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For clarity, we show the masks of the current category only.
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Filters

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regnety

Publisher: Models: 8 Updated: 11/26/2021

Collection of RegNetY models trained on ImageNet-1k

Problem domain

Image classification

Model format

TFjs TFLite Coral

TF Version

TF1 TF2

Fine tunable



Architecture

Publisher

Dataset

Language



convmixer

Publisher: Rishit Dagli Models: 6 Updated: 11/26/2021

Collection of new ConvMixer models pre-trained on ImageNet-1k.



ml-model-binding

Publisher: Android Studio Models: 114 Updated: 11/26/2021

Collection of TFLite models that can be used with Android Studio ML Model Binding.



image

Publisher: Google Models: 111 Updated: 11/26/2021

Collection of image models by Google.



landmarks

Publisher: Google Models: 6 Updated: 11/26/2021

Collection of models for landmark recognition



mobilenet-edgetpu-v2

Publisher: Google Models: 10 Updated: 11/26/2021

Collection of mobilenet-edgetpu-v2 models for image classification and feature extraction trained on Imagenet-1k (ILSVRC-2012-CLS) and optimized for Pixel 6.



bit

Publisher: Google Models: 25 Updated: 11/26/2021

Collection of BiT models for feature extraction, and image classification on Imagenet-1k (ILSVRC-2012-CLS) and Imagenet-21k.



efficientnet_v2

Publisher: Google Models: 46 Updated: 11/26/2021

Collection of EfficientNet V2 models for image classification and feature extraction trained on Imagenet-1k (ILSVRC-2012-CLS) and Imagenet-21k (Full ImageNet, Fall 2011 release).



image-classification

Publisher: ML Kit Models: 112 Updated: 11/26/2021

Collection of ML Kit compatible TFLite models for image classification.



vision_transformer

Publisher: Sayak Paul Models: 16 Updated: 11/26/2021

Collection of new Vision Transformer models fine-tuned on ImageNet-1k.



bit-resnet

Publisher: Sayak Paul Models: 9 Updated: 11/26/2021

Collection of new BiT-ResNet models trained on ImageNet-1k.

Filters

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Problem domain

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Model format

TF.js TFLite Coral

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TF1 TF2

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Architecture

Publisher

Dataset

Language

Collection

efficientnet

Publisher: Google Models: 32 Updated: 11/26/2021

Collection of EfficientNet models for image classification and feature extraction trained on Imagenet (ILSVRC-2012-CLS).

Collection

efficientnet_v2

Publisher: Google Models: 46 Updated: 11/26/2021

Collection of EfficientNet V2 models for image classification and feature extraction trained on Imagenet-1k (ILSVRC-2012-CLS) and Imagenet-21k (Full ImageNet, Fall 2011 release).

Collection

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mlp-mixer

Publisher: Sayak Paul Models: 12 Updated: 11/26/2021

Collection of MLP-Mixer models trained on ImageNet-21k and ImageNet-1k.

Collection

lite/task-library/image-classifier

Publisher: TensorFlow Models: 114 Updated: 11/26/2021

Collection of TensorFlow Lite Task Library compatible models for image classification.

Image classification

regnety800mf_classification

Publisher: Aditya Kane Updated: 11/26/2021 103

RegNetY 800MF image classifier pretrained on ImageNet-1k.

Architecture: RegNetY

Image classification

disease-classification

TFLite

Image classification

ganeval-cifar10-convnet

Image classification

tf2-preview/mobilenet_v2/classification

Ayuda a proteger la Gran Barrera de Coral con TensorFlow en Kaggle

[Únete Challenge](#)

TensorFlow Hub es un repositorio de modelos de aprendizaje automático entrenados.

TensorFlow Hub es un repositorio de modelos de aprendizaje automático entrenados, listos para optimizarlos e implementarlos donde quieras. Puedes reutilizar modelos entrenados, como BERT y Faster R-CNN, con solo unas pocas líneas de código.



Ver la guía

Obtén información sobre cómo usar TensorFlow Hub y cómo funciona.



Ver los instructivos

Los instructivos muestran ejemplos de extremo a extremo que usan TensorFlow Hub.



Ver los modelos

Encuentra modelos entrenados de TF, TFLite y TF.js para tu caso de uso.

```
!pip install --upgrade tensorflow_hub
```

```
import tensorflow_hub as hub
```

```
model = hub.KerasLayer("https://tfhub.dev/google/nnlm-en-dim128/2")
embeddings = model(["The rain in Spain.", "falls",
                    "mainly", "In the plain!"])

print(embeddings.shape) #(4, 128)
```

Modelos

Busca modelos entrenados de la comunidad de TensorFlow en tfhub.dev

ESTOS INSTRUCTIVOS MUESTRAN EJEMPLOS DE EXTREMOS A EXTREMOS QUE PUEDE APLICAR A SU PROPÓSITO.

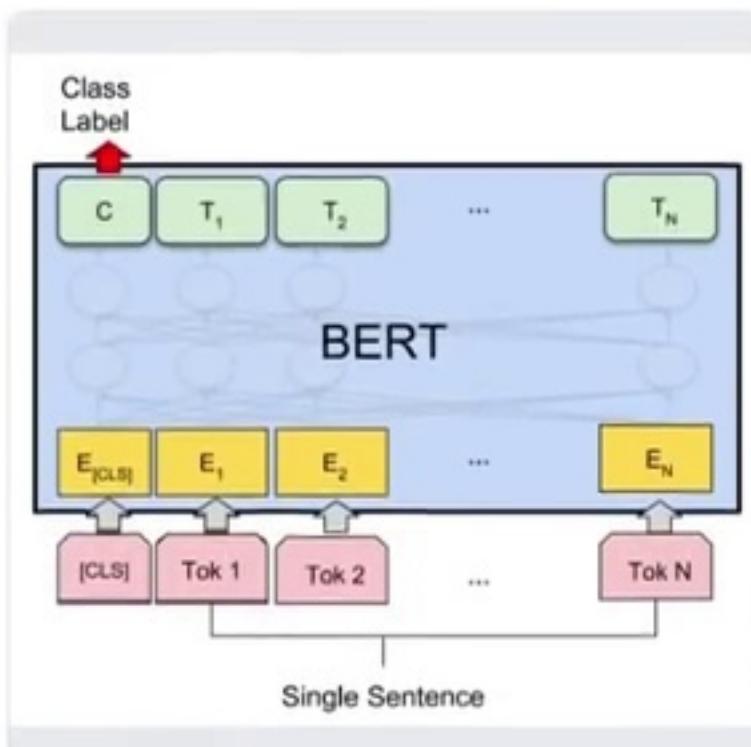


Ver los modelos

Encuentra modelos entrenados de TF, TFLite y TF.js para tu caso de uso.

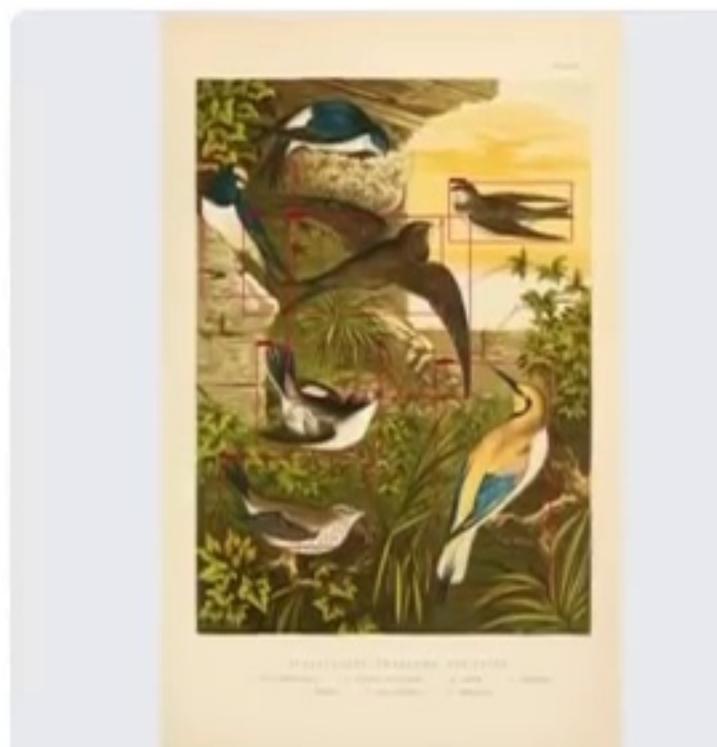
Modelos

Busca modelos entrenados de la comunidad de TensorFlow en [tfhub.dev](#)



