Lane Cove Creative Photography 2023

Essential Skills

Lighting Your Subject

Photography is literally "drawing with light", so understanding how to use and control lighting is critical for all aspects of Image making.

"I am forever chasing light. Light turns the ordinary into the magical." – Trent Parke Lane Cove Creative Photography 2023

Essential Skills

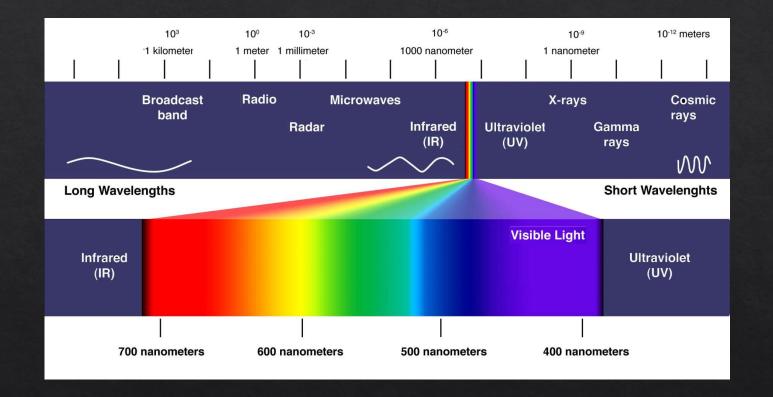
What is Light?

It is the visible part of the electromagnetic spectrum

It is the (very) small amount of that spectrum we can see

Light from the sun can be split into the spectrum of colours we know

What is light?



Lane Cove Creative Photography 2023

Essential Skills

Lighting your subject

- Types of light
- Characteristics of light
- Light modifiers
- Lighting techniques

Types of light

- Available light the light that is there
- Artificial light the light we bring along
- Supplementary light light added to other light

Available Light

Natural Light:

- Sun
- Moon
- Street lights
- Room lights







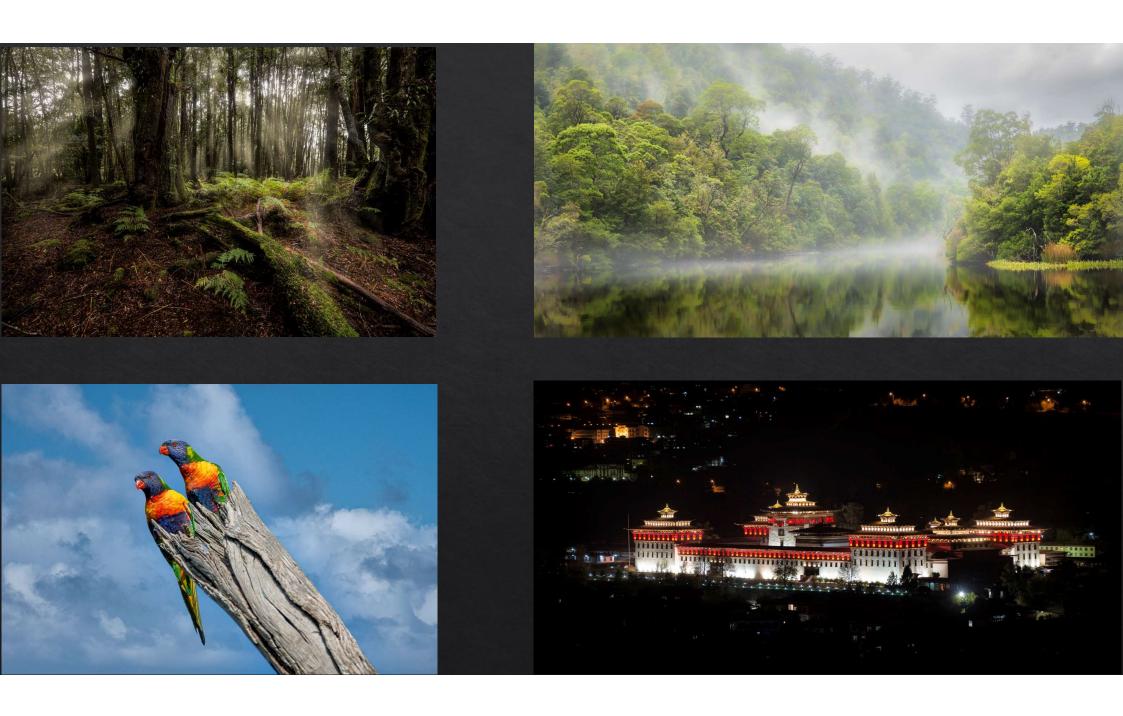




Natural light comes in many forms







Artificial Light

Introduced Light:

