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As of January 1, 2020 this library no longer supports Python 2 on the latest released version. Library versions released prior to that date will continue to be available. For more information, see https://cloud.google.com/python/docs/python2-sunset

Types for Google Cloud Vision v1 API

class google.cloud.vision_v1.types.BoundingPoly(proto=None, *, vertices=, normalized_vertices=False, **kwargs) [source]

Bases: proto.message.Message

A bounding polygon for the detected image annotation.

vertices
Optional. Vertices of the bounding polygon vertices.

Type: Sequence[google.cloud.vision_v1.types.Vertex]

normalized_vertices
The bounding polygon normalized vertices.

Type: Sequence[google.cloud.vision_v1.types.NormalizedVertex]

class google.cloud.vision_v1.types.Position(proto=None, *, x=0.0, y=0.0, z=0.0, **kwargs) [source]

A 3D position in the image, used primarily for Face detection. A vertex is an integer, whereas a position is a float value, in units of pixels. The position coordinates are in the same scale as the original image.

- x
  A coordinate.
  Type: float
- y
  A coordinate.
  Type: float
- z
  A coordinate (in depth).
  Type: float

class google.cloud.vision_v1.types.Vertex(proto=None, *, x=0, y=0, **kwargs) [source]

Bases: proto.message.Message

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

- x
  A coordinate.
  Type: int
- y
  A coordinate.
  Type: int

class google.cloud.vision_v1.types.NormalizedVertex(proto=None, *, x=0.0, y=0.0, **kwargs) [source]

Bases: proto.message.Message

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

- x
  A coordinate.
  Type: float
- y
  A coordinate.
  Type: float

class google.cloud.vision_v1.types.Feature(proto=None, *, type=0, max_results=0, model=, **kwargs) [source]

Bases: proto.message.Message

A Feature indicates a type of image detection task to perform. Features are added in the request to indicate what kind of annotations. The position coordinates are in the same scale as the original image.

- x
  A coordinate.
  Type: int
- y
  A coordinate.
  Type: int

class google.cloud.vision_v1.types.InputConfig(proto=None, *, mime_type=, gcs_source=, content=b'', **kwargs) [source]

Bases: proto.message.Message

A request's input.

mime_type
Required. Mimetype of the input file.

Type: str

gcs_source
The Google Cloud Storage location to read the input.

Type: google.cloud.vision_v1.types.GcsSource

content
Content of the input file.

Type: bytes

class google.cloud.vision_v1.types.OutputConfig(proto=None, *, gcs_destination=, batch_size=0, **kwargs) [source]

Bases: proto.message.Message

A request's output.

gcs_destination
The Google Cloud Storage location to write the output.

Type: google.cloud.vision_v1.types.GcsDestination

batch_size
The number of responses to groupe together into the file. This field will be empty if the output field is set.

Type: int

class google.cloud.vision_v1.types.GcsSource(uri=, **kwargs) [source]

Bases: proto.message.Message

Google Cloud Storage location.

uri
Google Cloud Storage URI.

Type: str

class google.cloud.vision_v1.types.GcsDestination(uri=, **kwargs) [source]

Bases: proto.message.Message

Google Cloud Storage output location.

uri
Google Cloud Storage URI prefix.

Type: str

class google.cloud.vision_v1.types.AnnotateFileRequest(proto=None, *, input_config=, features=, pages=, **kwargs) [source]

Bases: proto.message.Message

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

input_config
Required. Information about the input file.

Type: google.cloud.vision_v1.types.InputConfig

features
Required. Requested features.

Type: Sequence[google.cloud.vision_v1.types.Feature]

image_context
Additional context that may accompany the image.

Type: google.cloud.vision_v1.types.ImageContext

pages
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 in any sequence. Page 7 means the final page. Page 2 means the second page. Page 1 means the first page. Page 2 means the second to the last page.

If the file is GIF instead of PDF or TIFF or PDF/TIFF, if the file is beyond 5 frames, the service analyzes the initial consecutive frames up to the first 5 pages of the file.

Type: Sequence[int]

class google.cloud.vision_v1.types.AnnotateFileResponse(proto=None, *, input_config=, responses=, total_pages=0, error=, **kwargs) [source]

Bases: proto.message.Message

A list of file annotation responses.

input_config
Information about the file for which this response is generated.

Type: google.cloud.vision_v1.types.InputConfig

responses
Individual responses to images found within the file. This field will be empty if the error field is set.

Type: Sequence[google.cloud.vision_v1.types.AnnotateImageResponse]

total_pages
This field gives the total number of pages in the file.

Type: int

error
If set, represents the error message for the failed request. The responses field will not be set in this case.

Type: google.rpc.status_pb2.Status

class google.cloud.vision_v1.types.AnnotateImageRequest(proto=None, *, image=, features=False, image_context=, **kwargs) [source]

Bases: proto.message.Message

Request to annotate an image.

image
The image to be processed.

Type: google.cloud.vision_v1.types.Image

features
Requested features.

Type: Sequence[google.cloud.vision_v1.types.Feature]

image_context
Additional context that may accompany the image.

Type: google.cloud.vision_v1.types.ImageContext

class google.cloud.vision_v1.types.AnnotateImageResponse(proto=None, *, error=, face_annotations=False, landmark_annotations=False, logo_annotations=False, label_annotations=False, text_annotations=False, full_text_annotation=, safe_search_annotation=, image_properties_annotation=, crop_hints_annotation=False, web_annotation=, product_search_results=, error=, context=False, **kwargs) [source]

Bases: proto.message.Message

Response to an image annotation request.

face_annotations
If present, face detection has completed successfully.

Type: Sequence[google.cloud.vision_v1.types.FaceAnnotation]

landmark_annotations
If present, landmark detection has completed successfully.

Type: Sequence[google.cloud.vision_v1.types.EntityAnnotation]

logo_annotations
If present, logo detection has completed successfully.

Type: Sequence[google.cloud.vision_v1.types.EntityAnnotation]

label_annotations
If present, label detection has completed successfully.

Type: Sequence[google.cloud.vision_v1.types.EntityAnnotation]

localized_object_annotations
If present, localized object detection has completed successfully. This will be sorted descending by confidence score.

Type: Sequence[google.cloud.vision_v1.types.LocalizedObjectAnnotation]

text_annotations
If present, text (OCR) detection has completed successfully.

