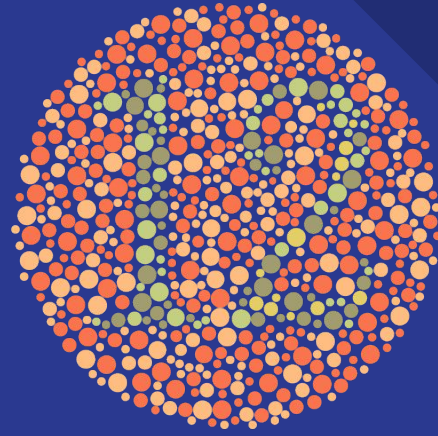




# Accessibility in Presentations

Blake Drechsler

# Color Blindness



# Dyslexia

A^	B3	C^
DJ	E≡	F=
GC	Hll	ll
Jl	K<	L_
MV	N\	O^
P>	QO	R?
S^	T-	UJ
V /	W\	X^
Y\	Z-	

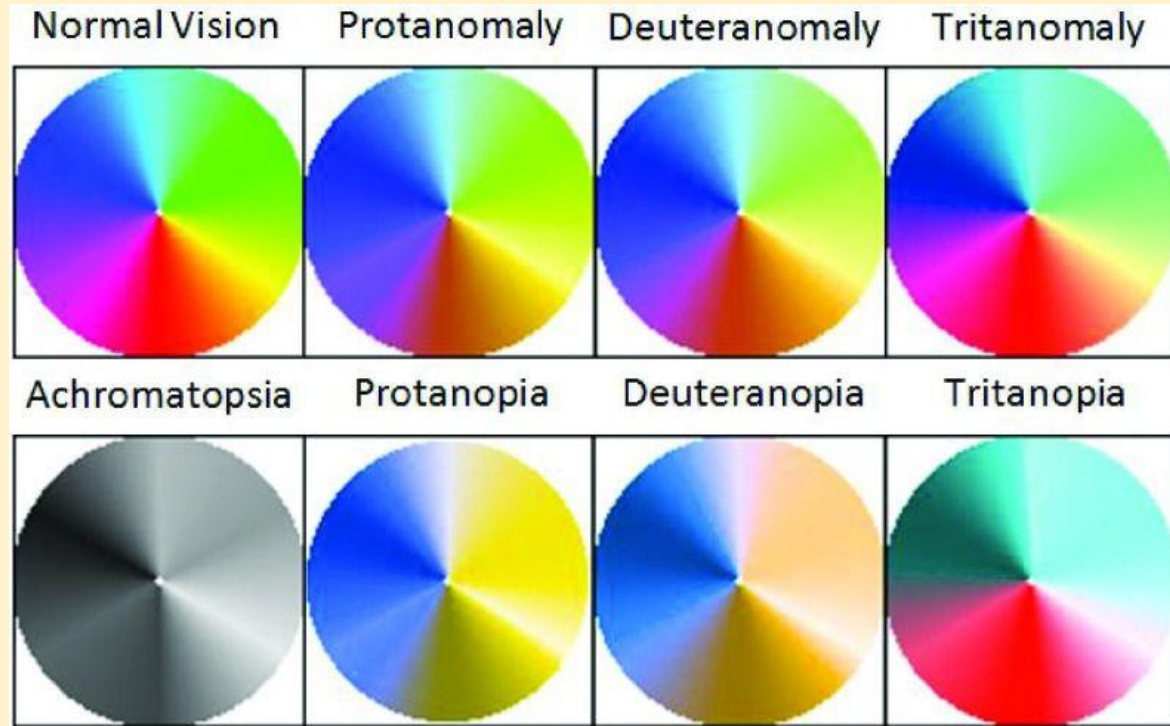
# Color Blindness

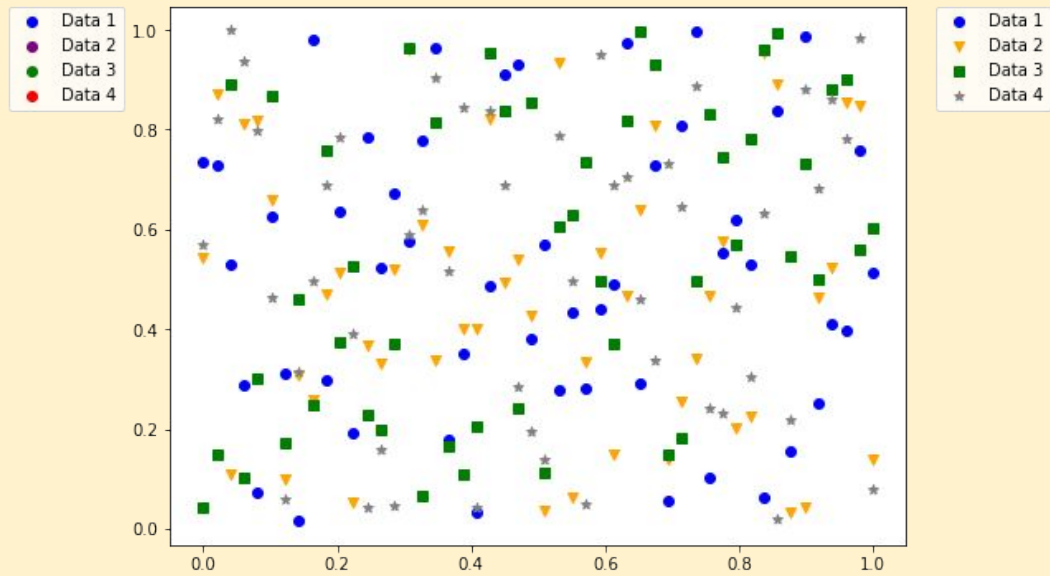
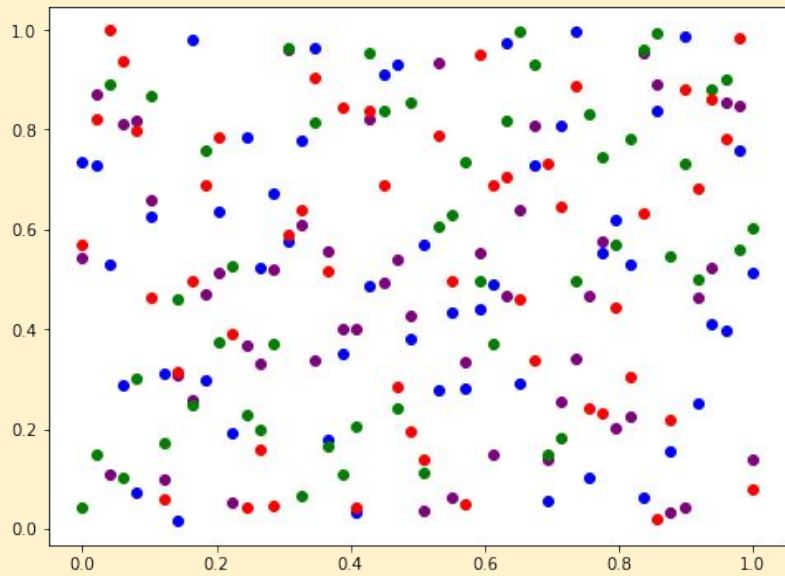


