

```
1 import streamlit as st
2 import numpy as np
3 import cv2
4 from PIL import Image
5
6 def main():
7     st.title("Image Processing with OpenCV and Streamlit")
8
9     # Upload image
10    uploaded_file = st.file_uploader("Upload Image", type=["jpg", "jpeg", "png"])
11
12    if uploaded_file is not None:
13        # Read the image
14        image = Image.open(uploaded_file)
15        st.image(image, caption='Uploaded Image',width=700)
16
17        # Convert to numpy array
18        img_array = np.array(image)
19
20        # Convert to grayscale using OpenCV
21        gray_image = cv2.cvtColor(img_array, cv2.COLOR_BGR2GRAY)
22
23        # Display grayscale image
24        st.image(gray_image, caption='Grayscale Image', width=700, channels="GRAY")
25
26    if __name__ == "__main__":
27        main()
28
29
30
31 print(cv2.__version__)
```