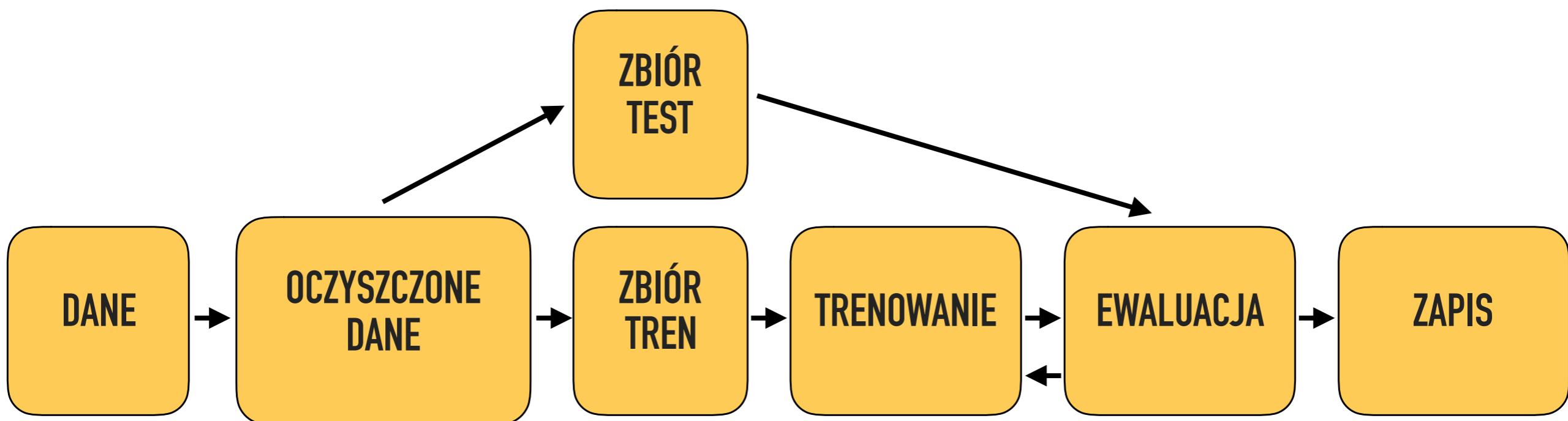
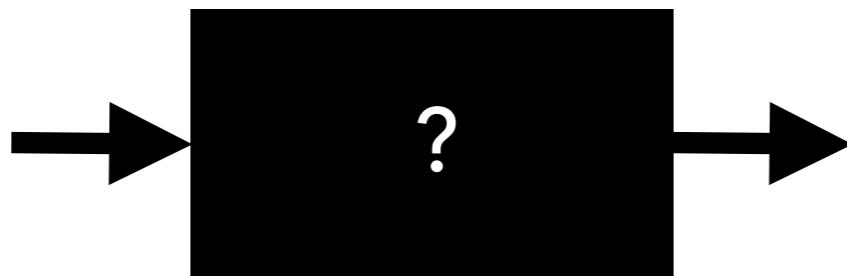
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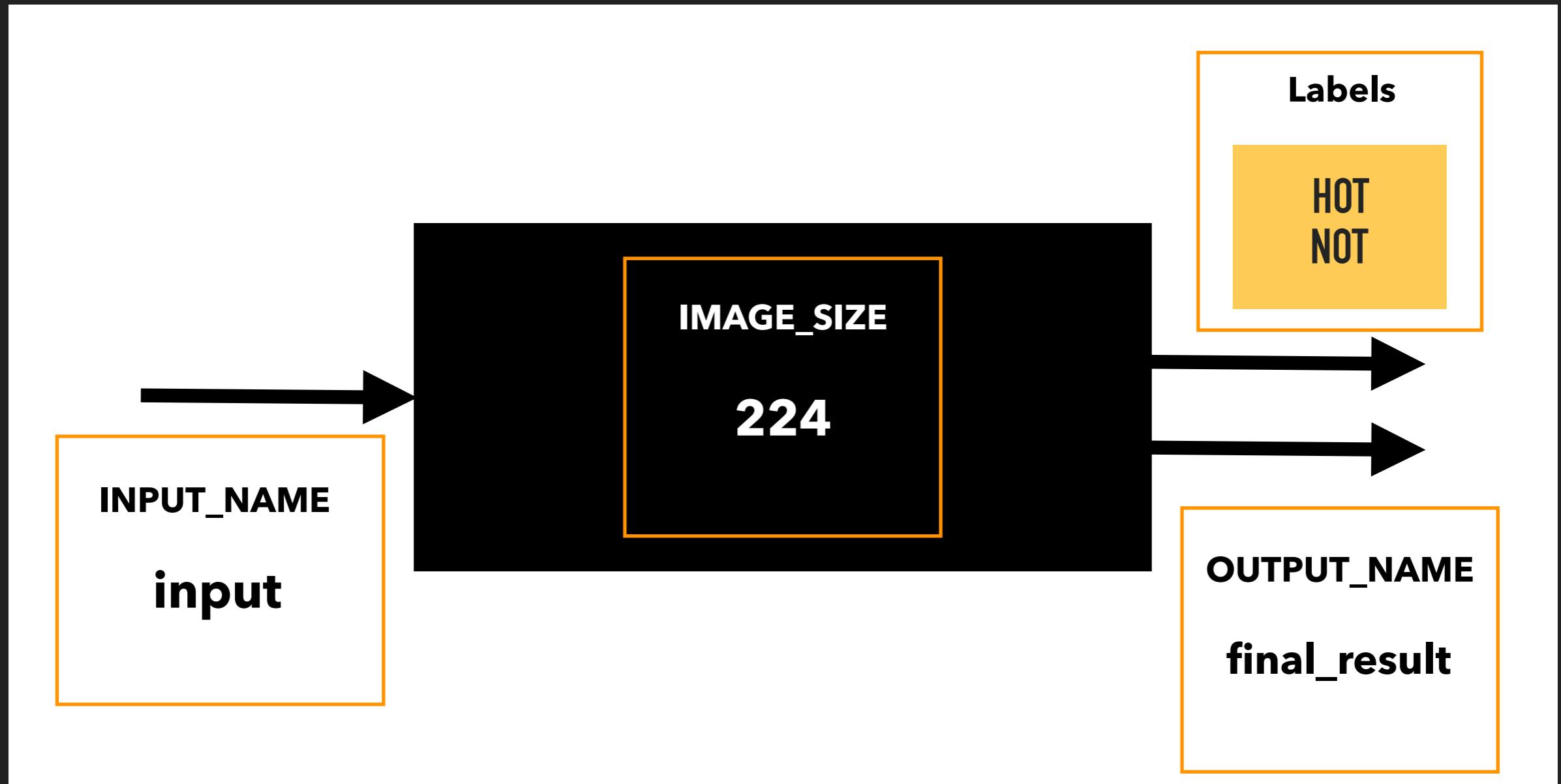
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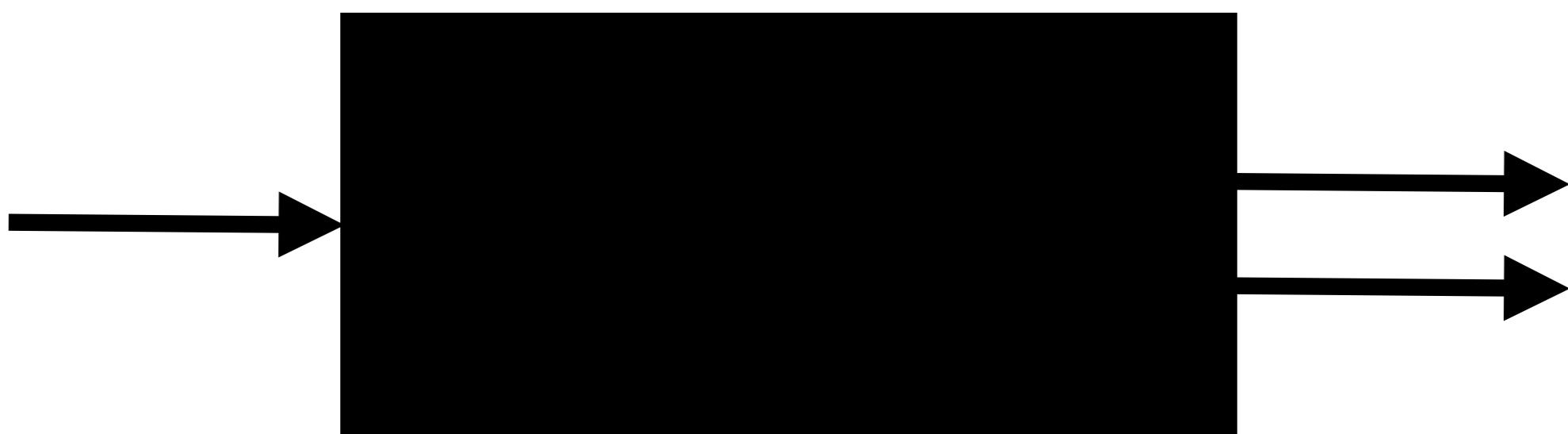
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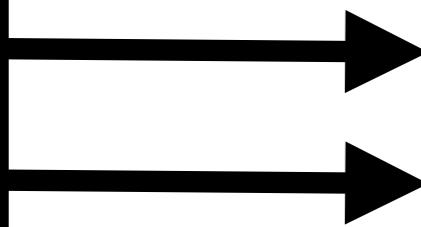
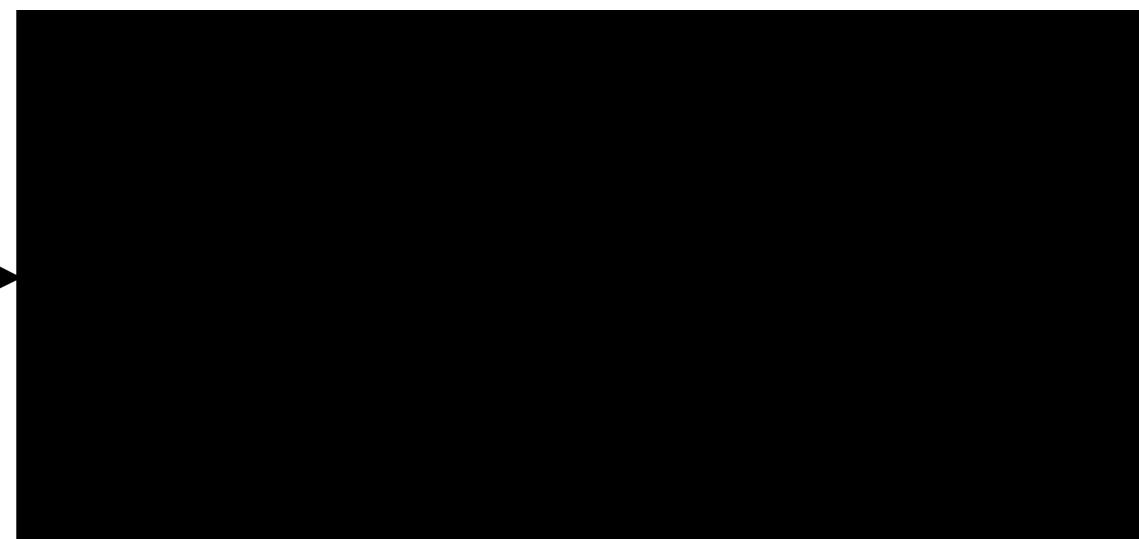
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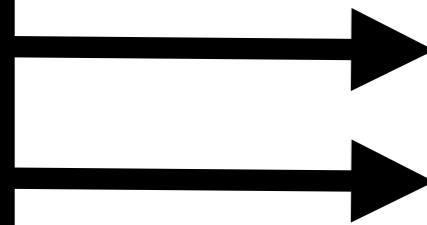
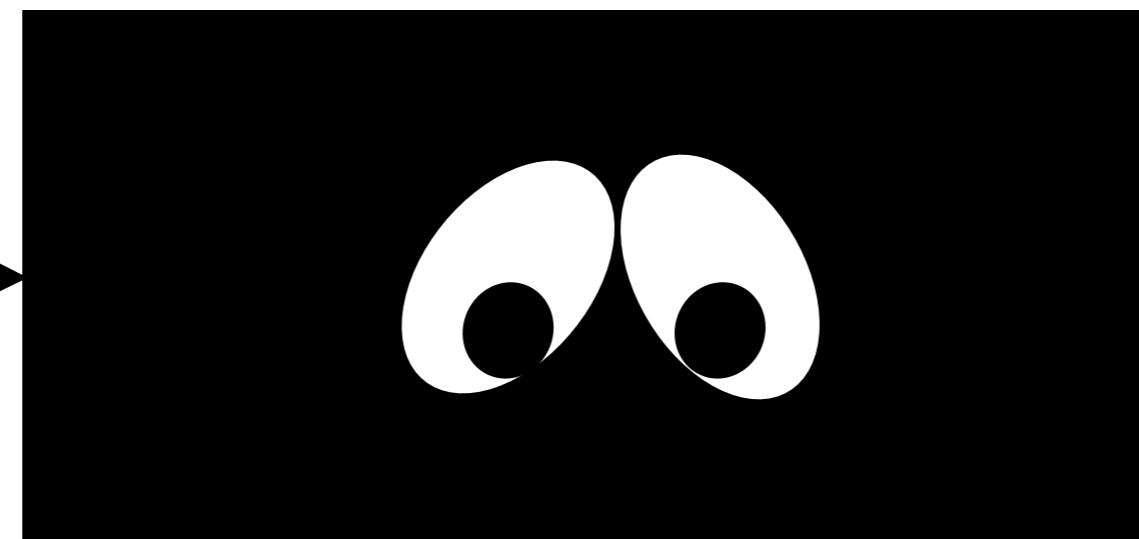
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Updated: February 1, 2018  
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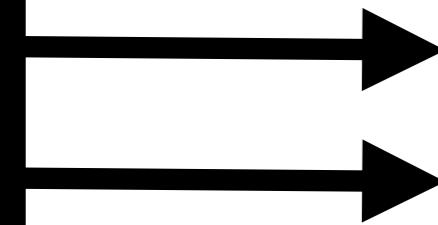
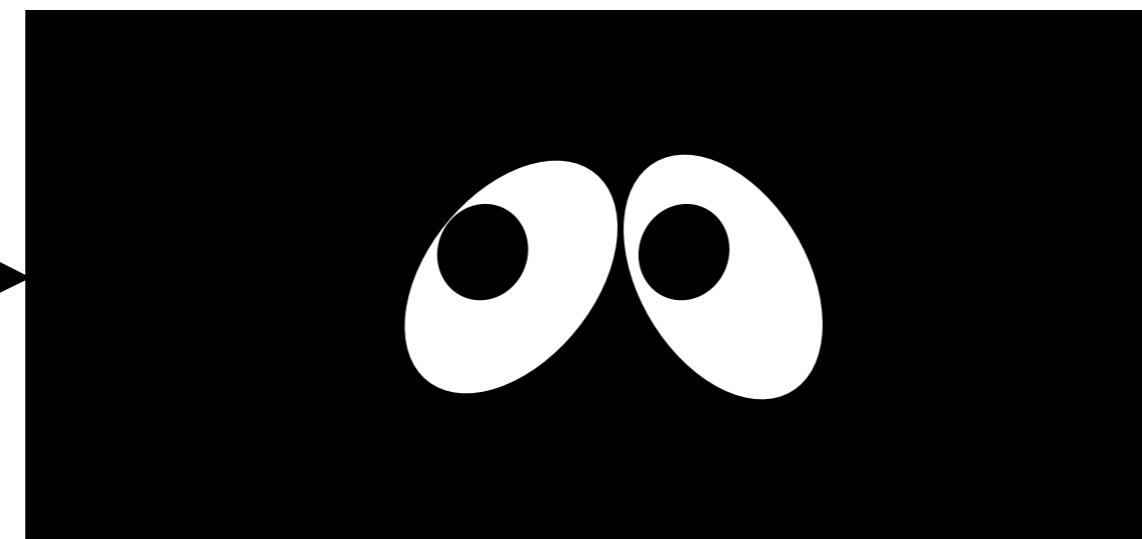


