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function [BW,maskedRGBImage] = findRed(RGB)
% Auto-generated by colorThresholder app on 05-Oct-2016
%-----
% Convert RGB image to chosen color space
I = rgb2hsv(RGB);

% Define thresholds for channel 1 based on histogram settings
channel1Min = 0.900; %Conversion to openCV range channel1Min*180
channel1Max = 0.080; %Conversion to openCV range channel1Max*180

% Define thresholds for channel 2 based on histogram settings
channel2Min = 0.300; %Conversion to openCV range channel2Min*255
channel2Max = 1.000; %Conversion to openCV range channel2Max*255

% Define thresholds for channel 3 based on histogram settings
channel3Min = 0.0; %Conversion to openCV range channel3Min*255
channel3Max = 1.000; %Conversion to openCV range channel3Min*255

% Create mask based on chosen histogram thresholds
BW = ( (I(:,:,1) >= channel1Min) | (I(:,:,1) <= channel1Max) ) & ...
      (I(:,:,2) >= channel2Min) & (I(:,:,2) <= channel2Max) & ...
      (I(:,:,3) >= channel3Min) & (I(:,:,3) <= channel3Max);

% Initialize output masked image based on input image.
maskedRGBImage = RGB;

% Set background pixels where BW is false to zero.
maskedRGBImage(repmat(~BW,[1 1 3])) = 0;

```