

Package google.cloud.vision.v1

Index

- **ImageAnnotator**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageAnnotator>)
(interface)
- **ProductSearch**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearch>)
(interface)
- **AddProductToProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AddProductToProductSetRequest>)
(message)
- **AnnotateFileRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateFileRequest>)
(message)
- **AnnotateFileResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateFileResponse>)
(message)
- **AnnotateImageRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageRequest>)
(message)
- **AnnotateImageResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageResponse>)
(message)

- **AsyncAnnotateFileRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncAnnotateFileRequest>)
(message)
- **AsyncAnnotateFileResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncAnnotateFileResponse>)
(message)
- **AsyncBatchAnnotateFilesRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateFilesRequest>)
(message)
- **AsyncBatchAnnotateFilesResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateFilesResponse>)
(message)
- **AsyncBatchAnnotateImagesRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateImagesRequest>)
(message)
- **AsyncBatchAnnotateImagesResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateImagesResponse>)
(message)
- **BatchAnnotateFilesRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateFilesRequest>)
(message)

- **BatchAnnotateFilesResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateFilesResponse>)
(message)
- **BatchAnnotateImagesRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesRequest>)
(message)
- **BatchAnnotateImagesResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesResponse>)
(message)
- **BatchOperationMetadata**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchOperationMetadata>)
(message)
- **BatchOperationMetadata.State**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchOperationMetadata.State>)
(enum)
- **Block**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Block>)
(message)
- **Block.BlockType**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Block.BlockType>)
(enum)
- **BoundingPoly**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly>)
(message)

- **ColorInfo**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ColorInfo>)
(message)
- **CreateProductRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateProductRequest>)
(message)
- **CreateProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateProductSetRequest>)
(message)
- **CreateReferenceImageRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateReferenceImageRequest>)
(message)
- **CropHint**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHint>)
(message)
- **CropHintsAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHintsAnnotation>)
(message)
- **CropHintsParams**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHintsParams>)
(message)
- **DeleteProductRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductRequest>)
(message)
- **DeleteProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductSetRequest>)
(message)

- **DeleteReferenceImageRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteReferenceImageRequest>)
(message)
- **DominantColorsAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DominantColorsAnnotation>)
(message)
- **EntityAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.EntityAnnotation>)
(message)
- **FaceAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation>)
(message)
- **FaceAnnotation.Landmark**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation.Landmark>)
(message)
- **FaceAnnotation.Landmark.Type**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation.Landmark.Type>)
(enum)
- **Feature**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature>)
(message)
- **Feature.Type**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature.Type>)
(enum)

- **GcsDestination**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GcsDestination>)
(message)
- **GcsSource**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GcsSource>)
(message)
- **GetProductRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetProductRequest>)
(message)
- **GetProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetProductSetRequest>)
(message)
- **GetReferenceImageRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetReferenceImageRequest>)
(message)
- **Image**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Image>)
(message)
- **ImageAnnotationContext**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageAnnotationContext>)
(message)
- **ImageContext**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageContext>)
(message)
- **ImageProperties**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageProperties>)
(message)

- **ImageSource**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageSource>)
(message)
- **ImportProductSetsGcsSource**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsGcsSource>)
(message)
- **ImportProductSetsInputConfig**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsInputConfig>)
(message)
- **ImportProductSetsRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsRequest>)
(message)
- **ImportProductSetsResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsResponse>)
(message)
- **InputConfig**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.InputConfig>)
(message)
- **LatLongRect**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LatLongRect>)
(message)
- **Likelihood**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood>)
(enum)

- **ListProductSetsRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductSetsRequest>)
(message)
- **ListProductSetsResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductSetsResponse>)
(message)
- **ListProductsInProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetRequest>)
(message)
- **ListProductsInProductSetResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetResponse>)
(message)
- **ListProductsRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsRequest>)
(message)
- **ListProductsResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsResponse>)
(message)
- **ListReferenceImagesRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListReferenceImagesRequest>)
(message)
- **ListReferenceImagesResponse**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListReferenceImagesResponse>)
(message)

- **LocalizedObjectAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LocalizedObjectAnnotation>)
(message)
- **LocationInfo**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LocationInfo>)
(message)
- **NormalizedVertex**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.NormalizedVertex>)
(message)
- **OperationMetadata**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OperationMetadata>)
(message)
- **OperationMetadata.State**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OperationMetadata.State>)
(enum)
- **OutputConfig**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OutputConfig>)
(message)
- **Page**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Page>)
(message)
- **Paragraph**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Paragraph>)
(message)
- **Position**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Position>)
(message)

- **Product**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product>)
(message)
- **Product.KeyValue**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product.KeyValue>)
(message)
- **ProductSearchParams**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchParams>)
(message)
- **ProductSearchResults**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults>)
(message)
- **ProductSearchResults.GroupedResult**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.GroupedResult>)
(message)
- **ProductSearchResults.ObjectAnnotation**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.ObjectAnnotation>)
(message)
- **ProductSearchResults.Result**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.Result>)
(message)
- **ProductSet**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet>)
(message)
- **ProductSetPurgeConfig**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSetPurgeConfig>)

(message)

- **Property**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Property>)

(message)

- **PurgeProductsRequest**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.PurgeProductsRequest>)

(message)

- **ReferenceImage**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage>)

(message)

- **RemoveProductFromProductSetRequest**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.RemoveProductFromProductSetRequest>)

(message)

- **SafeSearchAnnotation**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.SafeSearchAnnotation>)

(message)

- **Symbol**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Symbol>)

(message)

- **TextAnnotation**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation>)

(message)

- **TextAnnotation.DetectedBreak**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedBreak>)

(message)

- **TextAnnotation.DetectedBreak.BreakType**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedBreak.BreakType>)
(enum)
- **TextAnnotation.DetectedLanguage**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedLanguage>)
(message)
- **TextAnnotation.TextProperty**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty>)
(message)
- **UpdateProductRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductRequest>)
(message)
- **UpdateProductSetRequest**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductSetRequest>)
)
(message)
- **Vertex**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Vertex>)
(message)
- **WebDetection**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection>)
(message)
- **WebDetection.WebEntity**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebEntity>)
(message)

- **WebDetection.WebImage**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage>)
(message)
- **WebDetection.WebLabel**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebLabel>)
(message)
- **WebDetection.WebPage**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebPage>)
(message)
- **WebDetectionParams**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetectionParams>)
(message)
- **Word**
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Word>)
(message)

ImageAnnotator

Service that performs Google Cloud Vision API detection tasks over client images, such as face, landmark, logo, label, and text detection. The ImageAnnotator service returns detected entities from the images.

AsyncBatchAnnotateFiles

AsyncBatchAnnotateFiles

rpc AsyncBatchAnnotateFiles([AsyncBatchAnnotateFilesRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateFilesRequest)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateFilesRequest>)

) returns ([Operation](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)

)

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).

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

AsyncBatchAnnotateImages

AsyncBatchAnnotateImages

rpc AsyncBatchAnnotateImages(AsyncBatchAnnotateImagesRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncBatchAnnotateImagesRequest>)

) returns (Operation

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)

)

Run asynchronous image detection and annotation for a list of images.

Progress and results can be retrieved through the `google.longrunning.Operations` interface. `Operation.metadata` contains `OperationMetadata` (metadata). `Operation.response` contains `AsyncBatchAnnotateImagesResponse` (results).

This service will write image annotation outputs to json files in customer Google Cloud Storage bucket, each json file containing `BatchAnnotateImagesResponse` proto.

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

BatchAnnotateFiles

BatchAnnotateFiles

rpc BatchAnnotateFiles([BatchAnnotateFilesRequest](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateFilesRequest>)

) returns ([BatchAnnotateFilesResponse](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateFilesResponse>)

)

Service that performs image detection and annotation for a batch of files. Now only "application/pdf", "image/tiff" and "image/gif" are supported.

This service will extract at most 5 (customers can specify which 5 in `AnnotateFileRequest.pages`) frames (gif) or pages (pdf or tiff) from each file provided and perform detection and annotation for each image extracted.

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

BatchAnnotateImages

BatchAnnotateImages

rpc BatchAnnotateImages(BatchAnnotateImagesRequest

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesRequest)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesRequest))

) returns (BatchAnnotateImagesResponse

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesResponse)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesResponse](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchAnnotateImagesResponse))

)

Run image detection and annotation for a batch of images.

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

ProductSearch

Manages Products and ProductSets of reference images for use in product search. It uses the following resource model:

- The API has a collection of ProductSet

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet))

resources, named `projects/*/locations/*/productSets/*`, which acts as a way to put different products into groups to limit identification.

In parallel,

- The API has a collection of Product

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product))

resources, named `projects/*/locations/*/products/*`

- Each **Product**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product>)

has a collection of **ReferenceImage**

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage>)

resources, named `projects/*/locations/*/products/*/referenceImages/*`

AddProductToProductSet

rpc `AddProductToProductSet` (`AddProductToProductSetRequest`

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AddProductToProductSetRequest>)

) returns (`Empty`

(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Empty>)

Adds a Product to the specified ProductSet. If the Product is already present, no change is made.