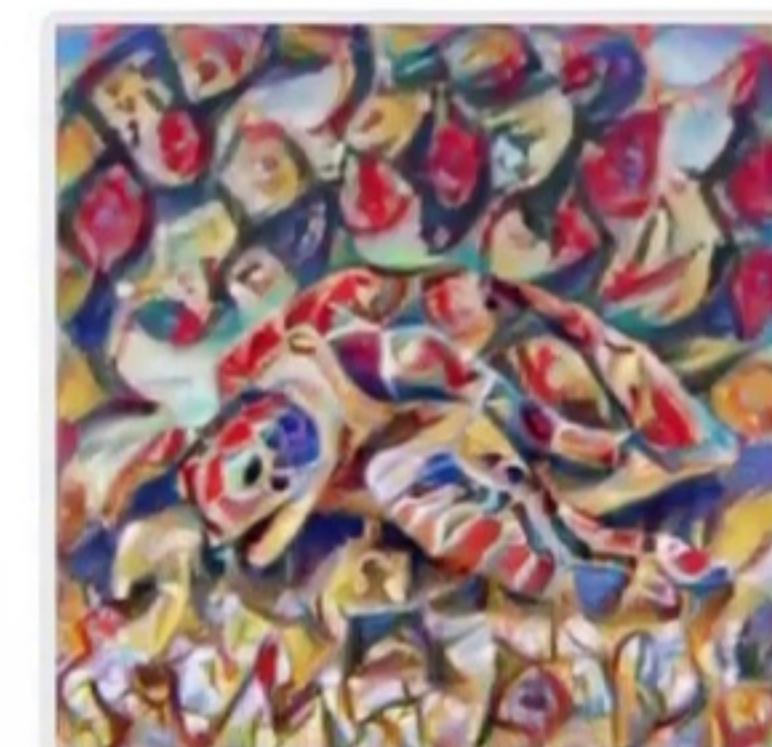
BERT

Utiliza BERT para tareas de PLN, incluidas la clasificación de texto y la respuesta a preguntas.



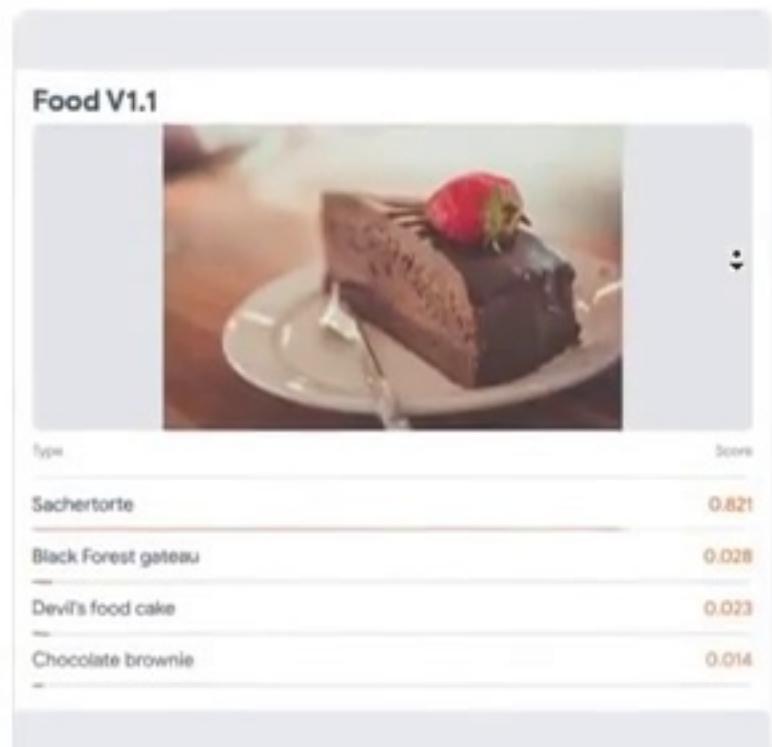
Detección de objetos

Utiliza el modelo Faster R-CNN Inception ResNet V2 640x640 para detectar objetos en imágenes.



Transferencia de estilo

Transfiere el estilo de una imagen a otra con el modelo de transferencia de estilo de imagen.



Clasificador de alimentos en el dispositivo

Usa este modelo de TFLite para clasificar fotos de comida en un dispositivo móvil.



The latest from Google Research

⋮

MobileNetV2: The Next Generation of On-Device Computer Vision Networks

Tuesday, April 3, 2018

Posted by Mark Sandler and Andrew Howard, Google Research

Last year we introduced [MobileNetV1](#), a family of general purpose computer vision neural networks designed with mobile devices in mind to support classification, detection and more. The ability to run deep networks on personal mobile devices improves user experience, offering anytime, anywhere access, with additional benefits for security, privacy, and energy consumption. As new applications emerge allowing users to interact with the real world in real time, so does the need for ever more efficient neural networks.

Today, we are pleased to announce the availability of [MobileNetV2](#) to power the next generation of mobile vision applications. MobileNetV2 is a significant improvement over MobileNetV1 and

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This folder contains building code for MobileNetV2 and MobilenetV3 networks. The architectural definition for each model is located in `mobilenet_v2.py` and `mobilenet_v3.py` respectively.

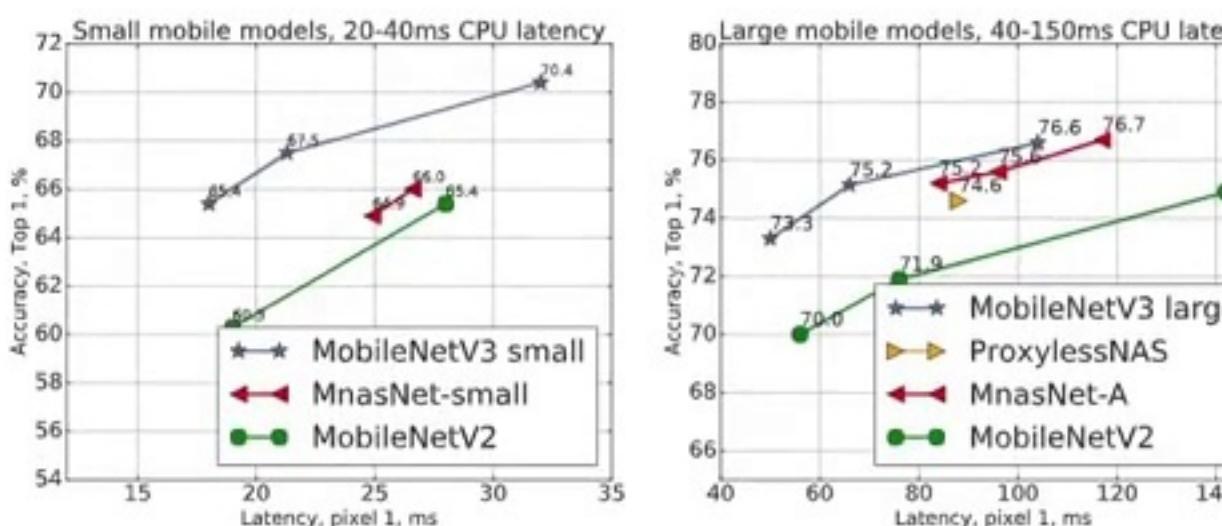
For MobilenetV1 please refer to this page

We have also introduced a family of MobileNets customized for the Edge TPU accelerator found in Google Pixel4 devices. The architectural definition for MobileNetEdgeTPU is located in `mobilenet_v3.py`

Performance

Mobilenet V3 latency

This is the timing of MobileNetV2 vs MobileNetV3 using TF-Lite on the large core of Pixel 1 phone.



