Python course materials

# Image Exercise - Solution

In the folder “Working with Images” (same folder this notebook is located in) there are two images we will be working with: \* word\_matrix.png \* mask.png

The word\_matrix is a .png image that contains a spreadsheet of words with a hidden message in it.

Your task is to use the mask.png image to reveal the hidden message inside the word\_matrix.png. Keep in mind, you may need to resize the mask.png in order for this to work.

This exercise is more open-ended, so we won’t guide you with the steps, instead, letting you explore and figure things out on your own as you would in a real world situation. However, if you get stuck, you can always view the solutions video or notebook for guidance. Best of luck!

#### Import Images

from PIL import Image

words = Image.open('word\_matrix.png')

words

png

mask = Image.open("mask.png")

mask

png

### Resize Images to Match

mask.size

(505, 251)

words.size

(1015, 559)

mask = mask.resize((1015,559))

mask.size

(1015, 559)

### Add in alpha parameter

Now we can’t just paste them over, otherwise we won’t see what is underneath, we need to add an alpha value.

mask.putalpha(200)  
# links.putalpha(128)

mask

png

words.paste(mask,(0,0),mask)

words

png

Excellent! Hope you enjoyed this one!