

[AI & Machine Learning Products](https://cloud.google.com/products/machine-learning/) (<https://cloud.google.com/products/machine-learning/>)

[Cloud Vision API](https://cloud.google.com/vision/) (<https://cloud.google.com/vision/>)

[Documentation](https://cloud.google.com/vision/docs/) (<https://cloud.google.com/vision/docs/>) [Guides](#)

How-to Guides

How-to guides

Before you begin

Perform all steps to enable and use the Vision API on the Google Cloud Console.

(<https://cloud.google.com/vision/docs/before-you-begin>)

Detect text in images (OCR)

Run optical character recognition on an image to locate and extract UTF-8 text in an image.

(<https://cloud.google.com/vision/docs/ocr>)

Detect handwriting in images (OCR)

Run optical character recognition on an image to locate and extract handwritten text in an image.

(<https://cloud.google.com/vision/docs/handwriting>)

Detect text in files (OCR - PDF/TIFF)

Run dense text document optical character recognition to locate and extract text in a file.

(<https://cloud.google.com/vision/docs/pdf>)

Detect crop hints

Learn how to run crop hints on an image.

(<https://cloud.google.com/vision/docs/detecting-crop-hints>)

Detect faces

Learn how to perform image face detection.

(<https://cloud.google.com/vision/docs/detecting-faces>)

Detect image properties

Run image property detection to extract information such as dominant image colors.

(<https://cloud.google.com/vision/docs/detecting-properties>)

Detect labels

Learn how to get general labels about image content.

(<https://cloud.google.com/vision/docs/labels>)

Detect landmarks

Learn how to perform landmark detection on an image.

(<https://cloud.google.com/vision/docs/detecting-landmarks>)

Detect logos

Learn how to perform logo detection on an image.

(<https://cloud.google.com/vision/docs/detecting-logos>)

Detect multiple objects

Learn how to locate multiple objects in an image.

(<https://cloud.google.com/vision/docs/object-localizer>)

Detect explicit content (Safe Search)

Learn how to perform explicit content (Safe Search) detection on an image. Targeted categories include: **adult**, **spoof**, **medical**, **violence**, and **racy**.

(<https://cloud.google.com/vision/docs/detecting-safe-search>)

Detect Web entities and pages

Learn how to detect web entities and pages related to an image. Responses include information such as full matching images, partial matching images, similar images, and best guess label(s).

(<https://cloud.google.com/vision/docs/detecting-web>)

Batch image annotation offline

Get image annotations for all feature types on a batch of images. The results of this long-running (asynchronous) operation are stored in a Cloud Storage bucket when the operation completes.

(<https://cloud.google.com/vision/docs/batch>)

Small batch file annotation online

Get file annotations online (synchronously) for a small batch (up to 5 pages) of PDF/TIFF/GIF files.

(<https://cloud.google.com/vision/docs/file-small-batch>)

Batch file annotation offline

Get file annotations for all feature types on a multi-paged PDF/TIFF file. The results of this long-running (asynchronous) operation are stored in a Cloud Storage bucket when the operation completes.

(<https://cloud.google.com/vision/docs/file-batch>)

Using Cloud Vision with Spring framework

Instructions on using the Spring framework and Spring Cloud GCP to interact with Cloud Vision API.

(<https://cloud.google.com/vision/docs/adding-spring>)

Base64 Encode

Instructions on base64-encoding for sending a local image.

(<https://cloud.google.com/vision/docs/base64>)

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