Type: Sequence[google.cloud.vision_v1.types.EntityAnnotation]

full_text_annotation
If present, text (OCR) detection or document (OCR) text detection has completed successfully. This annotation provides the structural hierarchy for the OCR detected text.

Type: google.cloud.vision_v1.types.TextAnnotation

safe_search_annotation
If present, safe-search annotation has completed successfully.

Type: google.cloud.vision_v1.types.SafeSearchAnnotation

image_properties_annotation
If present, image properties were extracted successfully.

Type: google.cloud.vision_v1.types.ImageProperties

crop_hints_annotation
If present, crop hints have completed successfully.

Type: Sequence[google.cloud.vision_v1.types.CropHintsAnnotation]

web_annotation
If present, web detection has completed successfully.

Type: google.cloud.vision_v1.types.WebAnnotation

product_search_results
If present, product search has completed successfully.

Type: google.cloud.vision_v1.types.ProductSearchResults

error
If set, represents the error message for the operation. Note that filled-in image annotations are guaranteed to be correct, even when other error is set.

Type: google.rpc.status_pb2.Status

context
If present, contextual information is needed to understand where this image comes from.

Type: google.cloud.vision_v1.types.ImageAnnotationContext

class google.cloud.vision_v1.types.AsyncAnnotateFileRequest(proto=None, *, input_config=, features=False, output_config=, **kwargs) [source]

Bases: proto.message.Message

An offline file annotation request.

input_config
Required. Information about the input file.

Type: google.cloud.vision_v1.types.InputConfig

features
Required. Requested features.

Type: Sequence[google.cloud.vision_v1.types.Feature]

image_context
Additional context that may accompany the image(s) in the file.

Type: google.cloud.vision_v1.types.ImageContext

output_config
Required. The desired output location and metadata (e.g. format).

Type: google.cloud.vision_v1.types.OutputConfig

class google.cloud.vision_v1.types.AsyncAnnotateFileResponse(proto=None, *, output_config=, **kwargs) [source]

Bases: proto.message.Message

The response for a single offline file annotation request.

output_config
The output location and metadata from AsyncAnnotateFileRequest.

Type: google.cloud.vision_v1.types.OutputConfig

class google.cloud.vision_v1.types.AsyncBatchAnnotateImagesRequest(proto=None, *, requests=False, output_config=, **kwargs) [source]

Bases: proto.message.Message

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

requests
Required. Individual async file annotation requests for this batch.

Type: Sequence[google.cloud.vision_v1.types.OperationRequest]

output_config
Required. The desired output location and metadata (e.g. format).

Type: google.cloud.vision_v1.types.OutputConfig

parent
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 locations: us. (All country-only calls default to US. Asia East are asia1, the Japan, Taiwan, etc. The European Union.

Example: projects/project-id/locations/eu.

Type: str

class google.cloud.vision_v1.types.AsyncBatchAnnotateImagesResponse(proto=None, *, responses=False, output_config=, **kwargs) [source]

Bases: proto.message.Message

Response to an async batch file annotation request.

responses
A list of file annotation responses, one for each request in AsyncBatchAnnotateImagesRequest.

Type: Sequence[google.cloud.vision_v1.types.AsyncAnnotateFileResponse]

output_config
The output location and metadata from AsyncBatchAnnotateImagesRequest.

Type: google.cloud.vision_v1.types.OutputConfig

class google.cloud.vision_v1.types.AsyncBatchAnnotateImagesOperationMetadata(proto=None, *, submitted_time=, **kwargs) [source]

Bases: proto.message.Message

Request for async image annotation requests.

submitted_time
Required. The time the request was submitted.

Type: google.protobuf.timestamp_pb2.Timestamp

state
Current status of the batch.

Type: google.cloud.vision_v1.types.State

class google.cloud.vision_v1.types.OperationRequest(proto=None, *, input_config=, features=False, image_context=, output_config=, **kwargs) [source]

Bases: proto.message.Message

A request of an individual file annotation request.

input_config
Required. The input file.

Type: google.cloud.vision_v1.types.InputConfig

features
Required. Requested features.

Type: Sequence[google.cloud.vision_v1.types.Feature]

image_context
Additional context that may accompany the image(s) in the file.

Type: google.cloud.vision_v1.types.ImageContext

output_config
Required. The desired output location and metadata (e.g. format).

Type: google.cloud.vision_v1.types.OutputConfig

class google.cloud.vision_v1.types.AsyncBatchAnnotateFilesRequest(proto=None, *, requests=False, parent=, **kwargs) [source]

Bases: proto.message.Message

A request of multiple file annotation requests.

requests
Required. Individual async file annotation requests for this batch.

Type: Sequence[google.cloud.vision_v1.types.AsyncAnnotateFileRequest]

parent
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 locations: us. (All country-only calls default to US. Asia East are asia1, the Japan, Taiwan, etc. The European Union.

Example: projects/project-id/locations/eu.

Type: str

class google.cloud.vision_v1.types.AsyncBatchAnnotateFilesResponse(proto=None, *, responses=False, **kwargs) [source]

Bases: proto.message.Message

A list of file annotation responses.

responses
Multiple file annotation responses.

Type: Sequence[google.cloud.vision_v1.types.AsyncAnnotateFileResponse]

class google.cloud.vision_v1.types.BatchOperationRequest(proto=None, *, requests=False, parent=, **kwargs) [source]

Bases: proto.message.Message

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

requests
Required. Individual image annotation requests for this batch.

Type: Sequence[google.cloud.vision_v1.types.AnnotateImageRequest]

parent
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 locations: us. (All country-only calls default to US. Asia East are asia1, the Japan, Taiwan, etc. The European Union.

Example: projects/project-id/locations/eu.

Type: str

class google.cloud.vision_v1.types.BatchOperationResponse(proto=None, *, responses=False, **kwargs) [source]

Bases: proto.message.Message

Response to a batch image annotation request.

responses
A list of image annotation responses.

Type: Sequence[google.cloud.vision_v1.types.AnnotateImageResponse]

class google.cloud.vision_v1.types.ColorInfo(proto=None, *, color=, score=0.0, pixel_fraction=0.0, **kwargs) [source]

Bases: proto.message.Message

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

color
RGB components of the color.

Type: google.type.color_pb2.Color

score
Image specific score for this color. Value in range [0, 1].

