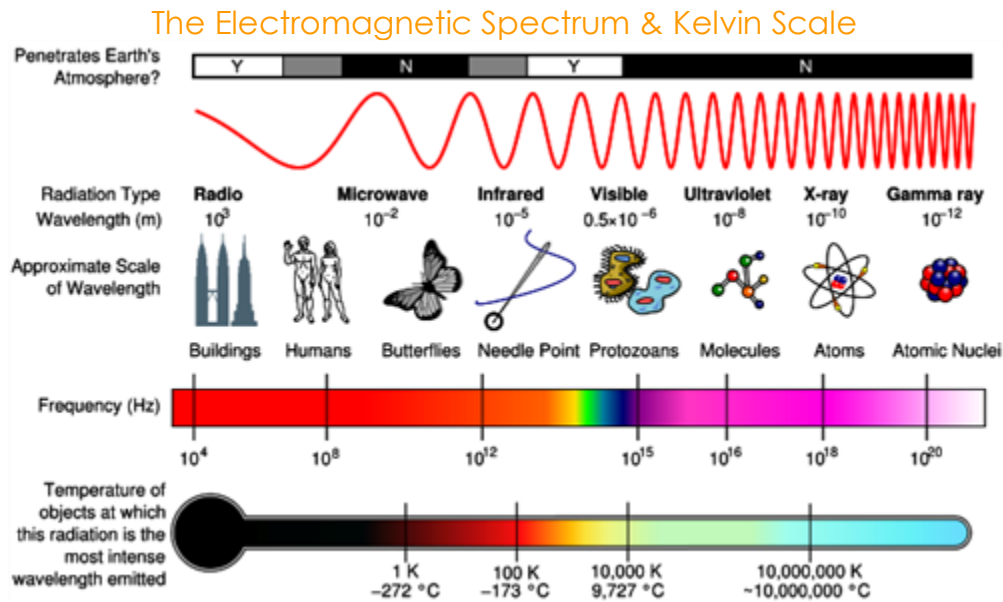


# Color of Light & White Balance

## White Balance & °Kelvin — Light Temperature



What is White Balance?

## Color of Light Basic Information

- Named after Lord Kelvin, a British physicist
- Color temperature is conventionally stated in the unit of absolute temperature, the kelvin, having the unit symbol K.
- It is a sequence of colored light radiated by a black metal, such as iron, as it's slowly heated from room temperature to melting point.
- The sequence of radiated wavelengths passes through red, orange, yellow, white and blue.
- The particular color seen at a specific temperature is the color temperature on the Kelvin scale.
- The color temperature of a light source is the temperature of an ideal black body radiator that radiates light of comparable hue to that of the light source.

- Color temperatures over 5,000K are called cool colors (bluish white)
- Lower color temperatures (2,700–3,000 K) are called warm colors (yellowish white through red).

## The Kelvin Scale and White Balance Settings



## Canon White Balance Symbol Kelvin Degrees

Display	Mode	Color Temperature (Approx. K: Kelvin)
<b>AWB</b>	Auto	3000 - 7000
	Daylight	5200
	Shade	7000
	Cloudy, twilight, sunset	6000
	Tungsten light	3200
	White fluorescent light	4000
	Flash use	6000
	Custom (p.72)	2000 - 10000
	Color temperature (p.73)	2500 - 10000

## Links

Cambridge Colour: Tutorial: White Balance

<http://www.cambridgeincolour.com/tutorials/white-balance.htm>

Picture Correct: White Balance Explained

<http://www.picturecorrect.com/tips/photography-white-balance-explained/>