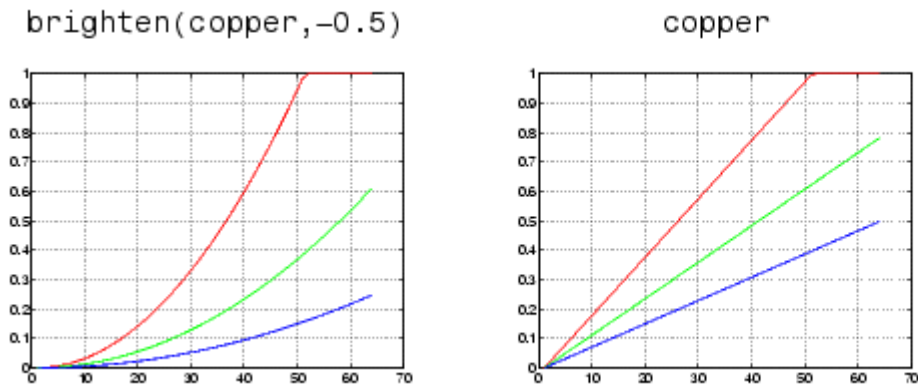


Altering Colormaps

Because colormaps are matrices, you can manipulate them like other arrays. The `brighten` function takes advantage of this fact to increase or decrease the intensity of the colors. Plotting the values of the R, G, and B components of a colormap using `rgbplot` illustrates the effects of `brighten`.



NTSC Color Encoding

The brightness component of television signals uses the NTSC color encoding scheme.

```
b = .30*red + .59*green + .11*blue
    = sum(diag([.30 .59 .11])*map')';
```

Using the nonlinear grayscale map,

```
colormap([b b b])
```

effectively converts a color image to its NTSC black-and-white equivalent.