

[Cloud Vision API Product Search](#)

# Method: files.asyncBatchAnnotate

Run asynchronous image detection and annotation for a list of generic files, such as PDF files, which may contain multiple pages and multiple images per page. Progress and results can be retrieved through the `google.longrunning.Operations` interface. `Operation.metadata` contains `OperationMetadata` (metadata). `Operation.response` contains `AsyncBatchAnnotateFilesResponse` (results).

## HTTP request

POST <https://vision.googleapis.com/v1p3beta1/files:asyncBatchAnnotate>

The URL uses [gRPC Transcoding](#)

(<https://github.com/googleapis/googleapis/blob/master/google/api/http.proto>) syntax.

## Request body

The request body contains data with the following structure:

### JSON representation

```
{
  "requests": [
    {
      object(AsyncAnnotateFileRequest (https://cloud.google.com/vision/product-search/docs/refer
    )
  ]
}
```

### Fields

<code>requests[ ]</code>	<code>object(<a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#AsyncAnnotateFileRequest">AsyncAnnotateFileRequest</a> (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#AsyncAnnotateFileRequest))</code>  Individual async file annotation requests for this batch.
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## Response body

If successful, the response body contains an instance of **Operation**

(<https://cloud.google.com/vision/product-search/docs/reference/rest/Shared.Types/Operation>).

## Authorization Scopes

Requires one of the following OAuth scopes:

- <https://www.googleapis.com/auth/cloud-platform>
- <https://www.googleapis.com/auth/cloud-vision>

For more information, see the [Authentication Overview](#)

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

## AsyncAnnotateFileRequest

An offline file annotation request.

### JSON representation

```
{
  "inputConfig": {
    object(InputConfig (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate))
  },
  "features": [
    {
      object(Feature (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate))
    }
  ],
  "imageContext": {
    object(ImageContext (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate))
  },
  "outputConfig": {
    object(OutputConfig (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate))
  }
}
```

### Fields

Fields	
<b>inputConfig</b>	<b>object</b> ( <b><u>InputConfig</u></b> ( <a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#InputConfig">https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#InputConfig</a> ) )  Required. Information about the input file.
<b>features[]</b>	<b>object</b> ( <b><u>Feature</u></b> ( <a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/Feature">https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/Feature</a> ) )  Required. Requested features.
<b>imageContext</b>	<b>object</b> ( <b><u>ImageContext</u></b> ( <a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/ImageContext">https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/ImageContext</a> ) )  Additional context that may accompany the image(s) in the file.
<b>outputConfig</b>	<b>object</b> ( <b><u>OutputConfig</u></b> ( <a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#OutputConfig">https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#OutputConfig</a> ) )  Required. The desired output location and metadata (e.g. format).

## InputConfig

The desired input location and metadata.

### JSON representation

## JSON representation

```
{
  "gcsSource": {
    object(GcsSource (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/
  ),
  "mimeType": string
}
```

## Fields

<b>gcsSource</b>	<b>object(<b>GcsSource</b></b> (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#GcsSource) )  The Google Cloud Storage location to read the input from.
<b>mimeType</b>	<b>string</b>  The type of the file. Currently only "application/pdf" and "image/tiff" are supported. Wildcards are not supported.

## GcsSource

The Google Cloud Storage location where the input will be read from.

## JSON representation

```
{
  "uri": string
}
```

## Fields

<b>uri</b>	<b>string</b>  Google Cloud Storage URI for the input file. This must only be a Google Cloud Storage object. Wildcards are not currently supported.
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## OutputConfig

The desired output location and metadata.

### JSON representation

```
{
  "gcsDestination": {
    object(GcsDestination (https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#GcsDestination))
  },
  "batchSize": number
}
```

### Fields

<b>gcsDestination</b>	<b>object(<u>GcsDestination</u></b> ( <a href="https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#GcsDestination">https://cloud.google.com/vision/product-search/docs/reference/rest/v1p3beta1/files/asyncBatchAnnotate#GcsDestination</a> ) )  The Google Cloud Storage location to write the output(s) to.
<b>batchSize</b>	<b>number</b>  The max number of response protos to put into each output JSON file on Google Cloud Storage. The valid range is [1, 100]. If not specified, the default value is 20.  For example, for one pdf file with 100 pages, 100 response protos will be generated. If <b>batchSize</b> = 20, then 5 json files each containing 20 response protos will be written under the prefix <b>gcsDestination.uri</b> .  Currently, batchSize only applies to GcsDestination, with potential future support for other output configurations.

## GcsDestination

The Google Cloud Storage location where the output will be written to.

## JSON representation

```
{
  "uri": string
}
```

## Fields

**uri****string**

Google Cloud Storage URI where the results will be stored. Results will be in JSON format and preceded by its corresponding input URI. This field can either represent a single file, or a prefix for multiple outputs. Prefixes must end in a `/`.

Examples:

- File: `gs://bucket-name/filename.json` (`gs://bucket-name/filename.json`)
- Prefix: `gs://bucket-name/prefix/here/` (`gs://bucket-name/prefix/here/`)
- File: `gs://bucket-name/prefix/here` (`gs://bucket-name/prefix/here`)

If multiple outputs, each response is still `AnnotateFileResponse`, each of which contains some subset of the full list of `AnnotateImageResponse`. Multiple outputs can happen if, for example, the output JSON is too large and overflows into multiple sharded files.

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