

## Citra Terindeks

213, 80, 155	24, 60, 122	212, 9, 19
211, 200, 155	153, 155, 154	8, 8, 100
213, 222, 12	15, 25, 155	143, 100, 123

### Color Palette:

Warna 0 = Hitam (0, 0, 0)

Warna 1 = Merah (255, 0, 0)

Warna 2 = Hijau (0, 255, 0)

Warna 3 = Biru (0, 0, 255)

Buat Index Setiap Pixel berdasarkan color palette

$F(0,0)$

$$\text{Warna 0} = \sqrt{(0-213)^2 + (0-80)^2 + (10-155)^2}$$

$$= 275,8$$

$$\text{Warna 1} = \sqrt{(255-213)^2 + (0-80)^2 + (0-155)^2}$$

$$= 179,41$$

$$\text{Warna 2} = \sqrt{(0-213)^2 + (0-80)^2 + (255-155)^2}$$

$$= 316,25$$

$$\text{Warna 3} = \sqrt{(0-213)^2 + (0-20)^2 + (255-155)^2}$$

$$= 298,53$$

$F(0,1)$

$$\text{Warna 0} = \sqrt{(0-211)^2 + (0-200)^2 + (0-155)^2}$$

$$= 329,96$$

$$\text{Warna 1} = \sqrt{(255-211)^2 + (0-200)^2 + (0-155)^2}$$

$$= 256,82$$

$$\text{Warna 2} = \sqrt{(0-211)^2 + (255-200)^2 + (0-155)^2}$$

$$= 267,52$$

$$\text{Warna 3} = \sqrt{(0-211)^2 + (0-200)^2 + (255-155)^2}$$

$$= 307,99$$

$F(0,2)$

$$\text{warna 0} = \sqrt{(0-213)^2 + (0-222)^2 + (0-12)^2}$$
$$= 307,89$$

$$\text{warna 1} = \sqrt{(255-213)^2 + (0-222)^2 + (0-12)^2}$$
$$= 226,25$$

$$\text{warna 2} = \sqrt{(0-213)^2 + (255-222)^2 + (0-12)^2}$$
$$= 215,87$$

$$\text{warna 3} = \sqrt{(0-213)^2 + (0-222)^2 + (255-12)^2}$$
$$= 392,09$$

$F(1,0)$

$$\text{warna 0} = \sqrt{(0-29)^2 + (0-60)^2 + (0-122)^2}$$
$$= 138,05$$

$$\text{warna 1} = \sqrt{(255-29)^2 + (0-60)^2 + (0-122)^2}$$
$$= 268,03$$

$$\text{warna 2} = \sqrt{(0-29)^2 + (255-60)^2 + (0-122)^2}$$
$$= 231,26$$

$$\text{warna 3} = \sqrt{(0-29)^2 + (0-60)^2 + (255-122)^2}$$
$$= 197,86$$

$F(1,1)$

$$\text{warna 0} = \sqrt{(0-153)^2 + (0-155)^2 + (0-159)^2}$$
$$= 286,73$$

$$\text{warna 1} = \sqrt{(255-153)^2 + (0-155)^2 + (0-159)^2}$$
$$= 291,13$$

$$\text{warna 2} = \sqrt{(0-153)^2 + (255-155)^2 + (0-159)^2}$$
$$= 239,01$$

$$\text{warna 3} = \sqrt{(0-153)^2 + (0-155)^2 + (255-159)^2}$$
$$= 290,07$$

$F(1,2)$

$$\text{Warna 0} = \sqrt{(0-15)^2 + (0-25)^2 + (0-155)^2} \\ = 157,71$$

$$\text{Warna 1} = \sqrt{(255-15)^2 + (0-25)^2 + (0-155)^2} \\ = 286,79$$

$$\text{Warna 2} = \sqrt{(0-15)^2 + (255-25)^2 + (0-155)^2} \\ = 277,75$$

$$\text{Warna 3} = \sqrt{(0-15)^2 + (0-25)^2 + (255-155)^2} \\ = 109,16$$

$F(2,0)$

$$\text{Warna 0} = \sqrt{(0-212)^2 + (0-9)^2 + (0-19)^2} \\ = 213,09$$

$$\text{Warna 1} = \sqrt{(255-212)^2 + (0-9)^2 + (0-19)^2} \\ = 97,86$$

$$\text{Warna 2} = \sqrt{(0-212)^2 + (255-9)^2 + (0-19)^2} \\ = 325,3$$

$$\text{Warna 3} = \sqrt{(0-212)^2 + (0-9)^2 + (255-19)^2} \\ = 317,36$$

$F(2,1)$

$$\text{Warna 0} = \sqrt{(0-8)^2 + (0-8)^2 + (0-100)^2} \\ = 100,63$$

$$\text{Warna 1} = \sqrt{(255-8)^2 + (0-8)^2 + (0-100)^2} \\ = 266,59$$

$$\text{Warna 2} = \sqrt{(0-8)^2 + (255-8)^2 + (0-100)^2} \\ = 266,59$$

$$\text{Warna 3} = \sqrt{(0-8)^2 + (0-8)^2 + (255-100)^2} \\ = 155,71$$



$\# (2,2)$

$$\text{warna 0} = \sqrt{(0-193)^2 + (0-100)^2 + (0-123)^2} \\ = 213,99$$

$$\text{warna 1} = \sqrt{(255-193)^2 + (0-100)^2 + (0-123)^2} \\ = 199,09$$

$$\text{warna 2} = \sqrt{(10-193)^2 + (255-100)^2 + (0-123)^2} \\ = 244,13$$

$$\text{warna 3} = \sqrt{(0-193)^2 + (0-100)^2 + (255-123)^2} \\ = 218,79$$

Hasil Palette Warna :

1	0	1
1	2	0
2	3	1

Atau

merah	hitam	merah
merah	hijau	hitam
hijau	biru	merah