



DEEP
LEARNING
INSTITUTE



DLI Accelerated Data Science Teaching Kit

Lecture 7.5 - Colors



The Accelerated Data Science Teaching Kit is licensed by NVIDIA, Georgia Institute of Technology, and Prairie View A&M University under the [Creative Commons Attribution-NonCommercial 4.0 International License](https://creativecommons.org/licenses/by-nc/4.0/).

**Anyone bored
by my color choices?**

In fact, grayscale can be risky...



In fact, grayscale can be risky...

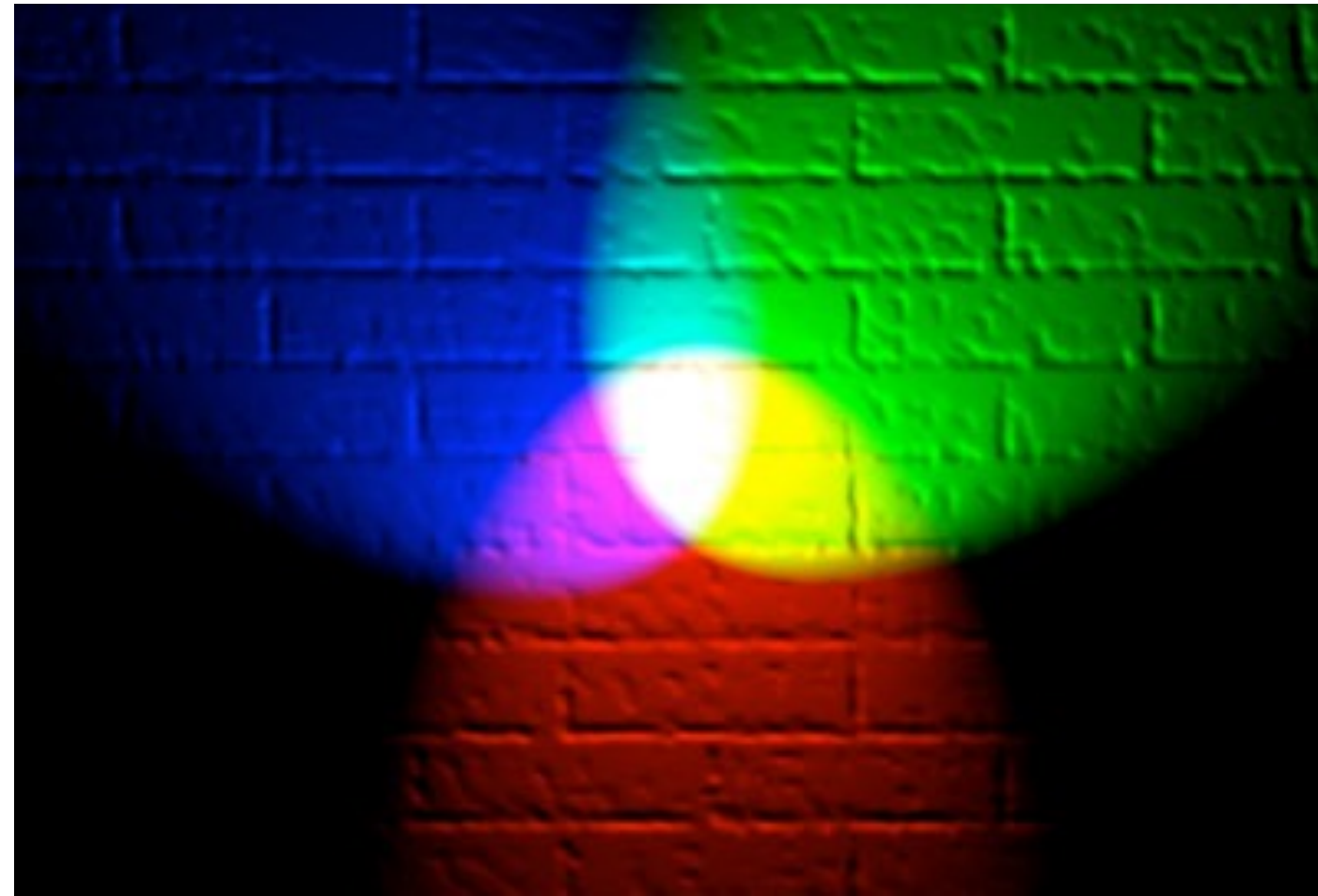


Color is Powerful

Color

Call attention to information
Increase appeal
Increase memorability
Another dimension to work with

Have you heard of RGB?

