## COLOR BLOCK

mobile app

### LEGALLY BLIND

- Color blindness affects 8 ~ 10 % of the population
- Multiple types exist, most are mild
- If you've never seen color, how can you tell you have a problem with colors?
- Insecurities



### FORGET COLORS

- Subject to ridicule
- Reading maps and graphs
- Identifying traffic lights and signs
- Judging food
- Can't dress or wear makeup properly!



### SIRI, HELP!

- Mobile APP
- Allows for color matching of clothes
- Science based!
- Dependent on Color theory

# HOW TO USE ?

Specify the no. of clothing items

 Upload the images of clothing items

 The app determines if the colors are a good match

### HOW TO IMPLEMENT?

1	Read image then convert to HSV
2	Object detection for clothing item
3	Color detection for object / clothing item
4	Color-matching based on HUE angles and color theory

#### REFERENCES

- Color Blindness | National Eye Institute (nih.gov)
- Clothes and make-up Colour Blind Awareness
- 15 Difficulties Every Colorblind Person Face With (colorblindguide.com)
- I'm color blind, with a real bad taste for fashion. How can I properly dress myself, what colors would match with each others? Quora
- Colorblind Men and Clothing | How To Build A Wardrobe When You Can't Distinguish Color (realmenrealstyle.com)
- Choosing Clothes For Colorblind People (colorblindguide.com)

### THANK YOU