One Product can be added to at most 100 ProductSets.

Possible errors:

- Returns `NOT_FOUND` if the Product or the ProductSet doesn't exist.

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

CreateProduct

CreateProduct

rpc CreateProduct(CreateProductRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateProductRequest>)

) returns (Product

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product>)

)

Creates and returns a new product resource.

Possible errors:

- Returns INVALID_ARGUMENT if display_name is missing or longer than 4096 characters.
- Returns INVALID_ARGUMENT if description is longer than 4096 characters.
- Returns INVALID_ARGUMENT if product_category is missing or invalid.

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

CreateProductSet

CreateProductSet

rpc CreateProductSet(CreateProductSetRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateProductSetRequest>)

) returns (ProductSet

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet>)

)

Creates and returns a new ProductSet resource.

Possible errors:

- Returns INVALID_ARGUMENT if display_name is missing, or is longer than 4096 characters.

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

CreateReferenceImage

CreateReferenceImage

```
rpc CreateReferenceImage(CreateReferenceImageRequest
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CreateReferenceImageRequest)
) returns (ReferenceImage
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage)
)
```

Creates and returns a new ReferenceImage resource.

The **bounding_poly** field is optional. If **bounding_poly** is not specified, the system will try to detect regions of interest in the image that are compatible with the **product_category** on the parent product. If it is specified, detection is ALWAYS skipped. The system converts polygons into non-rotated rectangles.

Note that the pipeline will resize the image if the image resolution is too large to process (above 50MP).

Possible errors:

- Returns INVALID_ARGUMENT if the **image_uri** is missing or longer than 4096 characters.
- Returns INVALID_ARGUMENT if the product does not exist.
- Returns INVALID_ARGUMENT if **bounding_poly** is not provided, and nothing compatible with the parent product's **product_category** is detected.
- Returns INVALID_ARGUMENT if **bounding_poly** contains more than 10 polygons.

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

DeleteProduct

DeleteProduct

rpc DeleteProduct(DeleteProductRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductRequest>)

) returns (Empty

(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Empty>)
)

Permanently deletes a product and its reference images.

Metadata of the product and all its images will be deleted right away, but search queries against ProductSets containing the product may still work until all related caches are refreshed.

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

DeleteProductSet

DeleteProductSet

rpc DeleteProductSet(DeleteProductSetRequest

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductSetRequest)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductSetRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteProductSetRequest))

) returns (Empty

(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Empty>)

)

Permanently deletes a ProductSet. Products and ReferenceImages in the ProductSet are not deleted.

The actual image files are not deleted from Google Cloud Storage.

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

DeleteReferenceImage

DeleteReferenceImage

rpc DeleteReferenceImage(DeleteReferenceImageRequest
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DeleteReferenceImageRequest>)
) returns (Empty
(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Empty>)
)

Permanently deletes a reference image.

The image metadata will be deleted right away, but search queries against ProductSets containing the image may still work until all related caches are refreshed.

The actual image files are not deleted from Google Cloud Storage.

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

GetProduct

GetProduct

```
rpc GetProduct(GetProductRequest
  (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetProductRequest)
) returns (Product
  (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product)
)
```

Gets information associated with a Product.

Possible errors:

- Returns NOT_FOUND if the Product does not exist.

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

GetProductSet

GetProductSet

rpc GetProductSet(GetProductSetRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetProductSetRequest>)

) returns (ProductSet

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet>)

)

Gets information associated with a ProductSet.

Possible errors:

- Returns NOT_FOUND if the ProductSet does not exist.

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

GetReferencelImage

GetReferenceImage

```
rpc GetReferenceImage(GetReferenceImageRequest
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GetReferenceImageRequest)
) returns (ReferenceImage
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage)
)
```

Gets information associated with a ReferenceImage.

Possible errors:

- Returns NOT_FOUND if the specified image does not exist.

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

ImportProductSets

ImportProductSets

rpc ImportProductSets(ImportProductSetsRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsRequest>)
) returns (Operation
(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)
)

Asynchronous API that imports a list of reference images to specified product sets based on a list of image information.

The google.longrunning.Operation

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)
API can be used to keep track of the progress and results of the request. **Operation.metadata** contains **BatchOperationMetadata**. (progress) **Operation.response** contains **ImportProductSetsResponse**. (results)

The input source of this method is a csv file on Google Cloud Storage. For the format of the csv file please see [ImportProductSetsGcsSource.csv_file_uri](#)

(https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsGcsSource.FIELDS.string.google.cloud.vision.v1.ImportProductSetsGcsSource.csv_file_uri)
.

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

ListProductSets

ListProductSets

rpc ListProductSets([ListProductSetsRequest](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductSetsRequest>)

) returns ([ListProductSetsResponse](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductSetsResponse>)

)

Lists ProductSets in an unspecified order.

Possible errors:

- Returns INVALID_ARGUMENT if page_size is greater than 100, or less than 1.

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

ListProducts

ListProducts

rpc ListProducts([ListProductsRequest](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsRequest>)

) returns ([ListProductsResponse](#)

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsResponse>)

)

Lists products in an unspecified order.

Possible errors:

- Returns INVALID_ARGUMENT if page_size is greater than 100 or less than 1.

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

ListProductsInProductSet

ListProductsInProductSet

rpc ListProductsInProductSet(ListProductsInProductSetRequest

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetRequest)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetRequest))

) returns (ListProductsInProductSetResponse

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetResponse)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetResponse](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListProductsInProductSetResponse))

)

Lists the Products in a ProductSet, in an unspecified order. If the ProductSet does not exist, the products field of the response will be empty.

Possible errors:

- Returns INVALID_ARGUMENT if page_size is greater than 100 or less than 1.

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

ListReferencelImages

ListReferencelImages

```
rpc ListReferenceImages(ListReferenceImagesRequest
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListReferencelImagesRequest)
) returns (ListReferenceImagesResponse
  (https://cloud.google.com/vision/product-
  search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ListReferencelImagesResponse)
)
```

Lists reference images.

Possible errors:

- Returns NOT_FOUND if the parent product does not exist.
- Returns INVALID_ARGUMENT if the page_size is greater than 100, or less than 1.

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

PurgeProducts

PurgeProducts

rpc PurgeProducts(PurgeProductsRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.PurgeProductsRequest>)

) returns (Operation

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)

)

Asynchronous API to delete all Products in a ProductSet or all Products that are in no ProductSet.

If a Product is a member of the specified ProductSet in addition to other ProductSets, the Product will still be deleted.

It is recommended to not delete the specified ProductSet until after this operation has completed. It is also recommended to not add any of the Products involved in the batch delete to a new ProductSet while this operation is running because those Products may still end up deleted.

It's not possible to undo the PurgeProducts operation. Therefore, it is recommended to keep the csv files used in ImportProductSets (if that was how you originally built the Product Set) before starting PurgeProducts, in case you need to re-import the data after deletion.

If the plan is to purge all of the Products from a ProductSet and then re-use the empty ProductSet to re-import new Products into the empty ProductSet, you must wait until the PurgeProducts operation has finished for that ProductSet.

The google.longrunning.Operation

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation>)

API can be used to keep track of the progress and results of the request. **Operation.metadata** contains **BatchOperationMetadata**. (progress)

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

RemoveProductFromProductSet

rpc RemoveProductFromProductSet(RemoveProductFromProductSetRequest

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.RemoveProductFromProductSetRequest)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.RemoveProductFromProductSetRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.RemoveProductFromProductSetRequest))

) returns (Empty

(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Empty>)

Removes a Product from the specified ProductSet.

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

UpdateProduct

UpdateProduct

rpc UpdateProduct(UpdateProductRequest

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductRequest>)

) returns (Product

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product>)

)

Makes changes to a Product resource. Only the **display_name**, **description**, and **labels** fields can be updated right now.

If labels are updated, the change will not be reflected in queries until the next index time.

Possible errors:

- Returns NOT_FOUND if the Product does not exist.
- Returns INVALID_ARGUMENT if display_name is present in update_mask but is missing from the request or longer than 4096 characters.
- Returns INVALID_ARGUMENT if description is present in update_mask but is longer than 4096 characters.
- Returns INVALID_ARGUMENT if product_category is present in update_mask.

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

UpdateProductSet

UpdateProductSet

rpc UpdateProductSet(UpdateProductSetRequest

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductSetRequest)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductSetRequest](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.UpdateProductSetRequest))

) returns (ProductSet

([https://cloud.google.com/vision/product-](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet)

[search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet](https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet))

)

Makes changes to a ProductSet resource. Only display_name can be updated currently.

Possible errors:

- Returns NOT_FOUND if the ProductSet does not exist.
- Returns INVALID_ARGUMENT if display_name is present in update_mask but missing from the request or longer than 4096 characters.

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

AddProductToProductSetRequest

Request message for the `AddProductToProductSet` method.

Fields

Fields	
name	<p>string</p> <p>Required. The resource name for the ProductSet to modify.</p> <p>Format is: <code>projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID</code></p>
product	<p>string</p> <p>Required. The resource name for the Product to be added to this ProductSet.</p> <p>Format is: <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</code></p>

AnnotateFileRequest

A request to annotate one single file, e.g. a PDF, TIFF or GIF file.

