



Performing Arts Virtual Learning

**7 & 8 Stagecraft
Lighting Design**

May 18, 2020



7 & 8 Stagecraft

Lesson: May 18, 2020

Objective/Learning Target:

Understanding basic terminology and equipment used
in lighting design



What do you think?

Do you know enough about light to create something like this scene and stage?



**How
About
this?**



**Or
this?**





SELF-CHECK

· **THE CORRECT ANSWERS: No, no AND no**

There is SO MUCH more to learn, let's get started!

Color in Lighting: Warm and Cool Colors

- Every area of the stage needs a warm and a cool color light from the front for each effect (day or night)
- Warm colors are those like red, yellow or amber.
- Cool colors are those like blue green, or purple.
- The combination of shades of amber and blue are best for natural lighting



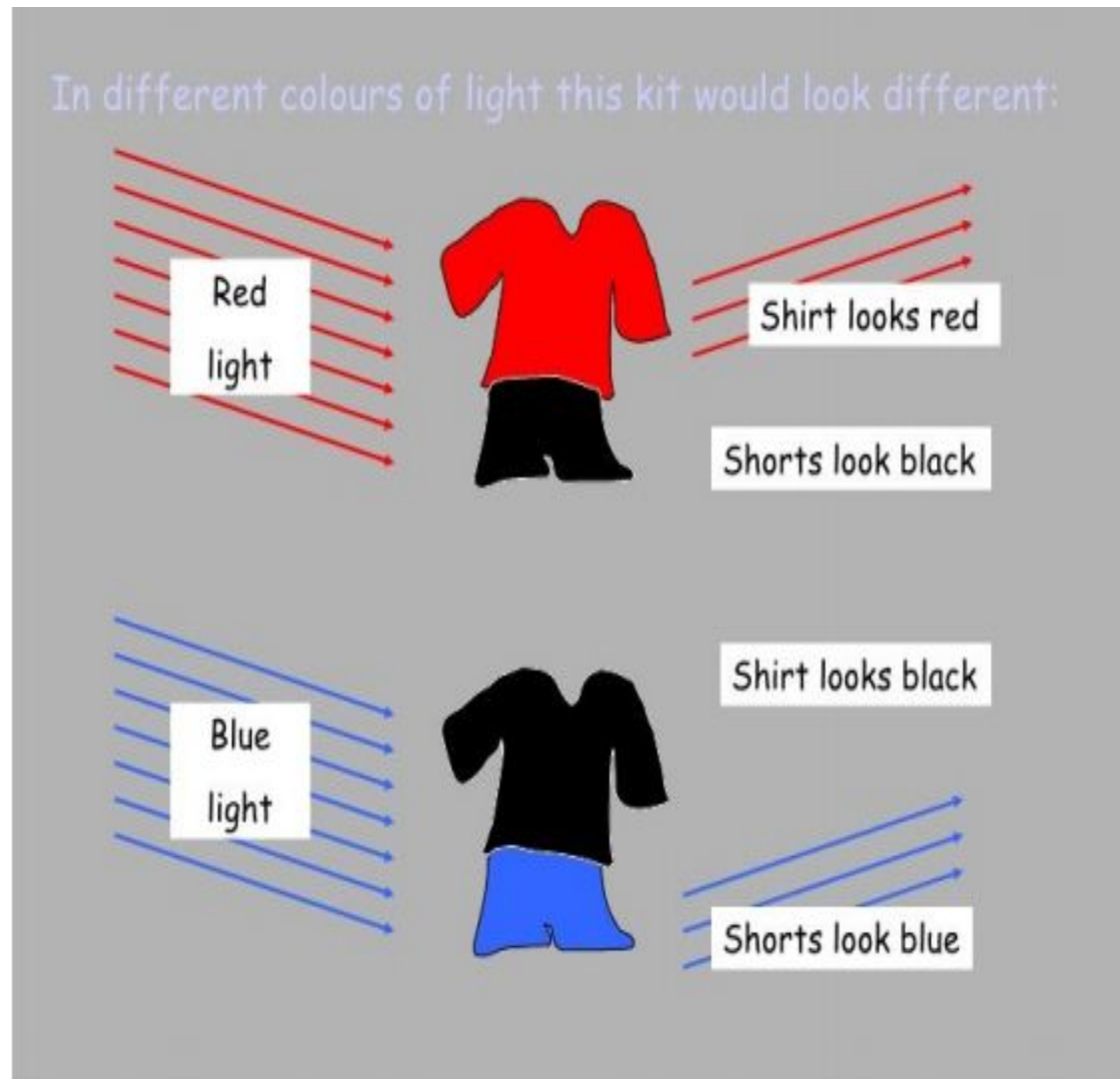
How Color Works

- White light reflects all color on stage.
- Each color reflects the colors that make it. For example, red reflects red. Blue reflects blue. Amber reflects red and green.
- If a red light shines on a blue object, the object will appear to have no color (black). If a green light shines on an amber object, it will appear green, as the red in the amber will not reflect.