- Incandescent flood lamps
- LED photo lights
- Flash
- Torch
- Candle







Introduced light



Portrait using strong side lighting



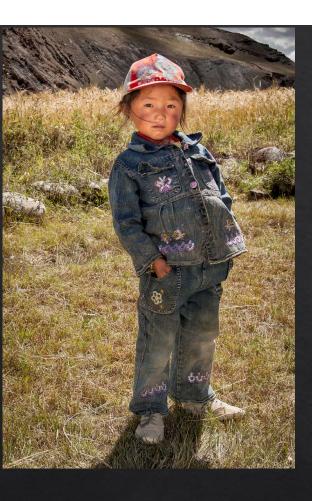
Supplementary Light

Supplementary Light:

- Reflector
- Fill flash
- Bounce flash

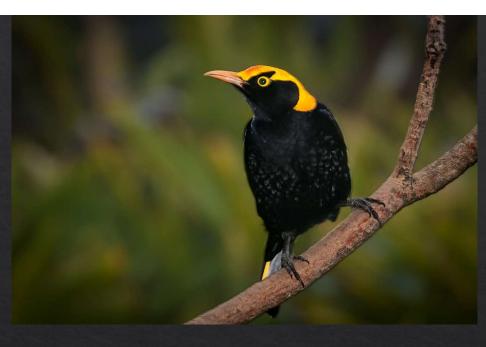






Fill flash









Reflectors, diffusers or bounce flash

LED lighting with coloured gels



LED lighting with coloured gels





Part 2 continues...

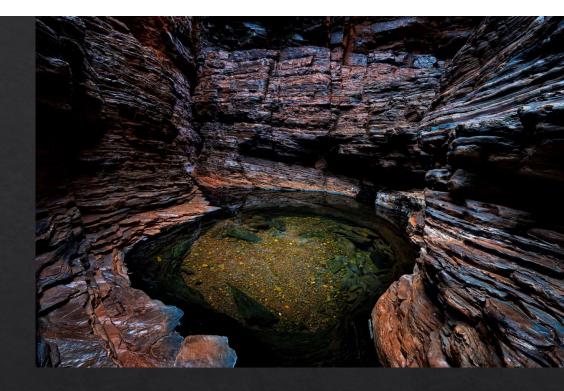
Characteristics of Light

Qualities

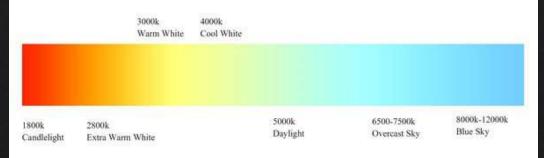
- Hue the colour of the light colour temperature
- Intensity
- Luminosity
- Direction
- Colour cast
- Light source point or diffuse
- Natural or artificial



The colour of the light - colour temperature – warm at the edge of the day and cool in the shadows.



Colour Temperature Chart



"Daylight" is normally 6500 Kelvin, but this is an overcast sky at noon, too blue for most uses. 5000K to 5500K is more "Natural"



Intensity – high in the middle of the day, low at or after sunset





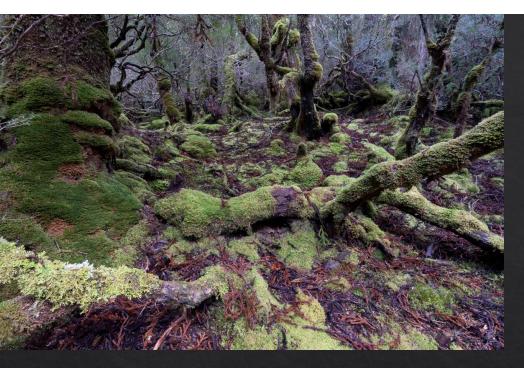


Luminosity and direction

The brightness is how much light there is

Direction is where the light is hitting your subject.