Fields	
input_config	<p><u>InputConfig</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.InputConfig)</p> <p>Required. Information about the input file.</p>
features[]	<p><u>Feature</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature)</p> <p>Required. Requested features.</p>

Fields

image_context	<u>ImageContext</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageContext) Additional context that may accompany the image(s) in the file.
pages[]	int32 Pages of the file to perform image annotation. Pages starts from 1, we assume the first page of the file is page 1. At most 5 pages are supported per request. Pages can be negative. Page 1 means the first page. Page 2 means the second page. Page -1 means the last page. Page -2 means the second to the last page. If the file is GIF instead of PDF or TIFF, page refers to GIF frames. If this field is empty, by default the service performs image annotation for the first 5 pages of the file.

AnnotateFileResponse

Response to a single file annotation request. A file may contain one or more images, which individually have their own responses.

Fields

input_config	<u>InputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.InputConfig) Information about the file for which this response is generated.
---------------------	--

Fields	
responses []	<p><u>AnnotateImageResponse</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageResponse)</p> <p>Individual responses to images found within the file. This field will be empty if the error field is set.</p>
total_pages	<p>int32</p> <p>This field gives the total number of pages in the file.</p>
error	<p><u>Status</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.rpc#google.rpc.Status)</p> <p>If set, represents the error message for the failed request. The responses field will not be set in this case.</p>

AnnotateImageRequest

Request for performing Google Cloud Vision API tasks over a user-provided image, with user-requested features, and with context information.

Fields	
image	<p><u>Image</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Image)</p> <p>The image to be processed.</p>
features []	<p><u>Feature</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature)</p> <p>Requested features.</p>

Fields

image_context	<u>ImageContext</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageContext) Additional context that may accompany the image.
----------------------	---

AnnotateImageResponse

Response to an image annotation request.

Fields

face_annotations[]	<u>FaceAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation) If present, face detection has completed successfully.
landmark_annotations[]	<u>EntityAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.EntityAnnotation) If present, landmark detection has completed successfully.
logo_annotations[]	<u>EntityAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.EntityAnnotation) If present, logo detection has completed successfully.
label_annotations[]	<u>EntityAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.EntityAnnotation) If present, label detection has completed successfully.

Fields	
localized_object_annotations[]	<p><u>LocalizedObjectAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LocalizedObjectAnnotation)</p> <p>If present, localized object detection has completed successfully. This will be sorted descending by confidence score.</p>
text_annotations[]	<p><u>EntityAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.EntityAnnotation)</p> <p>If present, text (OCR) detection has completed successfully.</p>
full_text_annotation	<p><u>TextAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation)</p> <p>If present, text (OCR) detection or document (OCR) text detection has completed successfully. This annotation provides the structural hierarchy for the OCR detected text.</p>
safe_search_annotation	<p><u>SafeSearchAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.SafeSearchAnnotation)</p> <p>If present, safe-search annotation has completed successfully.</p>
image_properties_annotation	<p><u>ImageProperties</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageProperties)</p> <p>If present, image properties were extracted successfully.</p>
crop_hints_annotation	<p><u>CropHintsAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHintsAnnotation)</p> <p>If present, crop hints have completed successfully.</p>

Fields	
web_detection	<p><u>WebDetection</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection)</p> <p>If present, web detection has completed successfully.</p>
product_search_results	<p><u>ProductSearchResults</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults)</p> <p>If present, product search has completed successfully.</p>
error	<p><u>Status</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.rpc#google.rpc.Status)</p> <p>If set, represents the error message for the operation. Note that filled-in image annotations are guaranteed to be correct, even when error is set.</p>
context	<p><u>ImageAnnotationContext</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageAnnotationContext)</p> <p>If present, contextual information is needed to understand where this image comes from.</p>

AsyncAnnotateFileRequest

An offline file annotation request.

Fields

Fields	
<code>input_config</code>	<p><u>InputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.InputConfig)</p> <p>Required. Information about the input file.</p>
<code>features[]</code>	<p><u>Feature</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature)</p> <p>Required. Requested features.</p>
<code>image_context</code>	<p><u>ImageContext</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageContext)</p> <p>Additional context that may accompany the image(s) in the file.</p>
<code>output_config</code>	<p><u>OutputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OutputConfig)</p> <p>Required. The desired output location and metadata (e.g. format).</p>

AsyncAnnotateFileResponse

The response for a single offline file annotation request.

Fields	
<code>output_config</code>	<p><u>OutputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OutputConfig)</p> <p>The output location and metadata from AsyncAnnotateFileRequest.</p>

AsyncBatchAnnotateFilesRequest

Multiple async file annotation requests are batched into a single service call.

Fields	
<code>requests[]</code>	<p><u>AsyncAnnotateFileRequest</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncAnnotateFileRequest)</p> <p>Required. Individual async file annotation requests for this batch.</p>
<code>parent</code>	<p>string</p> <p>Optional. Target project and location to make a call.</p> <p>Format: <code>projects/{project-id}/locations/{location-id}</code>.</p> <p>If no parent is specified, a region will be chosen automatically.</p> <p>Supported location-ids: <code>us</code>: USA country only, <code>asia</code>: East asia areas, like Japan, Taiwan, <code>eu</code>: The European Union.</p> <p>Example: <code>projects/project-A/locations/eu</code>.</p>

AsyncBatchAnnotateFilesResponse

Response to an async batch file annotation request.

Fields	
<code>responses[]</code>	<p><u>AsyncAnnotateFileResponse</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AsyncAnnotateFileResponse)</p> <p>The list of file annotation responses, one for each request in <code>AsyncBatchAnnotateFilesRequest</code>.</p>

AsyncBatchAnnotateImagesRequest

Request for async image annotation for a list of images.

Fields	
requests []	AnnotateImageRequest (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageRequest) Required. Individual image annotation requests for this batch.
output_config	OutputConfig (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OutputConfig) Required. The desired output location and metadata (e.g. format).
parent	string Optional. Target project and location to make a call. Format: projects/{project-id}/locations/{location-id} . If no parent is specified, a region will be chosen automatically. Supported location-ids: us : USA country only, asia : East asia areas, like Japan, Taiwan, eu : The European Union. Example: projects/project-A/locations/eu .

AsyncBatchAnnotateImagesResponse

Response to an async batch image annotation request.

Fields	
--------	--

Fields

output_config	<p><u>OutputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OutputConfig)</p> <p>The output location and metadata from AsyncBatchAnnotateImagesRequest.</p>
----------------------	---

BatchAnnotateFilesRequest

A list of requests to annotate files using the BatchAnnotateFiles API.

Fields

requests[]	<p><u>AnnotateFileRequest</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateFileRequest)</p> <p>Required. The list of file annotation requests. Right now we support only one AnnotateFileRequest in BatchAnnotateFilesRequest.</p>
parent	<p>string</p> <p>Optional. Target project and location to make a call.</p> <p>Format: projects/{project-id}/locations/{location-id}.</p> <p>If no parent is specified, a region will be chosen automatically.</p> <p>Supported location-ids: us: USA country only, asia: East asia areas, like Japan, Taiwan, eu: The European Union.</p> <p>Example: projects/project-A/locations/eu.</p>

BatchAnnotateFilesResponse

A list of file annotation responses.

Fields	
responses []	<p><u>AnnotateFileResponse</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateFileResponse)</p> <p>The list of file annotation responses, each response corresponding to each AnnotateFileRequest in BatchAnnotateFilesRequest.</p>

BatchAnnotateImagesRequest

Multiple image annotation requests are batched into a single service call.

Fields	
requests []	<p><u>AnnotateImageRequest</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageRequest)</p> <p>Required. Individual image annotation requests for this batch.</p>
parent	<p>string</p> <p>Optional. Target project and location to make a call.</p> <p>Format: projects/{project-id}/locations/{location-id}.</p> <p>If no parent is specified, a region will be chosen automatically.</p> <p>Supported location-ids: us: USA country only, asia: East asia areas, like Japan, Taiwan, eu: The European Union.</p> <p>Example: projects/project-A/locations/eu.</p>

BatchAnnotateImagesResponse

Response to a batch image annotation request.

Fields	
<code>responses []</code>	<p><u>AnnotateImageResponse</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.AnnotateImageResponse)</p> <p>Individual responses to image annotation requests within the batch.</p>

BatchOperationMetadata

Metadata for the batch operations such as the current state.

This is included in the `metadata` field of the `Operation` returned by the `GetOperation` call of the `google::longrunning::Operations` service.

Fields	
<code>state</code>	<p><u>State</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BatchOperationMetadata.State)</p> <p>The current state of the batch operation.</p>
<code>submit_time</code>	<p><u>Timestamp</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp)</p> <p>The time when the batch request was submitted to the server.</p>

Fields

end_time	<p>Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp)</p> <p>The time when the batch request is finished and google.longrunning.Operation.done (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation.FIELDS.bool.google.longrunning.Operation.done) is set to true.</p>
-----------------	---

State

Enumerates the possible states that the batch request can be in.

Enums

STATE_UNSPECIFIED	Invalid.
PROCESSING	Request is actively being processed.
SUCCESSFUL	The request is done and at least one item has been successfully processed.
FAILED	The request is done and no item has been successfully processed.
CANCELLED	The request is done after the longrunning.Operations.CancelOperation has been called by the user. Any records that were processed before the cancel command are output as specified in the request.