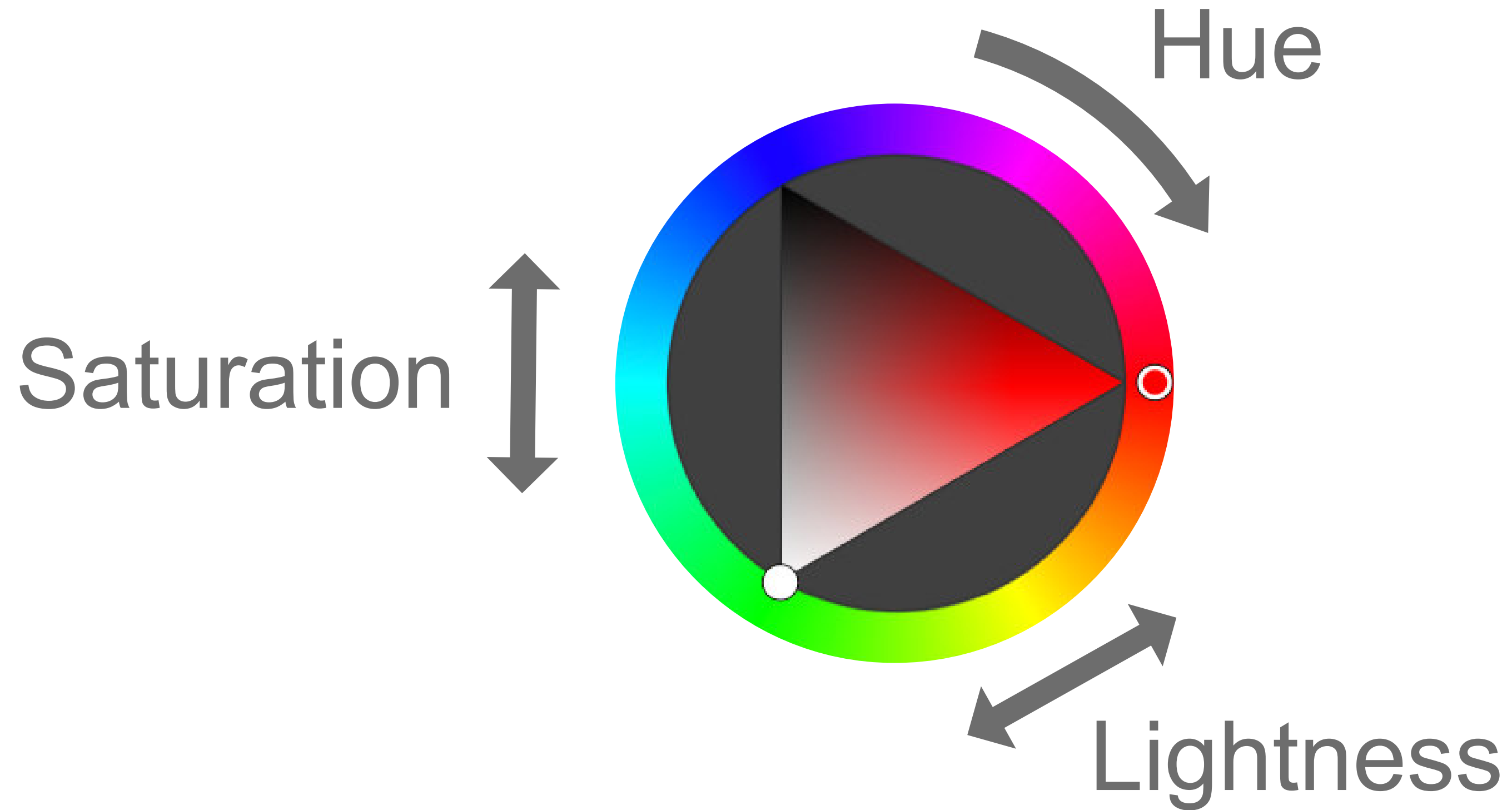


Additive color model: colors create by mixing red, green, blue light

Retrieved: https://en.wikipedia.org/wiki/RGB_color_model

**We see in RGB,
but we don't interpret in RGB...**

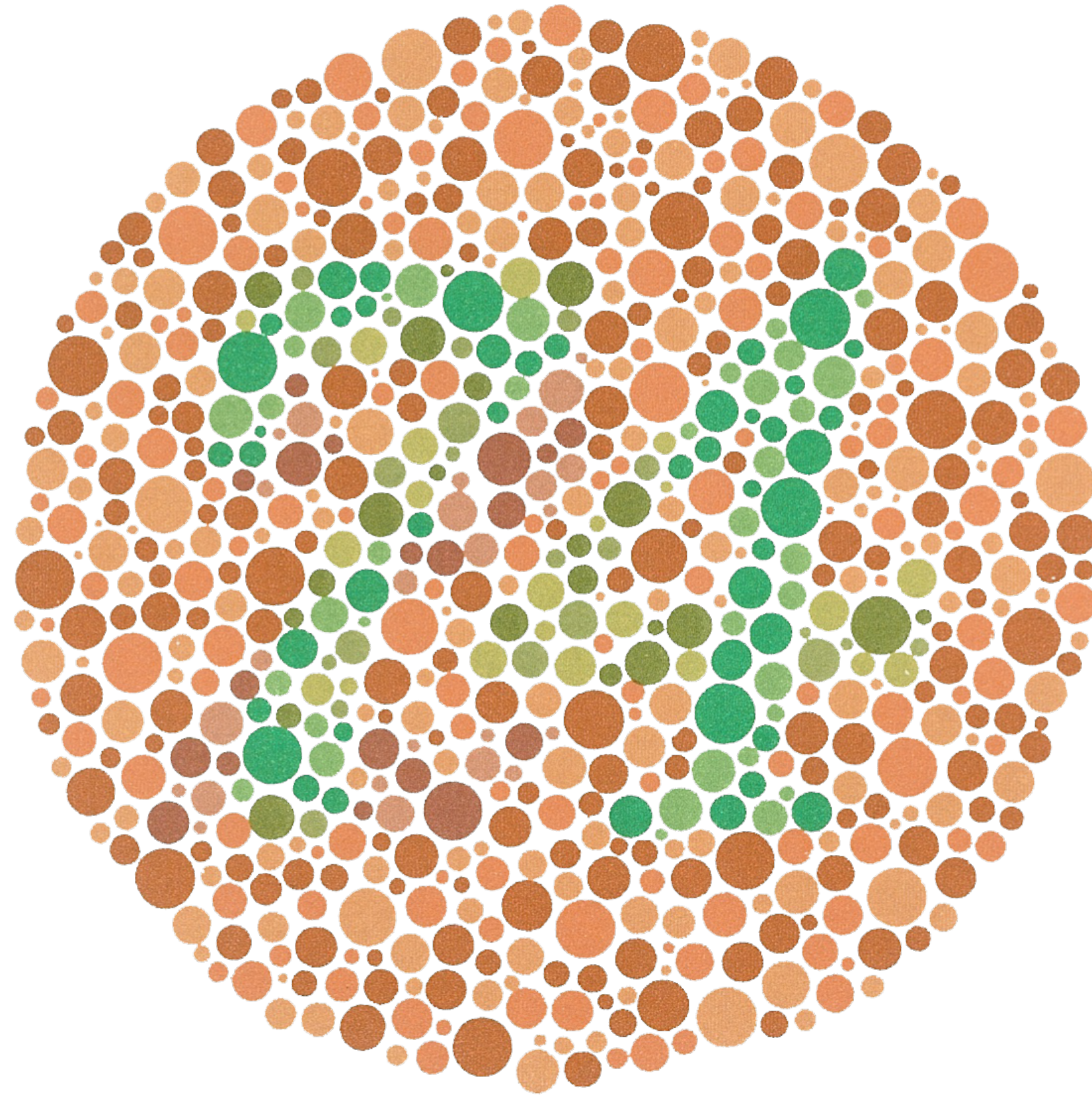
HSV Color Model



Source: color picker in Affinity Designer

Hue and Colorblindness

10% of males and 1% of females
are Red-Green Colorblind



Retrieved: https://en.wikipedia.org/wiki/Color_blindness



Surface temperature (°C)