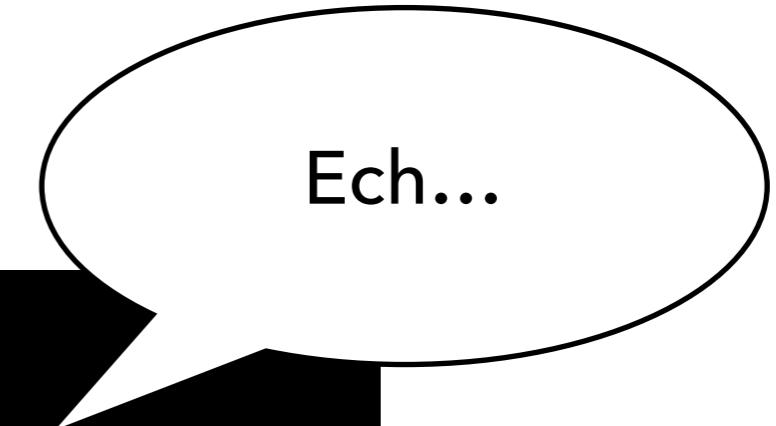
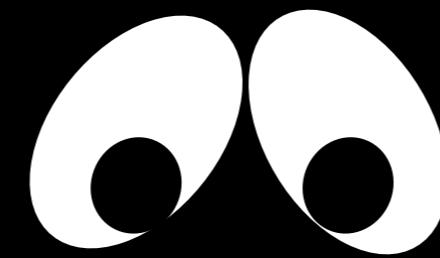


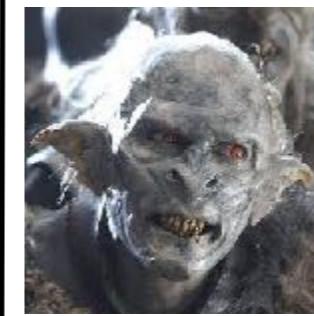
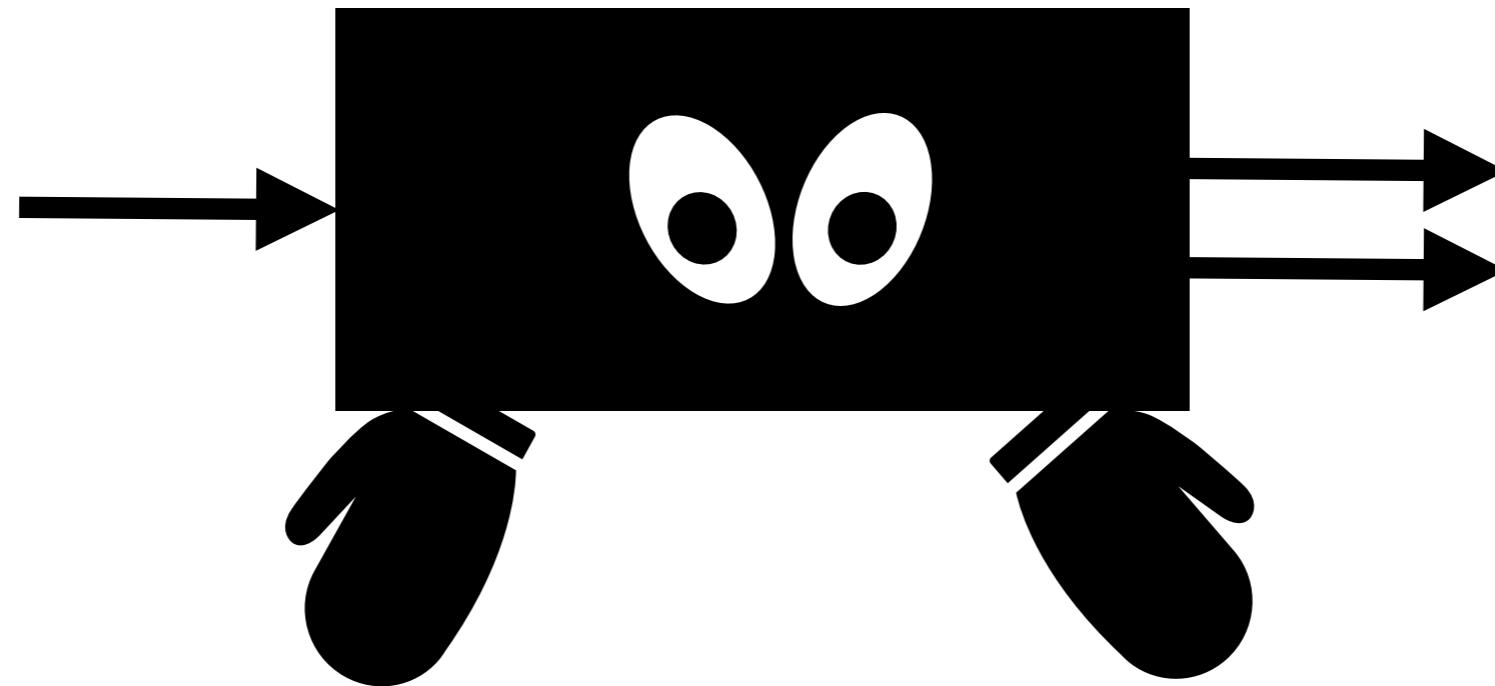