Type: float

pixel_fraction
The fraction of pixels the color occupies in the image. Value in range [0, 1].

Type: float

class google.cloud.vision_v1.types.DominantColorsAnnotation(proto=None, *, colors=False, **kwargs) [source]

Bases: proto.message.Message

If an OCR error was detected, this message contains information about the error.

colors
RGB color values with their score and pixel fraction.

Type: Sequence[google.cloud.vision_v1.types.ColorInfo]

class google.cloud.vision_v1.types.EntityAnnotation(proto=None, *, mid=, locale=, description=, score=0.0, confidence=0.0, topicality=0.0, bounding_poly=, locations=False, properties=False, **kwargs) [source]

Bases: proto.message.Message

Set of detected entity features.

mid
Opaque entity ID. Some IDs may be available in Google Knowledge Graph Search API.

Type: str

locale
The language code for the locale in which the entity textual description is expressed.

Type: str

description
Entity textual description, expressed in its locale language.

Type: str

score
Overall score of the result. Range [0, 1].

Type: float

confidence
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].

Type: float

topicality
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 entity "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].

Type: float

bounding_poly
Bounding box to identify this entity localizaq. Not produced for LABEL_DETECTION features.

Type: google.cloud.vision_v1.types.BoundingPoly

locations
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.

Type: Sequence[google.cloud.vision_v1.types.LocationInfo]

properties
Some entities may have optional user-supplied Property (name/value) fields, such a score or string that qualifies the entity.

Type: Sequence[google.cloud.vision_v1.types.Property]

class google.cloud.vision_v1.types.FaceAnnotation(proto=None, *, bounding_poly=, fd_bounding_poly=, landmarks=False, roll_angle=0.0, pan_angle=0.0, tilt_angle=0.0, detection_confidence=0.0, landmarking_confidence=0.0, joy_likelihood=, sorrow_likelihood=, anger_likelihood=, surprise_likelihood=, under_exposed_likelihood=, blurred_likelihood=, headwear_likelihood=, **kwargs) [source]

Bases: proto.message.Message

A face annotation object contains the results of face detection.

bounding_poly
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: the bounding box may be asymmetric and/or have negative coordinates.

BoundingPoly may also contain vertices beyond the corresponding image dimensions if a portion of the face is cut off.

Type: google.cloud.vision_v1.types.BoundingPoly

fd_bounding_poly
The BoundingPoly bounding polygon tighter than the BoundingPoly, and near a pixel level segmentation of the face, suitable for filtering out certain pixels from any image analysis that depends on the "amount of skin" visible in an image. It is not based on the landmarker results, only on the initial face detection, hence of lower detection quality.

Type: google.cloud.vision_v1.types.BoundingPoly

landmarks
Detected face landmarks.

Type: Sequence[google.cloud.vision_v1.types.FaceAnnotation.Landmark]

roll_angle
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].

Type: float

pan_angle
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].

Type: float

tilt_angle
Pitch angle, which indicates the upward/downward angle that the face is pointing relative to the image vertical plane perpendicular to the image. Range [-180,180].

Type: float

detection_confidence
Detection confidence. Range [0, 1].

Type: float

landmarking_confidence
Face landmarking confidence. Range [0, 1].

Type: float

joy_likelihood
Likelihood of joy.

Type: google.cloud.vision_v1.types.Likelihood

sorrow_likelihood
Likelihood of sorrow.

Type: google.cloud.vision_v1.types.Likelihood

anger_likelihood
Likelihood of anger.

Type: google.cloud.vision_v1.types.Likelihood

surprise_likelihood
Likelihood of surprise.

Type: google.cloud.vision_v1.types.Likelihood

under_exposed_likelihood
Likelihood of under-exposed.

Type: google.cloud.vision_v1.types.Likelihood

blurred_likelihood
Likelihood of blurred.

Type: google.cloud.vision_v1.types.Likelihood

headwear_likelihood
Likelihood of headwear.

Type: google.cloud.vision_v1.types.Likelihood

class google.cloud.vision_v1.types.Landmark(type=, position=, **kwargs)

A face-specific landmark.

type
Face landmark type.

Type: google.cloud.vision_v1.types.FaceAnnotation.Landmark.Type

position
Face landmark position.

Type: google.cloud.vision_v1.types.Position

class google.cloud.vision_v1.types.LocationInfo(proto=None, *, latlng=, **kwargs) [source]

Bases: proto.message.Message

Detected entity location information.

latlng
lat/long location coordinates.

Type: google.type.latlng_pb2.LatLng

class google.cloud.vision_v1.types.Property(proto=None, *, name=, value=, uint64_value=0, **kwargs) [source]

Bases: proto.message.Message

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

name
Name of the property.

Type: str

value
Value of the property.

Type: str

uint64_value
Value of numeric properties.

Type: int

class google.cloud.vision_v1.types.LocalizedObjectAnnotation(proto=None, *, mid=, language=, name=, score=0.0, bounding_poly=, **kwargs) [source]

Bases: proto.message.Message

Set of detected objects with bounding boxes.

mid
Object ID. Some IDs may be available in Google Knowledge Graph Search API.

Type: str

language
The language code for the locale in which the entity textual description is expressed.

Type: str

name
Object name.

Type: str

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

Type: float

bounding_poly
Bounding box.

Type: google.cloud.vision_v1.types.BoundingPoly

class google.cloud.vision_v1.types.SafeSearchAnnotation(proto=None, *, adult=, spoof=, medical=, violence=, racy=, **kwargs) [source]

Bases: proto.message.Message

Set of detected safe-search features.

adult
Adult content.

Type: google.cloud.vision_v1.types.Likelihood

spoof
Spoof likelihood.

Type: google.cloud.vision_v1.types.Likelihood

medical
Medical content.

Type: google.cloud.vision_v1.types.Likelihood

violence
Violence likelihood.

Type: google.cloud.vision_v1.types.Likelihood

racy
Racy content.

Type: google.cloud.vision_v1.types.Likelihood

class google.cloud.vision_v1.types.LatLongRect(proto=None, *, minimum_latitude=0.0, maximum_latitude=0.0, minimum_longitude=0.0, maximum_longitude=0.0, **kwargs) [source]

Bases: proto.message.Message

Rectangle determined by min and max LatLng pairs.

minimum_latitude
Lower latitude.