0

45

Sep 30, 2014

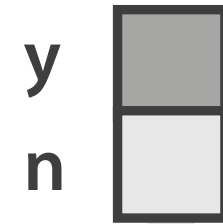
NOAA's Latest High Resolution Weather Model is Released

Color and Quantitative Data

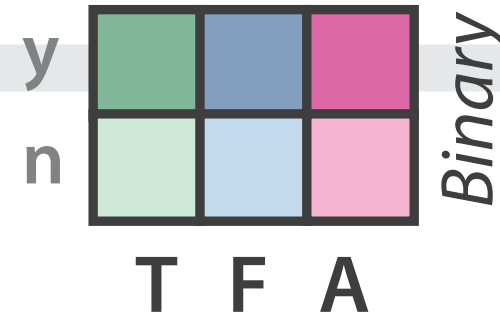
Can you order these (low→hi)?



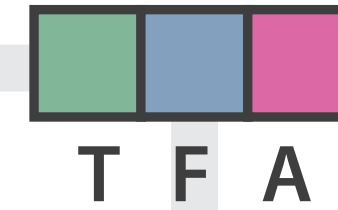
Binary



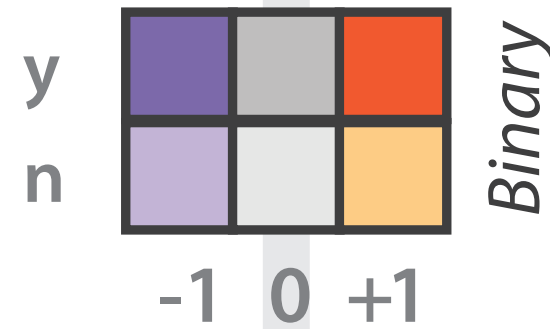
Categorical



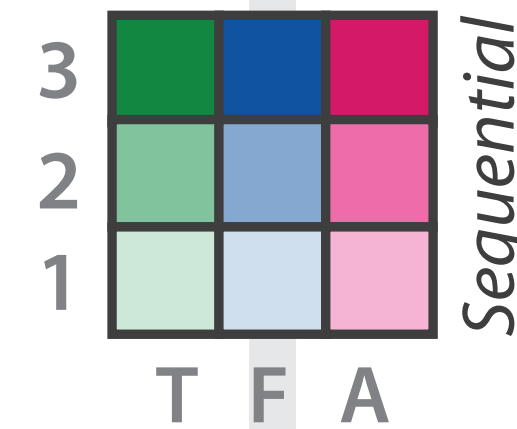
Categorical



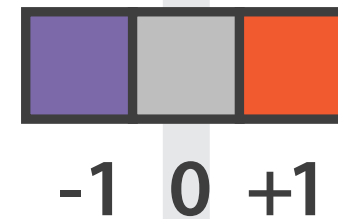