Colour cast – excessive differences in the colour of the light will fool the camera's auto white balance

Here the excess of greens has shifted the white balance into magenta.





Colour cast - early morning light is blue in areas not illuminated.

"Correct" colour is what looks right to you.

Light source – point or diffuse

Point source light (the sun) casts strong shadows Diffuse light through clouds or mist gives weak shadows







Natural or artificial light sources

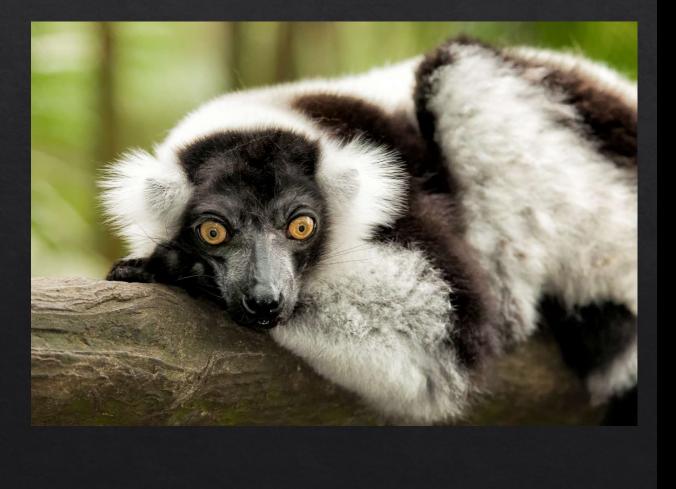
Artificial light has a colour cast – should it be "corrected"?



Light Modifiers

- Reflectors
- Diffusers and scrims
- Barn doors and cutters
- Flash fill or sole source
- Bounce flash
- Continuous light sources

Flash as only light source or as fill flash





Studio Flash with soft box attached and reflection from white walls



Lighting Techniques

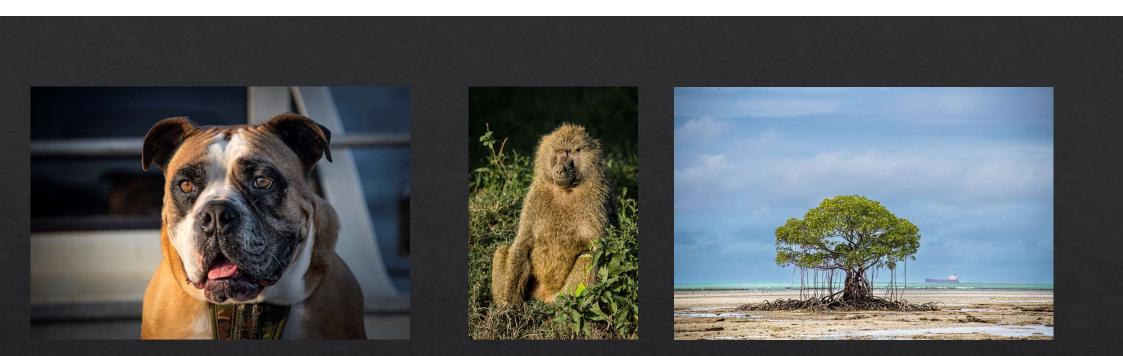
- Backlighting
- Backlighting plus fill flash/reflector
- Side lighting
- Side lighting plus reflectors
- Front lighting
- Top lighting
- Controlling flash
- Metering for different conditions



