Video Compression Hw#1: Color Transform

313551055 柯柏旭

RGB->YUV

```
# RGB轉YUV

Y = 0.299 * R + 0.587 * G + 0.114 * B

U = -0.169 * R - 0.331 * G + 0.5 * B + 128

V = 0.5 * R - 0.419 * G - 0.081 * B + 128
```

RGB->YCbCr

```
# RGB轉YCbCr

Y_YCbCr = 0.299 * R + 0.587 * G + 0.114 * B

Cb = -0.168736 * R - 0.331264 * G + 0.5 * B + 128

Cr = 0.5 * R - 0.418688 * G - 0.081312 * B + 128
```

Input



Output results

R_channel



G_channel



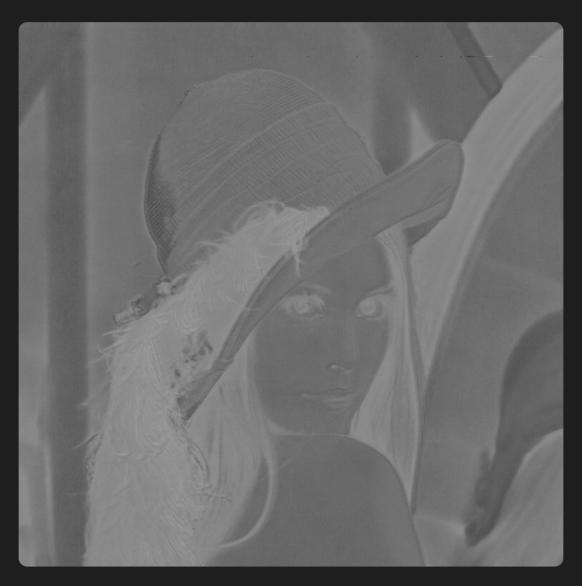
B_channel



Y_channel



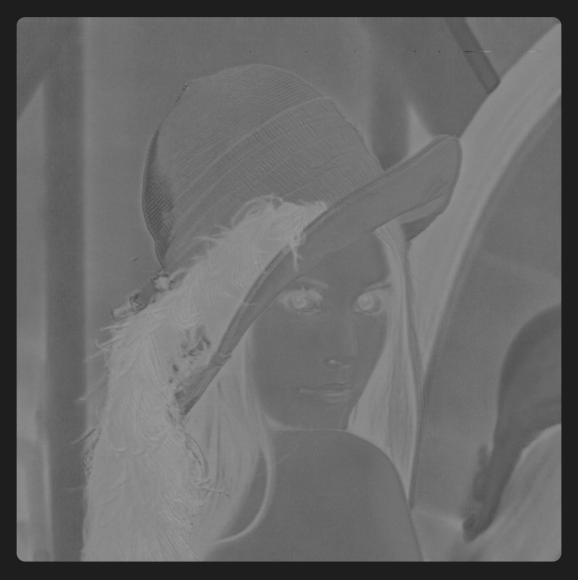
U_channel



V_channel



Cb_channel



Cr_channel