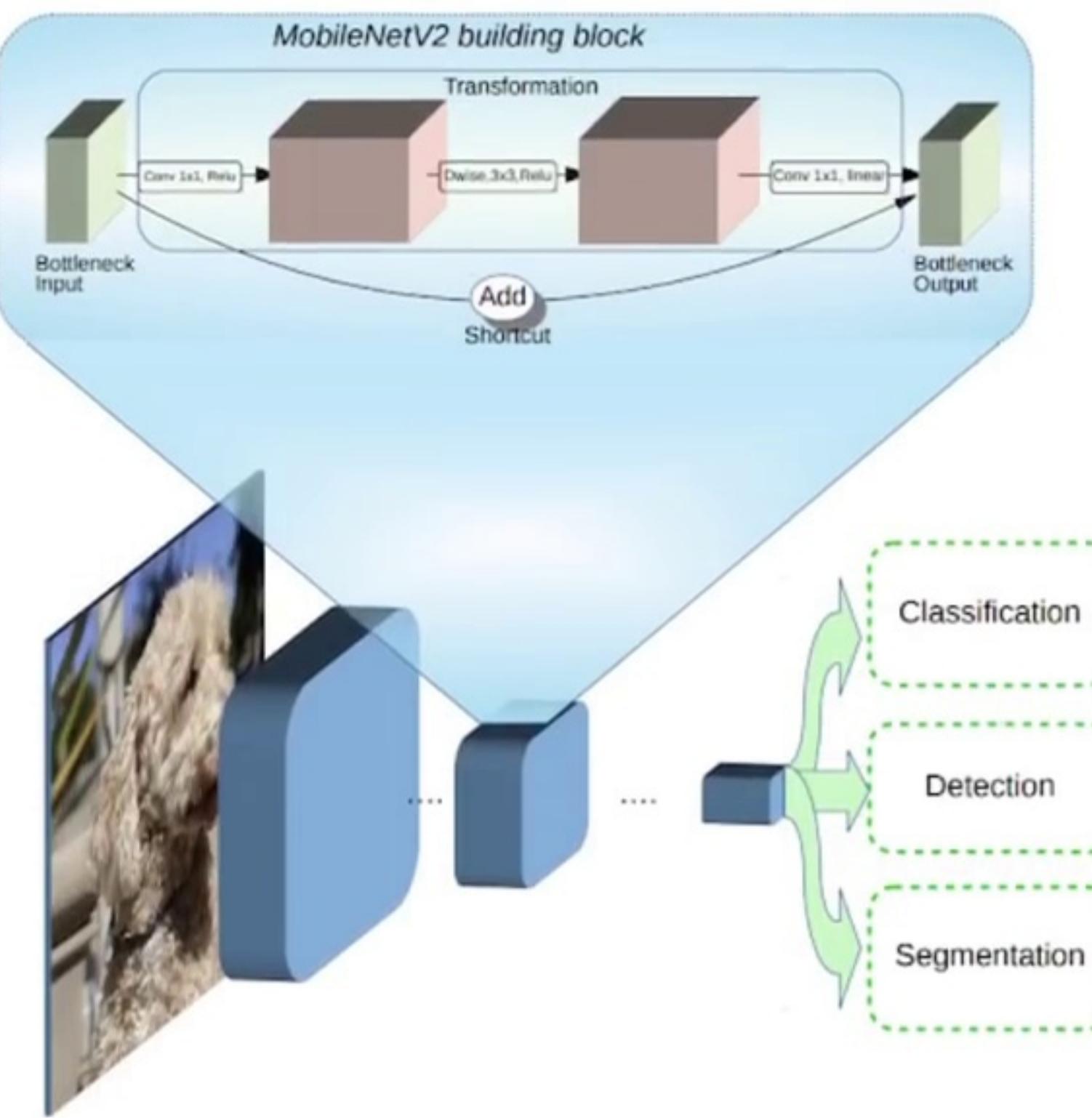
MACs

MACs, also sometimes known as MADDs - the number of multiply-accumulates needed to compute an inference on a single image is a common metric to measure the efficiency of the model. Full size Mobilenet V3 on image size 224 uses ~215 Million MADDs (MMadds) while achieving accuracy 75.1%, while Mobilenet V2 uses ~300MMadds and achieving accuracy 72%. By comparison ResNet-50 uses approximately 3500 MMAdds while achieving 76% accuracy.

Below is the graph comparing Mobilenets and a few selected networks. The size of each blob represents the number of parameters. Note for ShuffleNet there are no published size numbers. We estimate it to be comparable to MobileNetV2 numbers.



MobileNetV2 builds upon the focus from MobileNetV1 [7], using depthwise separable convolution as efficient building blocks. However, V2 introduces two new features to the architecture: 1) linear bottlenecks between the layers, and 2) shortcut connections between the bottlenecks¹. The basic structure is shown below.



Overview of MobileNetV2 Architecture. Blue blocks represent composite convolutional building blocks as shown above.

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Mixed precision

Utilities

» Keras API reference / Keras Applications / MobileNet and MobileNetV2

MobileNet and MobileNetV2

MobileNet function

```
tf.keras.applications.MobileNet(  
    input_shape=None,  
    alpha=1.0,  
    depth_multiplier=1,  
    dropout=0.001,  
    include_top=True,  
    weights="imagenet",  
    input_tensor=None,  
    pooling=None,  
    classes=1000,  
    classifier_activation="softmax",  
    **kwargs  
)
```

Instantiates the MobileNet architecture.

Reference

- [MobileNets: Efficient Convolutional Neural Networks for Mobile Vision Applications](#)

This function returns a Keras image classification model, optionally loaded with weights pre-trained

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KerasTuner

Code examples

Why choose Keras?

MobileNet and MobileNetV2

MobileNet and

MobileNet function

MobileNetV2 function

MobileNet function

```
tf.keras.applications.MobileNet(  
    input_shape=None,  
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    include_top=True,  
    weights="imagenet",  
    input_tensor=None,  
    pooling=None,  
    classes=1000,  
    classifier_activation="softmax",  
    **kwargs  
)
```

Instantiates the MobileNet architecture.

Reference

- [MobileNets: Efficient Convolutional Neural Networks for Mobile Vision Applications](#)

This function returns a Keras image classification model, optionally loaded with weights pre-trained on ImageNet.

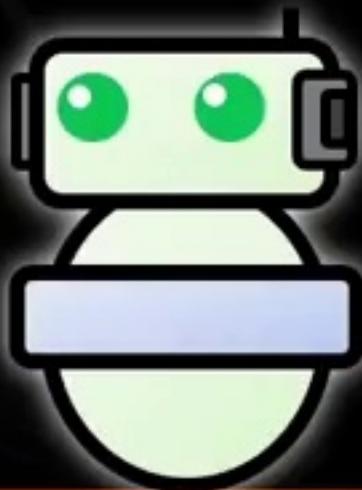
For image classification use cases, see [this page](#) for detailed examples.

For transfer learning use cases, make sure to read the [guide to transfer learning & fine-tuning](#).

