

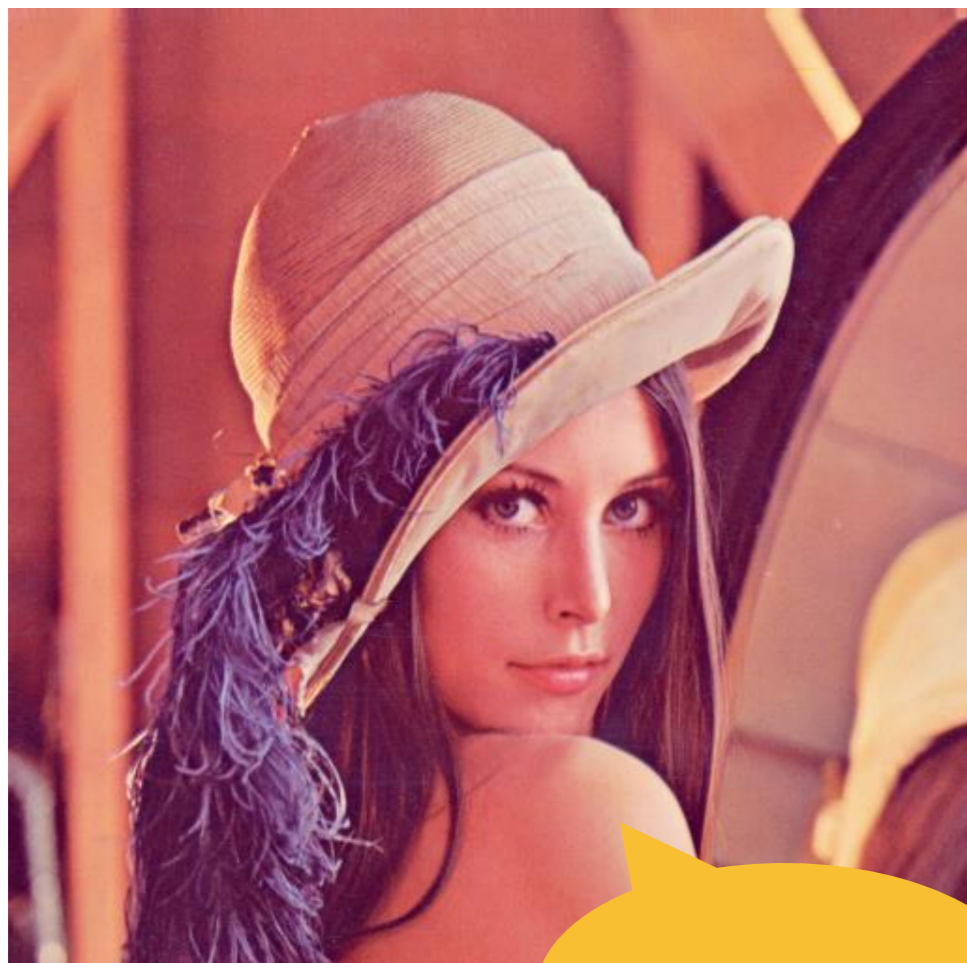


照騙製造工廠

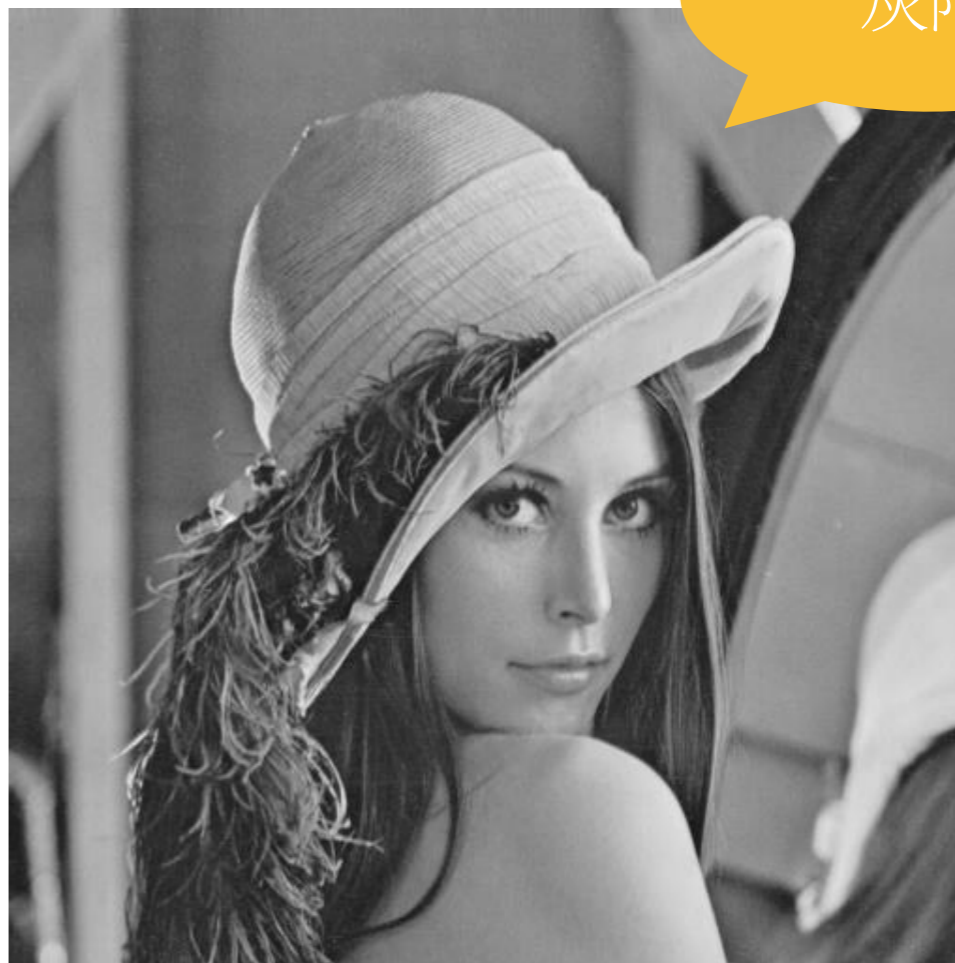
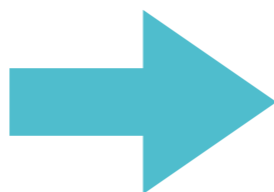
—— 影像處理

