EXP 36

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import numpy as np
import cv2
def add_text_to_image(image_size, text):
 height, width = image_size # Extract height and width
 # Create a white image (3D array of ones scaled to 255 for RGB)
 image = np.ones((height, width, 3), dtype=np.uint8) * 255
 # Define text properties
 font = cv2.FONT_HERSHEY_SIMPLEX
 font_scale = 1
 font_thickness = 2
 text_color = (0, 0, 255) # Red color
 text_size = cv2.getTextSize(text, font, font_scale, font_thickness)[0]

 # Calculate text position (centered)
 text_x = (width - text_size[0]) // 2
 text_y = (height + text_size[1]) // 2
 # Draw text on the image
 cv2.putText(image, text, (text_x, text_y), font, font_scale, text_color, font_thickness)
 # Display the image
 cv2.imshow("Image with Text", image)
 cv2.waitKey(0)
 cv2.destroyAllWindows()
```

```
# Example usage

user_width = int(input("Enter image width: "))

user_height = int(input("Enter image height: "))

user_text = input("Enter the text to display: ")

add_text_to_image((user_height, user_width), user_text)
```