```
from kivy.app import App
from kivy.uix.boxlayout import BoxLayout
from kivy.uix.button import Button
from kivy.uix.textinput import TextInput
from kivy.uix.label import Label
from kivy.uix.image import Image
from skimage import io, img_as_float
import numpy as np
class ImageComparisonApp(App):
   def build(self):
        layout = BoxLayout(orientation='vertical')
        self.image1_path_input = TextInput(hint_text="Input path image 1")
        self.image2 path input = TextInput(hint text="Input path image 2")
        compare btn = Button(text='Cetak')
        compare btn.bind(on press=self.compare images)
        self.result label = Label(text="Hasil: ")
        # Widget BoxLayout untuk menampilkan gambar dalam satu baris
        image_row = BoxLayout(orientation='horizontal')
        self.image1 = Image(size=(600, 500)) # Atur ukuran gambar di sini
        image_row.add_widget(self.image1)
        # Widget Image untuk gambar 2
        self.image2 = Image(size=(600, 500)) # Atur ukuran gambar di sini
        image_row.add_widget(self.image2)
        layout.add_widget(self.image1_path_input)
        layout.add_widget(self.image2_path_input)
        layout.add_widget(compare_btn)
        layout.add_widget(self.result_label)
        layout.add_widget(image_row) # Tambahkan widget BoxLayout dengan
kedua gambar
        return layout
   def compare_images(self, instance):
        image1_path = self.image1_path_input.text
        image2_path = self.image2_path_input.text
        if not image1_path or not image2_path:
            return
```

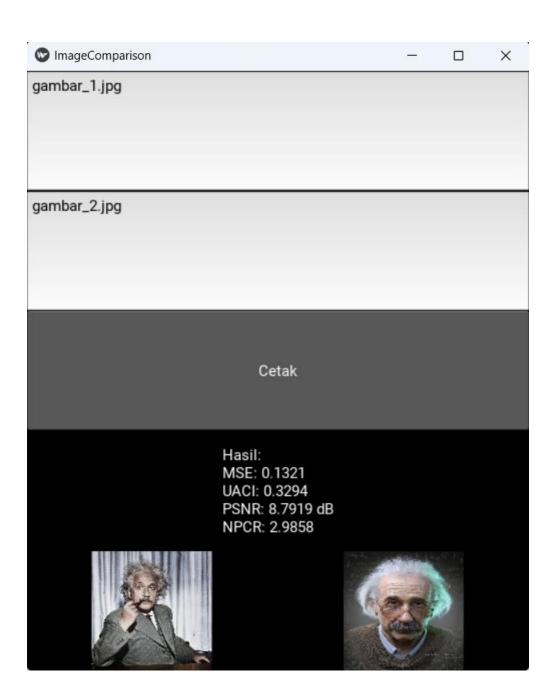
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image1 = img_as_float(io.imread(image1_path))
    image2 = img_as_float(io.imread(image2_path))

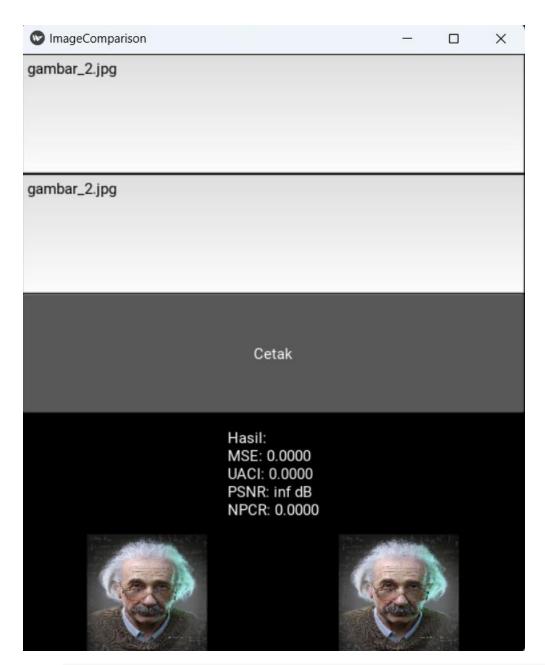
mse = np.mean((image1 - image2) ** 2)
    uaci = np.sum(np.abs(image1 - image2)) / np.sum(image1 + image2)
    psnr = -10 * np.log10(mse)
    npcr = np.sum(image1 != image2) / (image1.shape[0] * image1.shape[1])

    result_text = f"Hasil:\nMSE: {mse:.4f}\nUACI: {uaci:.4f}\nPSNR:
{psnr:.4f} dB\nNPCR: {npcr:.4f}"
    self.result_label.text = result_text

# Tampilkan kedua gambar
    self.image1.source = image1_path
    self.image2.source = image2_path

if __name__ == '__main__':
    ImageComparisonApp().run()
```





Note: Jika hasil dari perbandingan gambar menghasilkan nilai 0, itu berarti kedua gambar yang Anda bandingkan identik, yaitu gambar pertama dan gambar kedua memiliki piksel yang sama persis. Hasil MSE, UACI, PSNR, dan NPCR akan menjadi 0 dalam kasus ini karena tidak ada perbedaan antara gambar-gambar tersebut.