Ya-Chun Hsu @ Taipei Municipal Jianguo High School

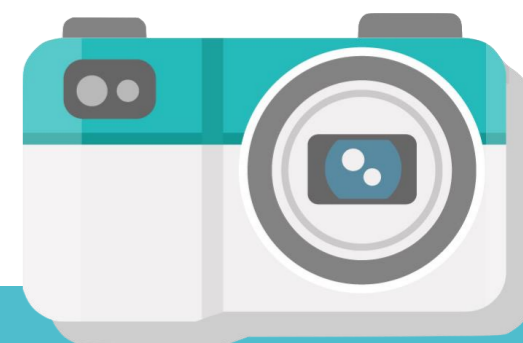
黑白濾鏡功能



RGB



灰階



彩色轉灰階



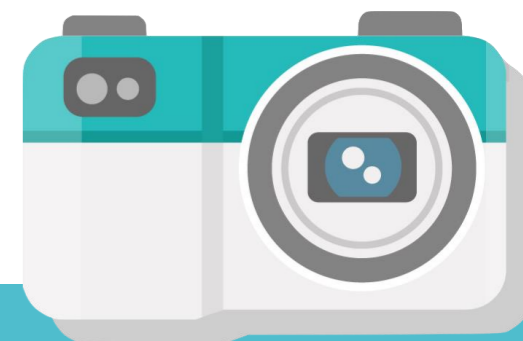
gray=R



gray=G



gray=B



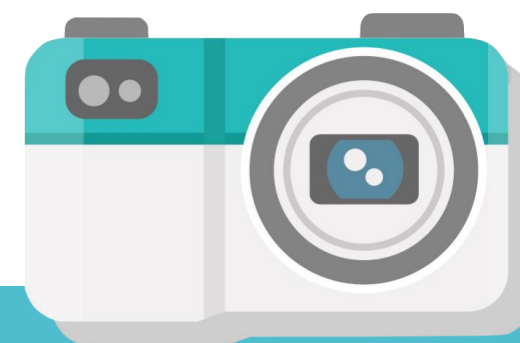
彩色轉灰階



$$\text{gray}=(R+G+B)/3$$

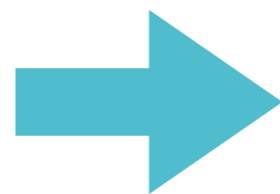


