

Framework

# Core ML

Integrate machine learning models into your app.

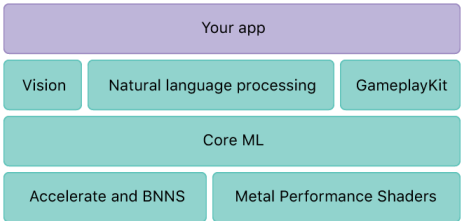
## Overview

With Core ML, you can integrate trained machine learning models into your app.



A *trained model* is the result of applying a machine learning algorithm to a set of training data. The model makes predictions based on new input data. For example, a model that's been trained on a region's historical house prices may be able to predict a house's price when given the number of bedrooms and bathrooms.

Core ML is the foundation for domain-specific frameworks and functionality. Core ML supports Vision for image analysis, Foundation for natural language processing (for example, the `NSLinguisticTagger` class), and GameplayKit for evaluating learned decision trees. Core ML itself builds on top of low-level primitives like Accelerate and BNNS, as well as Metal Performance Shaders.



Core ML is optimized for on-device performance, which minimizes memory footprint and power consumption. Running strictly on the device ensures the privacy of user data and guarantees that your app remains functional and responsive when a network connection is unavailable.

## Topics

### First Steps

- 📄 Getting a Core ML Model  
Obtain a Core ML model to use in your app.
- { } Integrating a Core ML Model into Your App

SDKs

iOS 11.0+ Beta

macOS 10.13+ Beta

tvOS 11.0+ Beta

watchOS 4.0+ Beta

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Overview ☺

Topics ☺

Add a simple model to an app, pass input data to the model, and process the model's predictions.

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## Model Conversion

### Converting Trained Models to Core ML

Convert trained models created with third-party machine learning tools to the Core ML model format.

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## Core ML API

### Core ML API

Use the Core ML API directly to support custom workflows and advanced use cases.

### Beta Software

This documentation contains preliminary information about an API or technology in development. This information is subject to change, and software implemented according to this documentation should be tested with final operating system software.

[Learn more about using Apple's beta software >](#)