224



224

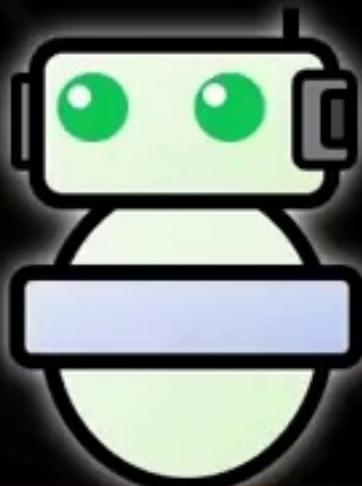


224

224



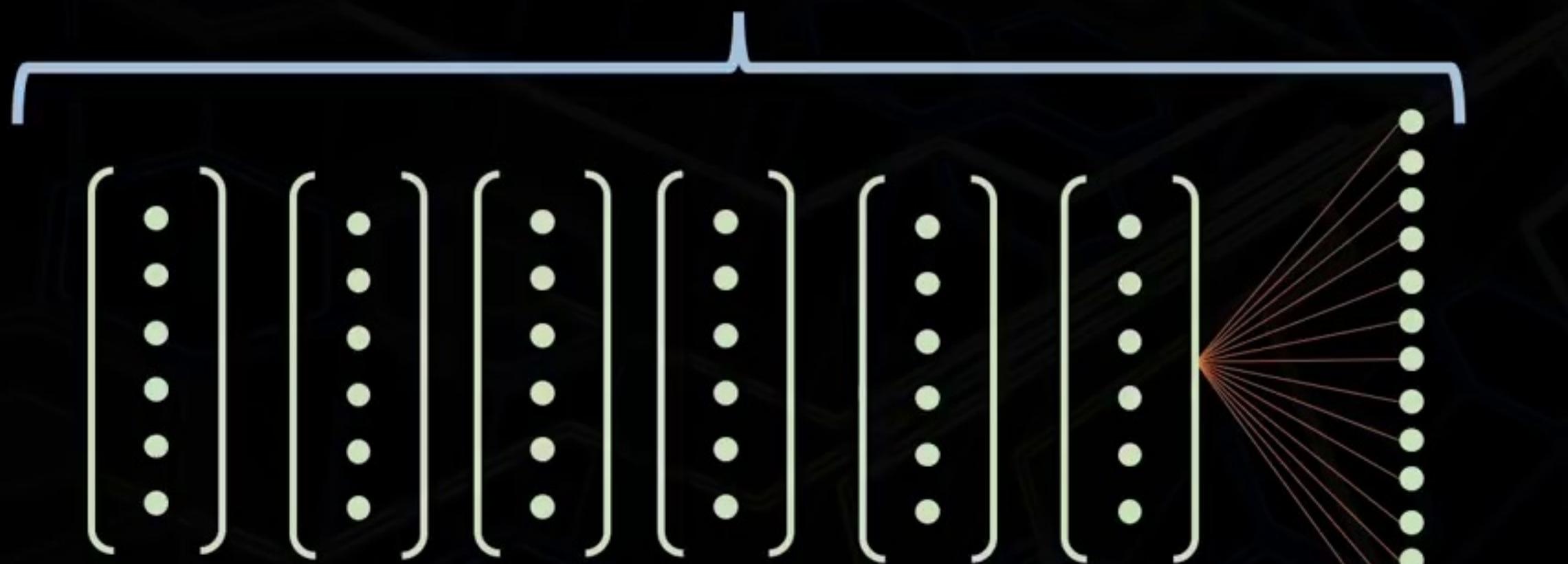
3 canales



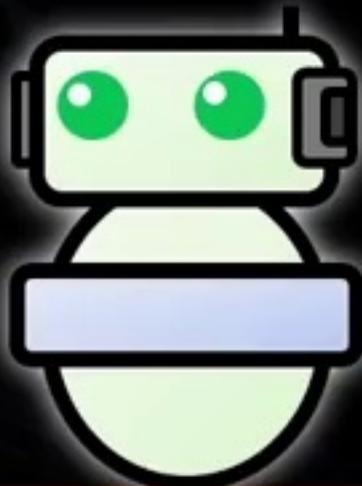
Capa de salida



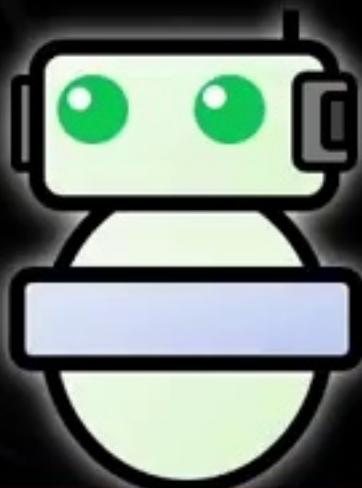
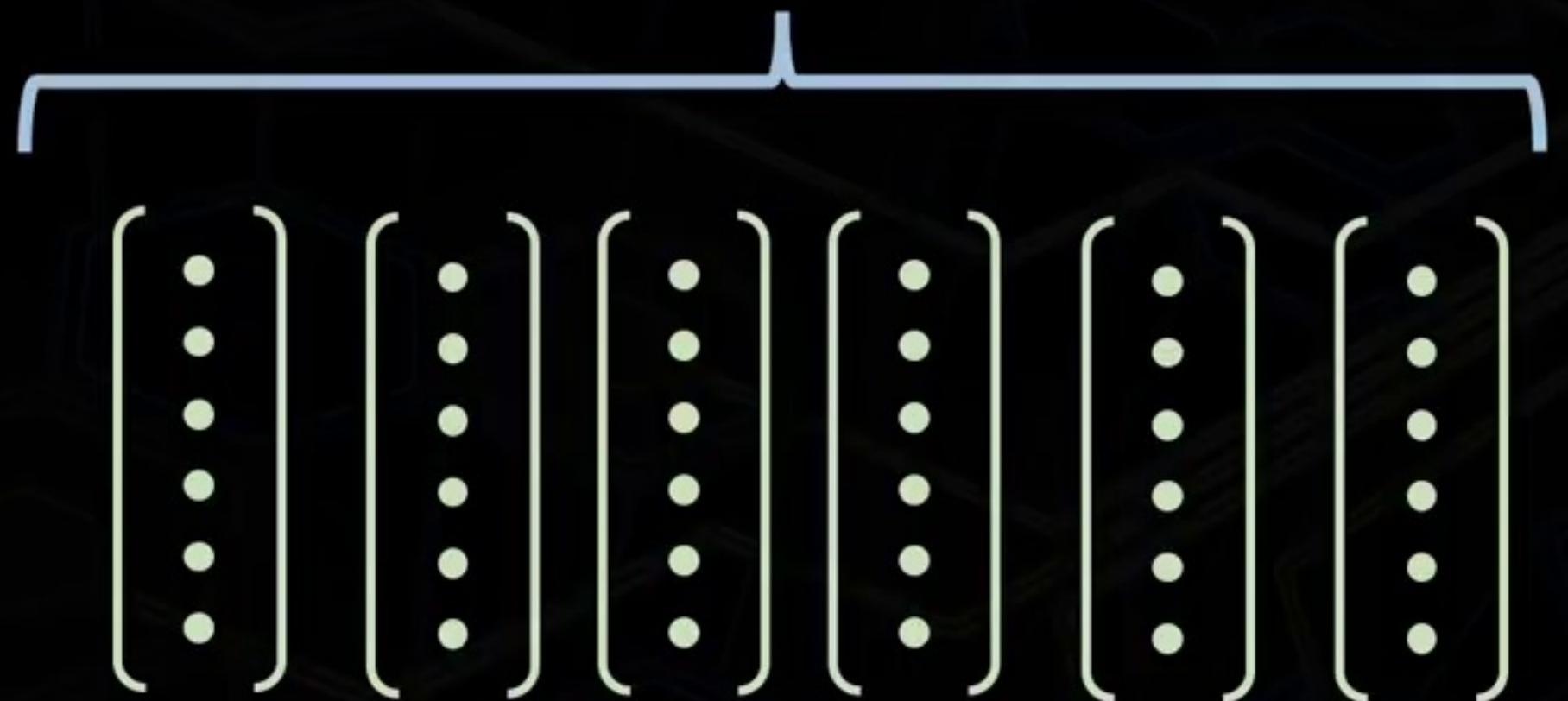
MobileNet V2