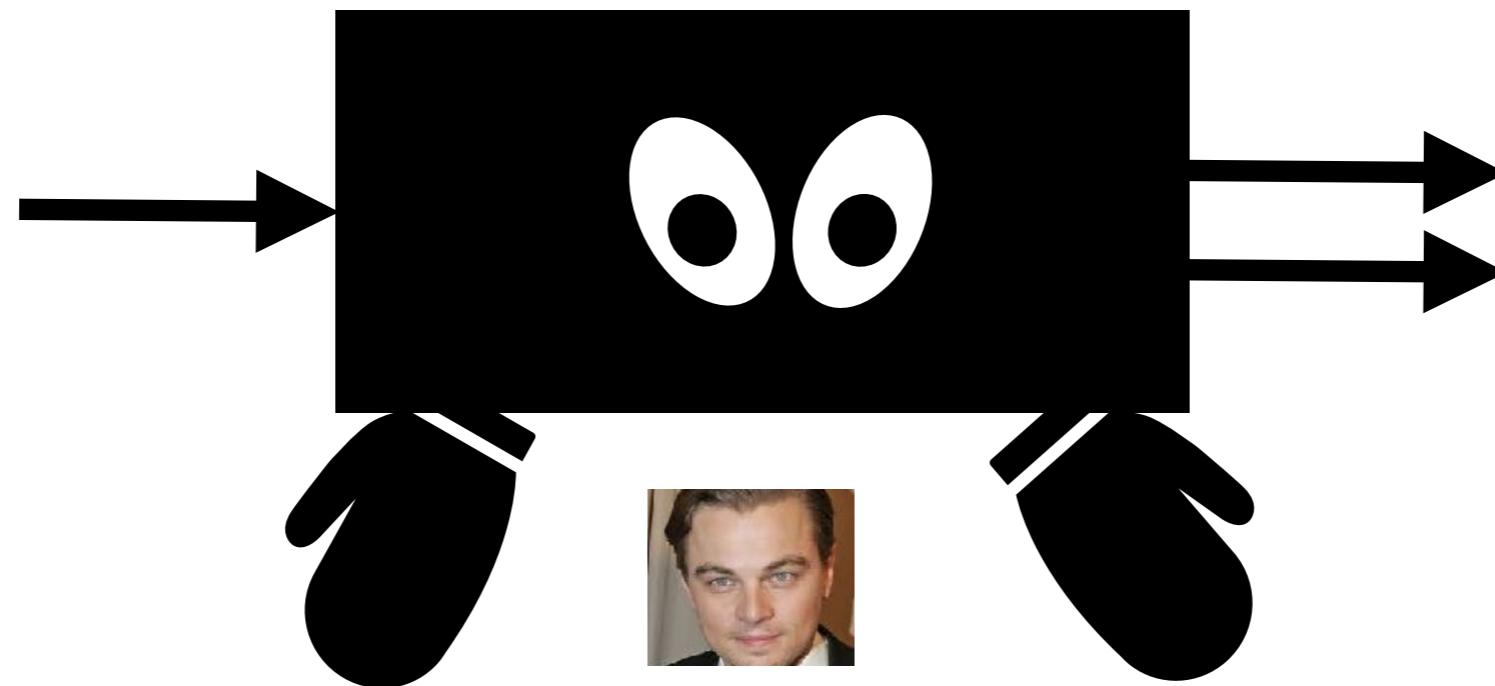


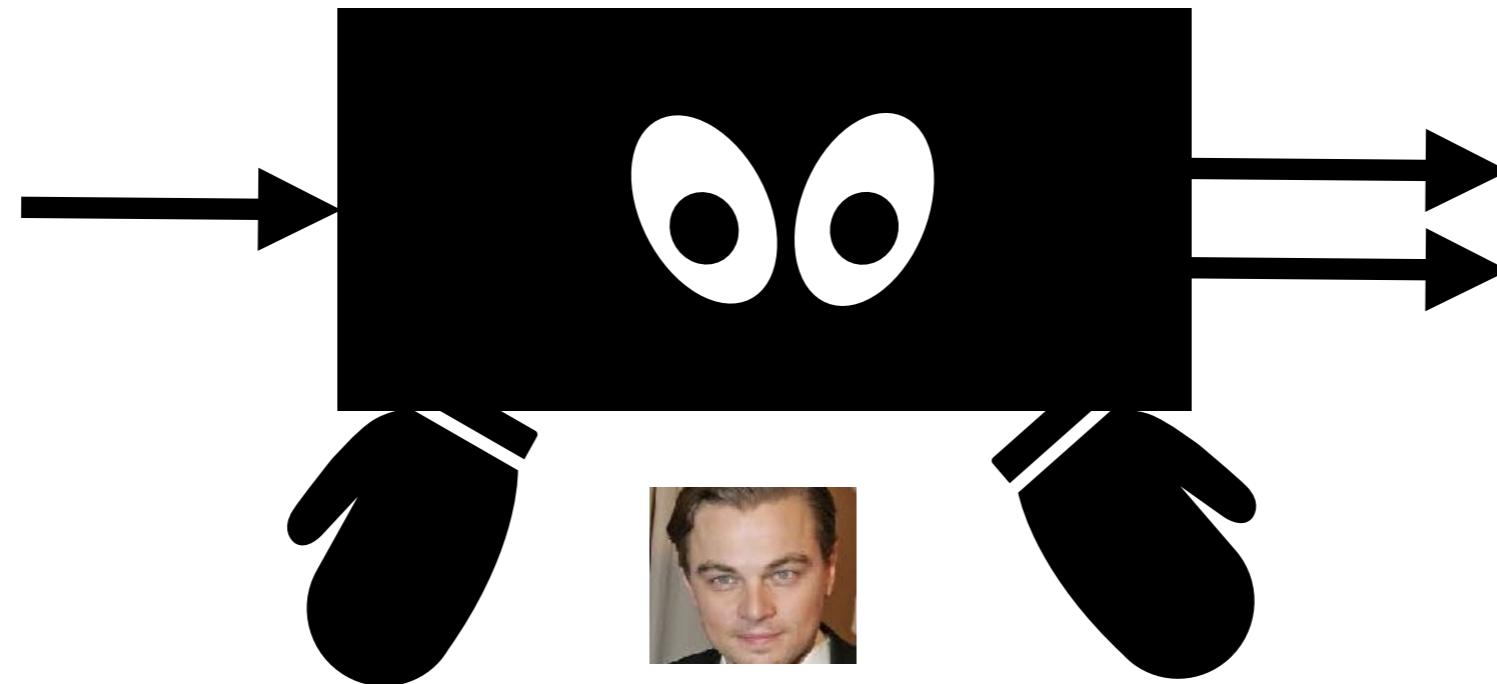




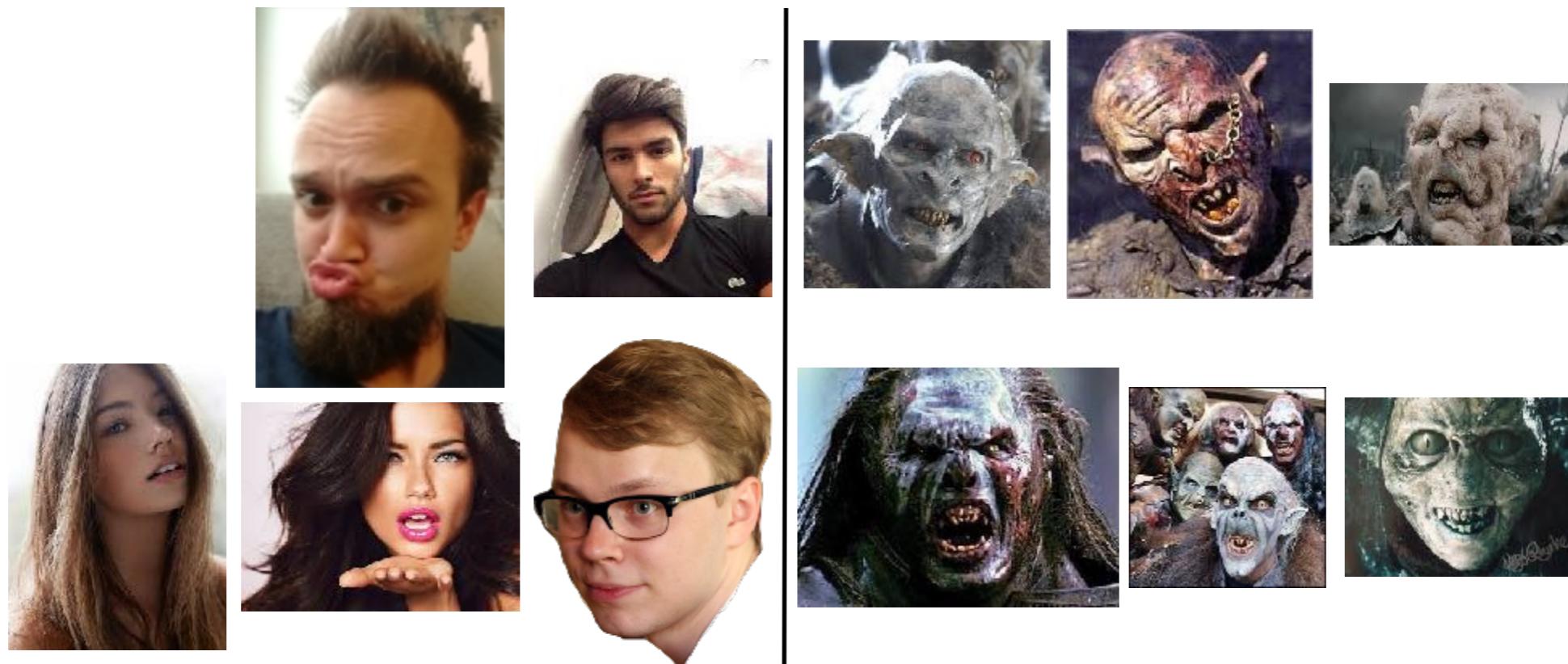


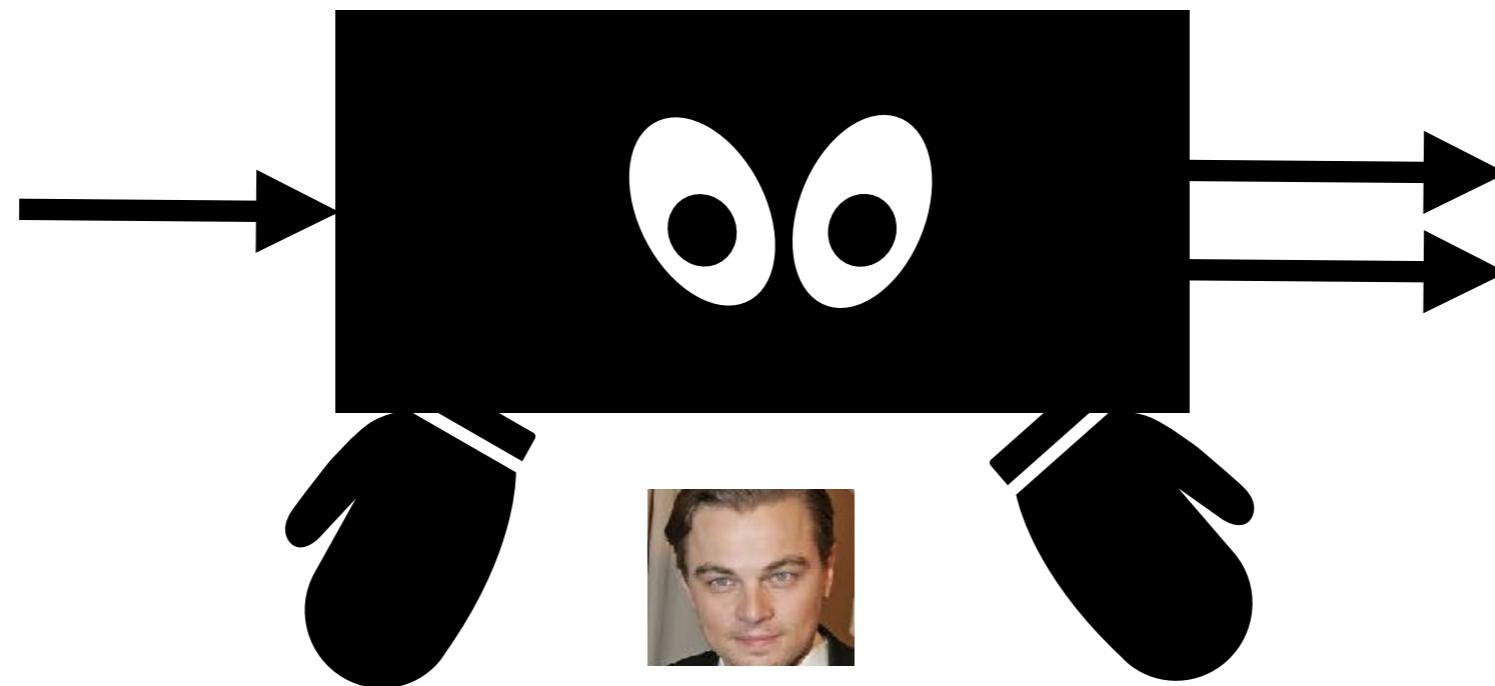


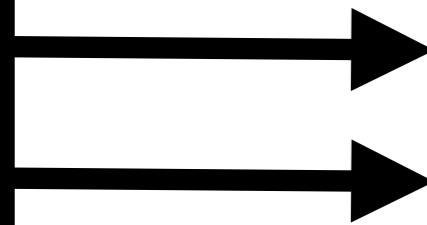
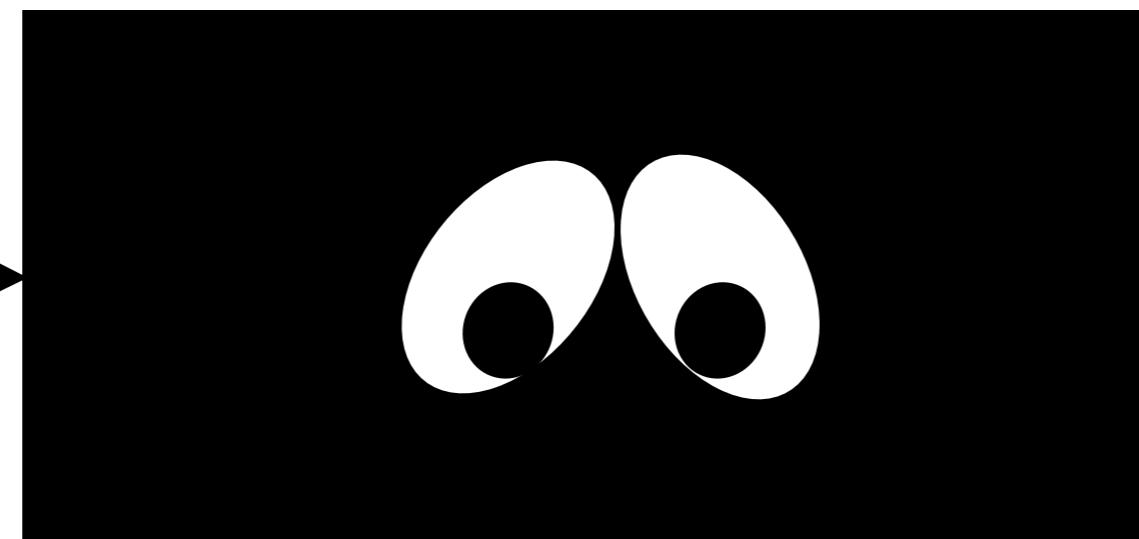


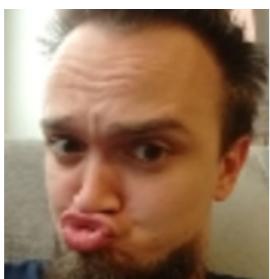


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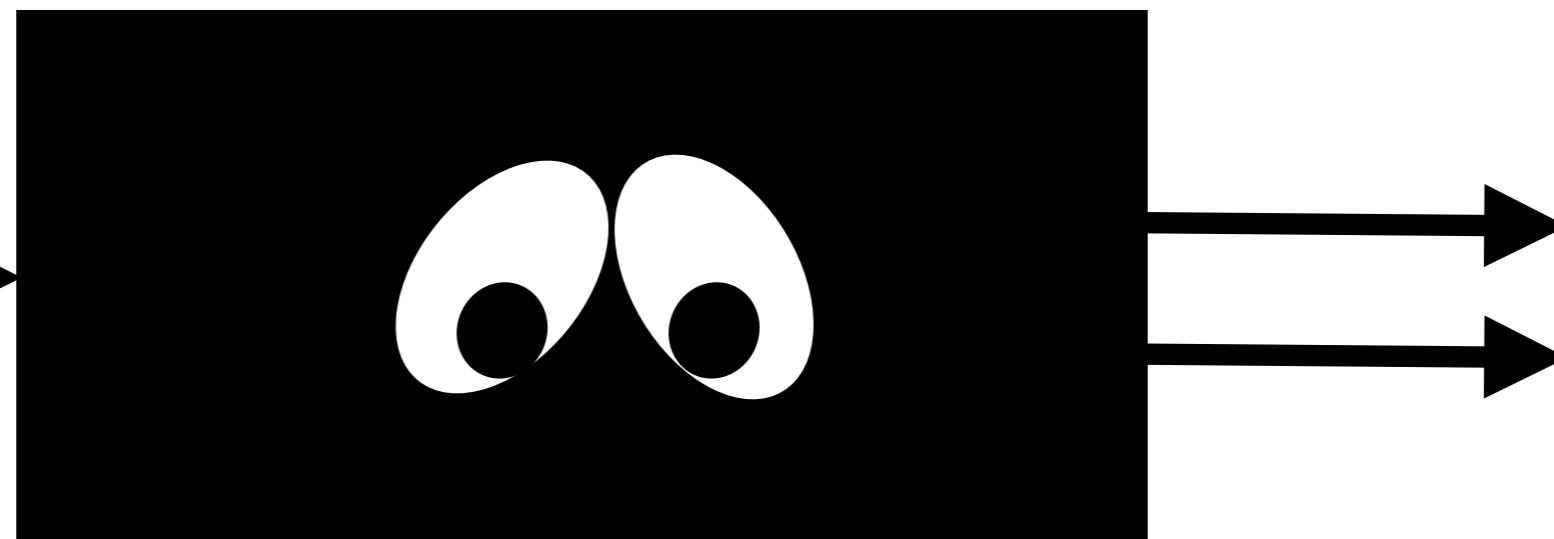