Type: float

maximum_latitude
Upper latitude.

Type: float

minimum_longitude
Lower longitude.

Type: float

maximum_longitude
Upper longitude.

Type: float

class google.cloud.vision_v1.types.Likelihood(value) [source]

Bases: enum.Enum

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

UNKNOWN
Unknown likelihood.

VERY_UNLIKELY
It is very unlikely that the image belongs to the specified vertical.

UNLIKELY
It is unlikely that the image belongs to the specified vertical.

POSSIBLE
It is possible that the image belongs to the specified vertical.

LIKELY
It is likely that the image belongs to the specified vertical.

VERY_LIKELY
It is very likely that the image belongs to the specified vertical.

class google.cloud.vision_v1.types.WebDetection(proto=None, *, web_entities=False, full_matching_images=False, partial_matching_images=False, pages_with_matching_images=False, visually_similar_images=False, best_guess_labels=False, **kwargs) [source]

Bases: proto.message.Message

Relevant information for the image from the Internet.

web_entities
Deduced entities from similar images on the Internet.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebEntity]

full_matching_images
Fully matching images on the Internet.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

partial_matching_images
Partially matching images on the Internet.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

pages_with_matching_images
Web pages containing the matching images.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebPage]

visually_similar_images
The visually similar image results.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

best_guess_labels
Best guess text labels for the request image.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebLabel]

class google.cloud.vision_v1.types.WebEntity(proto=None, *, entity_id=, description=, score=0.0, **kwargs)

Bases: proto.message.Message

Entity deduced from similar images on the Internet.

entity_id
Opaque entity ID.

Type: str

description
Canonical description, expressed in the Google language.

Type: str

score
Overall score of the result. Range [0,].

Type: float

class google.cloud.vision_v1.types.WebImage(proto=None, *, url=, score=0.0, **kwargs)

Bases: proto.message.Message

Image.

url
The URL of the image.

Type: str

score
Overall score of the result. Range [0,].

Type: float

class google.cloud.vision_v1.types.WebPage(proto=None, *, url=, score=0.0, page_title=, full_matching_images=False, partial_matching_images=False, **kwargs)

Bases: proto.message.Message

Web page.

url
The URL for the page.

Type: str

score
Overall score of the result. Range [0,].

Type: float

page_title
Title for the page, if any.

Type: str

full_matching_images
Fully matching images on the page.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

partial_matching_images
Partially matching images on the page.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

class google.cloud.vision_v1.types.WebLabel(proto=None, *, label=, language=, **kwargs)

Bases: proto.message.Message

Label to be attached to a web detection.

label
Label for the web.

Type: str

language
Code for the language.

Type: str

class google.cloud.vision_v1.types.SuggestedCrop(proto=None, *, bounding_poly=, confidence=0.0, importance_fraction=0.0, **kwargs) [source]

Bases: proto.message.Message

Suggestion to use a certain area of the image as a crop hint.

bounding_poly
Bounding polygon around the suggested crop.

Type: google.cloud.vision_v1.types.BoundingPoly

confidence
Confidence of this being a suggested crop. Range [0, 1].

Type: float

importance_fraction
Fraction of importance of this salient region with respect to the original image.

Type: float

class google.cloud.vision_v1.types.CropHintsAnnotation(proto=None, *, crop_hints=False, **kwargs) [source]

Bases: proto.message.Message

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

crop_hints
Crop hint results.

Type: Sequence[google.cloud.vision_v1.types.CropHint]

class google.cloud.vision_v1.types.CropHintsParams(proto=None, *, aspect_ratios=False, **kwargs) [source]

Bases: proto.message.Message

Parameters for crop hints annotation request.

aspect_ratios
Aspect ratio or 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 values exceeding the maximum are ignored after the 16th are ignored.

Type: Sequence[float]

class google.cloud.vision_v1.types.DominantColorsParams(proto=None, *, **kwargs) [source]

Bases: proto.message.Message

Parameters for dominant colors annotation request.

class google.cloud.vision_v1.types.FaceRecognitionParams(proto=None, *, celebrity_recognition_model=, **kwargs) [source]

Bases: proto.message.Message

Parameters for face recognition.

celebrity_recognition_model
Celebrity recognition model to use.

Type: google.cloud.vision_v1.types.CelebrityRecognitionModel

class google.cloud.vision_v1.types.ImageProperties(proto=None, *, dominant_colors=, **kwargs) [source]

Bases: proto.message.Message

Image properties annotation.

dominant_colors
If present, dominant colors completed successfully.

Type: google.cloud.vision_v1.types.DominantColorsAnnotation

class google.cloud.vision_v1.types.ImageQuality(proto=False, *, dominant_color=False, brightness=False, sharpness=False, **kwargs)

Bases: proto.message.Message

Image quality annotation.

dominant_color
Dominant color.

Type: bool

brightness
Brightness.

Type: bool

sharpness
Sharpness.

Type: bool

class google.cloud.vision_v1.types.ImageProperties(proto=False, *, dominant_colors=False, **kwargs)

Bases: proto.message.Message

Image properties annotation.

dominant_colors
Dominant colors.

Type: bool

class google.cloud.vision_v1.types.CropHint(proto=False, *, bounding_poly=, confidence=0.0, importance_fraction=0.0, **kwargs) [source]

Bases: proto.message.Message

Single crop hint.

bounding_poly
Bounding polygon.

Type: google.cloud.vision_v1.types.BoundingPoly

confidence
Confidence.

Type: float

importance_fraction
Fraction of importance.

Type: float

class google.cloud.vision_v1.types.WebDetectionParams(proto=False, *, include_geo_results=False, **kwargs) [source]

Bases: proto.message.Message

Parameters for web detection.

include_geo_results
Whether to provide geo results.

Type: bool

class google.cloud.vision_v1.types.TextDetectionParams(proto=False, *, enable_text_detection_confidence_score=False, advanced_ocr_options=False, **kwargs)

Bases: proto.message.Message

Parameters for text detection.

enable_text_detection_confidence_score
Enables text_detection_confidence_score.

Type: bool

advanced_ocr_options
A list of advanced OCR options to fine tune OCR results.