Block

Logical element on the page.

Fields

Fields

property

TextProperty

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty>)

Additional information detected for the block.

bounding_box

BoundingPoly

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly>)

The bounding box for the block. The vertices are in the order of top-left, top-right, bottom-right, bottom-left. When a rotation of the bounding box is detected the rotation is represented as around the top-left corner as defined when the text is read in the 'natural' orientation. For example:

- when the text is horizontal it might look like:

```
0----1
 |    |
3----2
```



- when it's rotated 180 degrees around the top-left corner it becomes:

```
2----3
 |    |
1----0
```



and the vertex order will still be (0, 1, 2, 3).

paragraphs []

Paragraph

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Paragraph>)

List of paragraphs in this block (if this blocks is of type text).

Fields	
block_type	BlockType (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Block.BlockType) Detected block type (text, image etc) for this block.
confidence	float Confidence of the OCR results on the block. Range [0, 1].

BlockType

Type of a block (text, image etc) as identified by OCR.

Enums	
UNKNOWN	Unknown block type.
TEXT	Regular text block.
TABLE	Table block.
PICTURE	Image block.
RULER	Horizontal/vertical line box.
BARCODE	Barcode block.

BoundingPoly

A bounding polygon for the detected image annotation.

Fields

Fields	
<code>vertices[]</code>	<p><u>Vertex</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Vertex)</p> <p>The bounding polygon vertices.</p>
<code>normalized_vertices[]</code>	<p><u>NormalizedVertex</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.NormalizedVertex)</p> <p>The bounding polygon normalized vertices.</p>

ColorInfo

Color information consists of RGB channels, score, and the fraction of the image that the color occupies in the image.

Fields	
<code>color</code>	<p><u>Color</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.type#google.type.Color)</p> <p>RGB components of the color.</p>
<code>score</code>	<p>float</p> <p>Image-specific score for this color. Value in range [0, 1].</p>
<code>pixel_fraction</code>	<p>float</p> <p>The fraction of pixels the color occupies in the image. Value in range [0, 1].</p>

CreateProductRequest

Request message for the `CreateProduct` method.

Fields	
parent	string Required. The project in which the Product should be created. Format is projects/PROJECT_ID/locations/LOC_ID .
product	<u>Product</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product) Required. The product to create.
product_id	string A user-supplied resource id for this Product. If set, the server will attempt to use this value as the resource id. If it is already in use, an error is returned with code ALREADY_EXISTS . Must be at most 128 characters long. It cannot contain the character / .

CreateProductSetRequest

Request message for the `CreateProductSet` method.

Fields	
parent	string Required. The project in which the ProductSet should be created. Format is projects/PROJECT_ID/locations/LOC_ID .
product_set	<u>ProductSet</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet) Required. The ProductSet to create.

Fields

product_set_id	string
	A user-supplied resource id for this ProductSet. If set, the server will attempt to use this value as the resource id. If it is already in use, an error is returned with code ALREADY_EXISTS. Must be at most 128 characters long. It cannot contain the character /.

CreateReferenceImageRequest

Request message for the `CreateReferenceImage` method.

Fields

parent	string
	Required. Resource name of the product in which to create the reference image. Format is <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</code> .
reference_image	<u>ReferenceImage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage)
	Required. The reference image to create. If an image ID is specified, it is ignored.
reference_image_id	string
	A user-supplied resource id for the ReferenceImage to be added. If set, the server will attempt to use this value as the resource id. If it is already in use, an error is returned with code ALREADY_EXISTS. Must be at most 128 characters long. It cannot contain the character /.

CropHint

Single crop hint that is used to generate a new crop when serving an image.

Fields	
bounding_poly	<u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly) The bounding polygon for the crop region. The coordinates of the bounding box are in the original image's scale.
confidence	float Confidence of this being a salient region. Range [0, 1].
importance_fraction	float Fraction of importance of this salient region with respect to the original image.

CropHintsAnnotation

Set of crop hints that are used to generate new crops when serving images.

Fields	
crop_hints[]	<u>CropHint</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHint) Crop hint results.

CropHintsParams

Parameters for crop hints annotation request.

Fields

aspect_ratios[]	float
	Aspect ratios in floats, representing the ratio of the width to the height of the image. For example, if the desired aspect ratio is 4/3, the corresponding float value should be 1.33333. If not specified, the best possible crop is returned. The number of provided aspect ratios is limited to a maximum of 16; any aspect ratios provided after the 16th are ignored.

DeleteProductRequest

Request message for the `DeleteProduct` method.

Fields

name	string
	Required. Resource name of product to delete.
	Format is: <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</code>

DeleteProductSetRequest

Request message for the `DeleteProductSet` method.

Fields

name	string
	Required. Resource name of the ProductSet to delete.
	Format is: <code>projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID</code>

DeleteReferenceImageRequest

Request message for the `DeleteReferenceImage` method.

Fields	
<code>name</code>	<p>string</p> <p>Required. The resource name of the reference image to delete.</p> <p>Format is:</p> <p><code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID/referenceImages/IMAGE_ID</code></p>

DominantColorsAnnotation


Set of dominant colors and their corresponding scores.

Fields	
<code>colors[]</code>	<p><u>ColorInfo</u></p> <p>(https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ColorInfo)</p> <p>RGB color values with their score and pixel fraction.</p>

EntityAnnotation

Set of detected entity features.

Fields	
--------	--

Fields	
mid	<p>string</p> <p>Opaque entity ID. Some IDs may be available in Google Knowledge Graph Search API (https://developers.google.com/knowledge-graph/).</p>
locale	<p>string</p> <p>The language code for the locale in which the entity textual description is expressed.</p>
description	<p>string</p> <p>Entity textual description, expressed in its locale language.</p>
score	<p>float</p> <p>Overall score of the result. Range [0, 1].</p>
confidence (deprecated)	<p>float</p> <p> This item is deprecated!</p> <p>Deprecated. Use score instead. The accuracy of the entity detection in an image. For example, for an image in which the "Eiffel Tower" entity is detected, this field represents the confidence that there is a tower in the query image. Range [0, 1].</p>
topicality	<p>float</p> <p>The relevancy of the ICA (Image Content Annotation) label to the image. For example, the relevancy of "tower" is likely higher to an image containing the detected "Eiffel Tower" than to an image containing a detected distant towering building, even though the confidence that there is a tower in each image may be the same. Range [0, 1].</p>
bounding_poly	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>Image region to which this entity belongs. Not produced for LABEL_DETECTION features.</p>

Fields

<code>locations[]</code>	<p><u>LocationInfo</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LocationInfo)</p> <p>The location information for the detected entity. Multiple LocationInfo elements can be present because one location may indicate the location of the scene in the image, and another location may indicate the location of the place where the image was taken. Location information is usually present for landmarks.</p>
<code>properties[]</code>	<p><u>Property</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Property)</p> <p>Some entities may have optional user-supplied Property (name/value) fields, such a score or string that qualifies the entity.</p>

FaceAnnotation

A face annotation object contains the results of face detection.

Fields

<code>bounding_poly</code>	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding polygon around the face. The coordinates of the bounding box are in the original image's scale. The bounding box is computed to "frame" the face in accordance with human expectations. It is based on the landmarker results. Note that one or more x and/or y coordinates may not be generated in the BoundingPoly (the polygon will be unbounded) if only a partial face appears in the image to be annotated.</p>
----------------------------	--

Fields	
fd_bounding_poly	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The fd_bounding_poly bounding polygon is tighter than the boundingPoly, and encloses only the skin part of the face. Typically, it is used to eliminate the face from any image analysis that detects the "amount of skin" visible in an image. It is not based on the landmarker results, only on the initial face detection, hence the</p> <p>fd (face detection) prefix.</p>
landmarks[]	<p><u>Landmark</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation.Landmark)</p> <p>Detected face landmarks.</p>
roll_angle	<p>float</p> <p>Roll angle, which indicates the amount of clockwise/anti-clockwise rotation of the face relative to the image vertical about the axis perpendicular to the face. Range [-180,180].</p>
pan_angle	<p>float</p> <p>Yaw angle, which indicates the leftward/rightward angle that the face is pointing relative to the vertical plane perpendicular to the image. Range [-180,180].</p>
tilt_angle	<p>float</p> <p>Pitch angle, which indicates the upwards/downwards angle that the face is pointing relative to the image's horizontal plane. Range [-180,180].</p>
detection_confidence	<p>float</p> <p>Detection confidence. Range [0, 1].</p>

Fields	
landmarking_confidence	float Face landmarking confidence. Range [0, 1].
joy_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Joy likelihood.
sorrow_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Sorrow likelihood.
anger_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Anger likelihood.
surprise_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Surprise likelihood.
under_exposed_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Under-exposed likelihood.

Fields	
blurred_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Blurred likelihood.
headwear_likelihood	<u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood) Headwear likelihood.

Landmark

A face-specific landmark (for example, a face feature).

Fields	
type	<u>Type</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.FaceAnnotation.Landmark.Type) Face landmark type.
position	<u>Position</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Position) Face landmark position.

Type

Face landmark (feature) type. Left and right are defined from the vantage of the viewer of the image without considering mirror projections typical of photos. So, `LEFT_EYE`, typically, is the person's right eye.