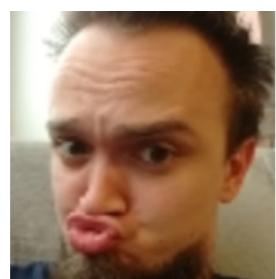




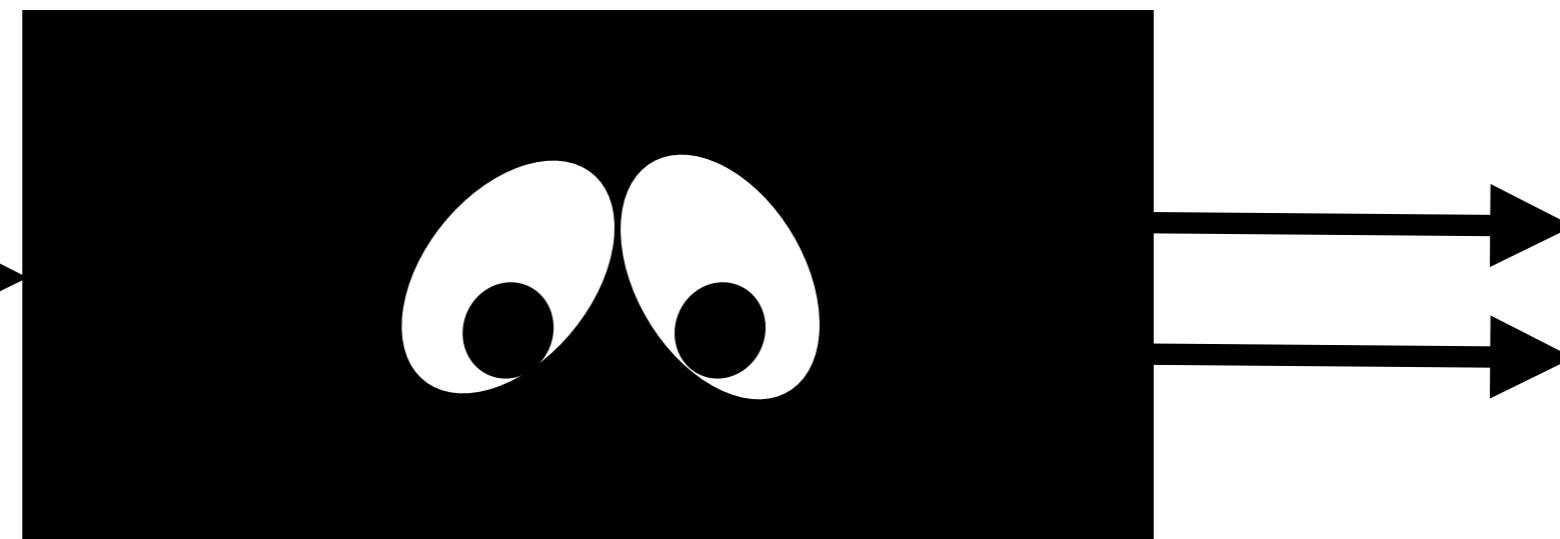
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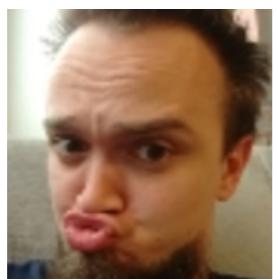
**224**





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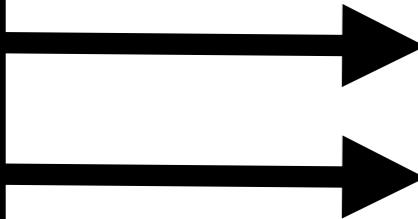
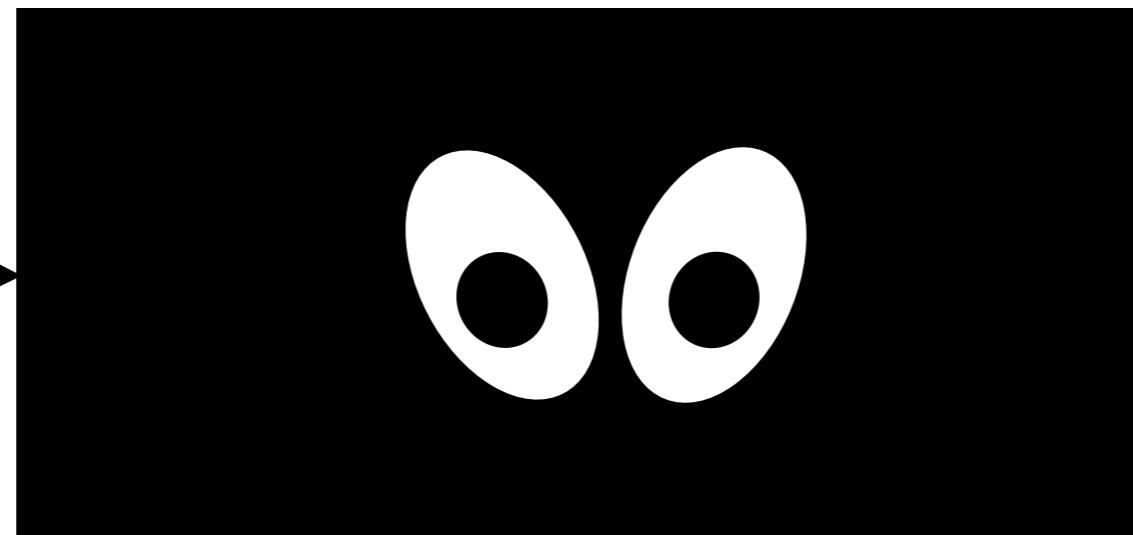


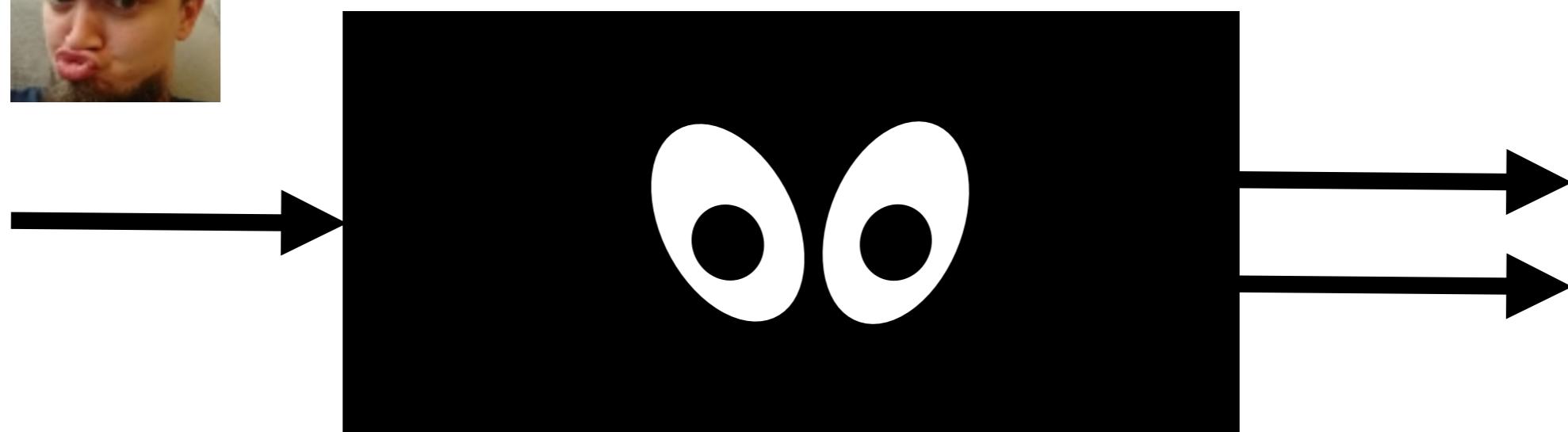
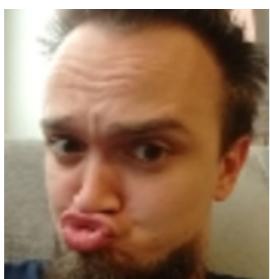


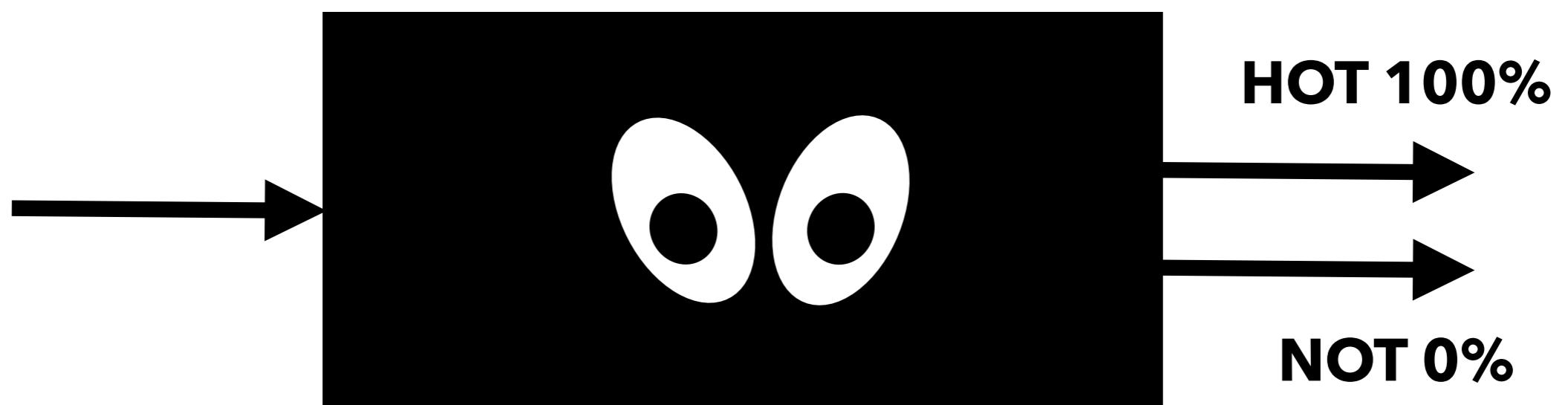
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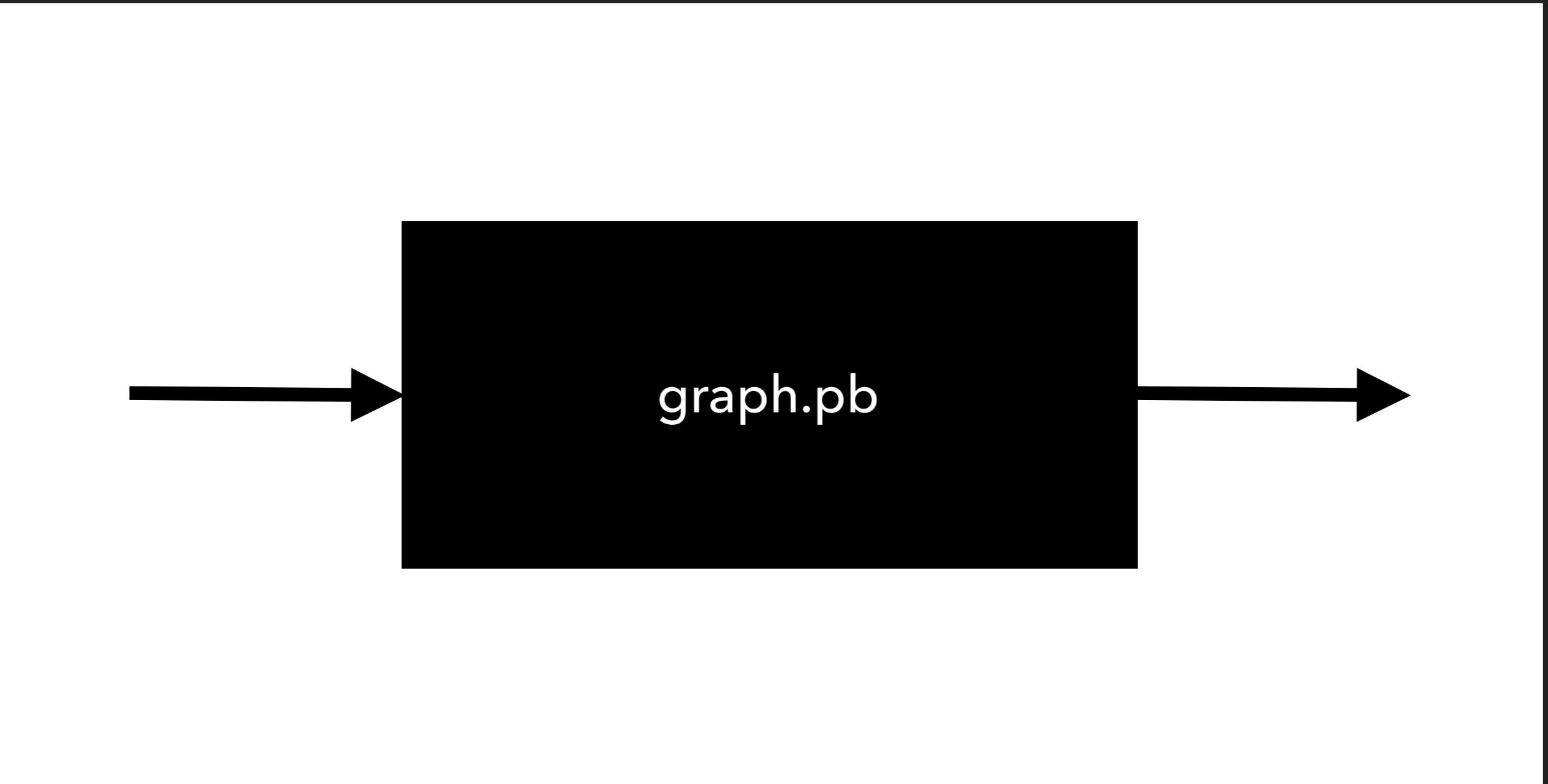