Diverging



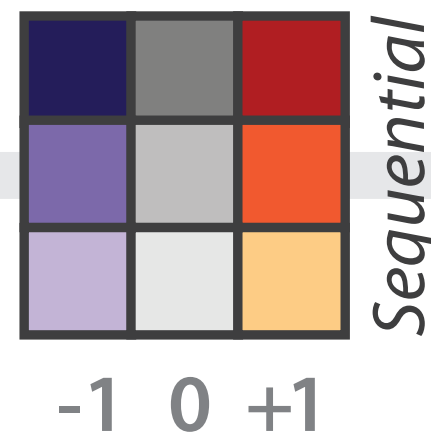
Categorical



Diverging



Diverging



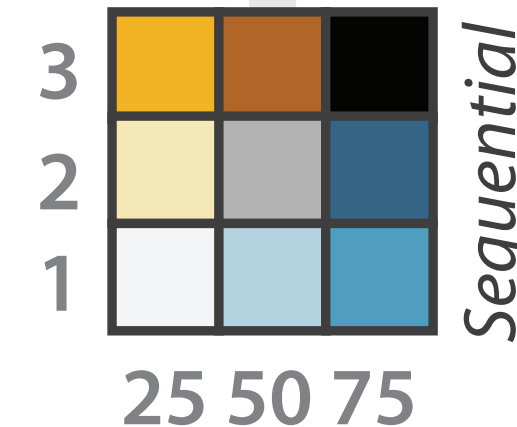
Sequential



Diverging

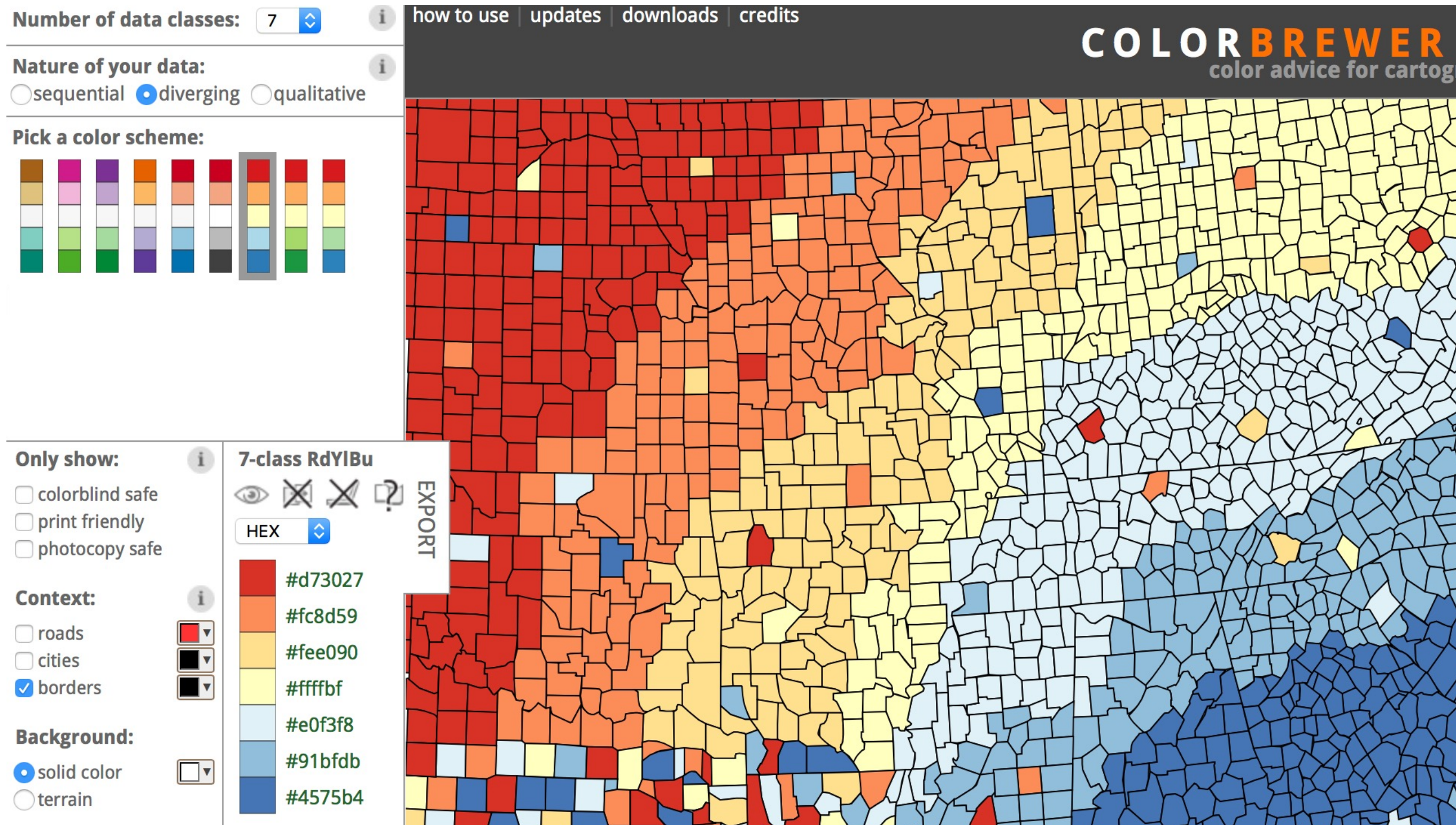


Sequential



Color Brewer for Picking Color Scales

<http://colorbrewer2.org/>





DEEP
LEARNING
INSTITUTE



PRAIRIE VIEW
A&M UNIVERSITY

DLI Accelerated Data Science Teaching Kit

Thank You