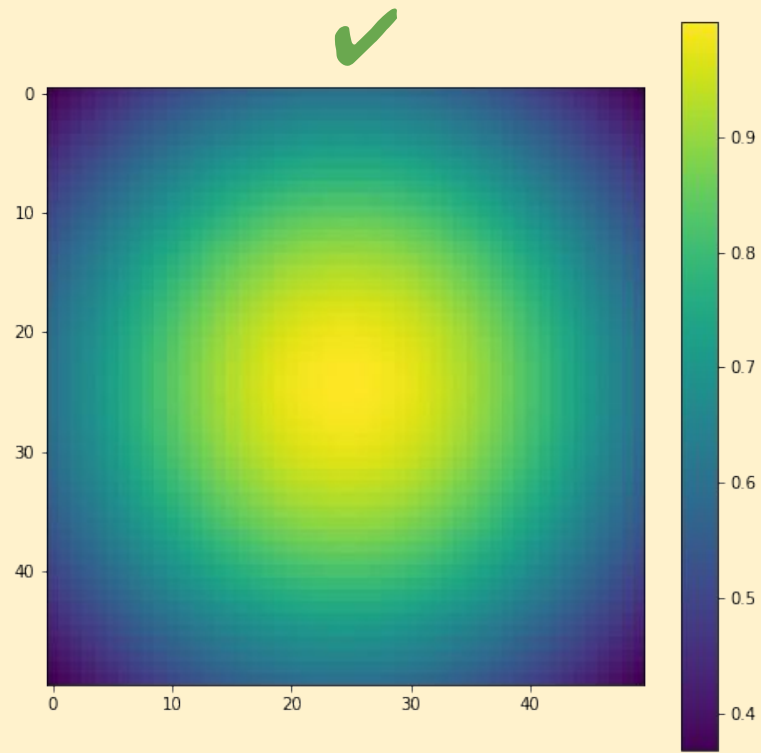
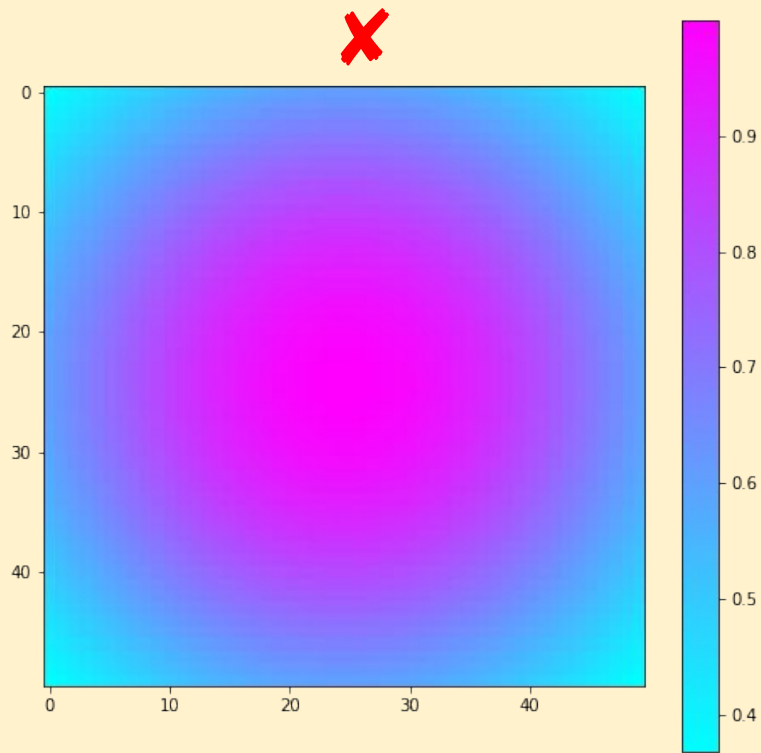
# What is Color Blindness?

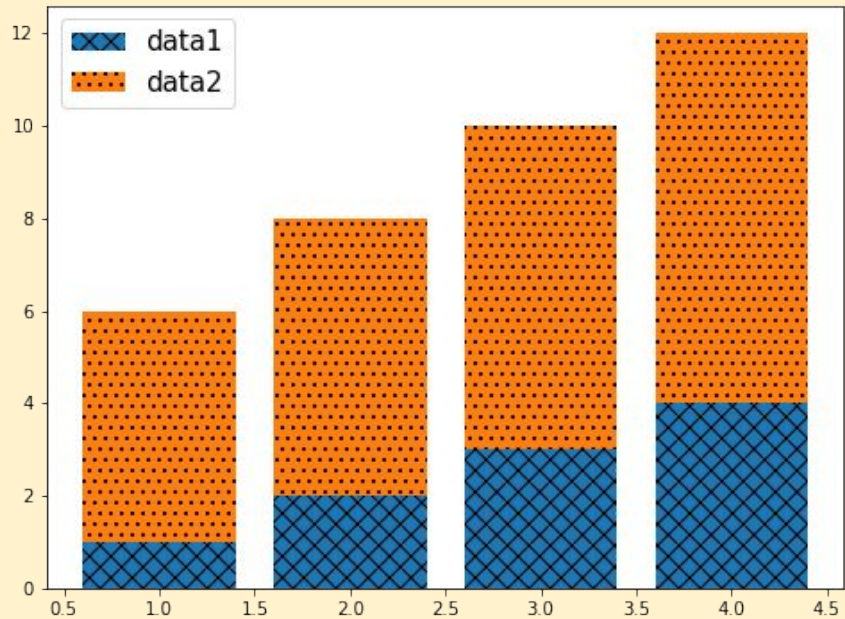
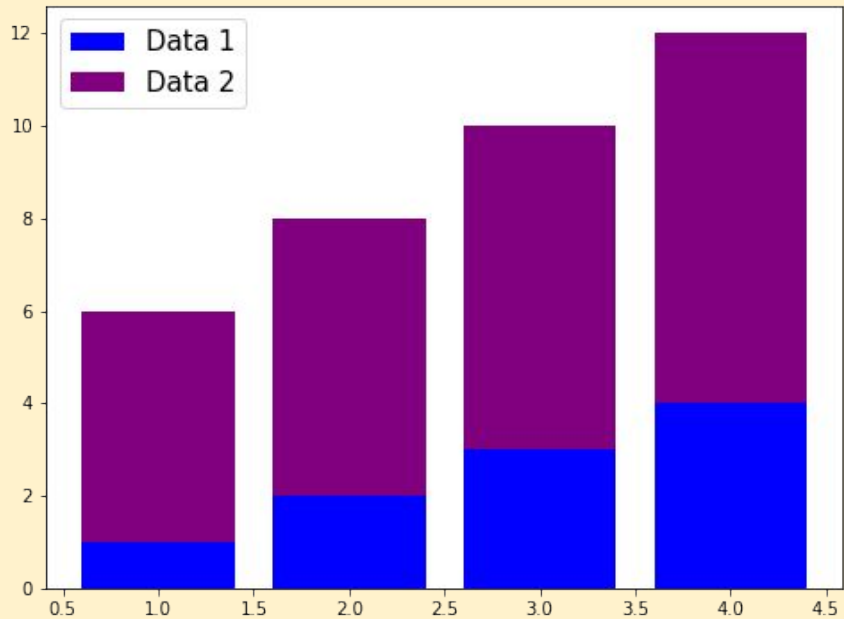
- Inherited issue with cone cells
- Anomalous Trichromacy
  - All three cones are present, one is out of alignment
- Dichromacy
  - Missing a cone, only two are present
- About 1 in 12 men and 1 in 200 women are color blind