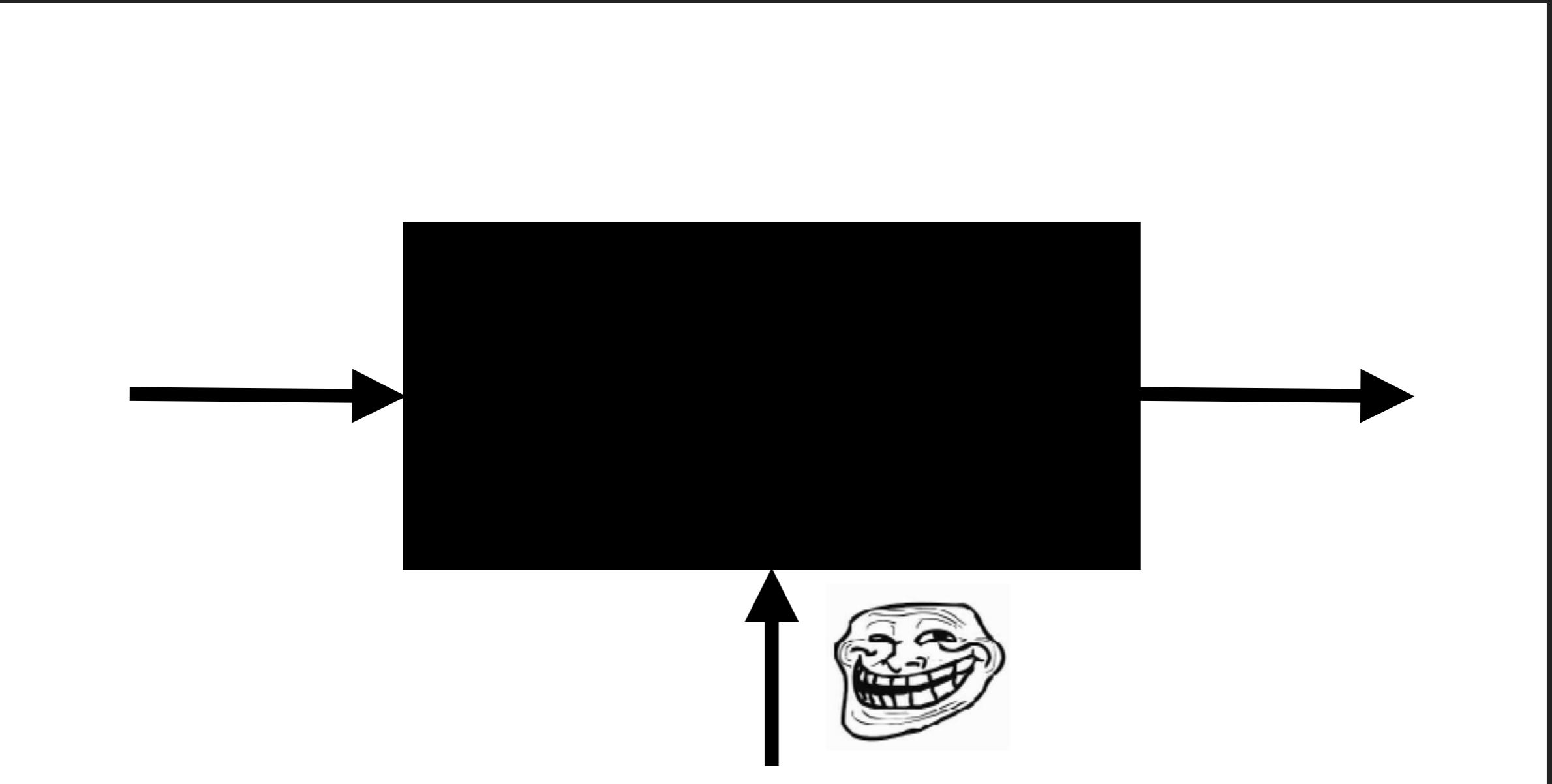
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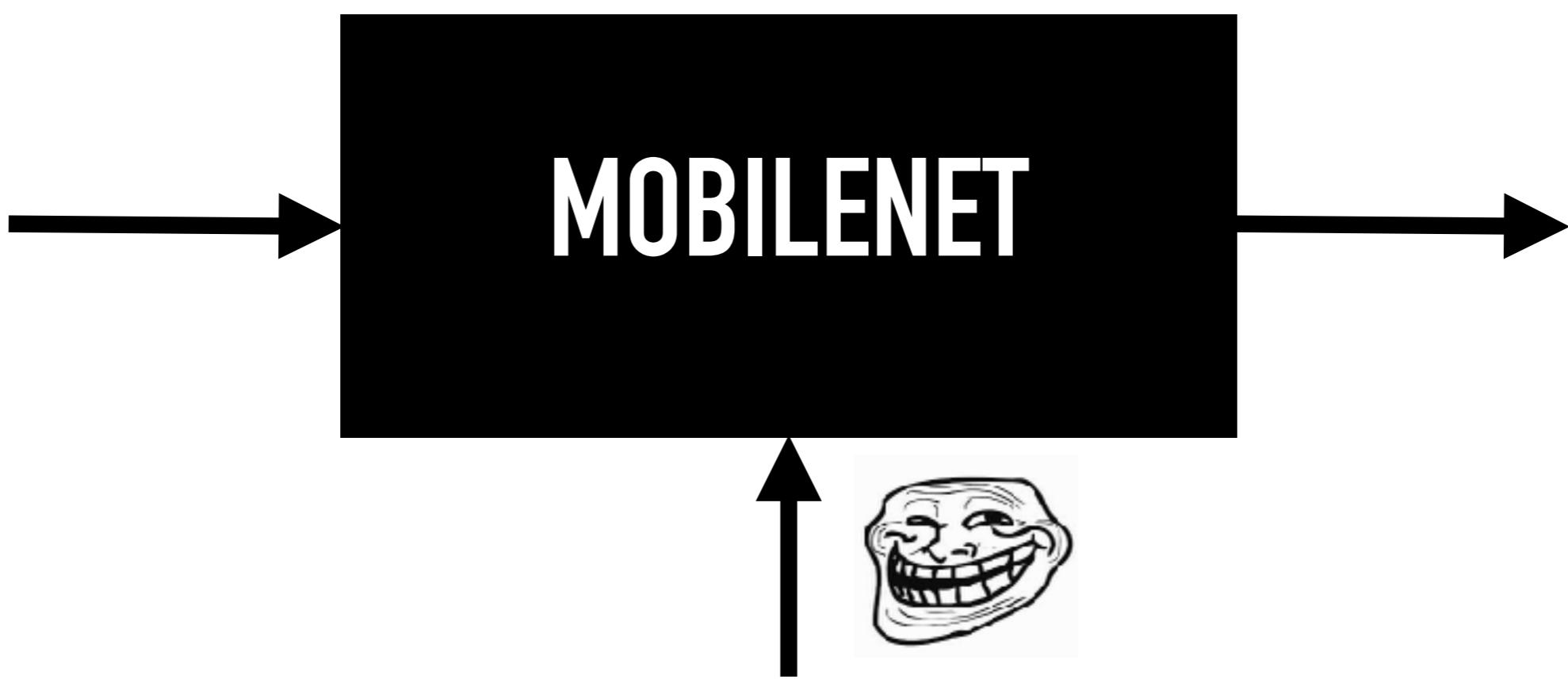












# MOBILENET

Model	TF-Slim File	Checkpoint	Top-1 Accuracy	Top-5 Accuracy
Inception V1	Code	inception_v1_2016_08_28.tar.gz	69.8	89.6
Inception V2	Code	inception_v2_2016_08_28.tar.gz	73.9	91.8
Inception V3	Code	inception_v3_2016_08_28.tar.gz	78.0	93.9
Inception V4	Code	inception_v4_2016_09_09.tar.gz	80.2	95.2
Inception-ResNet-v2	Code	inception_resnet_v2_2016_08_30.tar.gz	80.4	95.3
ResNet V1 50	Code	resnet_v1_50_2016_08_28.tar.gz	75.2	92.2
ResNet V1 101	Code	resnet_v1_101_2016_08_28.tar.gz	76.4	92.9
ResNet V1 152	Code	resnet_v1_152_2016_08_28.tar.gz	76.8	93.2
ResNet V2 50^	Code	resnet_v2_50_2017_04_14.tar.gz	75.6	92.8
ResNet V2 101^	Code	resnet_v2_101_2017_04_14.tar.gz	77.0	93.7
ResNet V2 152^	Code	resnet_v2_152_2017_04_14.tar.gz	77.8	94.1
ResNet V2 200	Code	TBA	79.9*	95.2*
VGG 16	Code	vgg_16_2016_08_28.tar.gz	71.5	89.8
VGG 19	Code	vgg_19_2016_08_28.tar.gz	71.1	89.8
MobileNet_v1_1.0_224	Code	mobilenet_v1_1.0_224_2017_06_14.tar.gz	70.7	89.5
MobileNet_v1_0.50_160	Code	mobilenet_v1_0.50_160_2017_06_14.tar.gz	59.9	82.5
MobileNet_v1_0.25_128	Code	mobilenet_v1_0.25_128_2017_06_14.tar.gz	41.3	66.2
NASNet-A_Mobile_224#	Code	nasnet-a_mobile_04_10_2017.tar.gz	74.0	91.6
NASNet-A_Large_331#	Code	nasnet-a_large_04_10_2017.tar.gz	82.7	96.2