Type: Sequence[str]

class google.cloud.vision_v1.types.ImageContext(proto=False, *, lat_long_rect=, language_hints=False, crop_hints_params=, product_search_params=, web_detection_params=, text_detection_params=, **kwargs) [source]

Bases: proto.message.Message

Image context and/or feature-specific parameters.

lat_long_rect
Not used.

Type: google.cloud.vision_v1.types.LatLongRect

language_hints
List of languages to use for TEXT_DETECTION. In the event that the user has to be confident about the detected language, publish the language used for these text annotations.

Type: Sequence[str]

crop_hints_params
Parameters for crop hints annotation request.

Type: google.cloud.vision_v1.types.CropHintsParams

product_search_params
Parameters for product search.

Type: google.cloud.vision_v1.types.ProductSearchParams

web_detection_params
Parameters for web detection.

Type: google.cloud.vision_v1.types.WebDetectionParams

text_detection_params
Parameters for text detection.

Type: google.cloud.vision_v1.types.TextDetectionParams

class google.cloud.vision_v1.types.ProductSearchResults(proto=False, *, time=False, index_info=False, results=False, product_grouped_results=False, **kwargs) [source]

Bases: proto.message.Message

Product search results.

time
Time spent on the request.

Type: bool

index_info
Indexing information.

Type: bool

results
Ordered search results.

Type: bool

product_grouped_results
Product grouped results.

Type: bool

class google.cloud.vision_v1.types.ProductSearchParams(proto=False, *, bounding_poly=, product_set=, product_categories=False, filter=, **kwargs) [source]

Bases: proto.message.Message

Parameters for product search.

bounding_poly
Bounding polygon around the area of interest in the image. If it is left empty, system will attempt to detect the dominant fashion item.

Type: google.cloud.vision_v1.types.BoundingPoly

product_set
The Product Set in which the product is to be searched for. Format: projects/project-id/locations/location-id/productSets/productset-id.

Type: str

product_categories
The product categories to search in.

Type: Sequence[str]

filter
The Product Search filter.

Type: str

class google.cloud.vision_v1.types.ProductSearchResults.Result(proto=False, *, product=, score=0.0, image=, **kwargs)

Bases: proto.message.Message

Result.

product
Product.

Type: google.cloud.vision_v1.types.Product

score
Score.

Type: float

image
Image.

Type: str

class google.cloud.vision_v1.types.ProductSearchResults.GroupedResult(proto=False, *, bounding_poly=, results=False, **kwargs)

Bases: proto.message.Message

Group of results.

bounding_poly
Bounding poly.

Type: google.cloud.vision_v1.types.BoundingPoly

results
Results.

Type: Sequence[google.cloud.vision_v1.types.ProductSearchResults.Result]

class google.cloud.vision_v1.types.Product(proto=False, *, name=, display_name=, description=, product_category=, product_labels=False, **kwargs) [source]

Bases: proto.message.Message

A Product contains ReferenceImages.

name
The resource name of the product.

Type: str

display_name
The user-provided name for this Product.

Type: str

description
User-provided metadata to be stored with this product.

Type: str

product_category
Immutable. The product category.

Type: str

product_labels
Key-value pairs that can be attached to a product.

Type: Sequence[google.cloud.vision_v1.types.KeyValue]

class google.cloud.vision_v1.types.KeyValue(proto=False, *, key=, value=, **kwargs)

Bases: proto.message.Message

Key-value pair.

key
Key.

Type: str

value
Value.

Type: str

class google.cloud.vision_v1.types.ProductSet(proto=False, *, name=, display_name=, index_time=, index_error=, **kwargs) [source]

Bases: proto.message.Message

A ProductSet contains Products.

name
The resource name of the ProductSet.

Type: str

display_name
The user-provided name for this ProductSet.

Type: str

index_time
Output only. Indexing timestamp.

Type: google.protobuf.timestamp_pb2.Timestamp

index_error
Output only. Any errors encountered during asynchronous indexing.

Type: google.rpc.status_pb2.Status

class google.cloud.vision_v1.types.ProductSetPurgeConfig(proto=False, *, product_set_purge_ttl=, **kwargs)

Bases: proto.message.Message

Output only. Any errors encountered during asynchronous indexing.

product_set_purge_ttl
Output only. Any errors encountered during asynchronous indexing.

Type: google.protobuf.timestamp_pb2.Timestamp

class google.cloud.vision_v1.types.ReferenceImage(proto=False, *, name=, uri=, bounding_poly=False, **kwargs) [source]

Bases: proto.message.Message

A ReferenceImage.

name
The resource name of the ReferenceImage.

Type: str

uri
The Google Cloud Storage URI of the ReferenceImage.

Type: str

bounding_poly
Bounding polygon around the area of interest in the image. If it is left empty, system will attempt to detect the dominant fashion item.

Type: Sequence[google.cloud.vision_v1.types.BoundingPoly]

class google.cloud.vision_v1.types.GroupedResult(proto=False, *, bounding_poly=, results=False, **kwargs)

Bases: proto.message.Message

Group of results.

bounding_poly
Bounding poly.

Type: google.cloud.vision_v1.types.BoundingPoly

results
Results.

Type: Sequence[google.cloud.vision_v1.types.ProductSearchResults.Result]

class google.cloud.vision_v1.types.Product(proto=False, *, name=, display_name=, description=, product_category=, product_labels=False, **kwargs) [source]

Bases: proto.message.Message

A Product contains ReferenceImages.

name
The resource name of the product.

Type: str

display_name
The user-provided name for this Product.

Type: str

description
User-provided metadata to be stored with this product.

Type: str

product_category
Immutable. The product category.

Type: str

product_labels
Key-value pairs that can be attached to a product.

Type: Sequence[google.cloud.vision_v1.types.KeyValue]

class google.cloud.vision_v1.types.KeyValue(proto=False, *, key=, value=, **kwargs)

Bases: proto.message.Message

Key-value pair.

key
Key.

Type: str

value
Value.

Type: str

class google.cloud.vision_v1.types.ProductSet(proto=False, *, name=, display_name=, index_time=, index_error=, **kwargs) [source]

Bases: proto.message.Message

A ProductSet contains Products.

name
The resource name of the ProductSet.

Type: str

display_name
The user-provided name for this ProductSet.

Type: str

index_time
Output only. Indexing timestamp.

Type: google.protobuf.timestamp_pb2.Timestamp

index_error
Output only. Any errors encountered during asynchronous indexing.