$$\text{gray}=R*0.299+G*0.587+B*0.114$$

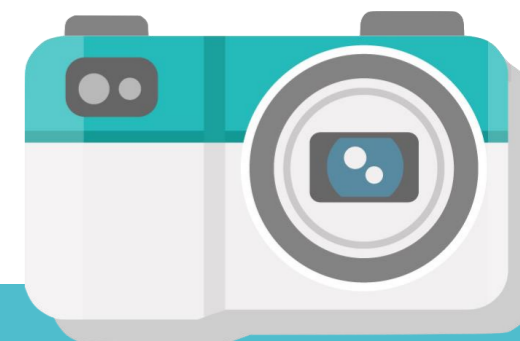


負片濾鏡功能

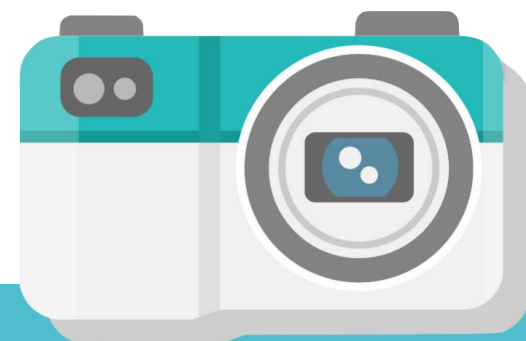
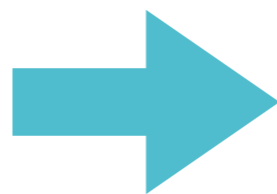
顏色顛倒



$$\text{invert}(R,G,B)=[255-R,255-G,255-B]$$

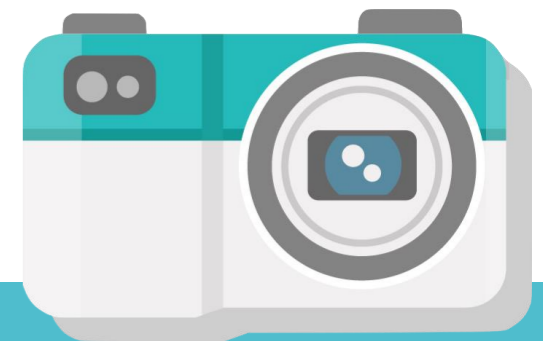
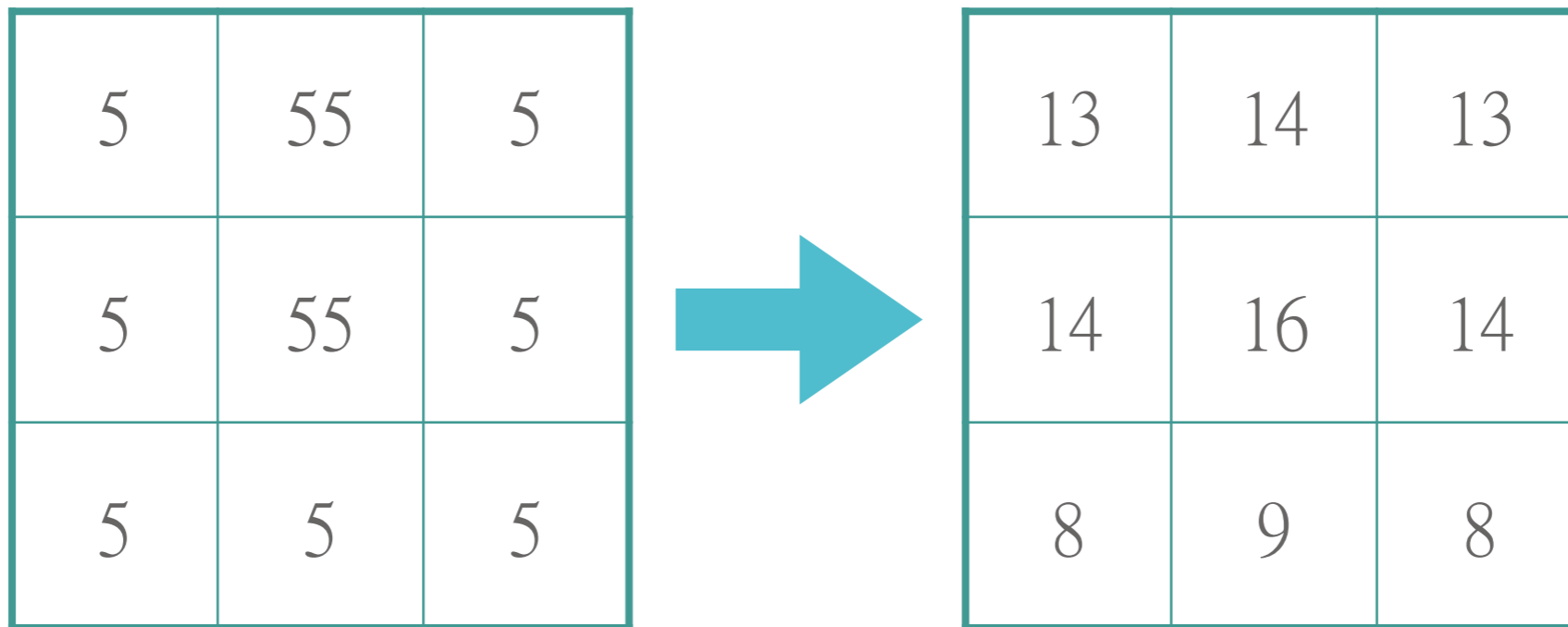