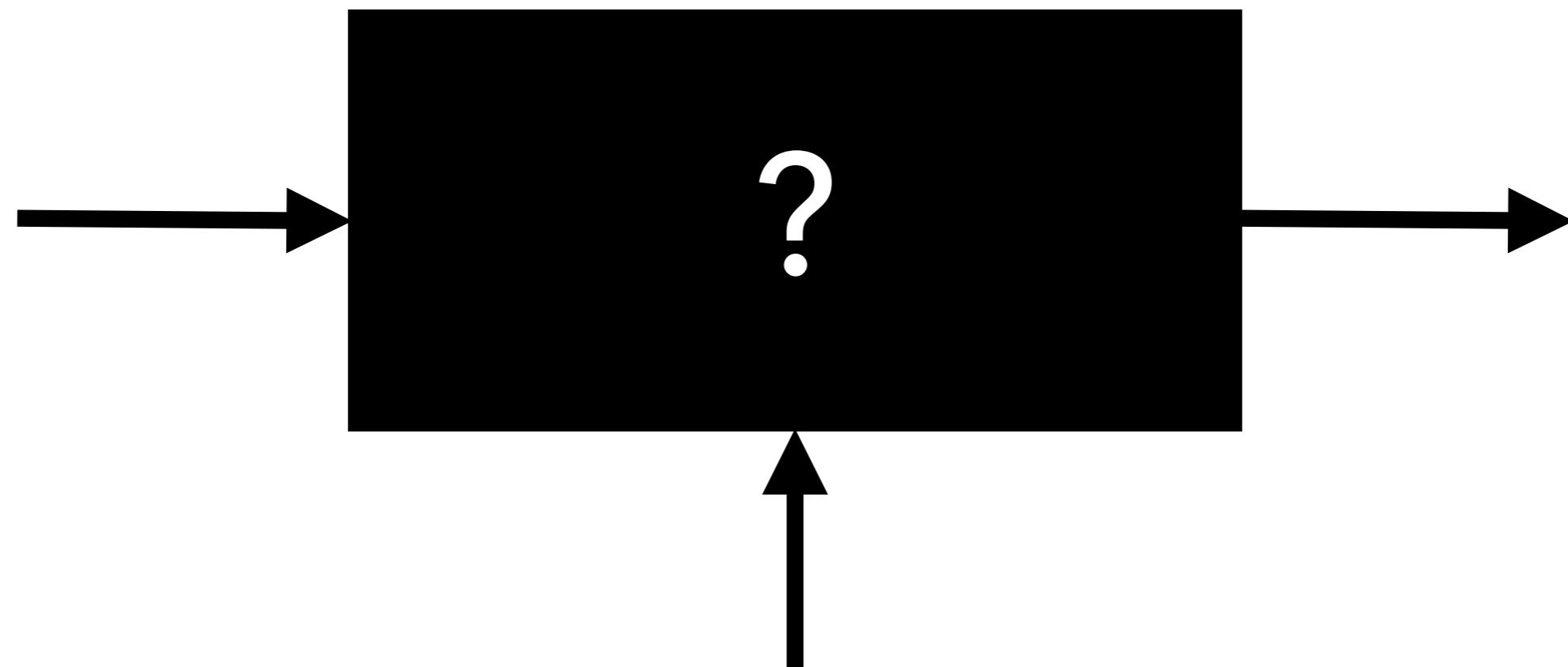
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Inception V2	Code	<a href="#">inception_v2_2016_08_28.tar.gz</a>	73.9	91.8
Inception V3	Code	<a href="#">inception_v3_2016_08_28.tar.gz</a>	78.0	93.9
Inception V4	Code	<a href="#">inception_v4_2016_09_09.tar.gz</a>	80.2	95.2
Inception-ResNet-v2	Code	<a href="#">inception_resnet_v2_2016_08_30.tar.gz</a>	80.4	95.3
		<b>70.7      89.5</b>		2 9 2
ResNet V2 50^	Code	<a href="#">resnet_v2_50_2017_04_14.tar.gz</a>	75.6	92.8
ResNet V2 101^	Code	<a href="#">resnet_v2_101_2017_04_14.tar.gz</a>	77.0	93.7
ResNet V2 152^	Code	<a href="#">resnet_v2_152_2017_04_14.tar.gz</a>	77.8	94.1
ResNet V2 200	Code	TBA	79.9*	95.2*
VGG 16	Code	<a href="#">vgg_16_2016_08_28.tar.gz</a>	71.5	89.8
VGG 19	Code	<a href="#">vgg_19_2016_08_28.tar.gz</a>	71.1	89.8
MobileNet_v1_1.0_224	Code	<a href="#">mobilenet_v1_1.0_224_2017_06_14.tar.gz</a>	70.7	89.5
MobileNet_v1_0.50_160	Code	<a href="#">mobilenet_v1_0.50_160_2017_06_14.tar.gz</a>	59.9	82.5
MobileNet_v1_0.25_128	Code	<a href="#">mobilenet_v1_0.25_128_2017_06_14.tar.gz</a>	41.3	66.2
NASNet-A_Mobile_224#	Code	<a href="#">nasnet-a_mobile_04_10_2017.tar.gz</a>	74.0	91.6
NASNet-A_Large_331#	Code	<a href="#">nasnet-a_large_04_10_2017.tar.gz</a>	82.7	96.2

# INCEPTION - 95MB

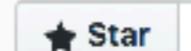
Model	TF-Slim File	Checkpoint	Top-1 Accuracy	Top-5 Accuracy
Inception V1	Code	inception_v1_2016_08_28.tar.gz	69.8	89.6
Inception V2	Code	inception_v2_2016_08_28.tar.gz	73.9	91.8
Inception V3	Code	inception_v3_2016_08_28.tar.gz	78.0	93.9
Inception V4	Code	inception_v4_2016_09_09.tar.gz	80.2	95.2
Inception-ResNet-v2	Code	inception_resnet_v2_2016_08_30.tar.gz	80.4	95.3
ResNet V1 50	Code	resnet_v1_50_2016_08_28.tar.gz	75.2	92.2
ResNet V1 101	Code	resnet_v1_101_2016_08_28.tar.gz	76.4	92.9
ResNet V1 152	Code	resnet_v1_152_2016_08_28.tar.gz	76.8	93.2
R			8	
R		80.2	95.2	7
R				.1
ResNet V2 200	Code	TBA	79.9*	95.2*
VGG 16	Code	vgg_16_2016_08_28.tar.gz	71.5	89.8
VGG 19	Code	vgg_19_2016_08_28.tar.gz	71.1	89.8
MobileNet_v1_1.0_224	Code	mobilenet_v1_1.0_224_2017_06_14.tar.gz	70.7	89.5
MobileNet_v1_0.50_160	Code	mobilenet_v1_0.50_160_2017_06_14.tar.gz	59.9	82.5
MobileNet_v1_0.25_128	Code	mobilenet_v1_0.25_128_2017_06_14.tar.gz	41.3	66.2
NASNet-A_Mobile_224#	Code	nasnet-a_mobile_04_10_2017.tar.gz	74.0	91.6
NASNet-A_Large_331#	Code	nasnet-a_large_04_10_2017.tar.gz	82.7	96.2

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 **yongtang** and **caisq** Fix logging format error in retrain.py (#16738)  Latest commit bd0d204 2 days ago

..

	data	Add <code>label_image.py</code> that works with <code>retrain.py</code> .	9 months ago
	BUILD	Delete duplicate <code>label_image</code> script.	3 months ago
	README.md	Create documentation for <code>retrain.py</code> to describe addition of fixed poi...	3 months ago
	<code>__init__.py</code>	Fix <code>retrain_test</code> pip package issue	2 years ago
	<code>retrain.py</code>	Fix logging format error in <code>retrain.py</code> (#16738)	2 days ago
	<code>retrain_test.py</code>	Clear softmax_v2 warning for <code>image_retraining</code> and <code>speech_commands</code> tut...	2 months ago

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yongtang and caisq Fix logging format error in retrain.py ..

data Add label\_image.py then remove it. Rename it to retrain.py. 9 months ago

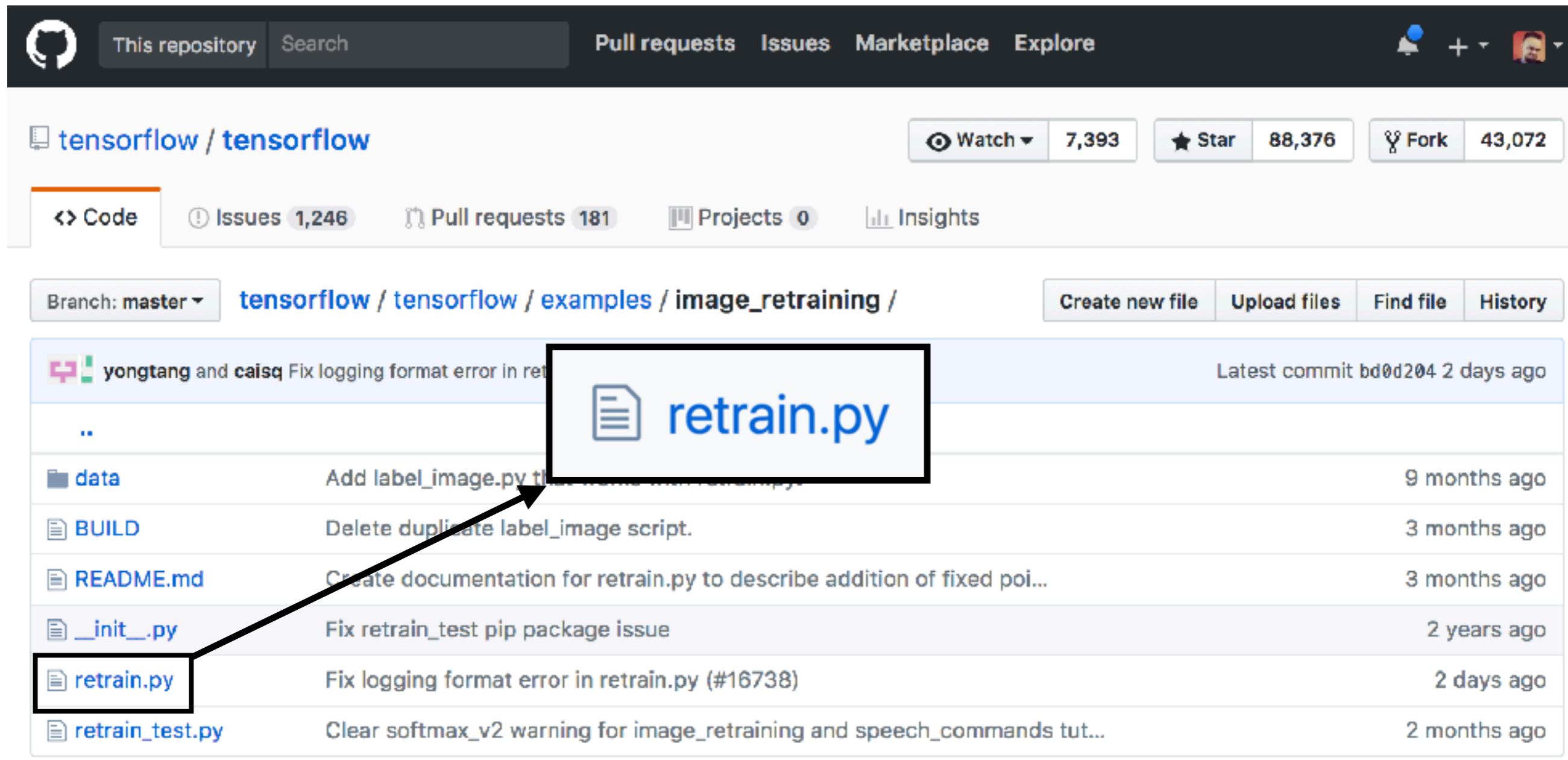
BUILD Delete duplicate label\_image script. 3 months ago

README.md Create documentation for retrain.py to describe addition of fixed poi... 3 months ago

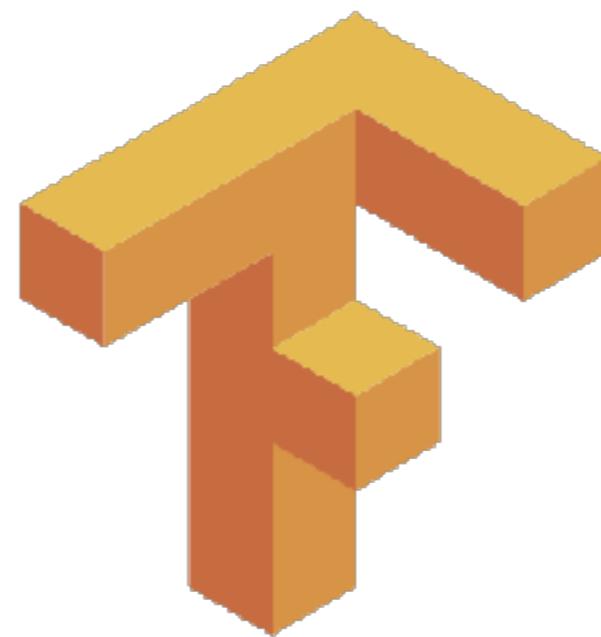
\_\_init\_\_.py Fix retrain\_test pip package issue 2 years ago

retrain.py Fix logging format error in retrain.py (#16738) 2 days ago

retrain\_test.py Clear softmax\_v2 warning for image\_retraining and speech\_commands tut... 2 months ago



# MOBILENET



# MOBILENET



**ANACONDA<sup>®</sup>**

# MOBILENET

```
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ python -m \
> retrain \
> --how_many_training_steps=500 \
> --output_graph=hot_or_not/retrained_graph.pb \
> --output_labels=hot_or_not/retrained_labels.txt \
> --architecture=mobilenet_0.50_224 \
> --image_dir=hot_or_not/photos
```

