

Laporan Pengolahan Citra Digital

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Resources

Image sample

original image 10x10px:



scaled image to 40x:



Python Library

1. NumPy

```
pip install numpy
```

2. Pillow

```
pip install Pillow
```

Python Source Code

1. Import numpy and Pillow library

```
from PIL import Image
from numpy import asarray
```

2. Open image as variable

```
image = Image.open('image.jpg')
```

3. Convert image color to array using `asarray` and store it as variable

```
np_img = asarray('image.jpg')
```

4. Print array

```
print(np_img)
```

5. Run program

```
python3 convert.py
```

6. Result color will display in RGB format.

```
[y coordinate[x coordinate]]
```

```
[[249 249 249]
 [253 253 253]
 [242 242 242]
 [210 210 210]
 [178 178 178]
 [204 204 204]
 [205 205 205]
 [187 187 187]
 [229 229 229]
 [255 255 255]]

[[250 250 250]
 [241 241 241]]
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[225 225 225]
[180 180 180]
[151 151 151]
[178 178 178]
[192 192 192]
[196 196 196]
[227 227 227]
[252 252 252]]
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[[233 233 233]
 [225 225 225]
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 [242 242 242]]
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 [245 245 245]
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 [223 223 223]
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 [253 253 253]]
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[[229 229 229]
 [233 233 233]
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 [242 242 242]
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 [245 245 245]]
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[[181 181 181]
 [207 207 207]
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 [212 212 212]
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 [225 225 225]
 [241 241 241]
 [235 235 235]]
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[[165 165 165]
```

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[200 200 200]
[234 234 234]
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[212 212 212]]

[[155 155 155]
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[[187 187 187]
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[[209 209 209]
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```