



How computer looks at an image?



How computer looks at an image?

```
0 0 11 10 0 0 0
       0 4 60 157 236 255 255 177 95 61 32
 0 10 16 119 238 255 244 245 243 250 249 255 222 103 10 0
 0 14 170 255 255 244 254 255 253 245 255 249 253 251 124 1
2 98 255 228 255 251 254 211 141 116 122 215 251 238 255 49
13 217 243 255 155 33 226 52 2 0 10 13 232 255 255 36
16 229 252 254 49 12 0 0 7 7 0 70 237 252 235 62
 6 141 245 255 212 25 11 9 3 0 115 236 243 255 137 0
0 87 252 250 248 215 60 0 1 121 252 255 248 144
0 13 113 255 255 245 255 182 181 248 252 242 208 36
       5 117 251 255 241 255 247 255 241 162 17 0
       0 4 58 251 255 246 254 253 255 120 11 0
       4 97 255 255 255 248 252 255 244 255 182 10
0 22 206 252 246 251 241 100 24 113 255 245 255 194
 0 111 255 242 255 158 24 0 0 6 39 255 232 230 56 0
0.218.251.250.137 7 11 0 0 0 2 62.255.250.125 3
0 173 255 255 101 9 20 0 13 3 13 182 251 245 61 0
0 107 251 241 255 230 98 55 19 118 217 248 253 255 52 4
0 18 146 250 255 247 255 255 255 249 255 240 255 129
      23 113 215 255 250 248 255 255 248 248 118 14 12 0
              0 52 153 233 255 252 147 37
                    0 0 0 14 1 0
```



How computer looks at an image?

```
15 0 0 11 10 0 0 0
       0 4 60 157 236 255 255 177 95 61 32 0
 0 10 16 119 238 255 244 245 243 250 249 255 222 103 10 0
 0 14 170 255 255 244 254 255 253 245 255 249 253 251 124 1
 2 98 255 228 255 251 254 211 141 116 122 215 251 238 255 49
13 217 243 255 155 33 226 52 2 0 10 13 232 255 255 36
16 229 252 254 49 12 0 0 7 7 0 70 237 252 235 62
 6 141 245 255 212 25 11 9 3 0 115 236 243 255 137 0
 0 87 252 250 248 215 60 0 1 121 252 255 248 144
0 13 113 255 255 245 255 182 181 248 252 242 208 36
      5 117 251 255 241 255 247 255 241 162 17 0 7 0
       0 4 58 251 255 246 254 253 255 120 11 0 1 0
       4 97 255 255 255 248 252 255 244 255 182 10
0 22 206 252 246 251 241 100 24 113 255 245 255 194
 0 111 255 242 255 158 24 0 0 6 39 255 232 230 56 0
 0 218 251 250 137 7 11 0 0 0 2 62 255 250 125 3
 0 173 255 255 101 9 20 0 13 3 13 182 251 245 61
 0 107 251 241 255 230 98 55 19 118 217 248 253 255 52 4
 0 18 146 250 255 247 255 255 255 249 255 240 255 129
      23 113 215 255 250 248 255 255 248 248 118 14 12 0
              0 52 153 233 255 252 147 37
```

- Represents the intensity at a particular location
- Generally in range 0-255
- 0 represents black and 255 represents white
- Different values correspond to the intensity

 Learn everything about analytics.

. . . .

Color Images

Colour images are composed of multiple colors



Colour Image



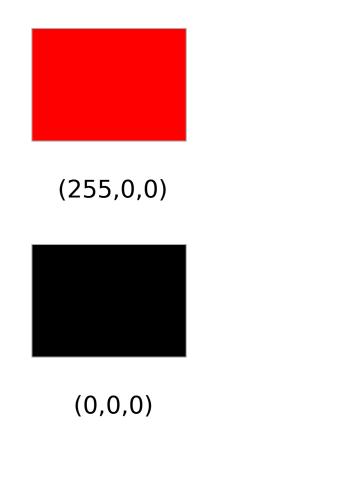
Color Images

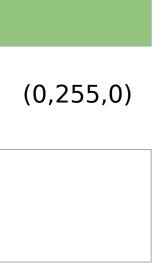
- Colour images are composed of multiple colors
- RGB are composed of Red, Green and Blue parts





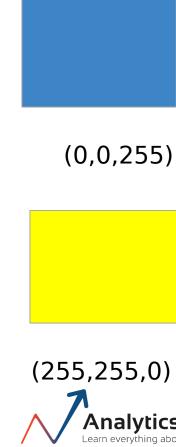
Pixel Values





(255, 255, 25

5)







Colour Image





Colour Image

141	142	143	144	145
151	152	153	154	155
161	162	163	164	165
171	172	173	174	175
181	182	183	184	185
191	192	193	194	195

R





Colour Image

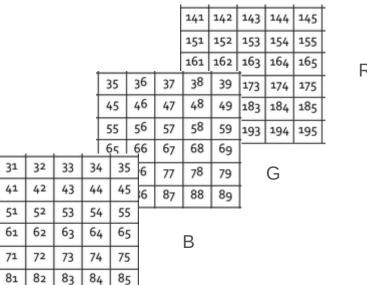
			141	142	143	144	145
			151	152	153	154	155
			161	162	163	164	165
35	36	37	38	39	173	174	175
45	46	47	48	49	183	184	185
55	56	57	58	59	193	194	195
65	66	67	68	69			
75	76	77	78	79		G	
85	86	87	88	89	Ī		

R





Colour Image



R

 $N \times M \times 3$





Community Guidelines Source
 So Search documentation ... Download Gallery Documentation Stable (release notes) Image processing in Python 0.15.0 - April 2019 scikit-image is a collection of algorithms for image processing. ① Download It is available free of charge and free of restriction. We pride ourselves on high-quality, peer-reviewed code, written by an Development active community of volunteers. pre-0.16 O Download



To install skimage in your system:

pip install scikit-image



Thank You!