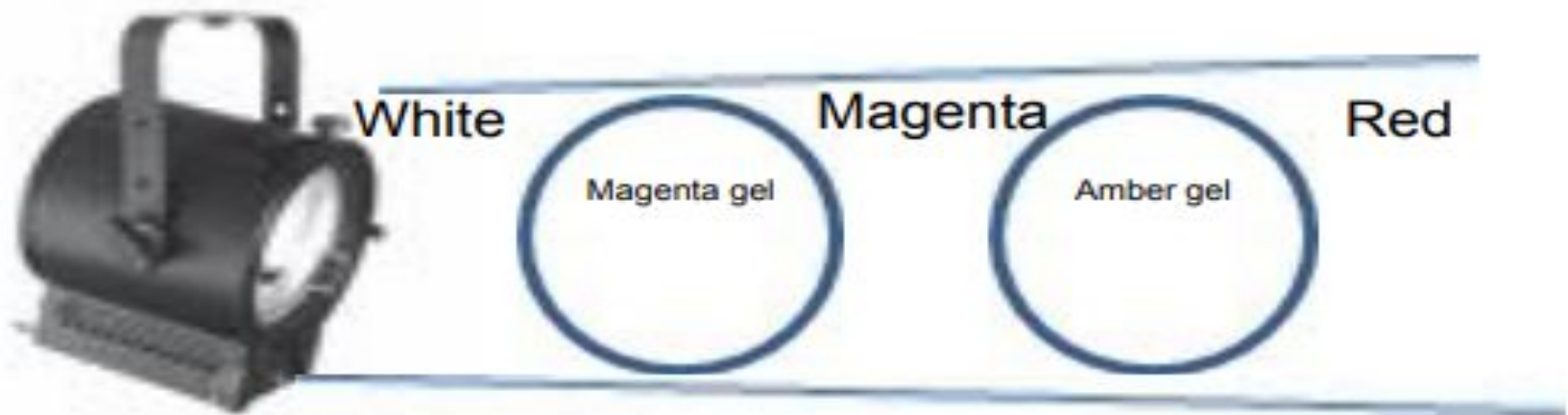
How lighting color can affect other design colors

Light designers have to understand how their color selections will affect costumes, set, props and any item put on stage.



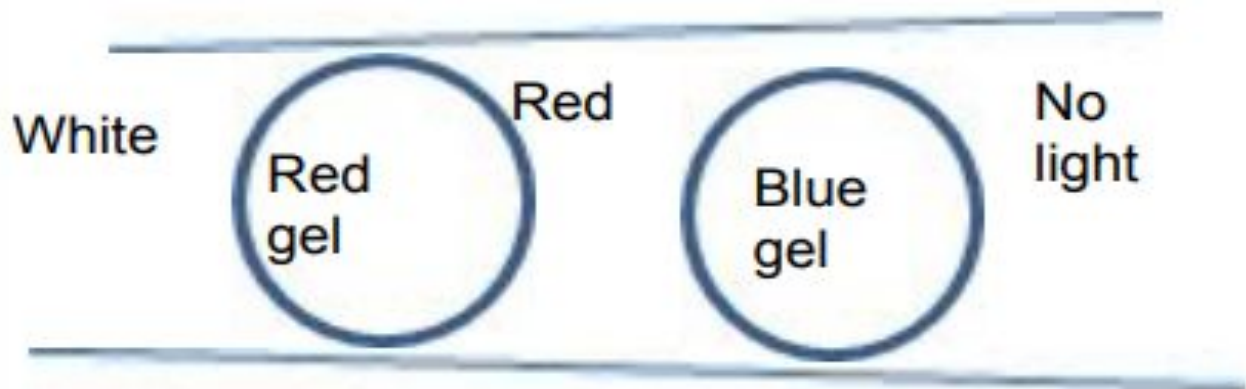
Color Filtering

A light with a magenta and amber gel will result in red light. The white light will go to the magenta gel, which will filter out all color except red and blue (what it is comprised of). The amber gel will filter out all but red and green. Green is already filtered out, so red light will be the result.



Color Filtering

A light with a red and blue gel will produce no useable light. The white light will go to the red gel, which will filter out all color except red. Since there is no red in blue, the blue gel will filter out all of the red light, resulting in no light.





Activity/Reflection

As a lighting designer color is one of your greatest tools! But your head is probably spinning with all this new info....wow... theatre is science too!

But **have no fear**, once you get to actually work with the lights, it is really cool!



After watching this video, write a reflection of how lighting is mixed to create colors.