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# Image Analytics

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## Exploring Image Analytics with Public APIs- Microsoft Copilot

In this document, I explored how public APIs and web services allows to upload images and get insightful analytics.

### Image 1: Moai Statues

Passed an image of a Moai statue from an angle where the object closer to the lens appeared bigger, and as it got farther away, it appeared smaller. “What does this image depict and what is the height of the objects seen in the image? Provide details about their height and distance difference”



Analyzing the image: Privacy blur hides faces from Copilot



Sent by Copilot: The image shows a row of moai statues on Easter Island, which are monolithic human figures carved by the Rapa Nui people.

These statues are known for their oversized heads and significant cultural importance.

Regarding their height:

The average height of a moai statue is about 4 meters (13 feet)<sup>1</sup>. Some statues can reach up to 10 meters (33 feet)<sup>2</sup>. As for the distance between the statues, the image does not provide specific measurements. However, the statues are typically placed on stone platforms called ahu, which can vary in size and spacing.

Since Copilot got an idea of the image, it referred to Front-View clicked image to calculate height while it was still unable to figure the distance measurements.

## Image 2: Road Widening

Provided an image of road narrowing with distance to analyse. “describe this picture as in this the width of the road and trees are getting smaller at the center. What are your take on this?”





Sent by Coplit: The image shows a straight road lined with trees on both sides. The road has a yellow dashed line running down its center. As you mentioned, the width of the road and the trees appear to get smaller towards the center of the image. This is due to a visual effect known as **perspective**.

In perspective, parallel lines seem to converge as they recede into the distance, creating an illusion of depth and distance. This effect draws the viewer's eye into the composition, leading it towards a vanishing point on the horizon. In this image, the vanishing point is centered on a distant mountain visible between the converging lines of trees.



This technique is often used in art and photography to create a sense of depth and to guide the viewer's attention to a specific point in the image. It's a powerful way to make a two-dimensional image feel more three-dimensional and immersive. What do you think about this effect?

Source: Conversation with Copilot, 9/9/2024 (1)

<https://wanderlustcrew.com/glacier-national-park-trip-for-families>.

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## Image 3: View of Paris

Describe from where exactly is the picture taken and at what height above from the ground level is the picture taken



Sent by Copilot: The image appears to be taken from an elevated position, likely from a high point on a building. The perspective suggests that the camera is level with the upper torso of a stone gargoyle, indicating that the picture is taken from a similar height as the gargoyle's perch. Given that gargoyles are typically placed on the roofs or towers of buildings, it can be inferred that this image is taken several stories above ground level, possibly around 50 meters or more, depending on the specific building.

The image shows a panoramic view of Paris at dusk or early evening. The sky has shades of blue and purple, indicating either sunset or sunrise. In the foreground to the left, there's a prominent stone gargoyle overlooking the cityscape. The Eiffel Tower can be seen in the distance illuminated and standing out against the city lights. Below and stretching through the center of the image is a river reflecting city lights, likely to be River Seine. This view could be from Notre-Dame de Paris based on architecture and positioning relative to known landmarks like Eiffel Tower and Seine River.

This image might be interesting or relevant due to its depiction of iconic Parisian landmarks—the Eiffel Tower and what may be one of Notre-Dame’s gargoyles—capturing both historical architecture and modern city life in one frame.

Source: Conversation with Copilot, 9/9/2024 (1)

<https://www.telegraph.co.uk/finance/economics/10919629/France-and-Germany-dragging-down....>

<https://www.telegraph.co.uk/finance/economics/10919629/France-and-Germany-dragging-down-eurozone-recovery.html>. (2) <https://www.paul-parker-properties.com/en>. <https://www.paul-parker-properties.com/en/>.