Type: google.rpc.status_pb2.Status

class google.cloud.vision_v1.types.ProductSetPurgeConfig(proto=False, *, product_set_purge_ttl=, **kwargs)

Bases: proto.message.Message

Output only. Any errors encountered during asynchronous indexing.

product_set_purge_ttl
Output only. Any errors encountered during asynchronous indexing.

Type: google.protobuf.timestamp_pb2.Timestamp

class google.cloud.vision_v1.types.ReferenceImage(proto=False, *, name=, uri=, bounding_poly=False, **kwargs) [source]

Bases: proto.message.Message

A ReferenceImage.

name
The resource name of the ReferenceImage.

Type: str

uri
The Google Cloud Storage URI of the ReferenceImage.

Type: str

bounding_poly
Bounding polygon around the area of interest in the image. If it is left empty, system will attempt to detect the dominant fashion item.

Type: Sequence[google.cloud.vision_v1.types.BoundingPoly]

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

LOW = 1 -

MEDIUM = 2 -

HIGH = 3 -

VERY_HIGH = 4 -

EXTREME = 5 -

UNSPECIFIED = 0 -

VERY_LOW = 6 -

class google.cloud.vision_v1.types.**ProductSearchResults**(keyword=None, **kwargs), proto.utils.type.type.Message, [source]

Results given to a search request.

Fields:

time_elapsed

The time elapsed between when the request was received in the image. If it is not spent from backend, duration will be applied.

Type: google.cloud.vision_v1.types.BoundingPoly

product_ids

The resource name of a ProductSet/product visual search in ProductSet to be searched for similar images.

Format is projects/PROJECT_ID/locations/LOC_ID/productSets/PRODUCT_SET_ID.

