```matlab
close all;

clear;

a = imread('messi.jpg');


a1 = smooth1(a,31);

a2 = smooth1(a,63);

a3 = smooth1(a,127);              %分别用不同尺寸模板进行 rgb 滤波


a4 = smooth2(a,31);

a5 = smooth2(a,63);

a6 = smooth2(a,127);             %分别用不同尺寸模板进行 hsv 滤波


close all;


subplot(3,3,2),imshow(a,[]),title('Original pic');

subplot(3,3,4),imshow(a1,[]),title('rgb 31');

subplot(3,3,5),imshow(a2,[]),title('rgb 63');

subplot(3,3,6),imshow(a3,[]),title('rgb 127');

subplot(3,3,7),imshow(a4,[]),title('hsv 31');

subplot(3,3,8),imshow(a5,[]),title('hsv 63');

subplot(3,3,9),imshow(a6,[]),title('hsv 127');
```