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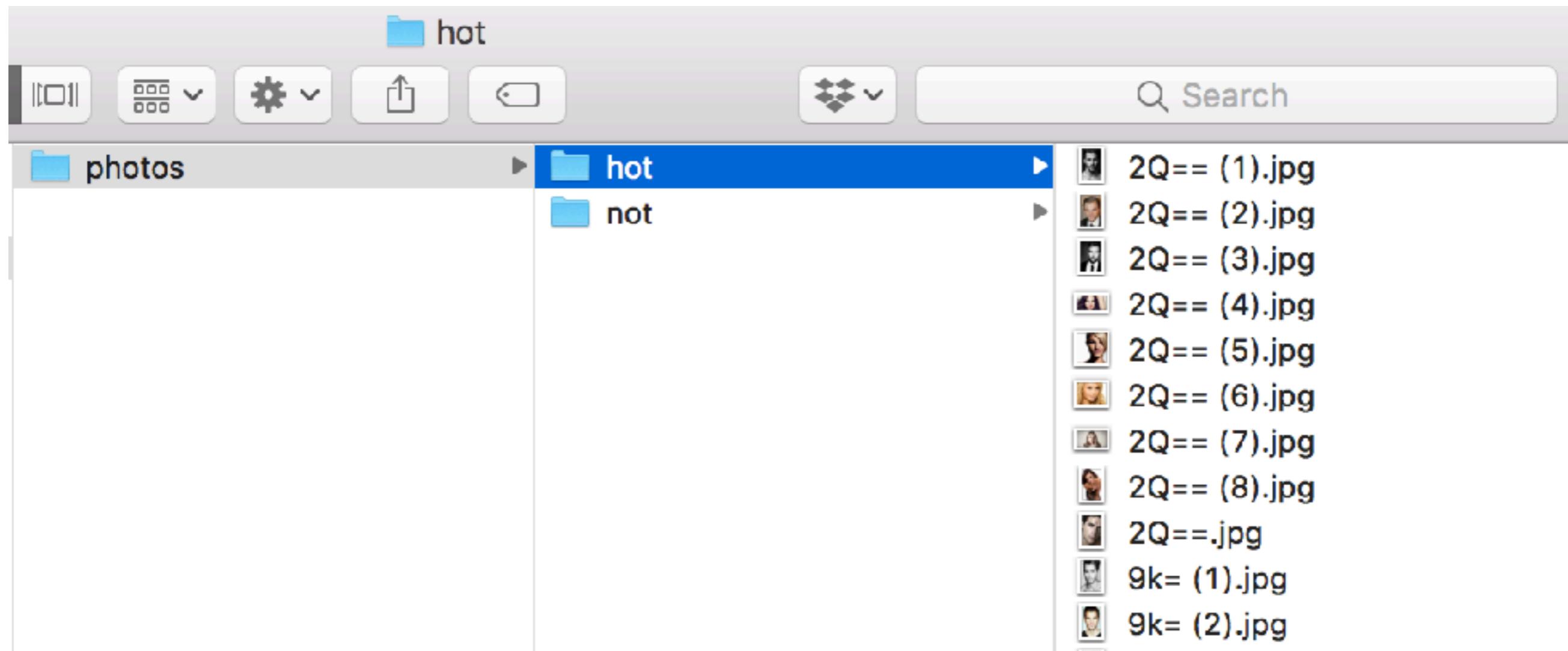
# MOBILENET

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(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ python -m \
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# MOBILENET



# MOBILENET

```
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ python -m \
> tensorflow.python.tools.optimize_for_inference \
>   --input=hot_or_not/retrained_graph.pb \
>   --output=hot_or_not/optimized_graph.pb \
>   --input_names="input" \
>   --output_names="final_result"
```

# MOBILENET

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(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow workspace Makor$ python -m \
> tensorflow.python.tools.optimize_for_inference \
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```

# MOBILENET

```
(tfexample) Mateuszs-MacBook-Pro-5:hot_or_not Makor$ ls -lh  
total 21360  
-rw-r--r-- 1 Makor  staff  5.2M Feb 12 16:45 optimized_graph.pb  
drwxr-xr-x 5 Makor  staff  160B Feb 10 11:14 photos  
-rw-r--r-- 1 Makor  staff  5.2M Feb 12 16:45 retrained_graph.pb  
-rw-r--r-- 1 Makor  staff   8B Feb 12 16:45 retrained_labels.txt  
(tfexample) Mateuszs-MacBook-Pro-5:hot_or_not Makor$
```

# MOBILENET

```
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ python -m \  
 > quantize_graph \  
 >   --input=hot_or_not/optimized_graph.pb \  
 >   --output=hot_or_not/rounded_graph.pb \  
 >   --output_node_names=final_result \  
 >   --mode=weights_rounded
```

# MOBILENET

```
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ python -m \
> quantize_graph \
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# MOBILENET

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(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ gzip -c \
> hot_or_not/optimized_graph.pb > hot_or_not/optimized_graph.pb.gz
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ gzip -c \
> hot_or_not/rounded_graph.pb > hot_or_not/rounded_graph.pb.gz
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ gzip -l \
> hot_or_not/optimized_graph.pb.gz
      compressed   uncompressed   ratio   uncompressed_name
      5018643       5448628    7.8%  hot_or_not/optimized_graph.pb
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ gzip -l \
> hot_or_not/rounded_graph.pb.gz
      compressed   uncompressed   ratio   uncompressed_name
      1624813       5448647   70.1%  hot_or_not/rounded_graph.pb
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$
```