Backlighting plus fill flash

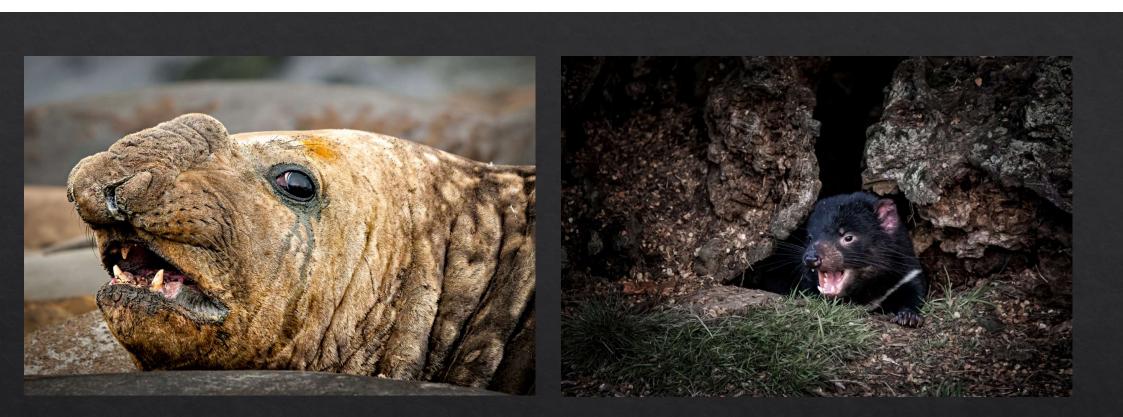


Backlighting

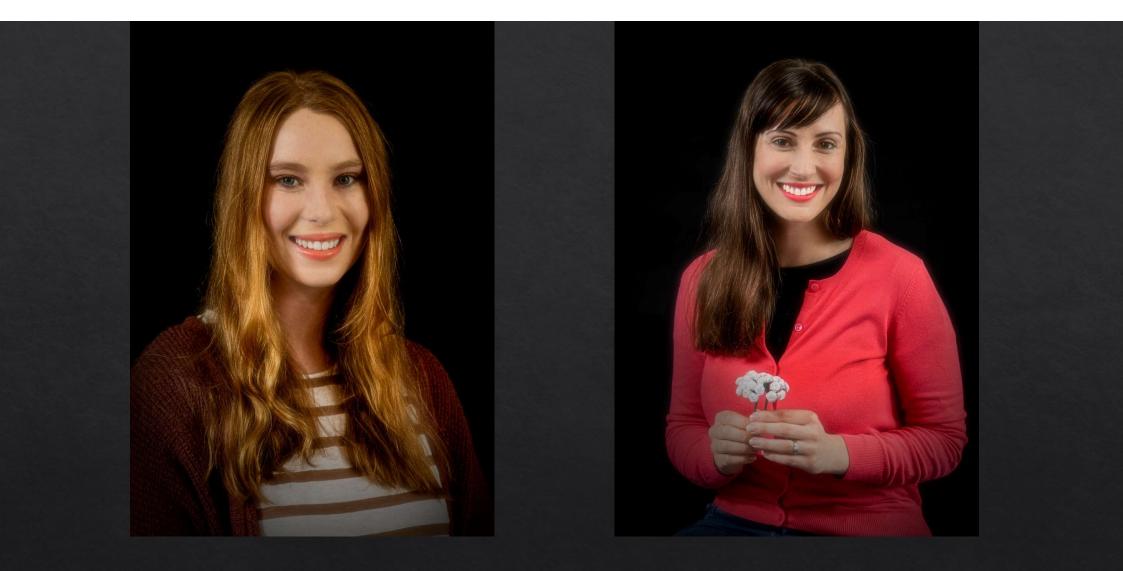


Side lighting

Top lighting



Front lighting



Formal style portraiture using two umbrella flash units





Background exposure – no flash



Balanced fill flash

On camera flash – flash exposure is controlled separately from background exposure – ideal for fill flash



Balanced fill flash – background underexposed





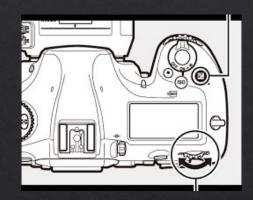
On camera flash and slow synch to show movement



Off camera flash – more flexibility for side and back lighting – controlled by the camera and background exposure measured separately.









Flash output is controlled separately from the background And

The only factor determining flash exposure is the aperture (provided you are within the flash sync range)

i.e. to change the background exposure – change the shutter speed only.

Exposure metering for different conditions



For "average" scenes use matrix or pattern metering



For back lit or subject matter with a dark background – use centre or spot. If using fill flash use matrix/pattern with flash compensation as needed