1,001
Capa de salida



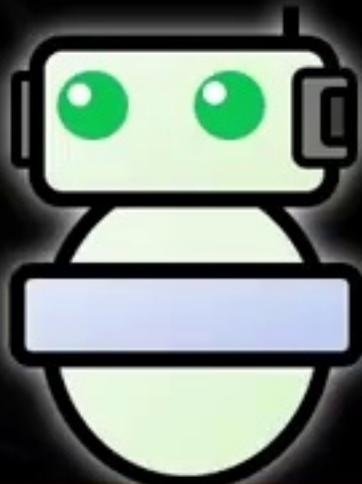
MobileNet V2



MobileNet V2



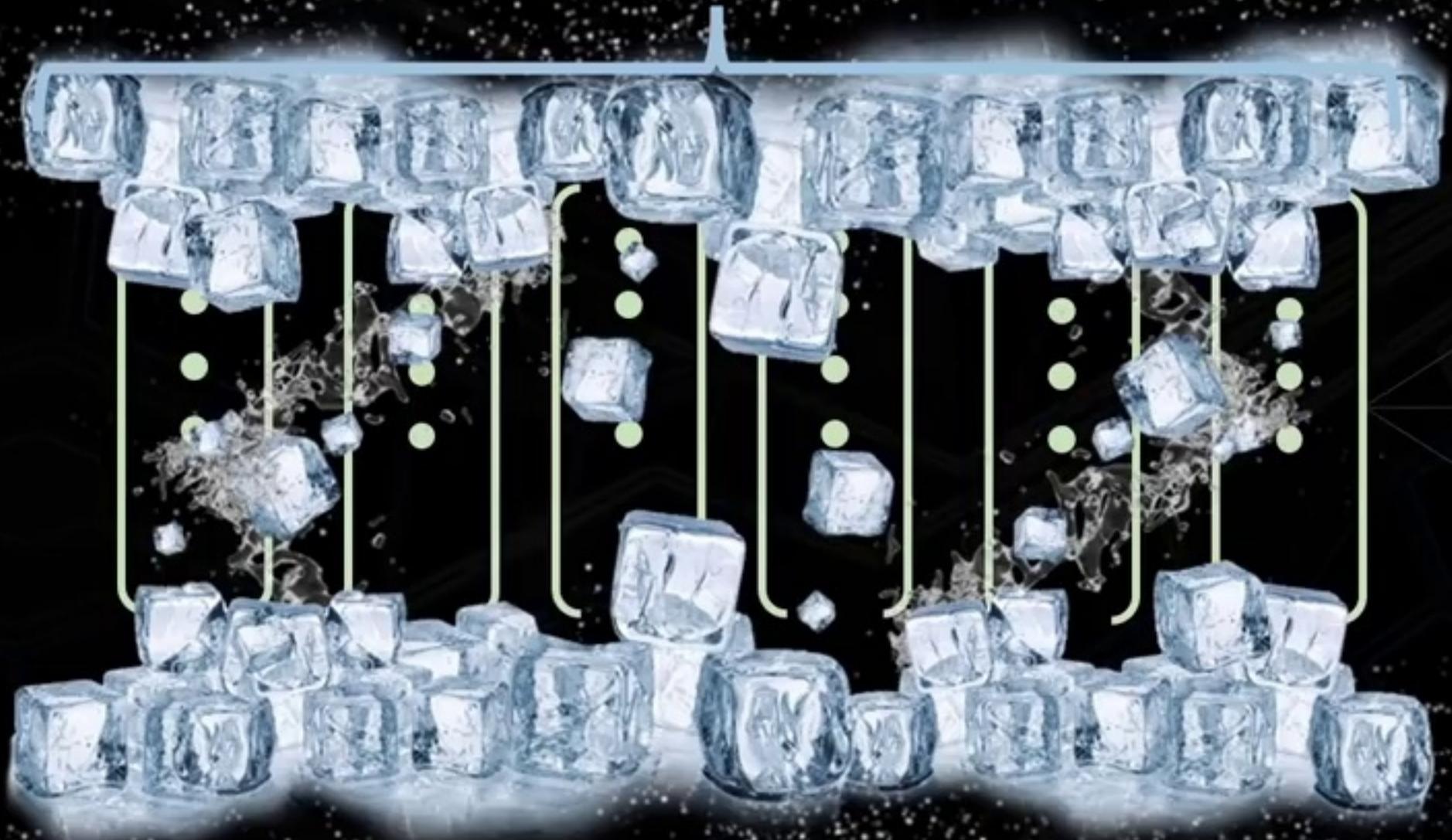
3
Capa de salida



MobileNet V2

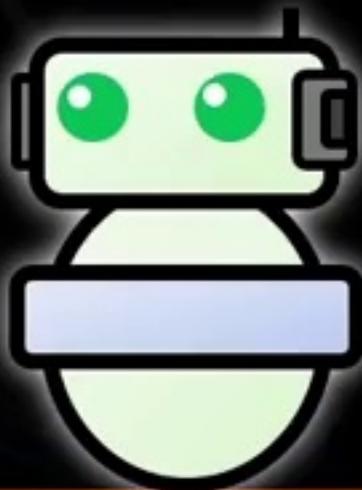


MobileNet V2



3

Capa de salida

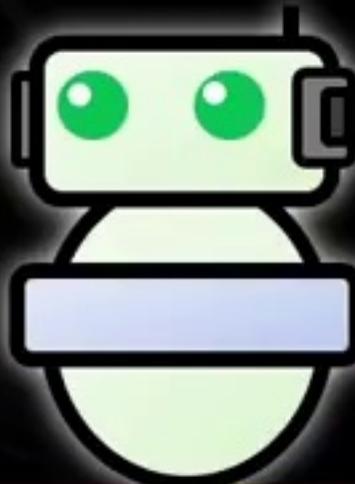


MobileNet V2

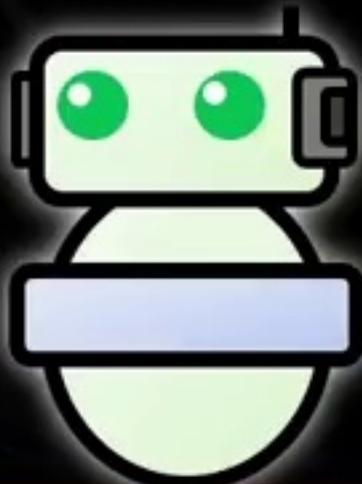
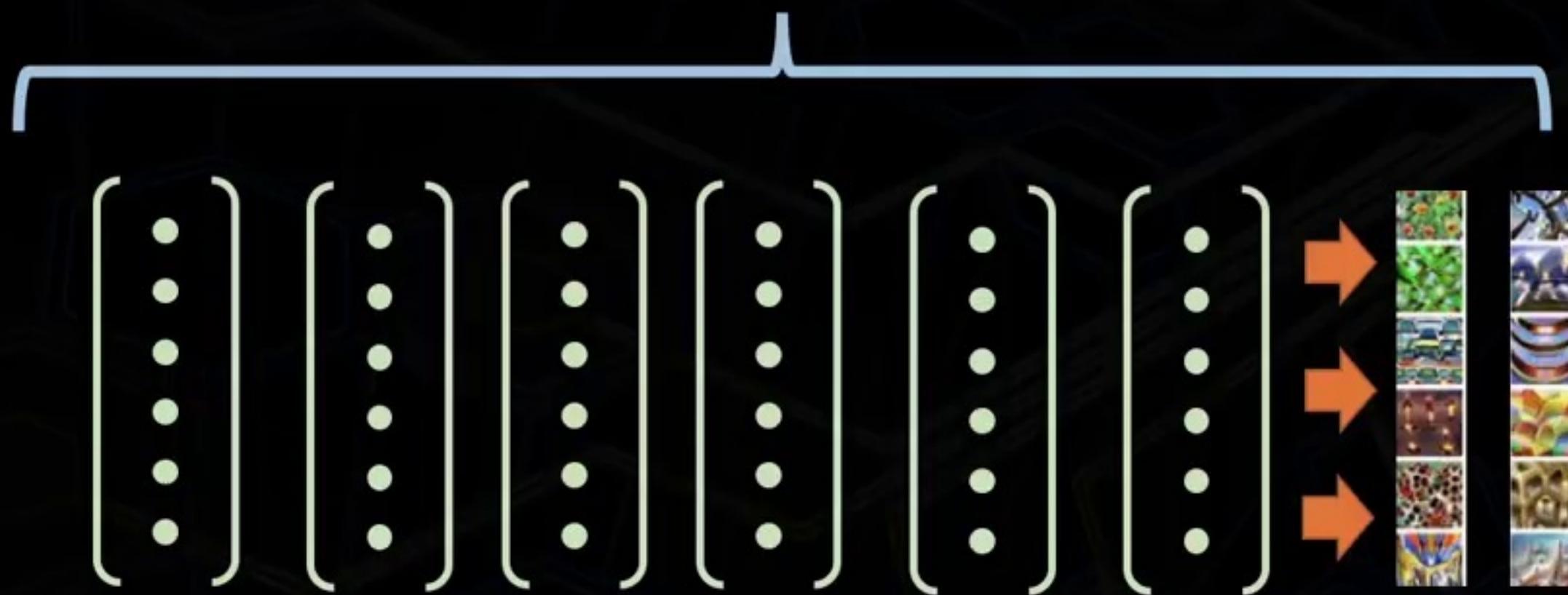


