

The background features a dark grey gradient with vibrant, wavy, organic shapes in shades of orange, red, purple, and teal. Scattered throughout are several small, solid-colored circles in teal, orange, pink, and light blue.

White Balance & Lighting Colour

Photography 11 & 12

In the before times...

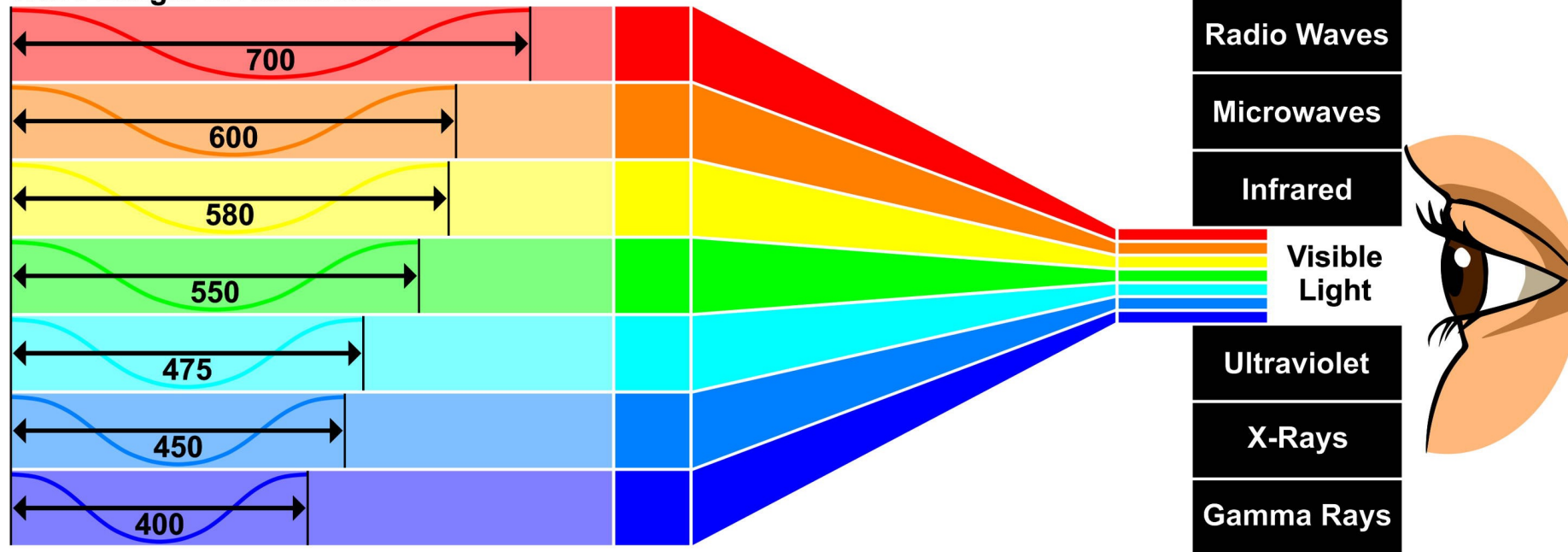
- Lighting is one of the most important elements to taking pictures – up to this point, we have focused on having ENOUGH light, but what about the KIND of light???
- In times of film cameras, you would have to buy and use specific films for specific lighting.
- Tungsten film was for shooting indoors. Day-Light Balanced film was for shooting outside.
- Today you can pull out your phone and take photos with thinking twice about how much light and the kind of light you have in your scene.



