AS#5: Glasses for the color deficient

1. • the spectral responses without glasses:

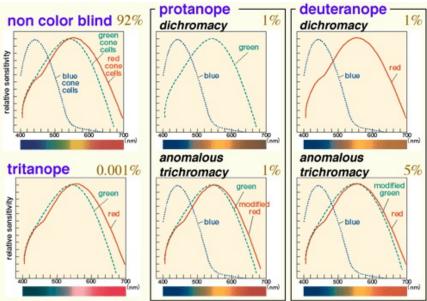
```
R = 1 \times 1 + 3 \times 3 + 2 \times 1 = 12
G = 1 \times 1 + 3 \times 3 + 2 \times 1 = 12
B = 1 \times 0 + 3 \times 0 + 2 \times 0 = 0
```

the spectral responses with glasses:

```
R = 1 \times 0 + 3 \times 0 + 2 \times 4 = 8
G = 1 \times 1 + 3 \times 3 + 2 \times 0 = 10
B = 1 \times 0 + 3 \times 0 + 2 \times 0 = 0
```

2. Potential problem

- It filter some color of the light so the brightness will be lower. So the glasses are not fit for the situation that light is weak.
- Only work for protanope anomalous trichromacy and deuteranope anomalous trichromacy. Not working for tritanope and protanope dichromacy and deueranope dichromacy.



picture references from http://jfly.iam.u-tokyo.ac.jp/color/