3

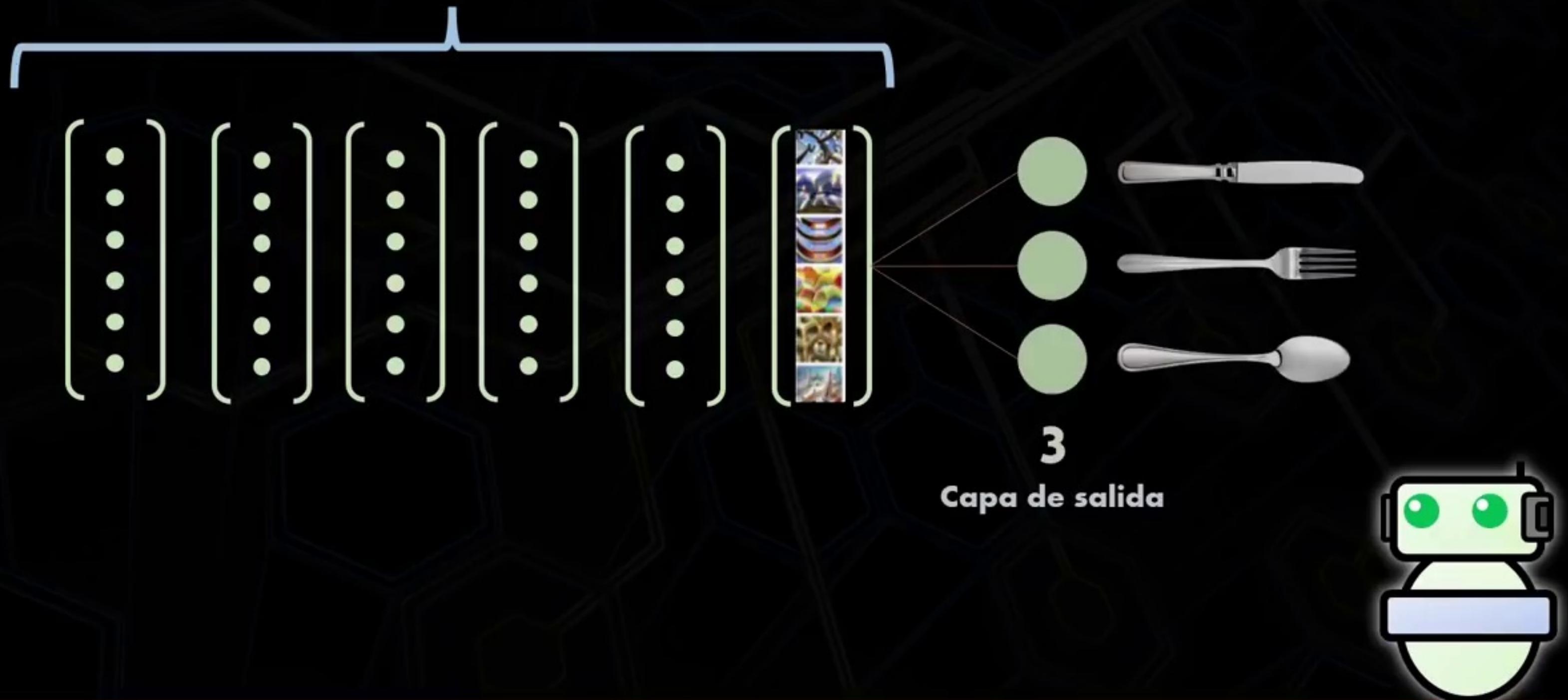
Capa de salida



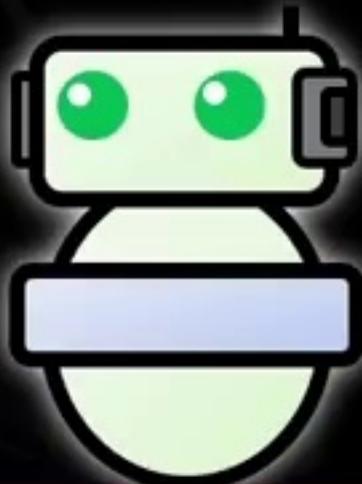
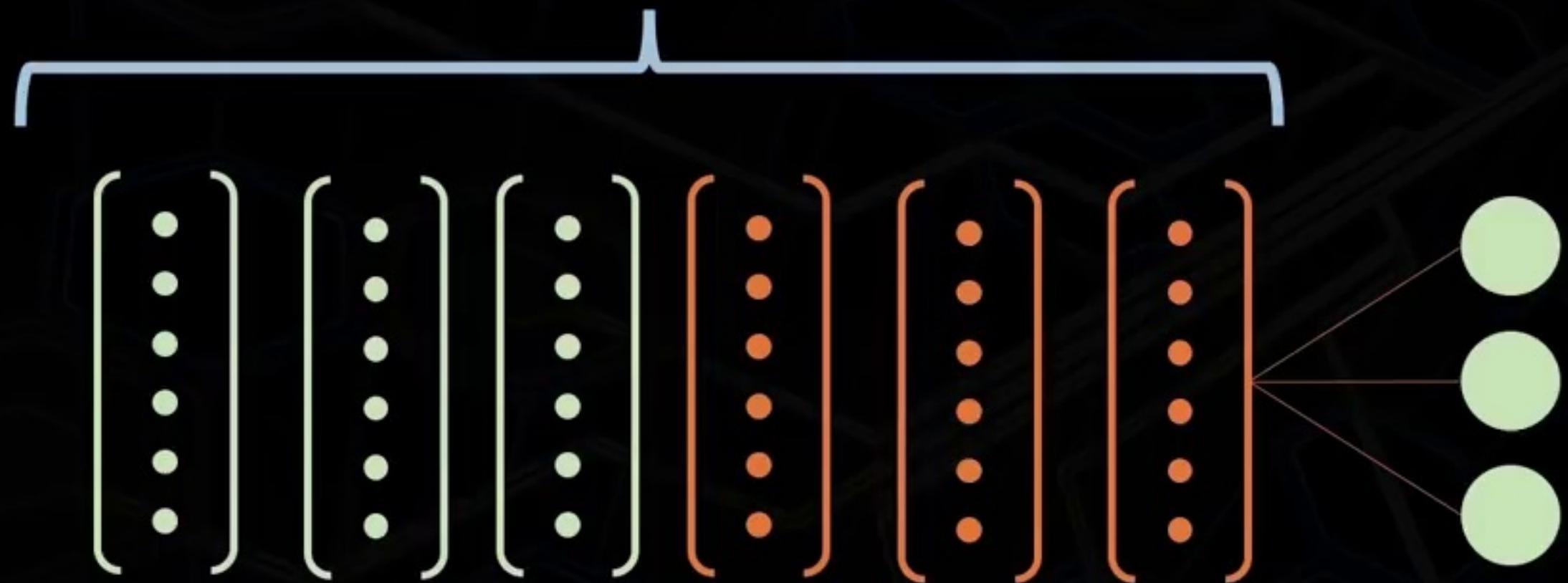
MobileNet V2