The Source

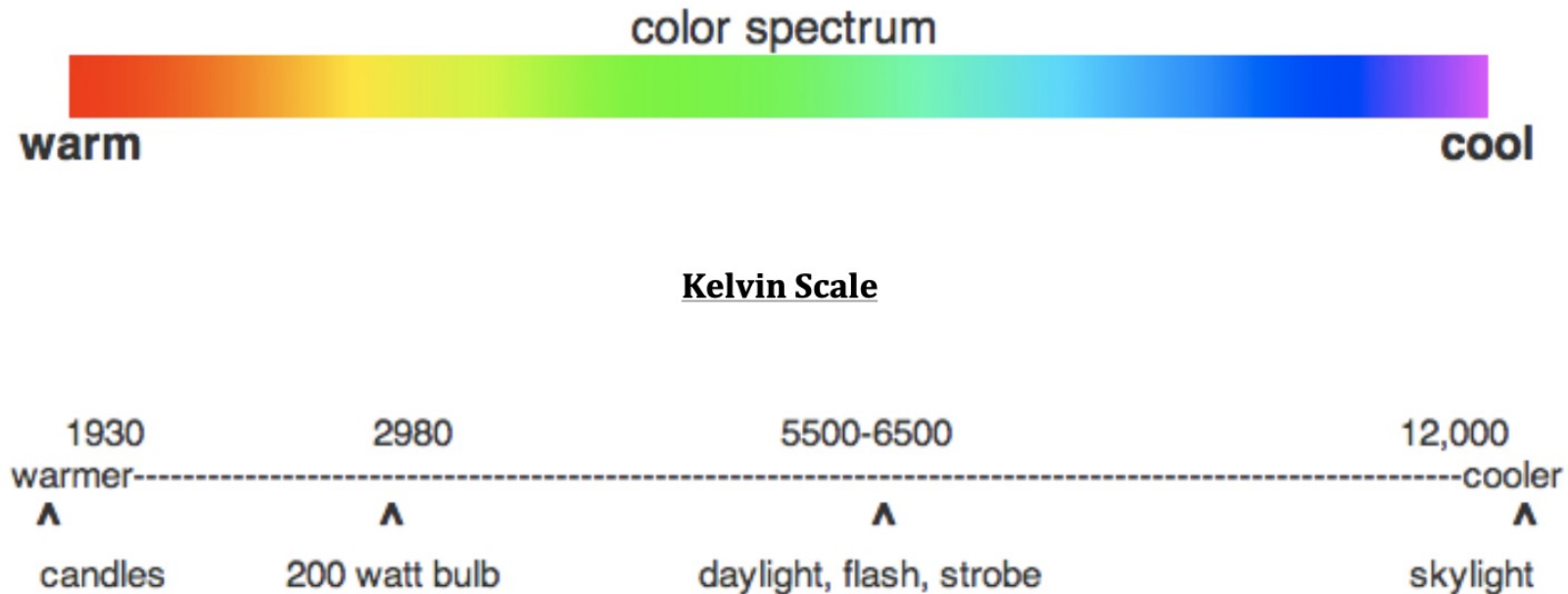
- The colour of light varies depending on its source.
- The sun radiates white light which is a continuous spectrum of all visible wave lengths of light.
- As these wavelengths are absorbed and reflected, they are separated out and we see them as colour.

Wave Length in Nanometer



Warm & Cool

- One way to talk about colour is using temperature.
- The beginning and the end of the day have warmer light (yellow, orange, red)
- The middle of the day is more cool light color (blue, purple, cyan).
- Shade is cooler, as are overcast days.





1000 - 2000K	Candlelight
2500 - 4000K	Tungsten Bulb
3000 - 4000K	Sunrise / Sunset
4000 - 5000K	Fluorescent Light
5000 - 5500K	Electronic Flash
5000 - 6500K	Daylight with Clear Sky
6500 - 8000K	Moderately Overcast
9000 - 1000K	Shade / Heavily Overcast

White Balance

- Digital cameras have several ways to compensate for these variations in color.
- We need to set the camera to render the color of light *correctly* so that there isn't an unwanted colour cast.
- For instance, a candle lit scene will have light from the far-left side of the kelvin scale, a very warm light (see the scales in previous slides).
- Unless the camera is set correctly for color, a white subject in this light will have a warm colour cast, making the white appear red/orange/yellow.
- When you have your camera set to capture in the jpeg format, one of your options for correct colour is to set the white balance to match the color of your light source.

White Balance Settings

- You can match the icon to the conditions you are in, or you can use the Auto- White Balance feature and allow the camera to do it for you.
- Sometimes you can get some pretty artistic looking photographs by playing around with these settings, but if you want your photographs to look how they should... be sure to WHITE BALANCE!

AWB	Auto White Balance
	Custom
K	Kelvin
	Tungsten
	Fluorescent
	Daylight
	Flash
	Cloudy
	Shade