# Types of Colorblindness











# Summary

- Use contrasting colors (blue and orange not red and green)
- Supplement colors with symbols
- Try to avoid conveying information with color as much as possible



# Dyslexia

When someone looks at a page the words are not spaced correctly.

Some people who have dyslexia see words all crushed together when they try to read.

Some people who have dyslexia say that the words on a page look shadowed or doubled when they try to read.

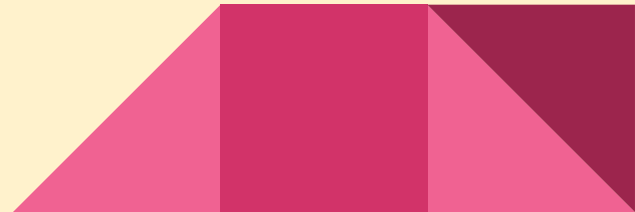
Some people who have dyslexia say that the words on a page look shadowed or doubled when they try to read.

Some people with dyslexia say that the words on a page look blurred from a central point when they try to read them.

Some people with dyslexia say that the words on a page look blurred from a central point when they try to read them.

# What is Dyslexia?

- Learning disability that makes reading more difficult
  - Issue with linking letters on the page with the sounds they make
  - Not related at all with intelligence
- Dyslexia is an issue with learning, not vision
- ~10% of the population are dyslexic



# Dyslexia Friendly Fonts

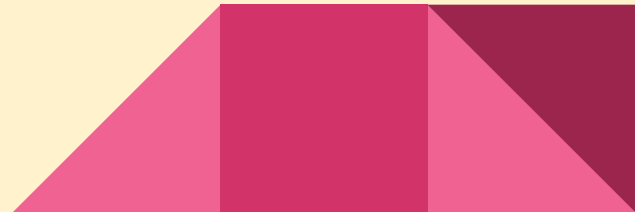
- Best to use sans serif fonts, such as Arial
- OpenDyslexic is a typeface specifically designed to be dyslexia friendly
  - Times New Roman is not recommended
- Avoid italicizing and underlining, use bold for emphasis

**Open-Dyslexic**



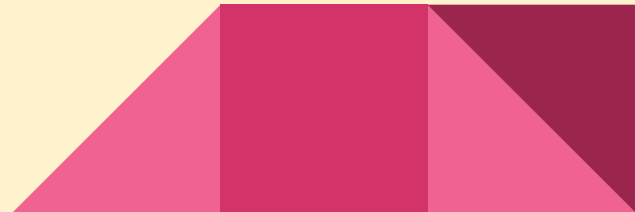
# Dyslexia Friendly Presentations

- Avoid large blocks of text
- Use larger spacing
- Avoid stark white backgrounds



# Conclusion

- There is a good chance that someone in the audience is color blind or dyslexic
- The changes to make presentations accessible are small and easy



# Helpful References

- [http://dyslexiahelp.umich.edu/sites/default/files/good\\_fonts\\_for\\_dyslexia\\_study.pdf](http://dyslexiahelp.umich.edu/sites/default/files/good_fonts_for_dyslexia_study.pdf)
- <https://www.brightcarbon.com/blog/powerpoint-presentations-and-dyslexia/>
- <https://opendyslexic.org/>
- <https://www.color-blindness.com/coblis-color-blindness-simulator/>
- <https://www.allaboutvision.com/conditions/color-blindness/types-of-color-blindness/>