Enums	
<code>UNKNOWN_LANDMARK</code>	Unknown face landmark detected. Should not be filled.
<code>LEFT_EYE</code>	Left eye.
<code>RIGHT_EYE</code>	Right eye.
<code>LEFT_OF_LEFT_EYEBROW</code>	Left of left eyebrow.
<code>RIGHT_OF_LEFT_EYEBROW</code>	Right of left eyebrow.
<code>LEFT_OF_RIGHT_EYEBROW</code>	Left of right eyebrow.
<code>RIGHT_OF_RIGHT_EYEBROW</code>	Right of right eyebrow.
<code>MIDPOINT_BETWEEN_EYES</code>	Midpoint between eyes.
<code>NOSE_TIP</code>	Nose tip.
<code>UPPER_LIP</code>	Upper lip.
<code>LOWER_LIP</code>	Lower lip.
<code>MOUTH_LEFT</code>	Mouth left.
<code>MOUTH_RIGHT</code>	Mouth right.
<code>MOUTH_CENTER</code>	Mouth center.
<code>NOSE_BOTTOM_RIGHT</code>	Nose, bottom right.
<code>NOSE_BOTTOM_LEFT</code>	Nose, bottom left.
<code>NOSE_BOTTOM_CENTER</code>	Nose, bottom center.
<code>LEFT_EYE_TOP_BOUNDARY</code>	Left eye, top boundary.
<code>LEFT_EYE_RIGHT_CORNER</code>	Left eye, right corner.
<code>LEFT_EYE_BOTTOM_BOUNDARY</code>	Left eye, bottom boundary.
<code>LEFT_EYE_LEFT_CORNER</code>	Left eye, left corner.

Enums	
RIGHT_EYE_TOP_BOUNDARY	Right eye, top boundary.
RIGHT_EYE_RIGHT_CORNER	Right eye, right corner.
RIGHT_EYE_BOTTOM_BOUNDARY	Right eye, bottom boundary.
RIGHT_EYE_LEFT_CORNER	Right eye, left corner.
LEFT_EYEBROW_UPPER_MIDPOINT	Left eyebrow, upper midpoint.
RIGHT_EYEBROW_UPPER_MIDPOINT	Right eyebrow, upper midpoint.
LEFT_EAR_TRAGION	Left ear tragion.
RIGHT_EAR_TRAGION	Right ear tragion.
LEFT_EYE_PUPIL	Left eye pupil.
RIGHT_EYE_PUPIL	Right eye pupil.
FOREHEAD_GLABELLA	Forehead glabella.
CHIN_GNATHION	Chin gnathion.
CHIN_LEFT_GONION	Chin left gonion.
CHIN_RIGHT_GONION	Chin right gonion.

Feature

The type of Google Cloud Vision API detection to perform, and the maximum number of results to return for that type. Multiple **Feature** objects can be specified in the **features** list.

Fields	
type	<p>Type https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Feature.Type</p> <p>The feature type.</p>

Fields	
max_results	int32 Maximum number of results of this type. Does not apply to TEXT_DETECTION , DOCUMENT_TEXT_DETECTION , or CROP_HINTS .
model	string Model to use for the feature. Supported values: "builtin/stable" (the default if unset) and "builtin/latest".

Type

Type of Google Cloud Vision API feature to be extracted.

Enums	
TYPE_UNSPECIFIED	Unspecified feature type.
FACE_DETECTION	Run face detection.
LANDMARK_DETECTION	Run landmark detection.
LOGO_DETECTION	Run logo detection.
LABEL_DETECTION	Run label detection.
TEXT_DETECTION	Run text detection / optical character recognition (OCR). Text detection is optimized for areas of text within a larger image; if the image is a document, use DOCUMENT_TEXT_DETECTION instead.
DOCUMENT_TEXT_DETECTION	Run dense text document OCR. Takes precedence when both DOCUMENT_TEXT_DETECTION and TEXT_DETECTION are present.
SAFE_SEARCH_DETECTION	Run Safe Search to detect potentially unsafe or undesirable content.
IMAGE_PROPERTIES	Compute a set of image properties, such as the image's dominant colors.
CROP_HINTS	Run crop hints.
WEB_DETECTION	Run web detection.

Enums

PRODUCT_SEARCH	Run Product Search.
OBJECT_LOCALIZATION	Run localizer for object detection.

GcsDestination

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

Fields

uri	<p>string</p> <p>Google Cloud Storage URI prefix where the results will be stored. Results will be in JSON format and preceded by its corresponding input URI prefix. This field can either represent a Google Cloud Storage file prefix or Google Cloud Storage directory. In either case, the uri should be unique because in order to get all of the output files, you will need to do a wildcard Google Cloud Storage search on the uri prefix you provide.</p> <p>Examples:</p> <ul style="list-style-type: none"> File Prefix: gs://bucket-name/here/filenameprefix (gs://bucket-name/here/filenameprefix) The output files will be created in gs://bucket-name/here/ (gs://bucket-name/here/) and the names of the output files will begin with "filenameprefix". Directory Prefix: gs://bucket-name/some/location/ (gs://bucket-name/some/location/) The output files will be created in gs://bucket-name/some/location/ (gs://bucket-name/some/location/) and the names of the output files could be anything because there was no filename prefix specified. <p>If multiple outputs, each response is still <code>AnnotateFileResponse</code>, each of which contains some subset of the full list of <code>AnnotateImageResponse</code>. Multiple outputs can happen if, for example, the output JSON is too large and overflows into multiple sharded files.</p>
------------	---

GcsSource

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

Fields

uri	string
	Google Cloud Storage URI for the input file. This must only be a Google Cloud Storage object. Wildcards are not currently supported.

GetProductRequest

Request message for the `GetProduct` method.

Fields

name	string
	Required. Resource name of the Product to get.
	Format is: <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</code>

GetProductSetRequest

Request message for the `GetProductSet` method.

Fields

name	string
	Required. Resource name of the ProductSet to get.
	Format is: <code>projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID</code>

GetReferenceImageRequest

Request message for the `GetReferenceImage` method.

Fields	
name	string Required. The resource name of the ReferenceImage to get. Format is: <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID/referenceImages/IMAGE_ID.</code>

Image

Client image to perform Google Cloud Vision API tasks over.

Fields	
content	bytes Image content, represented as a stream of bytes. Note: As with all bytes fields, protobufs use a pure binary representation, whereas JSON representations use base64.
source	<u>ImageSource</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImageSource) Google Cloud Storage image location, or publicly-accessible image URL. If both content and source are provided for an image, content takes precedence and is used to perform the image annotation request.

ImageAnnotationContext

If an image was produced from a file (e.g. a PDF), this message gives information about the source of that image.

Fields	
uri	string The URI of the file used to produce the image.
page_number	int32 If the file was a PDF or TIFF, this field gives the page number within the file used to produce the image.

ImageContext

Image context and/or feature-specific parameters.

Fields	
lat_long_rect	<u>LatLngRect</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.LatLngRect) Not used.
language_hints[]	string List of languages to use for TEXT_DETECTION. In most cases, an empty value yields the best results since it enables automatic language detection. For languages based on the Latin alphabet, setting language_hints is not needed. In rare cases, when the language of the text in the image is known, setting a hint will help get better results (although it will be a significant hindrance if the hint is wrong). Text detection returns an error if one or more of the specified languages is not one of the supported languages (https://cloud.google.com/vision/docs/languages).

Fields	
crop_hints_params	<u>CropHintsParams</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.CropHintsParams) Parameters for crop hints annotation request.
product_search_params	<u>ProductSearchParams</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchParams) Parameters for product search.
web_detection_params	<u>WebDetectionParams</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetectionParams) Parameters for web detection.

ImageProperties

Stores image properties, such as dominant colors.

Fields	
dominant_colors	<u>DominantColorsAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.DominantColorsAnnotation) If present, dominant colors completed successfully.

ImageSource

External image source (Google Cloud Storage or web URL image location).

Fields

gcs_image_uri

string

Use **image_uri** instead.

The Google Cloud Storage URI of the form

gs://bucket_name/object_name. Object versioning is not supported.

See [Google Cloud Storage Request URIs](https://cloud.google.com/storage/docs/reference-uris)

(<https://cloud.google.com/storage/docs/reference-uris>) for more info.

image_uri

string

The URI of the source image. Can be either:

1. A Google Cloud Storage URI of the form **gs://bucket_name/object_name**. Object versioning is not supported. See [Google Cloud Storage Request URIs](https://cloud.google.com/storage/docs/reference-uris) (<https://cloud.google.com/storage/docs/reference-uris>) for more info.
2. A publicly-accessible image HTTP/HTTPS URL. When fetching images from HTTP/HTTPS URLs, Google cannot guarantee that the request will be completed. Your request may fail if the specified host denies the request (e.g. due to request throttling or DOS prevention), or if Google throttles requests to the site for abuse prevention. You should not depend on externally-hosted images for production applications.

When both **gcs_image_uri** and **image_uri** are specified, **image_uri** takes precedence.

ImportProductSetsGcsSource

The Google Cloud Storage location for a csv file which preserves a list of `ImportProductSetRequests` in each line.