results

The results of the image classification. Ordinarily only contains the first category and other "homogeneous" "appeal" "layout" "appearance" "quality" "similarity" "similar" "similarity" "similarity" "similarity" "appearance" "appeal" and "layout" are still supported but will be deprecated. For now prod-ucts. Product. Product. Product

```
google.cloud.vision.v1.types.ProductSearchResults(proto.Message, [source]
    Results given to a similar product search request.
    Fields
        product_grouped_results (MutableSequence[google.cloud.vision.v1.types.ProductSearchResults.GroupedResult])
            Timestamp of the most recent product indexed. Output only.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            The results of a product search request. Consists of a list of bounding polygons and a list of products with scores that match the objects in the bounding polygons.
        results (MutableSequence[google.cloud.vision.v1.types.ProductSearchResults.Result])
            Timestamp of the most recent product indexed. Output only.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            The results of a product search request. Consists of a list of bounding polygons and a list of products with scores that match the objects in the bounding polygons.
        results (MutableSequence[google.cloud.vision.v1.types.ProductSearchResults.Result])

class ProductSearchResults.GroupedResult(proto.Message, [source]
    Prediction for what product categories an image belongs to.
    Fields
        object_annotations (MutableSequence[google.cloud.vision.v1.types.ProductSearchResults.ObjectAnnotation])
            Prediction for what product categories an image belongs to.
        object_annotations (MutableSequence[google.cloud.vision.v1.types.ProductSearchResults.ObjectAnnotation])

class ProductSearchResults.ObjectAnnotation(proto.Message, [source]
    Prediction for what product categories an image belongs to.
    Fields
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)
            Prediction for what product categories an image belongs to.
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)

class ProductSearchResults.Result(proto.Message, [source]
    Prediction for what product categories an image belongs to.
    Fields
        product (google.cloud.vision.v1.types.Product)
            Prediction for what product categories an image belongs to.
        product (google.cloud.vision.v1.types.Product)
            Prediction for what product categories an image belongs to.
        score (float)
            Prediction for what product categories an image belongs to.
        score (float)
            Prediction for what product categories an image belongs to.
        image (str)
            Prediction for what product categories an image belongs to.
        image (str)
            Prediction for what product categories an image belongs to.

class Product(proto.Message, [source]
    A product.
    Fields
        name (str)
            A product.
        name (str)
            A product.
        display_name (str)
            A product.
        display_name (str)
            A product.
        description (str)
            A product.
        description (str)
            A product.
        product_category (str)
            A product.
        product_category (str)
            A product.
        product_labels (MutableSequence[google.cloud.vision.v1.types.Product.KeyValue])
            A product.
        product_labels (MutableSequence[google.cloud.vision.v1.types.Product.KeyValue])
            A product.

class KeyValue(proto.Message, [source]
    A product-label pair, as used in the API.
    Fields
        key (str)
            A product-label pair, as used in the API.
        key (str)
            A product-label pair, as used in the API.
        value (str)
            A product-label pair, as used in the API.
        value (str)
            A product-label pair, as used in the API.

google.cloud.vision.v1.types.ProductSet(proto.Message, [source]
    Fields
        name (str)
            A product set.
        name (str)
            A product set.
        display_name (str)
            A product set.
        display_name (str)
            A product set.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            A product set.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            A product set.
        indexing_error (google.rpc.status_pb2.Status)
            A product set.
        indexing_error (google.rpc.status_pb2.Status)
            A product set.

google.cloud.vision.v1.types.ProductSearch(proto.Message, [source]
    Fields
        product_sets (MutableSequence[google.cloud.vision.v1.types.ProductSet])
            Products and product sets in an image.
        product_sets (MutableSequence[google.cloud.vision.v1.types.ProductSet])
            Products and product sets in an image.
        product_bundled (MutableSequence[google.cloud.vision.v1.types.Product])
            Products and product sets in an image.
        product_bundled (MutableSequence[google.cloud.vision.v1.types.Product])
            Products and product sets in an image.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            Products and product sets in an image.
        index_time (google.protobuf.timestamp_pb2.Timestamp)
            Products and product sets in an image.
        indexing_error (google.rpc.status_pb2.Status)
            Products and product sets in an image.
        indexing_error (google.rpc.status_pb2.Status)
            Products and product sets in an image.

google.cloud.vision.v1.types.ProductSearchParams(proto.Message, [source]
    Parameters for a product search request.
    Fields
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        product_set (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        product_set (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        product_category (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        product_category (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        filter (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.
        filter (str)
            The bounding polygon around the area of interest in the image. If it is left empty, the entire image is used for product search.

google.cloud.vision.v1.types.ReferenceImage(proto.Message, [source]
    A Google Cloud Vision API product search reference image.
    An product search reference image is a rectangle, represented by two diagonal points, intended to frame the area containing the product in question. Product search ignores everything outside the rectangle.
    Fields
        name (str)
            A Google Cloud Vision API product search reference image.
        name (str)
            A Google Cloud Vision API product search reference image.
        uri (str)
            A Google Cloud Vision API product search reference image.
        uri (str)
            A Google Cloud Vision API product search reference image.
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)
            A Google Cloud Vision API product search reference image.
        bounding_poly (google.cloud.vision.v1.types.BoundingPoly)
            A Google Cloud Vision API product search reference image.

google.cloud.vision.v1.types.RemoveProductFromProductSetRequest(proto.Message, [source]
    Request for the RemoveProductFromProductSet method.
    Fields
        name (str)
            Request for the RemoveProductFromProductSet method.
        name (str)
            Request for the RemoveProductFromProductSet method.
        product (str)
            Request for the RemoveProductFromProductSet method.
        product (str)
            Request for the RemoveProductFromProductSet method.

google.cloud.vision.v1.types.UpdateProductSetRequest(proto.Message, [source]
    Request message for the UpdateProductSet method.
    Fields
        product_set (google.cloud.vision.v1.types.ProductSet)
            Request message for the UpdateProductSet method.
        product_set (google.cloud.vision.v1.types.ProductSet)
            Request message for the UpdateProductSet method.
        update_mask (google.protobuf.field_mask_pb2.FieldMask)
            Request message for the UpdateProductSet method.
        update_mask (google.protobuf.field_mask_pb2.FieldMask)
            Request message for the UpdateProductSet method.

google.cloud.vision.v1.types.Word(proto.Message, [source]
    A word representation.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A word representation.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A word representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A word representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A word representation.
        symbols (MutableSequence[google.cloud.vision.v1.types.Symbol])
            A word representation.
        symbols (MutableSequence[google.cloud.vision.v1.types.Symbol])
            A word representation.
        confidence (float)
            A word representation.
        confidence (float)
            A word representation.

google.cloud.vision.v1.types.WebDetection(proto.Message, [source]
    Relevant information for the image from the Internet.
    Fields
        web_entities (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebEntity])
            Relevant information for the image from the Internet.
        web_entities (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebEntity])
            Relevant information for the image from the Internet.
        full_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        full_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        partial_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        partial_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        pages_with_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebPage])
            Relevant information for the image from the Internet.
        pages_with_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebPage])
            Relevant information for the image from the Internet.
        visually_similar_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        visually_similar_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Relevant information for the image from the Internet.
        best_guess_labels (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebLabel])
            Relevant information for the image from the Internet.
        best_guess_labels (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebLabel])
            Relevant information for the image from the Internet.

class WebDetection.WebEntity(proto.Message, [source]
    Entity deduced from similar images on the Internet.
    Fields
        entity_id (str)
            Entity deduced from similar images on the Internet.
        entity_id (str)
            Entity deduced from similar images on the Internet.
        description (str)
            Entity deduced from similar images on the Internet.
        description (str)
            Entity deduced from similar images on the Internet.
        score (float)
            Entity deduced from similar images on the Internet.
        score (float)
            Entity deduced from similar images on the Internet.

class WebDetection.WebImage(proto.Message, [source]
    Image information.
    Fields
        url (str)
            Image information.
        url (str)
            Image information.
        score (float)
            Image information.
        score (float)
            Image information.

class WebDetection.WebPage(proto.Message, [source]
    Web page information.
    Fields
        url (str)
            Web page information.
        url (str)
            Web page information.
        score (float)
            Web page information.
        score (float)
            Web page information.
        page_title (str)
            Web page information.
        page_title (str)
            Web page information.
        full_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Web page information.
        full_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Web page information.
        partial_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Web page information.
        partial_matching_images (MutableSequence[google.cloud.vision.v1.types.WebDetection.WebImage])
            Web page information.

class WebDetection.WebLabel(proto.Message, [source]
    Label to be applied to a web image.
    Fields
        label_id (str)
            Label to be applied to a web image.
        label_id (str)
            Label to be applied to a web image.
        label (str)
            Label to be applied to a web image.
        label (str)
            Label to be applied to a web image.
        language_code (str)
            Label to be applied to a web image.
        language_code (str)
            Label to be applied to a web image.

google.cloud.vision.v1.types.Word(proto.Message, [source]
    A word representation.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A word representation.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A word representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A word representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A word representation.
        symbols (MutableSequence[google.cloud.vision.v1.types.Symbol])
            A word representation.
        symbols (MutableSequence[google.cloud.vision.v1.types.Symbol])
            A word representation.
        confidence (float)
            A word representation.
        confidence (float)
            A word representation.

google.cloud.vision.v1.types.Symbol(proto.Message, [source]
    A single symbol representation.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A single symbol representation.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A single symbol representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A single symbol representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A single symbol representation.
        text (str)
            A single symbol representation.
        text (str)
            A single symbol representation.
        confidence (float)
            A single symbol representation.
        confidence (float)
            A single symbol representation.

google.cloud.vision.v1.types.TextAnnotation(proto.Message, [source]
    TextAnnotation contains a structural 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 detection confidences, languages, and other miscellaneous information. Here is an example of output in TextAnnotation.TextProperty|message definition below for more detail:
    Fields
        pages (MutableSequence[google.cloud.vision.v1.types.Page])
            TextAnnotation contains a structural 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 detection confidences, languages, and other miscellaneous information. Here is an example of output in TextAnnotation.TextProperty|message definition below for more detail:
        pages (MutableSequence[google.cloud.vision.v1.types.Page])
            TextAnnotation contains a structural 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 detection confidences, languages, and other miscellaneous information. Here is an example of output in TextAnnotation.TextProperty|message definition below for more detail:
        text (str)
            TextAnnotation contains a structural 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 detection confidences, languages, and other miscellaneous information. Here is an example of output in TextAnnotation.TextProperty|message definition below for more detail:
        text (str)
            TextAnnotation contains a structural 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 detection confidences, languages, and other miscellaneous information. Here is an example of output in TextAnnotation.TextProperty|message definition below for more detail:

class TextAnnotation.TextProperty(proto.Message, [source]
    Additional information detected on the structural components.
    Fields
        detected_languages (MutableSequence[google.cloud.vision.v1.types.TextAnnotation.DetectedLanguage])
            Additional information detected on the structural components.
        detected_languages (MutableSequence[google.cloud.vision.v1.types.TextAnnotation.DetectedLanguage])
            Additional information detected on the structural components.
        detected_break (google.cloud.vision.v1.types.TextAnnotation.DetectedBreak)
            Additional information detected on the structural components.
        detected_break (google.cloud.vision.v1.types.TextAnnotation.DetectedBreak)
            Additional information detected on the structural components.

class TextAnnotation.DetectedLanguage(proto.Message, [source]
    Detected start or end of a text segment.
    Fields
        language_code (str)
            Detected start or end of a text segment.
        language_code (str)
            Detected start or end of a text segment.
        confidence (float)
            Detected start or end of a text segment.
        confidence (float)
            Detected start or end of a text segment.

class TextAnnotation.DetectedBreak(proto.Message, [source]
    Detected start or end of a text segment.
    Fields
        type_ (google.cloud.vision.v1.types.TextAnnotation.DetectedBreak.BreakType)
            Detected start or end of a text segment.
        type_ (google.cloud.vision.v1.types.TextAnnotation.DetectedBreak.BreakType)
            Detected start or end of a text segment.
        is_prefix (bool)
            Detected start or end of a text segment.
        is_prefix (bool)
            Detected start or end of a text segment.

class BreakType(enum.Enum)
    Enum to describe the type of break. New lines space etc.
    Values:
        UNKNOWN (0)
        SPACE (1)
        SURE_SPACE (2)
        EOL_SURE_SPACE (3)
        HYPHEN (4)
        LINE_BREAK (5)
        SPACE (1)
        SURE_SPACE (2)
        UNKNOWN (0)

class Page(proto.Message, [source]
    A page.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A page.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A page.
        width (int)
            A page.
        width (int)
            A page.
        height (int)
            A page.
        height (int)
            A page.
        blocks (MutableSequence[google.cloud.vision.v1.types.Block])
            A page.
        blocks (MutableSequence[google.cloud.vision.v1.types.Block])
            A page.
        confidence (float)
            A page.
        confidence (float)
            A page.

class Block(proto.Message, [source]
    A block.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A block.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A block.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A block.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A block.
        paragraphs (MutableSequence[google.cloud.vision.v1.types.Paragraph])
            A block.
        paragraphs (MutableSequence[google.cloud.vision.v1.types.Paragraph])
            A block.
        block_type (google.cloud.vision.v1.types.Block.BlockType)
            A block.
        block_type (google.cloud.vision.v1.types.Block.BlockType)
            A block.
        confidence (float)
            A block.
        confidence (float)
            A block.

class BlockType(enum.Enum)
    Type of block (text, image etc as identified by OCR.
    Values:
        UNKNOWN (0)
        TEXT (1)
        TABLE (2)
        PICTURE (3)
        RULER (4)
        BARCODE (5)
        UNKNOWN (0)
        TEXT (1)
        TABLE (2)
        PICTURE (3)
        RULER (4)
        BARCODE (5)

class Paragraph(proto.Message, [source]
    A structural unit of text.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A structural unit of text.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A structural unit of text.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A structural unit of text.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A structural unit of text.
        words (MutableSequence[google.cloud.vision.v1.types.Word])
            A structural unit of text.
        words (MutableSequence[google.cloud.vision.v1.types.Word])
            A structural unit of text.
        confidence (float)
            A structural unit of text.
        confidence (float)
            A structural unit of text.

class Symbol(proto.Message, [source]
    A single symbol representation.
    Fields
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A single symbol representation.
        property (google.cloud.vision.v1.types.TextAnnotation.TextProperty)
            A single symbol representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A single symbol representation.
        bounding_box (google.cloud.vision.v1.types.BoundingPoly)
            A single symbol representation.
        text (str)
            A single symbol representation.
        text (str)
            A single symbol representation.
        confidence (float)
            A single symbol representation.
        confidence (float)
            A single symbol representation.

google.cloud.vision.v1.types.TextDetection(proto.Message, [source]
    Text detection.
    Fields
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.

google.cloud.vision.v1.types.Text(proto.Message, [source]
    Text detection.
    Fields
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.

google.cloud.vision.v1.types.TextDetection(proto.Message, [source]
    Text detection.
    Fields
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.

google.cloud.vision.v1.types.Text(proto.Message, [source]
    Text detection.
    Fields
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        text_annotations (MutableSequence[google.cloud.vision.v1.types.EntityAnnotation])
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.
        full_text_annotation (google.cloud.vision.v1.types.TextAnnotation)
            Text detection.
```

