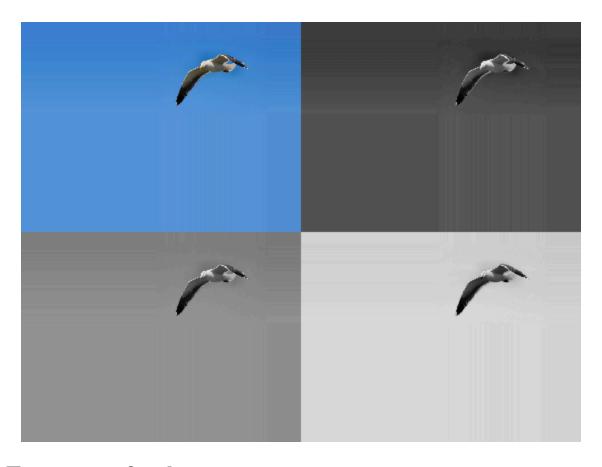
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2a)	Zusatzaufgabe	2
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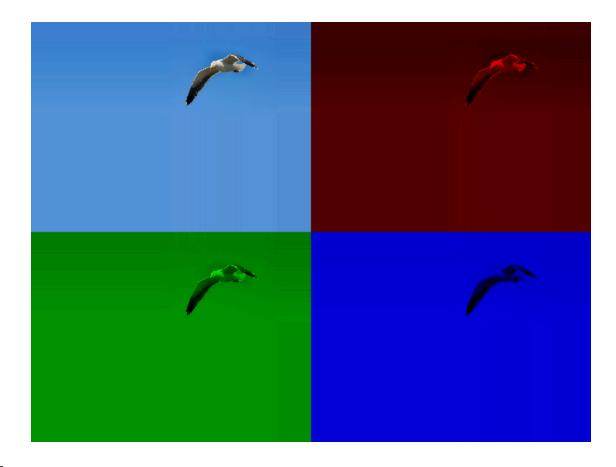
#### 2a)





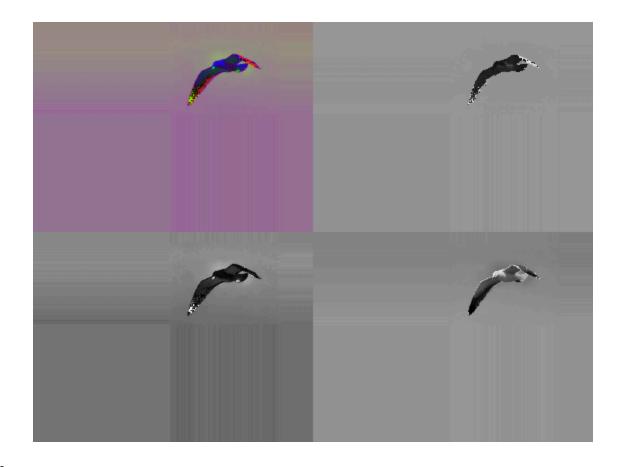
# 2a) Zusatzaufgabe

```
moewe_red = moewe;
moewe_green = moewe;
moewe_blue = moewe;
moewe_red(:,:,2)=0;
moewe_red(:,:,3)=0;
moewe_green(:,:,1)=0;
moewe_green(:,:,3)=0;
moewe_blue(:,:,1)=0;
moewe_blue(:,:,2)=0;
showQuadView(moewe,moewe_red,moewe_green,moewe_blue)
```



# 2b)

```
moewehsi=rgb2hsi(moewe);
showQuadView(moewehsi, moewehsi(:,:,1), moewehsi(:,:,2), moewehsi(:,:,3))
```



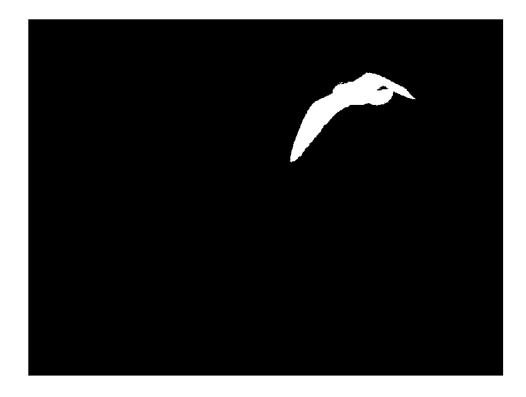
# 2c)

%RGB: im blauen Farbkanal

%HSI: Intensität

#### 2d)

```
%RGB: Rot: R>95, G>155, B<184
%HSI: <0,5 und >0,9
moewebin_1= moewe(:,:,3)<184;
moewebin_2= moewe(:,:,1)>95;
moewebin = moewebin_1 | moewebin_2;
figure
imshow(moewebin)
```



### 2e)

moewebin\_int=uint8(moewebin); %konvertierung
moewebin\_int=repmat(moewebin\_int, [1 1 3]); %binärbild mit farbkanälen
moewe\_fertig= moewe .\* moewebin\_int; %ausschneiden
figure
imshow(moewe\_fertig)



### **2f)**

```
bryce=imread('bryce.jpg');
bryce(moewebin_int == 1) = 0;
bryce_moewe = moewe_fertig + bryce;
figure
imshow(bryce_moewe);
```



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