Fields

csv_file_uri

string

The Google Cloud Storage URI of the input csv file.

Fields

The URI must start with `gs://`.

The format of the input csv file should be one image per line. In each line, there are 8 columns.

1. image-uri
2. image-id
3. product-set-id
4. product-id
5. product-category
6. product-display-name
7. labels
8. bounding-poly

The `image-uri`, `product-set-id`, `product-id`, and `product-category` columns are required. All other columns are optional.

If the `ProductSet` or `Product` specified by the `product-set-id` and `product-id` values does not exist, then the system will create a new `ProductSet` or `Product` for the image. In this case, the `product-display-name` column refers to `display_name` (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1.Product.FIELDS.string.google.cloud.vision.v1.Product.display_name), the `product-category` column refers to `product_category` (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1.Product.FIELDS.string.google.cloud.vision.v1.Product.product_category), and the `labels` column refers to `product_labels` (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1.Product.FIELDS.repeated.google.cloud.vision.v1.Product.KeyValue.google.cloud.vision.v1.Product.product_labels).

The `image-id` column is optional but must be unique if provided. If it is empty, the system will automatically assign a unique id to the image.

The `product-display-name` column is optional. If it is empty, the system sets the `display_name`

Fields

(https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product.FIELDS.string.google.cloud.vision.v1.Product.display_name) field for the product to a space (" "). You can update the **display_name** later by using the API.

If a **Product** with the specified **product-id** already exists, then the system ignores the **product-display-name**, **product-category**, and **labels** columns.

The **labels** column (optional) is a line containing a list of comma-separated key-value pairs, in the following format:

```
"key_1=value_1 , key_2=value_2 , . . . , key_n=value_n"
```

The **bounding-poly** column (optional) identifies one region of interest from the image in the same manner as **CreateReferenceImage**. If you do not specify the **bounding-poly** column, then the system will try to detect regions of interest automatically.

At most one **bounding-poly** column is allowed per line. If the image contains multiple regions of interest, add a line to the CSV file that includes the same product information, and the **bounding-poly** values for each region of interest.

The **bounding-poly** column must contain an even number of comma-separated numbers, in the format "p1_x,p1_y,p2_x,p2_y,...,pn_x,pn_y". Use non-negative integers for absolute bounding polygons, and float values in [0, 1] for normalized bounding polygons.

The system will resize the image if the image resolution is too large to process (larger than 20MP).

ImportProductSetsInputConfig

The input content for the **ImportProductSets** method.

Fields

Fields

gcs_source	<p><u>ImportProductSetsGcsSource</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsGcsSource)</p> <p>The Google Cloud Storage location for a csv file which preserves a list of ImportProductSetRequests in each line.</p>
-------------------	--

ImportProductSetsRequest

Request message for the `ImportProductSets` method.

Fields

parent	<p>string</p> <p>Required. The project in which the ProductSets should be imported.</p> <p>Format is <code>projects/PROJECT_ID/locations/LOC_ID</code>.</p>
input_config	<p><u>ImportProductSetsInputConfig</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ImportProductSetsInputConfig)</p> <p>Required. The input content for the list of requests.</p>

ImportProductSetsResponse

Response message for the `ImportProductSets` method.

This message is returned by the `google.longrunning.Operations.GetOperation` (<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operations.GetOperation>) method in the returned `google.longrunning.Operation.response`

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.longrunning#google.longrunning.Operation.FIELDS.google.protobuf.Any.google.longrunning.Operation.response>)

field.

Fields

reference_images[]	<p><u>ReferenceImage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage)</p> <p>The list of reference_images that are imported successfully.</p>
statuses[]	<p><u>Status</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.rpc#google.rpc.Status)</p> <p>The rpc status for each ImportProductSet request, including both successes and errors.</p> <p>The number of statuses here matches the number of lines in the csv file, and statuses[i] stores the success or failure status of processing the i-th line of the csv, starting from line 0.</p>

InputConfig

The desired input location and metadata.

Fields

gcs_source	<p><u>GcsSource</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GcsSource)</p> <p>The Google Cloud Storage location to read the input from.</p>
-------------------	---

Fields	
content	bytes File content, represented as a stream of bytes. Note: As with all bytes fields, protobufs use a pure binary representation, whereas JSON representations use base64. Currently, this field only works for BatchAnnotateFiles requests. It does not work for AsyncBatchAnnotateFiles requests.
mime_type	string The type of the file. Currently only "application/pdf", "image/tiff" and "image/gif" are supported. Wildcards are not supported.

LatLngRect

Rectangle determined by min and max **LatLng** pairs.

Fields	
min_lat_lng	LatLng (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.type#google.type.LatLng) Min lat/long pair.
max_lat_lng	LatLng (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.type#google.type.LatLng) Max lat/long pair.

Likelihood

A bucketized representation of likelihood, which is intended to give clients highly stable results across model upgrades.

Enums	
UNKNOWN	Unknown likelihood.
VERY_UNLIKELY	It is very unlikely.
UNLIKELY	It is unlikely.
POSSIBLE	It is possible.
LIKELY	It is likely.
VERY_LIKELY	It is very likely.

ListProductSetsRequest

Request message for the `ListProductSets` method.

Fields	
<code>parent</code>	<code>string</code> Required. The project from which ProductSets should be listed. Format is <code>projects/PROJECT_ID/locations/LOC_ID</code> .
<code>page_size</code>	<code>int32</code> The maximum number of items to return. Default 10, maximum 100.
<code>page_token</code>	<code>string</code> The <code>next_page_token</code> returned from a previous List request, if any.

ListProductSetsResponse

Response message for the `ListProductSets` method.

Fields

Fields	
<code>product_sets[]</code>	ProductSet (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet) List of ProductSets.
<code>next_page_token</code>	string Token to retrieve the next page of results, or empty if there are no more results in the list.

ListProductsInProductSetRequest

Request message for the `ListProductsInProductSet` method.

Fields	
<code>name</code>	string Required. The ProductSet resource for which to retrieve Products. Format is: <code>projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID</code>
<code>page_size</code>	int32 The maximum number of items to return. Default 10, maximum 100.
<code>page_token</code>	string The <code>next_page_token</code> returned from a previous List request, if any.

ListProductsInProductSetResponse

Response message for the `ListProductsInProductSet` method.

Fields	
<code>products[]</code>	<p>Product (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product)</p> <p>The list of Products.</p>
<code>next_page_token</code>	<p>string</p> <p>Token to retrieve the next page of results, or empty if there are no more results in the list.</p>

ListProductsRequest

Request message for the `ListProducts` method.

Fields	
<code>parent</code>	<p>string</p> <p>Required. The project OR ProductSet from which Products should be listed.</p> <p>Format: <code>projects/PROJECT_ID/locations/LOC_ID</code></p>
<code>page_size</code>	<p>int32</p> <p>The maximum number of items to return. Default 10, maximum 100.</p>
<code>page_token</code>	<p>string</p> <p>The <code>next_page_token</code> returned from a previous List request, if any.</p>

ListProductsResponse

Response message for the `ListProducts` method.

Fields	
<code>products[]</code>	<p>Product (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product)</p> <p>List of products.</p>
<code>next_page_token</code>	<p>string</p> <p>Token to retrieve the next page of results, or empty if there are no more results in the list.</p>

ListReferenceImagesRequest

Request message for the `ListReferenceImages` method.

Fields	
<code>parent</code>	<p>string</p> <p>Required. Resource name of the product containing the reference images.</p> <p>Format is <code>projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</code>.</p>
<code>page_size</code>	<p>int32</p> <p>The maximum number of items to return. Default 10, maximum 100.</p>
<code>page_token</code>	<p>string</p> <p>A token identifying a page of results to be returned. This is the value of <code>nextPageToken</code> returned in a previous reference image list request.</p> <p>Defaults to the first page if not specified.</p>

ListReferenceImagesResponse

Response message for the `ListReferenceImages` method.

Fields	
<code>reference_images[]</code>	ReferenceImage (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ReferenceImage) The list of reference images.
<code>page_size</code>	int32 The maximum number of items to return. Default 10, maximum 100.
<code>next_page_token</code>	string The <code>next_page_token</code> returned from a previous List request, if any.

LocalizedObjectAnnotation

Set of detected objects with bounding boxes.

Fields	
<code>mid</code>	string Object ID that should align with EntityAnnotation mid.
<code>language_code</code>	string The BCP-47 language code, such as "en-US" or "sr-Latn". For more information, see http://www.unicode.org/reports/tr35/#Unicode_locale_identifier (http://www.unicode.org/reports/tr35/#Unicode_locale_identifier).
<code>name</code>	string Object name, expressed in its <code>language_code</code> language.
<code>score</code>	float Score of the result. Range [0, 1].

Fields

bounding_poly	<u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly) Image region to which this object belongs. This must be populated.
----------------------	---

LocationInfo

Detected entity location information.

Fields

lat_lng	<u>LatLng</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.type#google.type.LatLng) lat/long location coordinates.
----------------	---

NormalizedVertex

A vertex represents a 2D point in the image. NOTE: the normalized vertex coordinates are relative to the original image and range from 0 to 1.

Fields

x	float X coordinate.
y	float Y coordinate.

OperationMetadata

Contains metadata for the BatchAnnotateImages operation.