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```

# MOBILENET

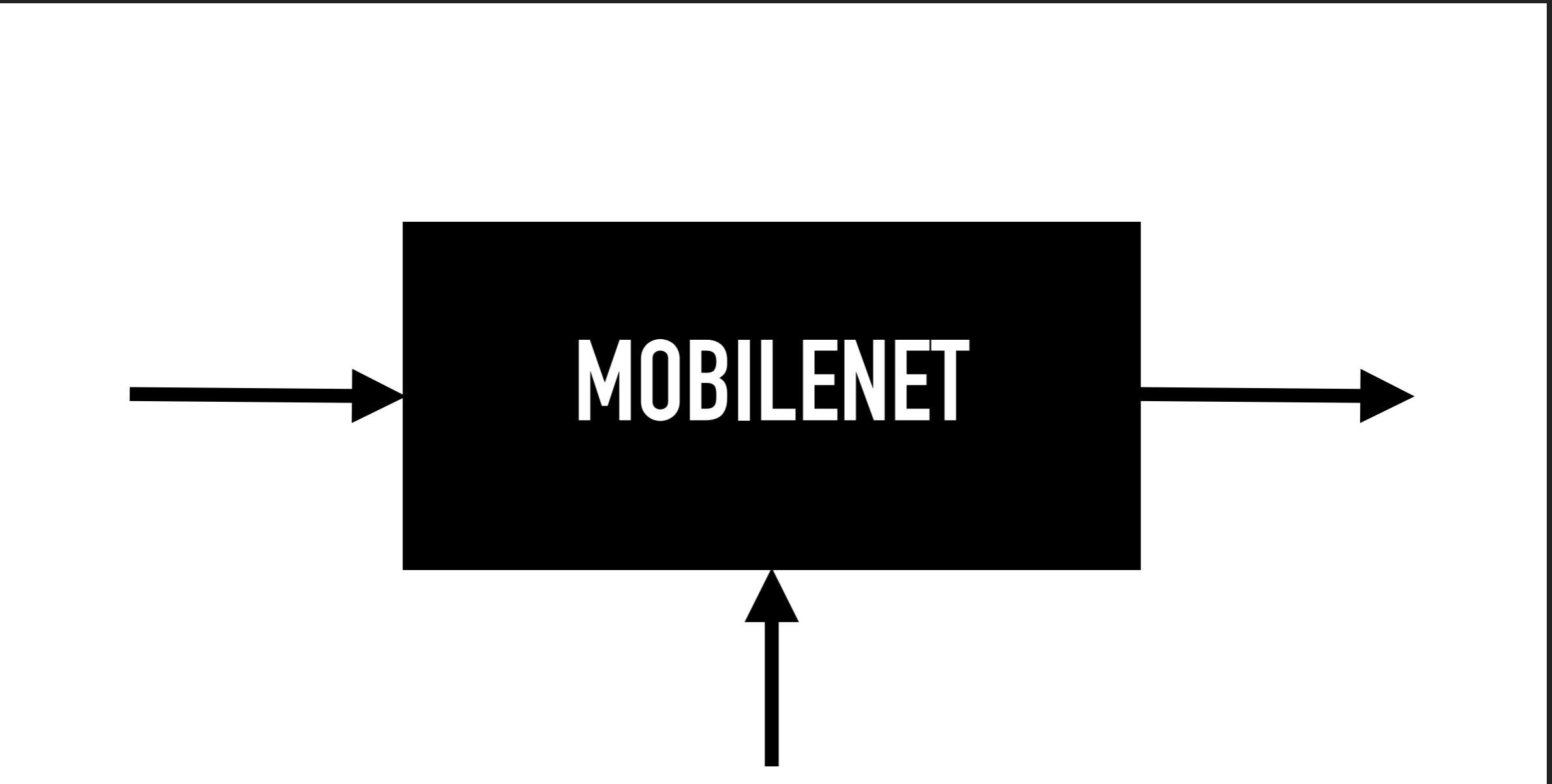
```
(tfexample) Mateuszs-MacBook-Pro-5:Tensorflow_workspace Makor$ gzip -c \
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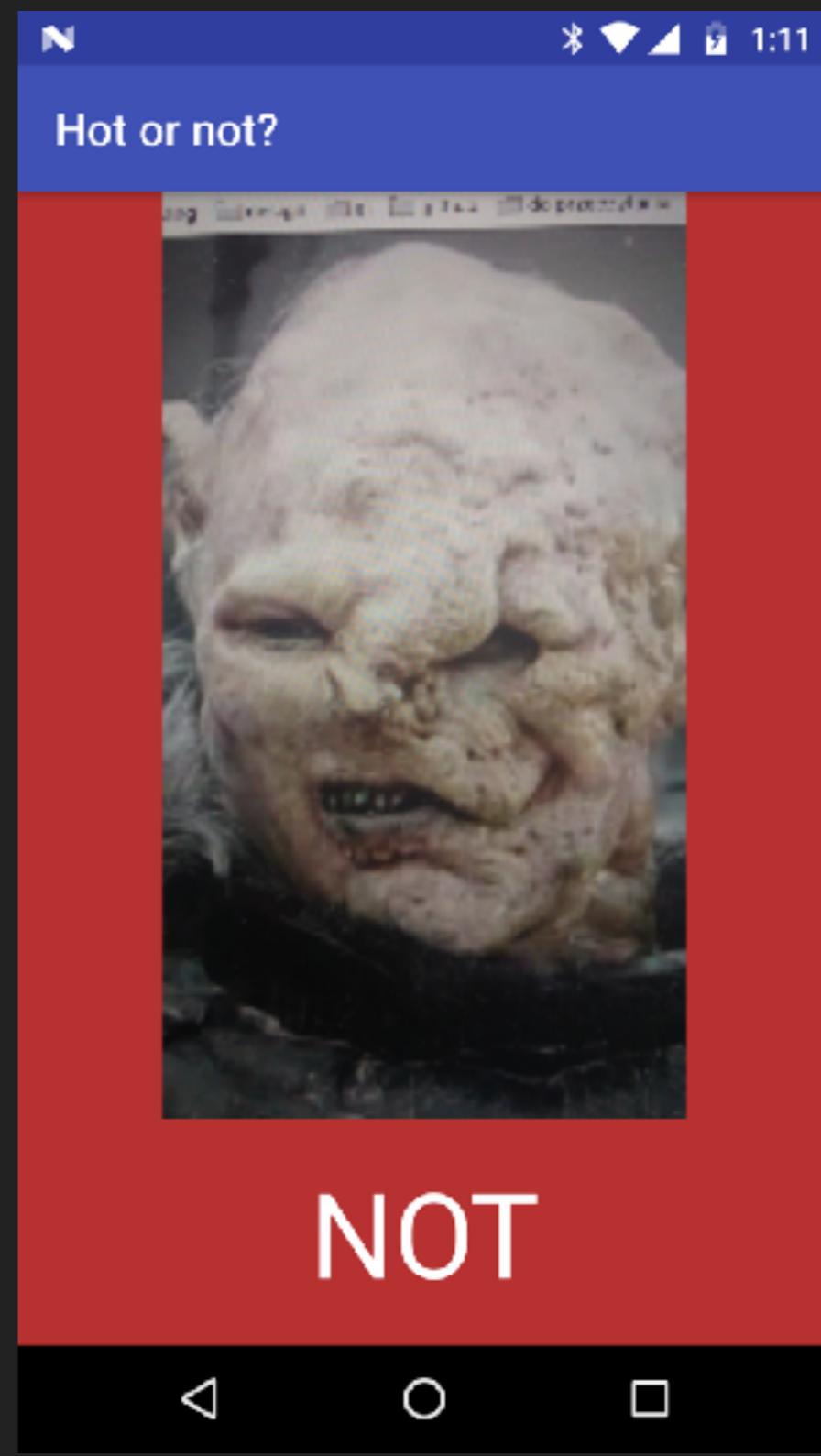
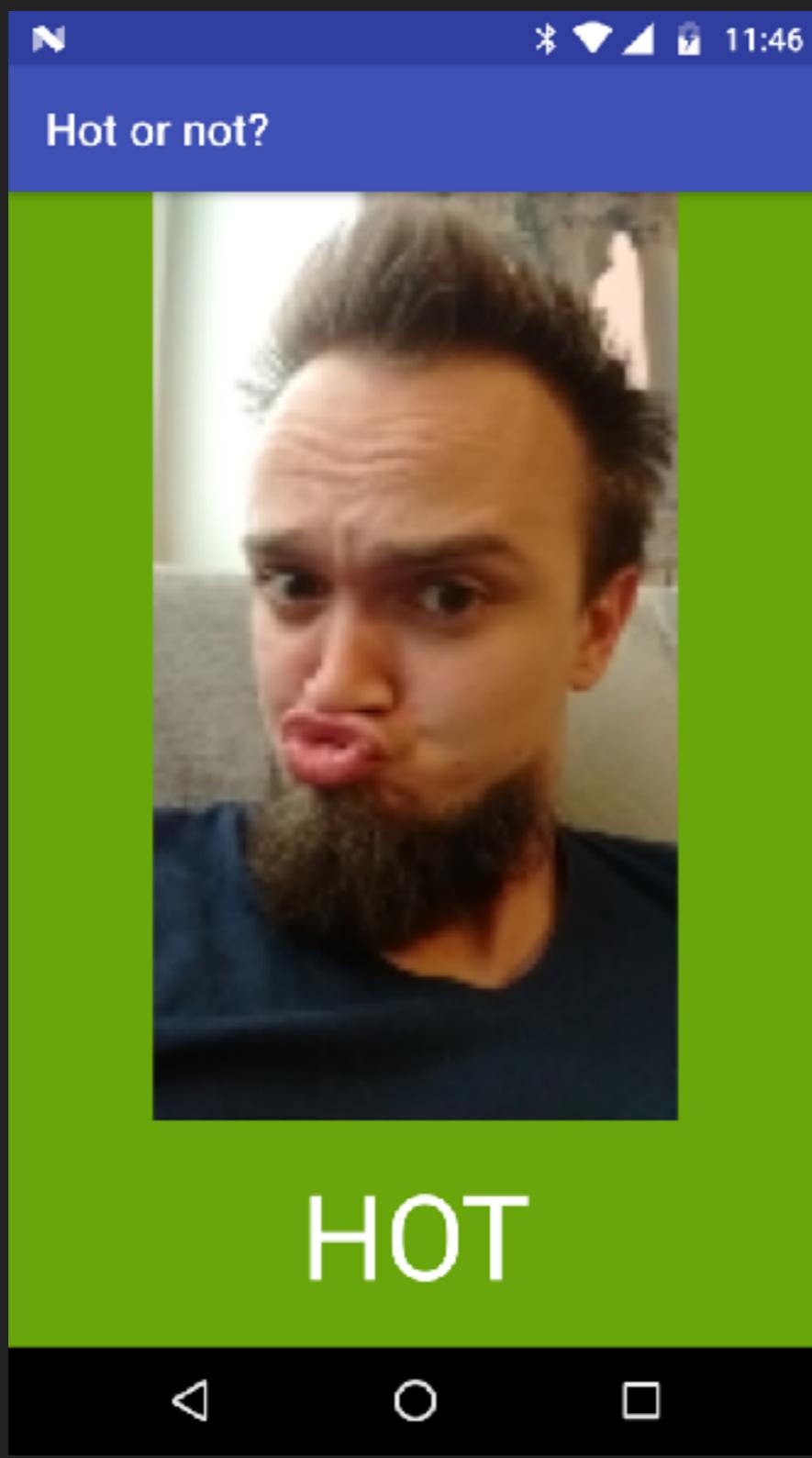
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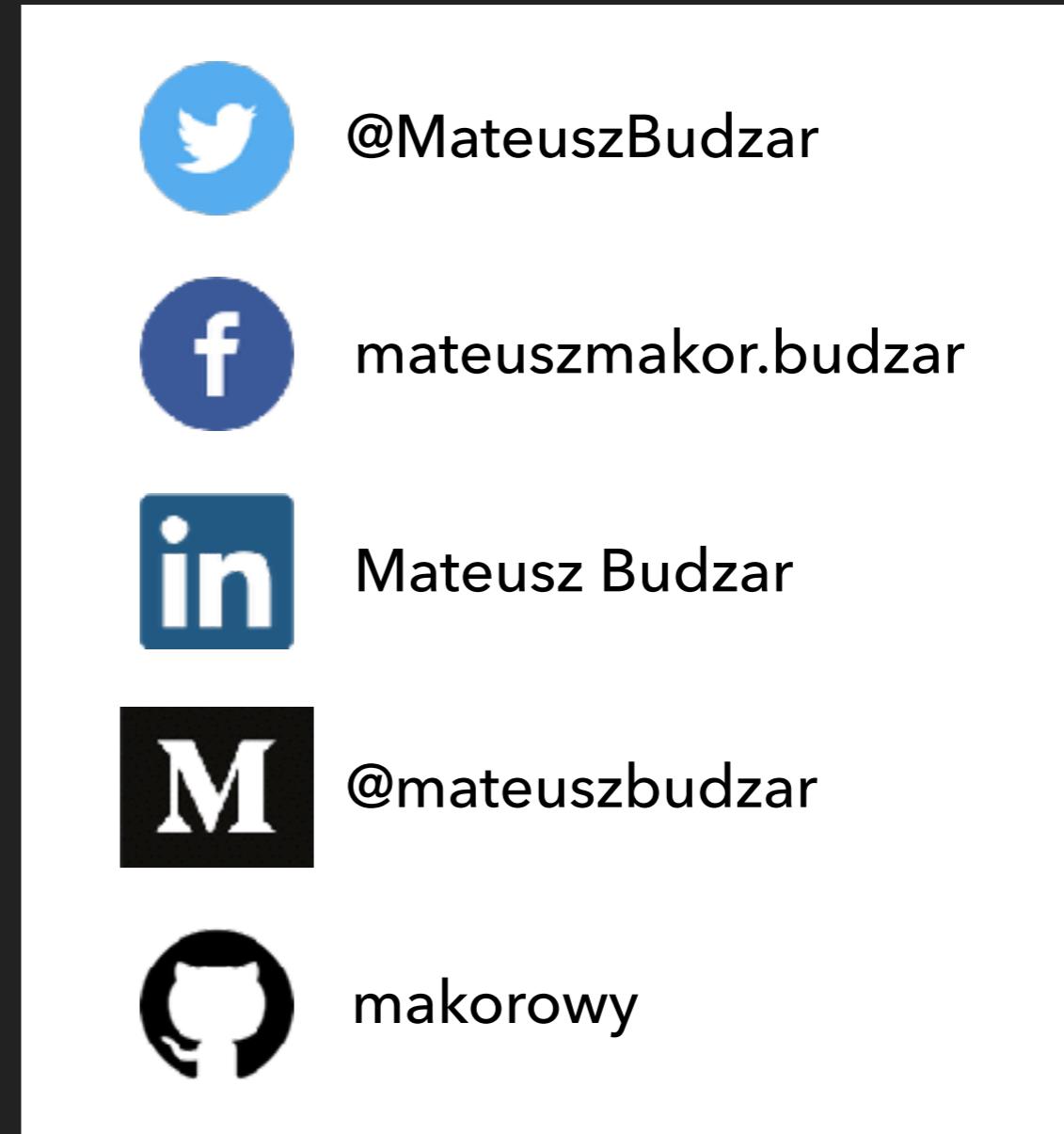
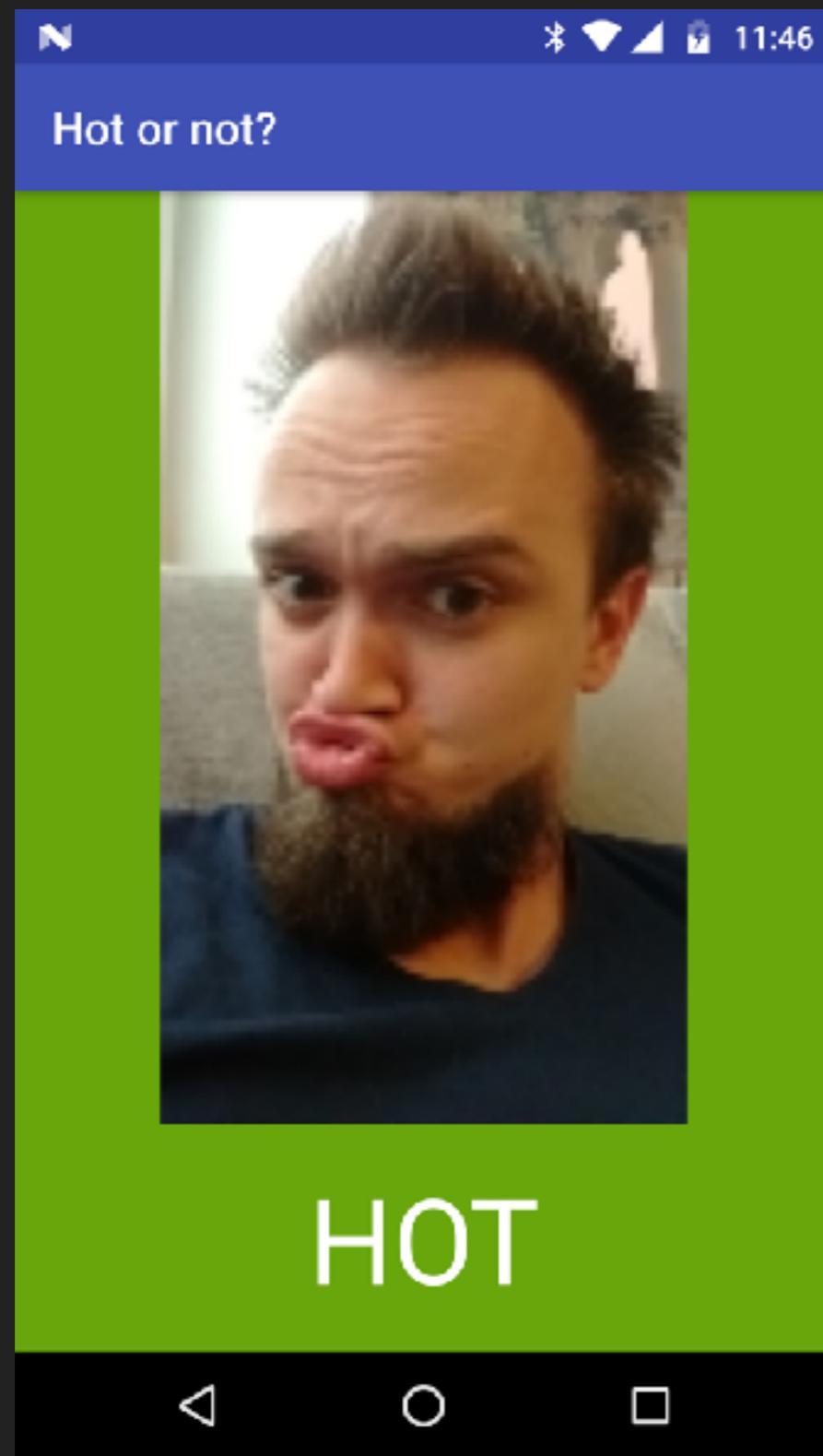
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```









**DZIĘKUJĘ ZA UWAGĘ!**

# Q&A

# LINKI

1. Android Example:

<https://github.com/tensorflow/tensorflow/tree/master/tensorflow/examples/android>

2. Codelabs - TensorFlow for Poets:

<https://codelabs.developers.google.com/?cat=TensorFlow>

3. Pre-trained Models:

<https://github.com/tensorflow/models/blob/master/research/slim/README.md>

4. Quick Guide to Deep Learning:

<https://medium.freecodecamp.org/want-to-know-how-deep-learning-works-heres-a-quick-guide-for-everyone-1aedeca88076>

5. Complete Guide to TensorFlow for Deep Learning with Python:

<https://www.udemy.com/complete-guide-to-tensorflow-for-deep-learning-with-python/learn/v4/overview>

6. Anaconda + Jupyter (pip install tensorflow, pip install jupyter):

<https://www.anaconda.com/download/>

<http://jupyter.org/>

7. Learning TensorFlow:

<https://learningtensorflow.com/index.html>

# LINKI

8. Building TensorFlow for Android:

[https://www.tensorflow.org/mobile/android\\_build](https://www.tensorflow.org/mobile/android_build)

9. Introduction to TensorFlow Mobile:

[https://www.tensorflow.org/mobile/mobile\\_intro](https://www.tensorflow.org/mobile/mobile_intro)

10.Understanding Neural Network with TensorFlow Playground:

<https://cloud.google.com/blog/big-data/2016/07/understanding-neural-networks-with-tensorflow-playground>

11.TensorFlow Tutorial: 10 minutes practical TensorFlow Lesson for quick learners:

<http://cv-tricks.com/artificial-intelligence/deep-learning/deep-learning-frameworks/tensorflow/tensorflow-tutorial/>

12.TensorFlow Tutorial 2: Image classifier using Convolutional Neural Network:

<http://cv-tricks.com/tensorflow-tutorial/training-convolutional-neural-network-for-image-classification/>

13.Creating custom mode for Android using TensorFlow:

<https://blog.mindorks.com/creating-custom-model-for-android-using-tensorflow-3f963d270bfb>

14.Convolutional Neural Network - Image kernels for the rescue:

<http://setosa.io/ev/image-kernels/>