MobileNet V2



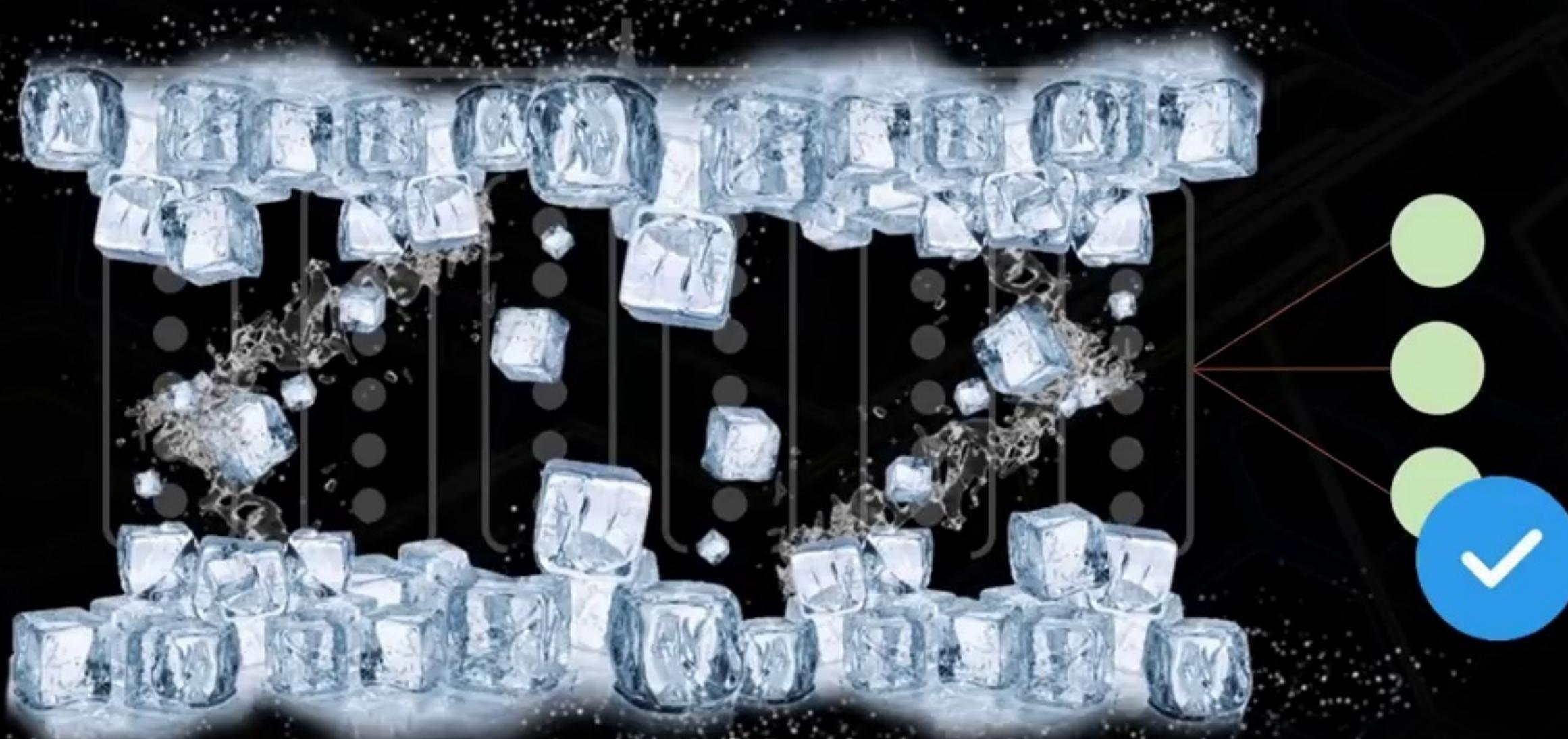
MobileNet V2



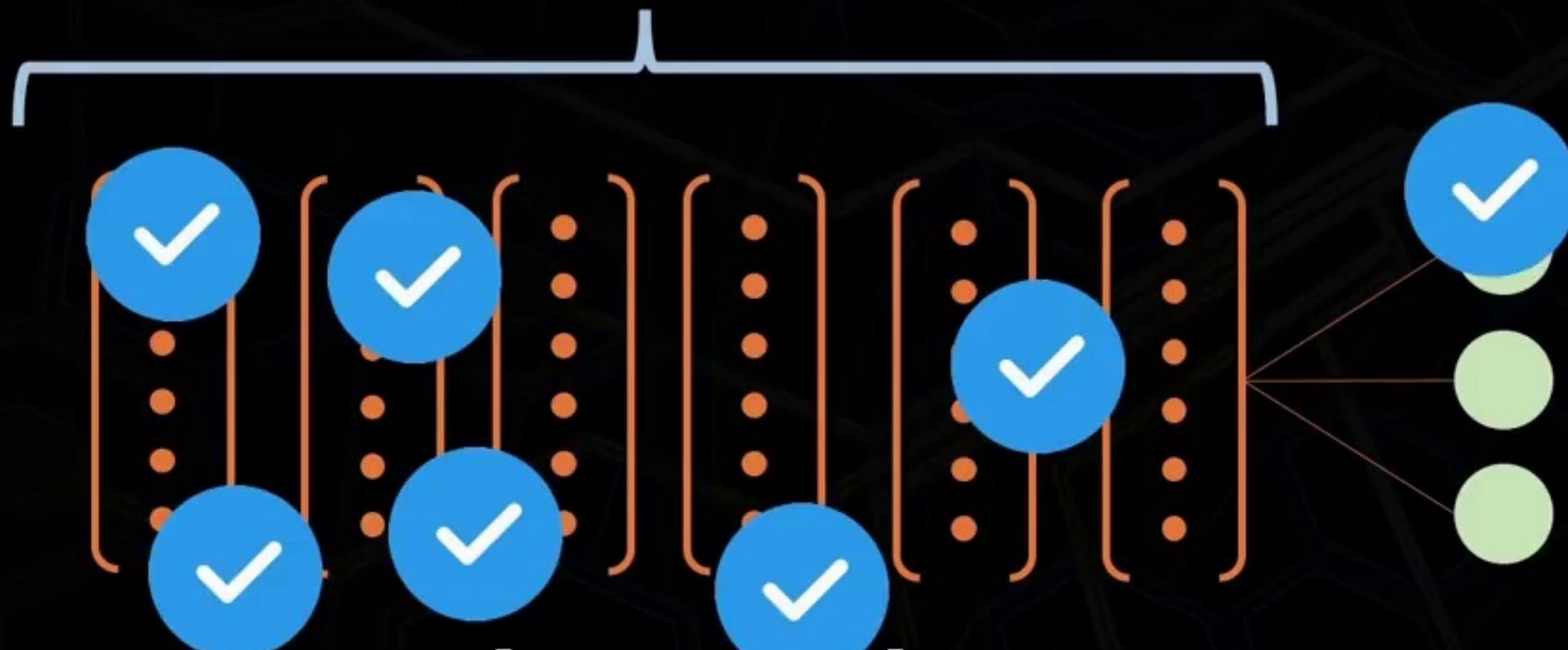
MobileNet V2



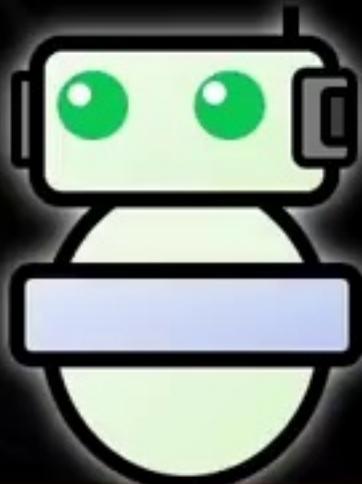
MobileNet V2



MobileNet V2



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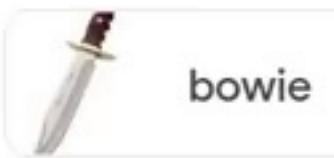
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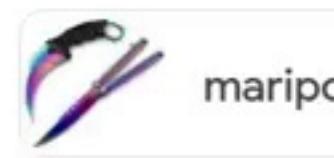
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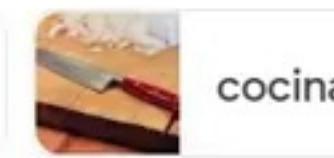
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Cuchillo - Wikipedia, la ...