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

best_guess_labels

The service's best guess as to the topic of the request image. Inferred from similar images on the open web.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebLabel]

class **WebEntity**(*mapping=None, *, ignore_unknown_fields=False, **kwargs*) [source]

Bases: `proto.message.Message`

Entity deduced from similar images on the Internet.

entity_id

Opaque entity ID.

Type: str

score

Overall relevancy score for the entity. Not normalized and not comparable across different image queries.

Type: float

description

Canonical description of the entity, in English.

Type: str

class **WebImage**(*mapping=None, *, ignore_unknown_fields=False, **kwargs*) [source]

Bases: `proto.message.Message`

Metadata for online images.

url

The result image URL.

Type: str

score

(Deprecated) Overall relevancy score for the image.

Type: float

class **WebLabel**(*mapping=None, *, ignore_unknown_fields=False, **kwargs*) [source]

Bases: `proto.message.Message`

Label to provide extra metadata for the web detection.

label

Label for extra metadata.

Type: str

language_code

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.

Type: str

class **WebPage**(*mapping=None, *, ignore_unknown_fields=False, **kwargs*) [source]

Bases: `proto.message.Message`

Metadata for web pages.

url

The result web page URL.

Type: str

score

(Deprecated) Overall relevancy score for the web page.

Type: float

page_title

Title for the web page, may contain HTML markups.

Type: str

full_matching_images

Fully matching images on the page. Can include resized copies of the query image.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

partial_matching_images

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.

Type: Sequence[google.cloud.vision_v1.types.WebDetection.WebImage]

Version
2.3.1 (latest)
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