```
crequire "google/cloud/vision"
# [END vision face detection tutorial imports]
# [START vision face detection tutorial process response]
require "rmagick"
# [END vision face detection tutorial process response]
def draw box around faces path to image file:, path to output file:,
                          project id:
  # [START vision face detection tutorial client]
 vision = Google::Cloud::Vision.new project: project id
  # [END vision face detection tutorial client]
  # [START vision face detection tutorial send request]
  image = vision.image path to image file
  faces = image.faces
  # [END vision face detection tutorial send request]
  # [START vision face detection tutorial process response]
  image = Magick::Image.read(path to image file).first
  faces.each do |face|
   puts "Face bounds:"
    face.bounds.face.each do |vector|
     puts "(#{vector.x}, #{vector.y})"
   end
    draw = Magick::Draw.new
    draw.stroke = "green"
    draw.stroke width 5
    draw.fill opacity 0
   x1 = face.bounds.face[0].x.to i
   y1 = face.bounds.face[0].y.to i
    x2 = face.bounds.face[2].x.to i
    y2 = face.bounds.face[2].y.to i
    draw.rectangle x1, y1, x2, y2
    draw.draw image
  end
  image.write path to output file
 puts "Output file: #{path to output file}"
  # [END vision face detection tutorial process response]
end
# [START vision face detection tutorial run application]
if FILE == $PROGRAM NAME
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project id = ENV["GOOGLE CLOUD PROJECT"]
  if ARGV.size == 2
    draw box around faces path to image file: ARGV.shift,
                          path to output file: ARGV.shift,
                          project id:
                                              project id
 else
    puts <<-usage
Usage: ruby draw box around faces.rb [input-file] [output-file]
def detect web project id:, image path:
  # [START vision web detection]
  # project id = "Your Google Cloud project ID"
  # image path = "Path to local image file, eg. './image.png'"
  require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 web = image.web
 web.entities.each do |entity|
   puts entity.description
 end
 web.full matching images.each do |image|
   puts image.url
  # [END vision web detection]
end
# This method is a duplicate of the above method, but with a different
# description of the 'image path' variable, demonstrating the gs://bucket/file
# GCS storage URI format.
def detect web gcs project id:, image path:
  # [START vision web detection gcs]
  # project id = "Your Google Cloud project ID"
  # image path = "Google Cloud Storage URI, eg. 'gs://my-bucket/image.png'"
  require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 web = image.web
 web.entities.each do |entity|
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entity.description
  end
 web.full_matching_images.each do |image|
   puts image.url
 end
  # [END vision web detection gcs]
end
if FILE == $PROGRAM NAME
  image path = ARGV.shift
 project id = ENV["GOOGLE CLOUD PROJECT"]
 if image path
    detect web image path: image path, project id: project id
 else
   puts <<-usage
Usage: ruby detect web.rb [image file path]
def detect text project id:, image path:
  # [START vision text detection]
  # project id = "Your Google Cloud project ID"
  # image path = "Path to local image file, eg. './image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 puts image.text
 # [END vision text detection]
end
# This method is a duplicate of the above method, but with a different
# description of the 'image path' variable, demonstrating the gs://bucket/file
# GCS storage URI format.
def detect text gcs project id:, image path:
  # [START vision text detection gcs]
  # project id = "Your Google Cloud project ID"
  # image path = "Google Cloud Storage URI, eg. 'gs://my-bucket/image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 puts image.text
  # [END vision text detection gcs]
```

```
end
```

```
if FILE == $PROGRAM NAME
  image path = ARGV.shift
 project id = ENV["GOOGLE CLOUD PROJECT"]
  if image path
    detect text image path: image path, project id: project id
   puts <<-usage
Usage: ruby detect text.rb [image file path]
def detect landmarks project id:, image path:
  # [START vision landmark detection]
  # project id = "Your Google Cloud project ID"
  # image path = "Path to local image file, eg. './image.png'"
  require "google/cloud/vision"
  vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
  image.landmarks.each do |landmark|
   puts landmark.description
    landmark.locations.each do |location|
     puts "#{location.latitude}, #{location.longitude}"
    end
  # [END vision landmark detection]
end
# This method is a duplicate of the above method, but with a different
# description of the 'image path' variable, demonstrating the gs://bucket/file
# GCS storage URI format.
def detect landmarks gcs project id:, image path:
  # [START vision landmark detection gcs]
  # project id = "Your Google Cloud project ID"
  # image path = "Google Cloud Storage URI, eg. 'gs://my-bucket/image.png'"
  require "google/cloud/vision"
  vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
  image.landmarks.each do |landmark|
   puts landmark.description
```

```
landmark.locations.each do |location|
     puts "#{location.latitude}, #{location.longitude}"
    end
 end
  # [END vision landmark detection gcs]
end
if FILE == $PROGRAM NAME
  image path = ARGV.shift
 project id = ENV["GOOGLE CLOUD PROJECT"]
 if image path
    detect landmarks image path: image path, project id: project id
 else
   puts <<-usage
Usage: ruby detect landmarks.rb [image file path]
def detect image properties project id:, image path:
  # [START vision image property detection]
  # project id = "Your Google Cloud project ID"
  # image path = "Path to local image file, eg. './image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
  image.properties.colors.each do |color|
   puts "Color #{color.red}, #{color.green}, #{color.blue}"
 end
  # [END vision image property detection]
end
# This method is a duplicate of the above method, but with a different
# description of the 'image path' variable, demonstrating the gs://bucket/file
# GCS storage URI format.
def detect image properties gcs project id:, image path:
  # [START vision image property detection gcs]
  # project id = "Your Google Cloud project ID"
  # image path = "Google Cloud Storage URI, eg. 'gs://my-bucket/image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
  image.properties.colors.each do |color|
    puts "Color #{color.red}, #{color.green}, #{color.blue}"
```

```
end
  # [END vision image property detection gcs]
if FILE == $PROGRAM NAME
 image path = ARGV.shift
 project id = ENV["GOOGLE CLOUD PROJECT"]
 if image path
    detect image properties image path: image path, project id: project id
    puts <<-usage
Usage: ruby detect image properties.rb [image file path]
def detect document text project id:, image path:
  # [START vision fulltext detection]
  # project id = "Your Google Cloud project ID"
  # image path = "Path to local image file, eg. './image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 document = image.document
 puts document.text
 # [END vision fulltext detection]
# This method is a duplicate of the above method, but with a different
# description of the 'image path' variable, demonstrating the gs://bucket/file
# GCS storage URI format.
def detect document text gcs project id:, image path:
  # [START vision fulltext detection gcs]
  # project id = "Your Google Cloud project ID"
  # image path = "Google Cloud Storage URI, eg. 'gs://my-bucket/image.png'"
 require "google/cloud/vision"
 vision = Google::Cloud::Vision.new project: project id
  image = vision.image image path
 document = image.document
 puts document.text
  # [END vision fulltext detection gcs]
end
```

```
if __FILE__ == $PROGRAM_NAME
  image_path = ARGV.shift
  project_id = ENV["GOOGLE_CLOUD_PROJECT"]

if image_path
    detect_document_text image_path: image_path, project_id: project_id
  else
    puts <<-usage
Usage: ruby detect_document_text.rb [image file path]
end</pre>
```