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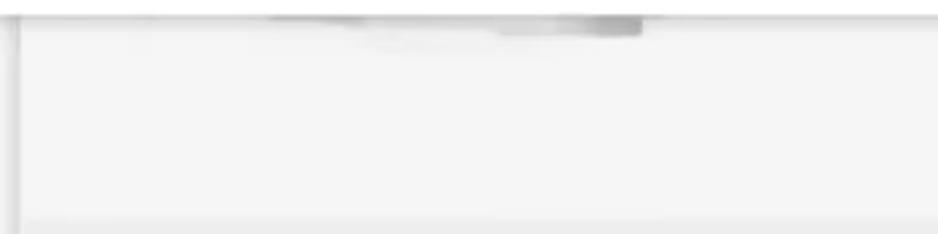
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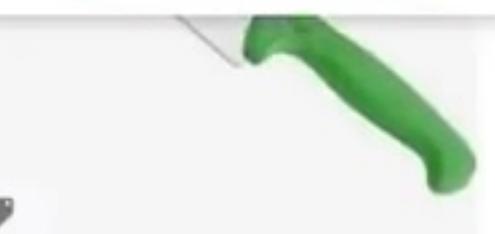
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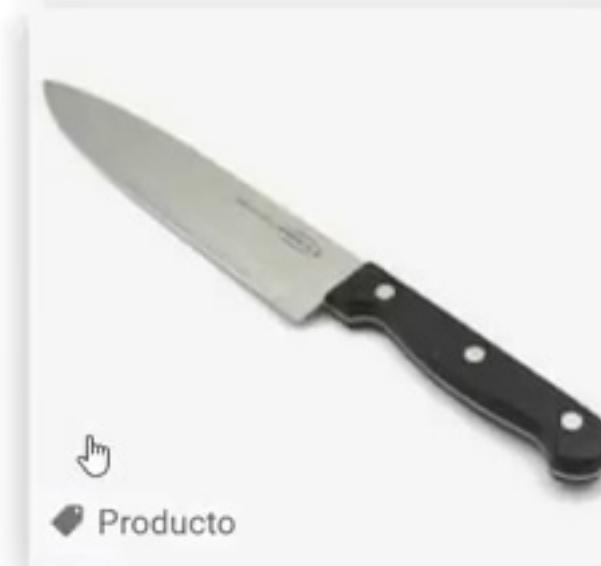
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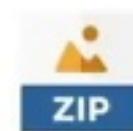
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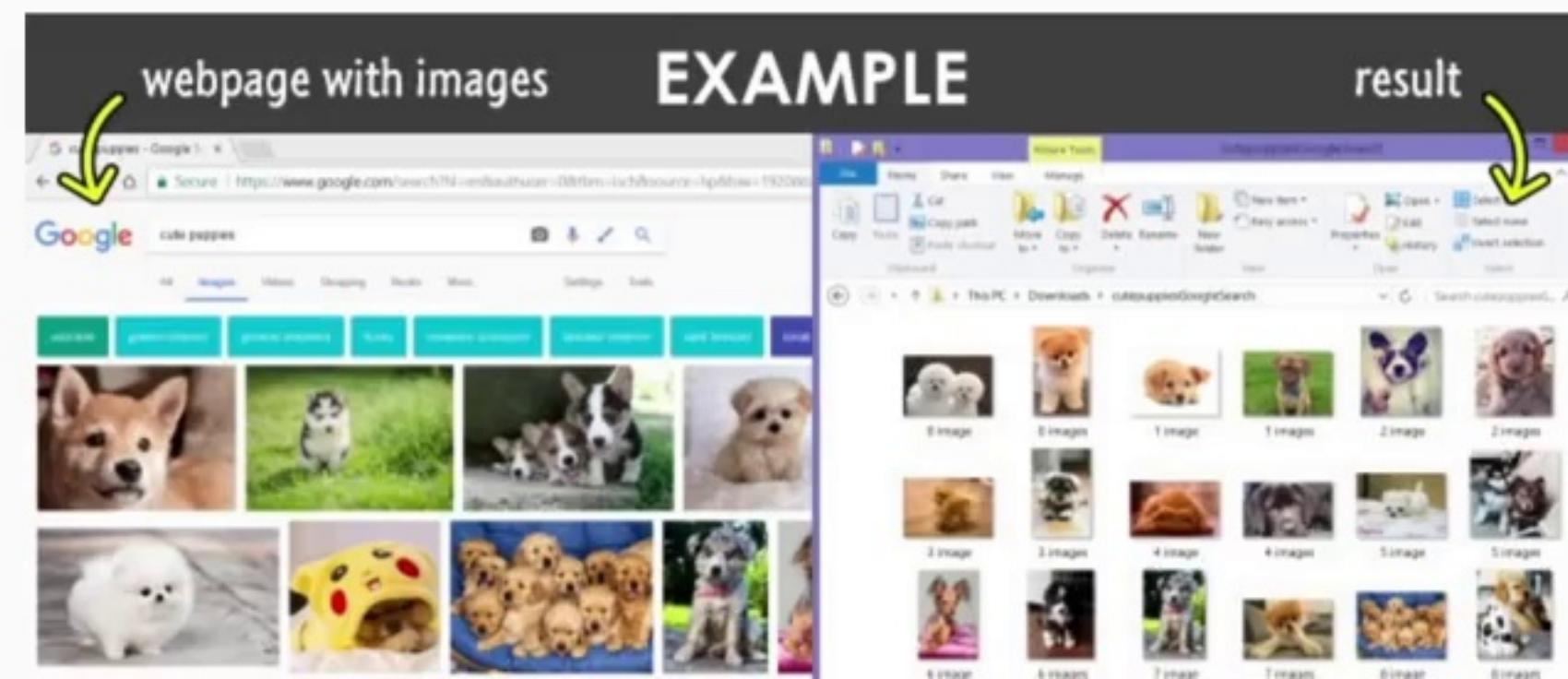
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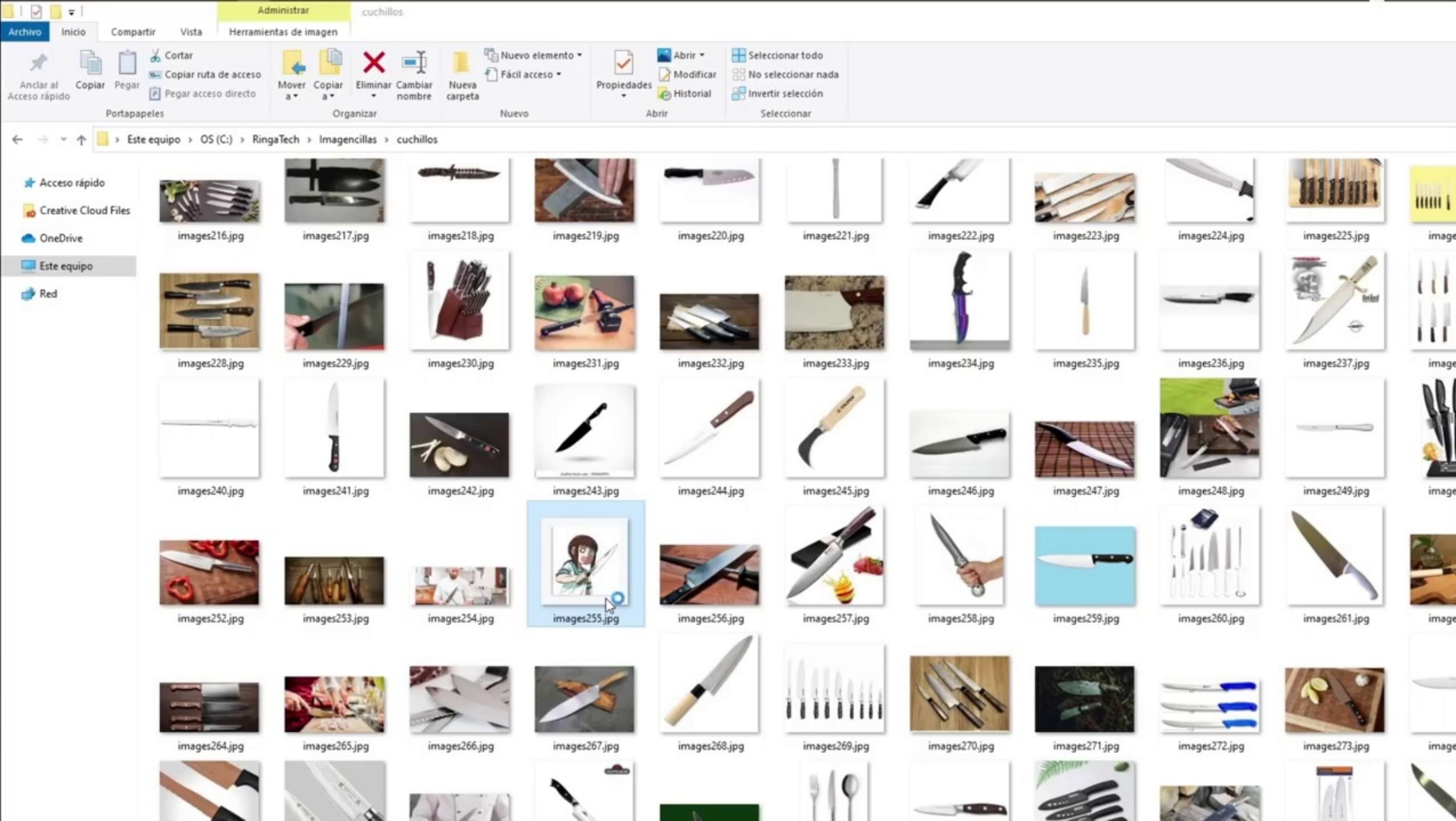
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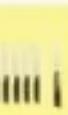
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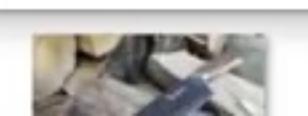
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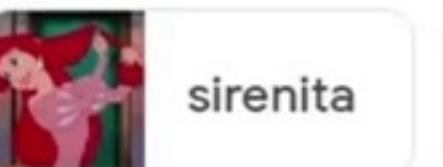
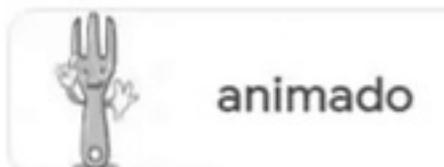
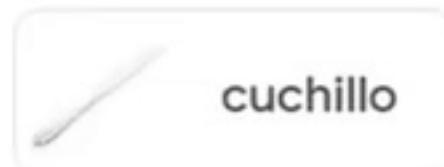
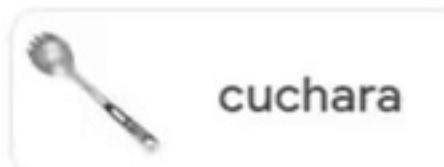
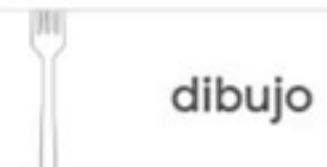
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Dorado

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MXN 7.42/m.

HISTORIA DEL TENEDOR



Historia del tenedor Su origen Historia Curiosidades...
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es.wikipedia.org[mundooculto.com · Disponible](https://mundooculto.com/disponibile)garena.univasjus.netveretina.com

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Cuchara Sopa Línea Álamo -...
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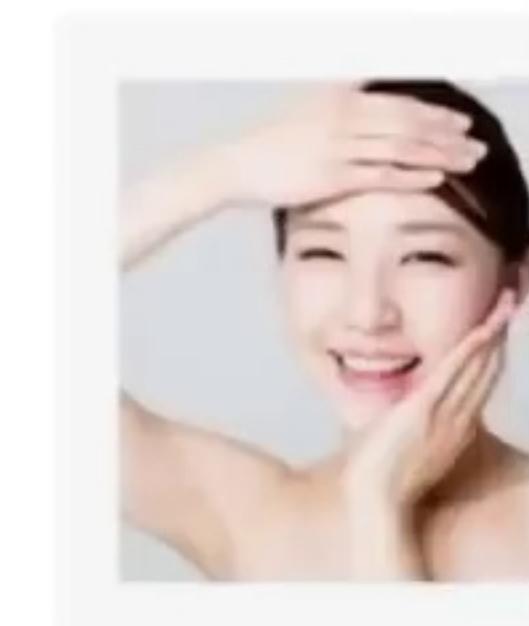
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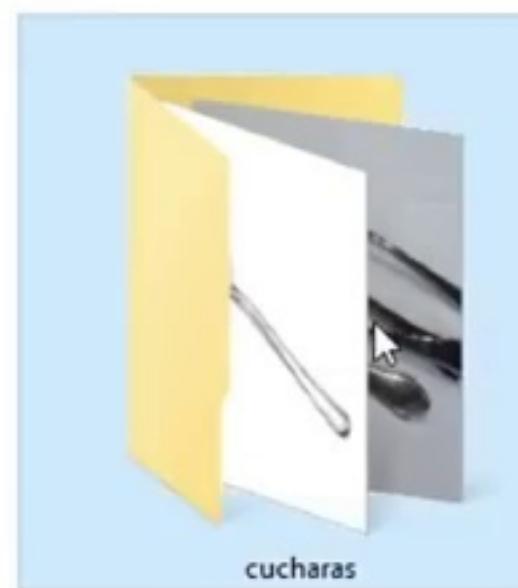
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[TF2] Imagenet (ILSVRC-2012-CLS) classification with MobileNet V2.

Publisher: Google Updated: 11/26/2021 License: Apache-2.0

Architecture: Dataset:

[MobileNet V2](#)[ImageNet \(ILSVRC-2012-CLS\)](#)

Overall usage data



125.1k Downloads

Model formats

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TF2.0 Saved Model (v4)

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V4

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tf2-preview/mobilenet_v2/feature_vector

[TF2] Feature vectors of images with MobileNet V2 trained on ImageNet (ILSVRC-2012-CLS).

Publisher: Google Updated: 11/26/2021 License: Apache-2.0

Architecture: Dataset:

MobileNet V2

ImageNet (ILSVRC-2012-CLS)

Overall usage data

361.0k Downloads

Model formats

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TF2.0 Saved Model (v4)

Usage data: 249.7k Downloads

V4