

[Cloud AutoML Vision](#)

AutoML Vision Edge terminology

Term	Description
Android Studio (https://developer.android.com/studio)	The official integrated development environment for Android development.
CocoaPods (https://cocoapods.org/)	A dependency manager used here for Swift and Objective-C Cocoa projects to manage and manage external libraries.
Core ML (https://www.google.com/url?q=https://developer.apple.com/documentation/coreml)	A machine learning framework used in iOS and macOS. Models can be converted to CoreML format.
Container ("export to Docker/container") (https://www.google.com/url?q=https://www.docker.com/resources/what-container)	The runtime instance of an image; on a host, a container runs a model using AutoML Vision Edge.
Edge devices	A device that provides compute capabilities. Constraints like privacy/confidentiality, low power, and low cost drive demand for predictive devices. Compute and power constraints are key for them.
Edge TPU (https://www.google.com/url?q=https://cloud.google.com/edge-tpu/)	A type of Edge device; Google's purpose-built integrated circuit (ASIC) designed to run TensorFlow Lite models. Supports <code>.tflite</code> models only.
Firebase (https://firebase.google.com/)	A mobile and web application development platform.
FlatBuffers (https://www.google.com/url?q=https://google.github.io/flatbuffers/)	Similar to Protocol buffers, with the performance benefits of FlatBuffers do not need a parsing/serialization step before you can access the object memory allocation.
(https://www.google.com/url?q=https://cloud.google.com/solutions/iot-overview) IoT	Internet of Things (IoT); the use of networked devices embedded in the physical environment to enable a new scenario or process.
ML Kit (https://developers.google.com/ml-kit/)	ML Kit acts as an API layer to your current development kit (SDK) that allows you to use ML on your device.

Term	Description
<u>Pillow</u> (https://pillow.readthedocs.io/en/stable/handbook/overview.html)	The Python Imaging Library (PIL) added to your Python interpreter; Pillow is a
<u>Protocol buffers</u> ("protobuf") (https://github.com/protocolbuffers/protobuf#protocol-buffers---googles-data-interchange-format)	Google's language-neutral, platform-independent serializing structured data. Similar to
<u>TensorFlow</u> (https://www.tensorflow.org/)	TensorFlow is an end-to-end open source machine learning; software used to create a machine
<u>TensorFlow lite model</u> (TF Lite/ model.tflite) (https://www.tensorflow.org/lite)	A TensorFlow ML model that has been optimized for mobile and embedded devices. <ul style="list-style-type: none"> • <u>TF Lite converter</u> (https://www.tensorflow.org/lite/guide/convert) - TensorFlow Lite uses the optimized TensorFlow graphs. Therefore, a TensorFlow model can be converted into a FlatBuffer file • <u>TF Lite interpreter</u> (https://www.tensorflow.org/api_guides/python/tflite) - A class that does the job of a tensorflow.nn.Module - A class that does the job of a tensorflow.nn.Module models as opposed to regular TensorFlow models
<u>tf.Session()</u> (https://www.tensorflow.org/api_docs/python/tf/Session)	A class for running TensorFlow operations
<u>Xcode</u> (https://developer.apple.com/xcode/)	Xcode is an integrated development environment for macOS, iOS, and tvOS containing a suite of software development tools for developing software for macOS, iOS, and tvOS

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) (<https://creativecommons.org/licenses/by/4.0/>), and code samples are licensed under the [Apache 2.0 License](https://www.apache.org/licenses/LICENSE-2.0) (<https://www.apache.org/licenses/LICENSE-2.0>). For details, see our [Site Policies](https://developers.google.com/terms/site-policies) (<https://developers.google.com/terms/site-policies>). Java is a registered trademark of Oracle and/or its affiliates.

Last updated August 29, 2019.