Fields	
state	State (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.OperationMetadata.State) Current state of the batch operation.
create_time	Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) The time when the batch request was received.
update_time	Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) The time when the operation result was last updated.

State

Batch operation states.

Enums	
STATE_UNSPECIFIED	Invalid.
CREATED	Request is received.
RUNNING	Request is actively being processed.
DONE	The batch processing is done.
CANCELLED	The batch processing was cancelled.

OutputConfig

The desired output location and metadata.

Fields	
gcs_destination	<p><u>GcsDestination</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.GcsDestination)</p> <p>The Google Cloud Storage location to write the output(s) to.</p>
batch_size	<p>int32</p> <p>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.</p> <p>For example, for one pdf file with 100 pages, 100 response protos will be generated. If batch_size = 20, then 5 json files each containing 20 response protos will be written under the prefix gcs_destination.uri.</p> <p>Currently, batch_size only applies to GcsDestination, with potential future support for other output configurations.</p>

Page

Detected page from OCR.

Fields	
property	<p><u>TextProperty</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty)</p> <p>Additional information detected on the page.</p>

Fields	
width	int32 Page width. For PDFs the unit is points. For images (including TIFFs) the unit is pixels.
height	int32 Page height. For PDFs the unit is points. For images (including TIFFs) the unit is pixels.
blocks[]	<u>Block</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Block) List of blocks of text, images etc on this page.
confidence	float Confidence of the OCR results on the page. Range [0, 1].

Paragraph

Structural unit of text representing a number of words in certain order.

Fields	
property	<u>TextProperty</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty) Additional information detected for the paragraph.

Fields	
bounding_box	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding box for the paragraph. The vertices are in the order of top-left, top-right, bottom-right, bottom-left. When a rotation of the bounding box is detected the rotation is represented as around the top-left corner as defined when the text is read in the 'natural' orientation. For example: * when the text is horizontal it might look like: 0---1 3---2 * when it's rotated 180 degrees around the top-left corner it becomes: 2---3 1---0 and the vertex order will still be (0, 1, 2, 3).</p>
words[]	<p><u>Word</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Word)</p> <p>List of all words in this paragraph.</p>
confidence	<p>float</p> <p>Confidence of the OCR results for the paragraph. Range [0, 1].</p>

Position

A 3D position in the image, used primarily for Face detection landmarks. A valid Position must have both x and y coordinates. The position coordinates are in the same scale as the original image.

Fields	
x	<p>float</p> <p>X coordinate.</p>
y	<p>float</p> <p>Y coordinate.</p>

Fields

z	float
	Z coordinate (or depth).

Product

A Product contains ReferenceImages.

Fields

name	string
	The resource name of the product. Format is: projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID. This field is ignored when creating a product.
display_name	string
	The user-provided name for this Product. Must not be empty. Must be at most 4096 characters long.
description	string
	User-provided metadata to be stored with this product. Must be at most 4096 characters long.
product_category	string
	Immutable. The category for the product identified by the reference image. This should be either "homegoods-v2", "apparel-v2", or "toys-v2". The legacy categories "homegoods", "apparel", and "toys" are still supported, but these should not be used for new products.

Fields

product_labels[]	<p>KeyValue (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product.KeyValue)</p> <p>Key-value pairs that can be attached to a product. At query time, constraints can be specified based on the product_labels.</p> <p>Note that integer values can be provided as strings, e.g. "1199". Only strings with integer values can match a range-based restriction which is to be supported soon.</p> <p>Multiple values can be assigned to the same key. One product may have up to 500 product_labels.</p> <p>Notice that the total number of distinct product_labels over all products in one ProductSet cannot exceed 1M, otherwise the product search pipeline will refuse to work for that ProductSet.</p>
-------------------------	---

KeyValue

A product label represented as a key-value pair.

Fields

key	<p>string</p> <p>The key of the label attached to the product. Cannot be empty and cannot exceed 128 bytes.</p>
value	<p>string</p> <p>The value of the label attached to the product. Cannot be empty and cannot exceed 128 bytes.</p>

ProductSearchParams

Parameters for a product search request.

Fields	
bounding_poly	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding polygon around the area of interest in the image. Optional. If it is not specified, system discretion will be applied.</p>
product_set	<p>string</p> <p>The resource name of a <u>ProductSet</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet) to be searched for similar images.</p> <p>Format is: projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID.</p>
product_categories[]	<p>string</p> <p>The list of product categories to search in. Currently, we only consider the first category, and either "homegoods-v2", "apparel-v2", "toys-v2", "packagedgoods-v1", or "general-v1" should be specified. The legacy categories "homegoods", "apparel", and "toys" are still supported but will be deprecated. For new products, please use "homegoods-v2", "apparel-v2", or "toys-v2" for better product search accuracy. It is recommended to migrate existing products to these categories as well.</p>
filter	<p>string</p> <p>The filtering expression. This can be used to restrict search results based on Product labels. We currently support an AND of OR of key-value expressions, where each expression within an OR must have the same key. An '=' should be used to connect the key and value.</p> <p>For example, "(color = red OR color = blue) AND brand = Google" is acceptable, but "(color = red OR brand = Google)" is not acceptable. "color: red" is not acceptable because it uses a ':' instead of an '='.</p>

ProductSearchResults

Results for a product search request.

Fields	
<code>index_time</code>	<p><u>Timestamp</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp)</p> <p>Timestamp of the index which provided these results. Products added to the product set and products removed from the product set after this time are not reflected in the current results.</p>
<code>results[]</code>	<p><u>Result</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.Result)</p> <p>List of results, one for each product match.</p>
<code>product_grouped_results[]</code>	<p><u>GroupedResult</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.GroupedResult)</p> <p>List of results grouped by products detected in the query image. Each entry corresponds to one bounding polygon in the query image, and contains the matching products specific to that region. There may be duplicate product matches in the union of all the per-product results.</p>

GroupedResult

Information about the products similar to a single product in a query image.

Fields

Fields	
bounding_poly	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding polygon around the product detected in the query image.</p>
results[]	<p><u>Result</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.Result)</p> <p>List of results, one for each product match.</p>
object_annotations[]	<p><u>ObjectAnnotation</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSearchResults.ObjectAnnotation)</p> <p>List of generic predictions for the object in the bounding box.</p>

ObjectAnnotation

Prediction for what the object in the bounding box is.

Fields	
mid	<p>string</p> <p>Object ID that should align with EntityAnnotation mid.</p>
language_code	<p>string</p> <p>The BCP-47 language code, such as "en-US" or "sr-Latn". For more information, see http://www.unicode.org/reports/tr35/#Unicode_locale_identifier (http://www.unicode.org/reports/tr35/#Unicode_locale_identifier).</p>
name	<p>string</p> <p>Object name, expressed in its language_code language.</p>

Fields

score	float Score of the result. Range [0, 1].
--------------	--

Result

Information about a product.

Fields

product	<u>Product</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product) The Product.
score	float A confidence level on the match, ranging from 0 (no confidence) to 1 (full confidence).
image	string The resource name of the image from the product that is the closest match to the query.

ProductSet

A ProductSet contains Products. A ProductSet can contain a maximum of 1 million reference images. If the limit is exceeded, periodic indexing will fail.

Fields

Fields	
name	<p>string</p> <p>The resource name of the ProductSet.</p> <p>Format is: projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID.</p> <p>This field is ignored when creating a ProductSet.</p>
display_name	<p>string</p> <p>The user-provided name for this ProductSet. Must not be empty. Must be at most 4096 characters long.</p>
index_time	<p><u>Timestamp</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp)</p> <p>Output only. The time at which this ProductSet was last indexed. Query results will reflect all updates before this time. If this ProductSet has never been indexed, this timestamp is the default value "1970-01-01T00:00:00Z".</p> <p>This field is ignored when creating a ProductSet.</p>
index_error	<p><u>Status</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.rpc#google.rpc.Status)</p> <p>Output only. If there was an error with indexing the product set, the field is populated.</p> <p>This field is ignored when creating a ProductSet.</p>

ProductSetPurgeConfig

Config to control which ProductSet contains the Products to be deleted.

Fields

product_set_id	string
	The ProductSet that contains the Products to delete. If a Product is a member of product_set_id in addition to other ProductSets, the Product will still be deleted.

Property

A **Property** consists of a user-supplied name/value pair.

Fields

name	string
	Name of the property.
value	string
	Value of the property.
uint64_value	uint64
	Value of numeric properties.

PurgeProductsRequest

Request message for the **PurgeProducts** method.

Fields

parent	string
	Required. The project and location in which the Products should be deleted.
	Format is projects/PROJECT_ID/locations/LOC_ID .

Fields	
force	bool The default value is false. Override this value to true to actually perform the purge.
Union field target . The Products to delete. target can be only one of the following:	
product_set_purge_config	ProductSetPurgeConfig (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSetPurgeConfig) Specify which ProductSet contains the Products to be deleted.
delete_orphan_products	bool If delete_orphan_products is true, all Products that are not in any ProductSet will be deleted.

ReferenceImage

A **ReferenceImage** represents a product image and its associated metadata, such as bounding boxes.

Fields	
name	string The resource name of the reference image. Format is: projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID/referenceImages/IMAGE_ID. This field is ignored when creating a reference image.