柔膚效果



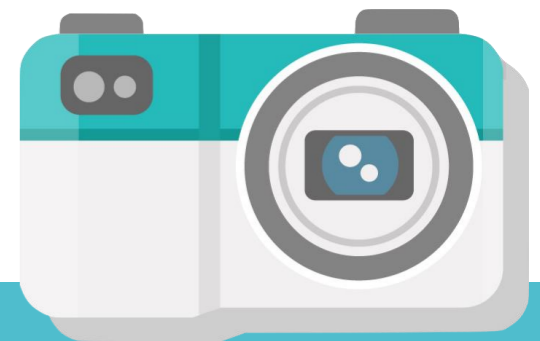
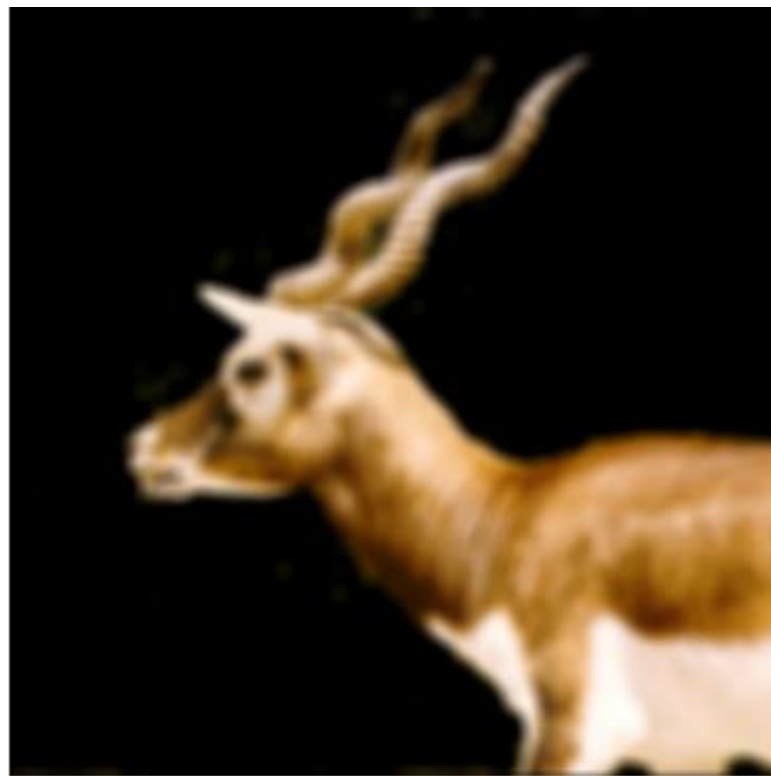
均值濾波

- 將每個像素鄰近的所有像素值加總，再以平均值取代中間的像素值



均值率波

- 影像模糊化
- 可處理如胡椒鹽般的雜訊 (salt & pepper noise)



圖片來源

- freepik

https://www.freepik.com/free-vector/variety-of-flat-designed-professional-cameras_1176786.htm#term=camera&page=1&position=12

https://www.freepik.com/free-vector/photography-app_795861.htm#term=photo&page=1&position=37

