

Colour of light



Learn more about colour with the Resene Everywhere colour series. Modules include:

Changing colour

Colour wheels

Colour and nature

Colour in art

Colour of light

Decorating colour

Dissolving colour

Dotted colour

Everywhere colour

Eyes and rainbows

Filtering colour

Illusion and tricks with colour

Making colour - Dye

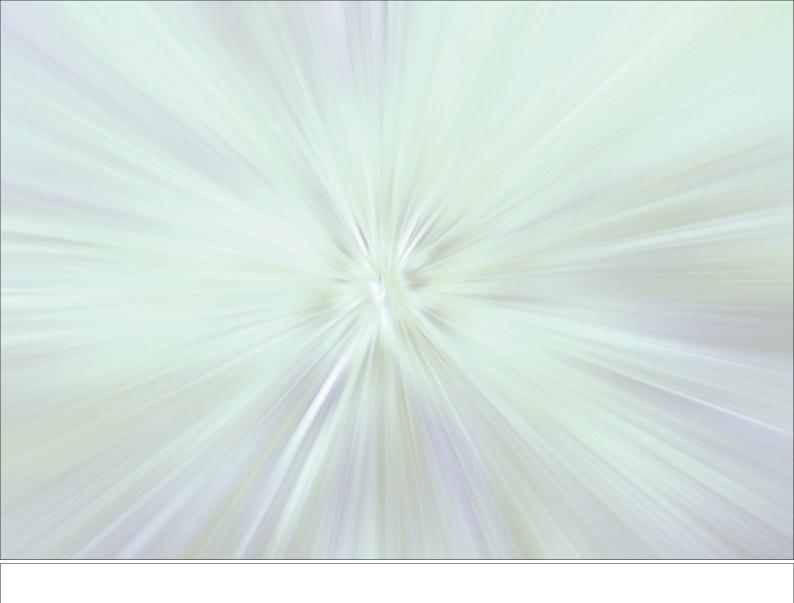
Mixing colour

Reflecting colour

Safety colour

Seeing colour - Animals

Seeing colour - Humans



Colour of light

The primary colours for paint are yellow, red and blue. When you are working with things that create light, such as torches, the three primary colours are red, green and blue. Yellow is not a primary colour of light.

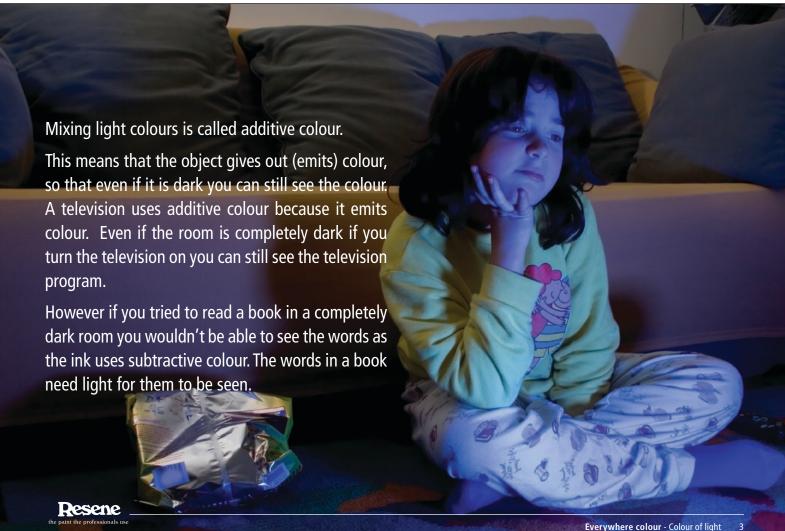


Mixing paint colours is called subtractive colour.

This means that the colour you see is the colour that the paint does not absorb.

For example yellow paint appears yellow because it absorbs all colours except yellow.



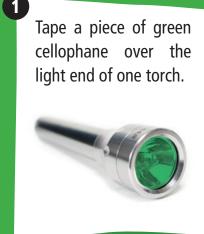


Try this!



You can test this for yourself. All you need is three torches and two friends.

Tape a piece of red cellophane over the light end of one torch.



Tape a piece of blue cellophone over the light end of one torch.



4 Everywhere colour - Colour of light



Turn the lights off or close the curtains as it will need to be dark so you can see what happens. Shine the three torches together onto a white piece of cardboard so the light from each overlaps.

You should end up with seven segments of colour – one segment with each torch colour alone (three segments total), one segment where each torch light overlaps the torch light beside it (three segments) and one segment in the middle where the light from the three torches overlaps. Record what colours you can see in each of the seven areas.

Try this again with the red and blue torches. Then the blue and green torches. Then the red and green torches. What colours do you get? These colours are called secondary colours of light as you have mixed them using two primary colours of light.





When you go to a concert you can see what looks like coloured cellophane stuck over the front of the large spotlights that are normally hanging from the ceiling. Show producers mix different coloured lights together to make the show look more interesting.

When they turn the various lights on and off it shines different colours onto the stage, some of them primary colours and some of them secondary colours where the light is mixed.