```
close all; % closes all figures
% read images and convert to single format
im1 = im2single(imread('./blackpanther.jpg'));
im2 = im2single(imread('./chadwick.jpg'));
% convert to grayscale
%im1 = rgb2gray(im1);
\%im2 = rgb2gray(im2);
% uncomment this when debugging hybridImage so that you don't have to keep
aligning
%keyboard;
%% Choose the cutoff frequencies and compute the hybrid image (you supply
%% this code)
cutoff_low = 5;
cutoff_high = 2;
n = 3;
[im2,im1] = hybridImage(im1, im2, cutoff_low, cutoff_high, n);
%sum the aligned images
hybrid = im2 + im1;
hybrid = imresize(hybrid, 25);
imshow(hybrid);
%% Compute and display Gaussian and Laplacian Pyramids (you need to supply
this function)
function [im4, im3] = hybridImage(im1, im2, cutoff_low, cutoff_high, n)
    %Blur image 1 - low frequency
    for c = 1:n
       Z = imgaussfilt(im2,cutoff_low); %2D Gaussian
       im3 = imresize(Z, 0.5);
    end
    filter = [1 \ 2 \ 1; \ 0 \ 0 \ 0; \ -1 \ -2 \ -1];
    %Hig hfrequency of image two
    for I = 1:n
```

```
V = 1-imgaussfilt(im1,cutoff_high); %Laplacian
    im4 = imresize(double(V),0.5);
end
% use this if you want to align the two images (e.g., by the eyes) and crop
% them to be of same size
[im4,im3] = align_images(im3, im4);
end
```