Fields	
uri	string Required. The Google Cloud Storage URI of the reference image. The URI must start with <code>gs://</code> .
bounding_polys[]	<u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly) Optional. Bounding polygons around the areas of interest in the reference image. If this field is empty, the system will try to detect regions of interest. At most 10 bounding polygons will be used. The provided shape is converted into a non-rotated rectangle. Once converted, the small edge of the rectangle must be greater than or equal to 300 pixels. The aspect ratio must be 1:4 or less (i.e. 1:3 is ok; 1:5 is not).

RemoveProductFromProductSetRequest

Request message for the `RemoveProductFromProductSet` method.

Fields	
name	string Required. The resource name for the ProductSet to modify. Format is: <code>projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID</code>

Fields	
product	<p>string</p> <p>Required. The resource name for the Product to be removed from this ProductSet.</p> <p>Format is: projects/PROJECT_ID/locations/LOC_ID/products/PRODUCT_ID</p>

SafeSearchAnnotation

Set of features pertaining to the image, computed by computer vision methods over safe-search verticals (for example, adult, spoof, medical, violence).

Fields	
adult	<p><u>Likelihood</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood)</p> <p>Represents the adult content likelihood for the image. Adult content may contain elements such as nudity, pornographic images or cartoons, or sexual activities.</p>
spoof	<p><u>Likelihood</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood)</p> <p>Spoof likelihood. The likelihood that an modification was made to the image's canonical version to make it appear funny or offensive.</p>
medical	<p><u>Likelihood</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood)</p> <p>Likelihood that this is a medical image.</p>

Fields	
violence	<p><u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood)</p> <p>Likelihood that this image contains violent content.</p>
racy	<p><u>Likelihood</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Likelihood)</p> <p>Likelihood that the request image contains racy content. Racy content may include (but is not limited to) skimpy or sheer clothing, strategically covered nudity, lewd or provocative poses, or close-ups of sensitive body areas.</p>

Symbol

A single symbol representation.

Fields	
property	<p><u>TextProperty</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty)</p> <p>Additional information detected for the symbol.</p>

Fields

bounding_box	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding box for the symbol. The vertices are in the order of top-left, top-right, bottom-right, bottom-left. When a rotation of the bounding box is detected the rotation is represented as around the top-left corner as defined when the text is read in the 'natural' orientation. For example: * when the text is horizontal it might look like: 0---1 3---2 * when it's rotated 180 degrees around the top-left corner it becomes: 2---3 1---0 and the vertex order will still be (0, 1, 2, 3).</p>
text	<p>string</p> <p>The actual UTF-8 representation of the symbol.</p>
confidence	<p>float</p> <p>Confidence of the OCR results for the symbol. Range [0, 1].</p>

TextAnnotation

TextAnnotation contains a structured representation of OCR extracted text. The hierarchy of an OCR extracted text structure is like this: TextAnnotation -> Page -> Block -> Paragraph -> Word -> Symbol Each structural component, starting from Page, may further have their own properties. Properties describe detected languages, breaks etc.. Please refer to the

TextAnnotation.TextProperty

(<https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty>) message definition below for more detail.

Fields

Fields	
pages []	<u>Page</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Page) List of pages detected by OCR.
text	string UTF-8 text detected on the pages.

DetectedBreak

Detected start or end of a structural component.

Fields	
type	<u>BreakType</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedBreak.BreakType) Detected break type.
is_prefix	bool True if break prepends the element.

BreakType

Enum to denote the type of break found. New line, space etc.

Enums	
UNKNOWN	Unknown break label type.
SPACE	Regular space.

Enums	
SURE_SPACE	Sure space (very wide).
EOL_SURE_SPACE	Line-wrapping break.
HYPHEN	End-line hyphen that is not present in text; does not co-occur with SPACE , LEADER_SPACE , or LINE_BREAK .
LINE_BREAK	Line break that ends a paragraph.

DetectedLanguage

Detected language for a structural component.

Fields	
language_code	string The BCP-47 language code, such as "en-US" or "sr-Latn". For more information, see http://www.unicode.org/reports/tr35/#Unicode_locale_identifier (http://www.unicode.org/reports/tr35/#Unicode_locale_identifier).
confidence	float Confidence of detected language. Range [0, 1].

TextProperty

Additional information detected on the structural component.

Fields

Fields

<code>detected_languages []</code>	<p><u>DetectedLanguage</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedLanguage)</p> <p>A list of detected languages together with confidence.</p>
<code>detected_break</code>	<p><u>DetectedBreak</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.DetectedBreak)</p> <p>Detected start or end of a text segment.</p>

UpdateProductRequest

Request message for the `UpdateProduct` method.

Fields

<code>product</code>	<p><u>Product</u> https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Product)</p> <p>Required. The Product resource which replaces the one on the server. <code>product.name</code> is immutable.</p>
<code>update_mask</code>	<p><u>FieldMask</u> https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.FieldMask)</p> <p>The <u>FieldMask</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.FieldMask) that specifies which fields to update. If <code>update_mask</code> isn't specified, all mutable fields are to be updated. Valid mask paths include <code>product_labels</code>, <code>display_name</code>, and <code>description</code>.</p>

UpdateProductSetRequest

Request message for the `UpdateProductSet` method.

Fields	
<code>product_set</code>	<p><u>ProductSet</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.ProductSet)</p> <p>Required. The ProductSet resource which replaces the one on the server.</p>
<code>update_mask</code>	<p><u>FieldMask</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.FieldMask)</p> <p>The <u>FieldMask</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.FieldMask) that specifies which fields to update. If <code>update_mask</code> isn't specified, all mutable fields are to be updated. Valid mask path is <code>display_name</code>.</p>

Vertex

A vertex represents a 2D point in the image. NOTE: the vertex coordinates are in the same scale as the original image.

Fields	
<code>x</code>	<p><code>int32</code></p> <p>X coordinate.</p>
<code>y</code>	<p><code>int32</code></p> <p>Y coordinate.</p>

WebDetection

Relevant information for the image from the Internet.

Fields	
<code>web_entities[]</code>	<p><u>WebEntity</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebEntity)</p> <p>Deduced entities from similar images on the Internet.</p>
<code>full_matching_images[]</code>	<p><u>WebImage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage)</p> <p>Fully matching images from the Internet. Can include resized copies of the query image.</p>
<code>partial_matching_images[]</code>	<p><u>WebImage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage)</p> <p>Partial matching images from the Internet. Those images are similar enough to share some key-point features. For example an original image will likely have partial matching for its crops.</p>
<code>pages_with_matching_images[]</code>	<p><u>WebPage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebPage)</p> <p>Web pages containing the matching images from the Internet.</p>
<code>visually_similar_images[]</code>	<p><u>WebImage</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage)</p> <p>The visually similar image results.</p>

Fields

best_guess_labels[]	<u>WebLabel</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebLabel) The service's best guess as to the topic of the request image. Inferred from similar images on the open web.
----------------------------	---

WebEntity

Entity deduced from similar images on the Internet.

Fields

entity_id	string Opaque entity ID.
score	float Overall relevancy score for the entity. Not normalized and not comparable across different image queries.
description	string Canonical description of the entity, in English.

WebImage

Metadata for online images.

Fields

url	string The result image URL.
------------	--

Fields	
score	float (Deprecated) Overall relevancy score for the image.

WebLabel

Label to provide extra metadata for the web detection.

Fields	
label	string Label for extra metadata.
language_code	string The BCP-47 language code for label , such as "en-US" or "sr-Latn". For more information, see http://www.unicode.org/reports/tr35/#Unicode_locale_identifier (http://www.unicode.org/reports/tr35/#Unicode_locale_identifier).

WebPage

Metadata for web pages.

Fields	
url	string The result web page URL.
score	float (Deprecated) Overall relevancy score for the web page.

Fields

page_title	string Title for the web page, may contain HTML markups.
full_matching_images[]	WebImage (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage) Fully matching images on the page. Can include resized copies of the query image.
partial_matching_images[]	WebImage (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.WebDetection.WebImage) Partial matching images on the page. Those images are similar enough to share some key-point features. For example an original image will likely have partial matching for its crops.

WebDetectionParams

Parameters for web detection request.

Fields

include_geo_results	bool Whether to include results derived from the geo information in the image.
----------------------------	--

Word

A word representation.

Fields

Fields	
property	<p><u>TextProperty</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.TextAnnotation.TextProperty)</p> <p>Additional information detected for the word.</p>
bounding_box	<p><u>BoundingPoly</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.BoundingPoly)</p> <p>The bounding box for the word. The vertices are in the order of top-left, top-right, bottom-right, bottom-left. When a rotation of the bounding box is detected the rotation is represented as around the top-left corner as defined when the text is read in the 'natural' orientation. For example: * when the text is horizontal it might look like: 0---1 3---2 * when it's rotated 180 degrees around the top-left corner it becomes: 2---3 1---0 and the vertex order will still be (0, 1, 2, 3).</p>
symbols[]	<p><u>Symbol</u> (https://cloud.google.com/vision/product-search/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.Symbol)</p> <p>List of symbols in the word. The order of the symbols follows the natural reading order.</p>
confidence	<p>float</p> <p>Confidence of the OCR results for the word. Range [0, 1].</p>

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 December 11, 2019.