The image recognition library includes blocks that label the contents of images using AI cloud services from Microsoft, Google, and IBM (API keys required – free usage quotas available). A more limited image recognition block runs on your device without keys and maintaining your privacy. There is a block for doing transfer learning to add new recognition labels. The ‘poses’ block reports the positon of 17 body parts of images or live video of people.

How can I recognize objects? Image recognition

I want to do image recognition. Image recognition

I want my program to see. Image recognition

How can I get labels of images? Image recognition

Can I add new categories for image labelling? Image recognition

Is there way to find the pose of a person? Image recognition

How can I find out where different body locations are? Image recognition

What blocks are there for recognizing objects? Image recognition

Can I do transfer learning for image recognition? Image recognition

How can my program tell what is in front of the camera? Image recognition

There are many blocks for using pre-training models. ‘Create costume in style’ can transform any image into one of eight artist’s style. When the ‘get costume features of’ block is given an image it reports 1280 embedding numbers that can be used to measure similarity of images and to provide input for deep learning models. Pre-trained models are also used in some of the blocks for image and sound recognition.

What pre-trained model blocks are there? Pre-trained models

How can I do style transfer? Pre-trained models

How can I change a picture into the style of a famous artist? Pre-trained models

Is there a way of getting an embedding vector for an image? Pre-trained models

How can I turn an image into a list of numbers? Pre-trained models

How can I get an image embedding vector? Pre-trained models

Do many blocks load pre-trained models? Pre-trained models

Can I use pre-trained models? Pre-trained models

How can use the list of numbers from an image embedding? Pre-trained models

I want to make a costume look like it was painted by an artist. Pre-trained models

There are several blocks for dealing with natural language processing. The ‘features of word’ block reports 300 numbers for any of 20,000 words in 15 languages. The ‘closest word to’ block reports the word whose embedding is closest to the input numbers. These blocks can be used to solve word analogy problems, translation, and much more. The similar ‘features of sentence’ block reports 512 numbers for any sentence. One can use this to determine semantic similarity of sentences or to generate input to deep learning models.

What blocks are there for natural language processing? Natural language

Are there blocks that can deal with the meaning of words and sentences? Natural language

Is there a block for word embeddings? Natural language

How many languages do the blocks support? Natural language

Given an embedding, can I find the nearest words? Natural language

Are there blocks that I can use to solve word analogy problems? Natural language

Can I use word embeddings for translation? Natural language

I want to see if there is bias in the word embeddings. Natural language

How can I use sentence embeddings in my projects? Natural language

What good are sentence embeddings? Natural language

There are many blocks for creating, training, and testing neural networks. Models can be created of any size with a wide range of learning parameters. They can be trained to either produce numbers or category labels. There is a block that will search for good model parameters. Trained models can be saved and loaded into projects.

Are there blocks for deep machine learning? Deep learning

Can I add neural nets to my program? Deep learning

Can I make a neural net of any size? Deep learning

How can I add my own neural network to a project? Deep learning

I want to train a model to categorize its input. Deep learning

Is there a block for searching for good model parameters? Deep learning

I want to build a deep learning model to predict something. Deep learning

I want to add machine learning to projects. Deep learning

How can I do machine learning with the AI blocks? Deep learning

I want my program to learn. Deep learning