

Lighting Workshop





W. Eugene Smith



Annibale Carracci
Pieta (1599-1600)



Caravaggio
Supper at Emmaus (1601)

Chiaroscuro

Chiaroscuro

(Light-Dark)



Rembrandt





As a man you're either
a love rat or marriage
lodder. That's how
women see it. I was
always the latter



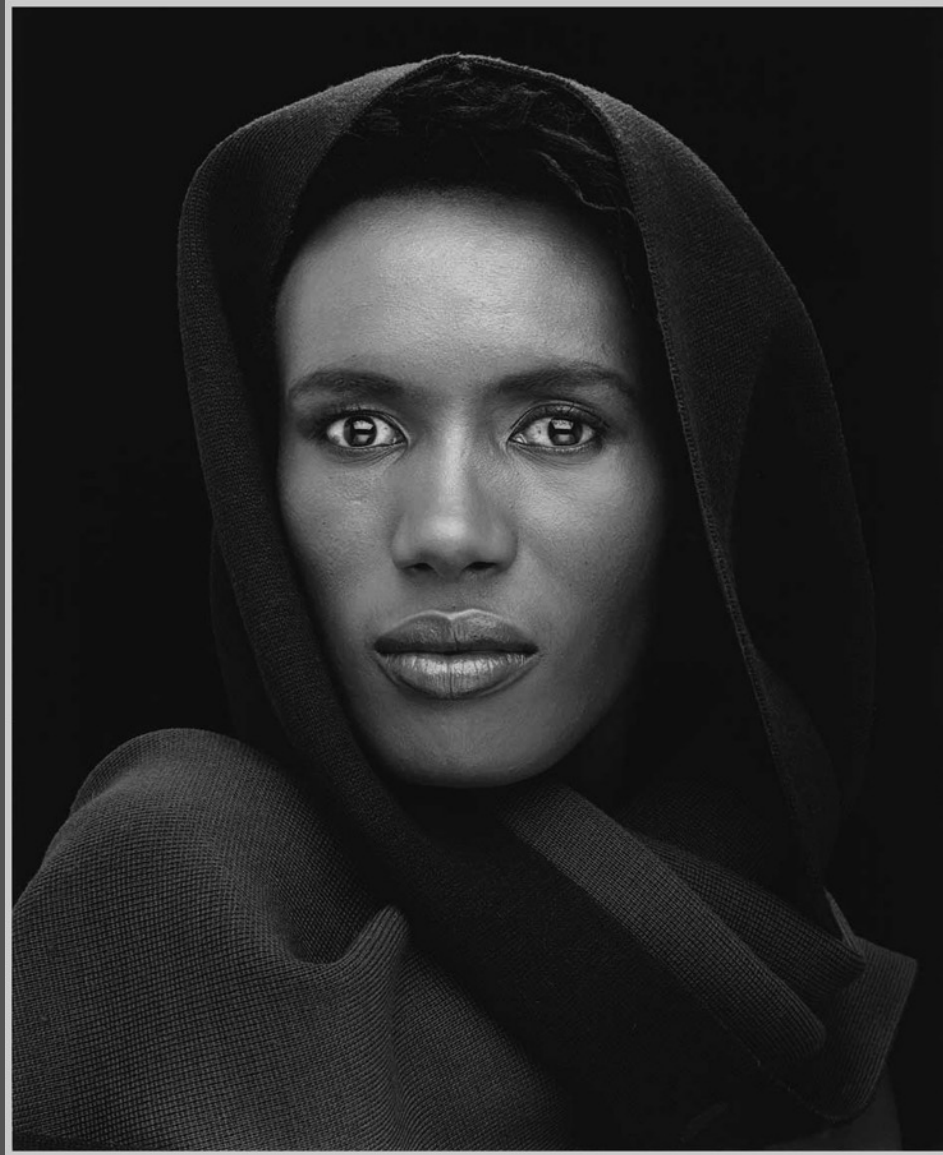
As a man you're either a love rat or marriage fodder. That's how women see it. I was always the latter

Diffused Highlight = Diffused Reflection

Specular Highlight = Direct Reflection

Shadow Area

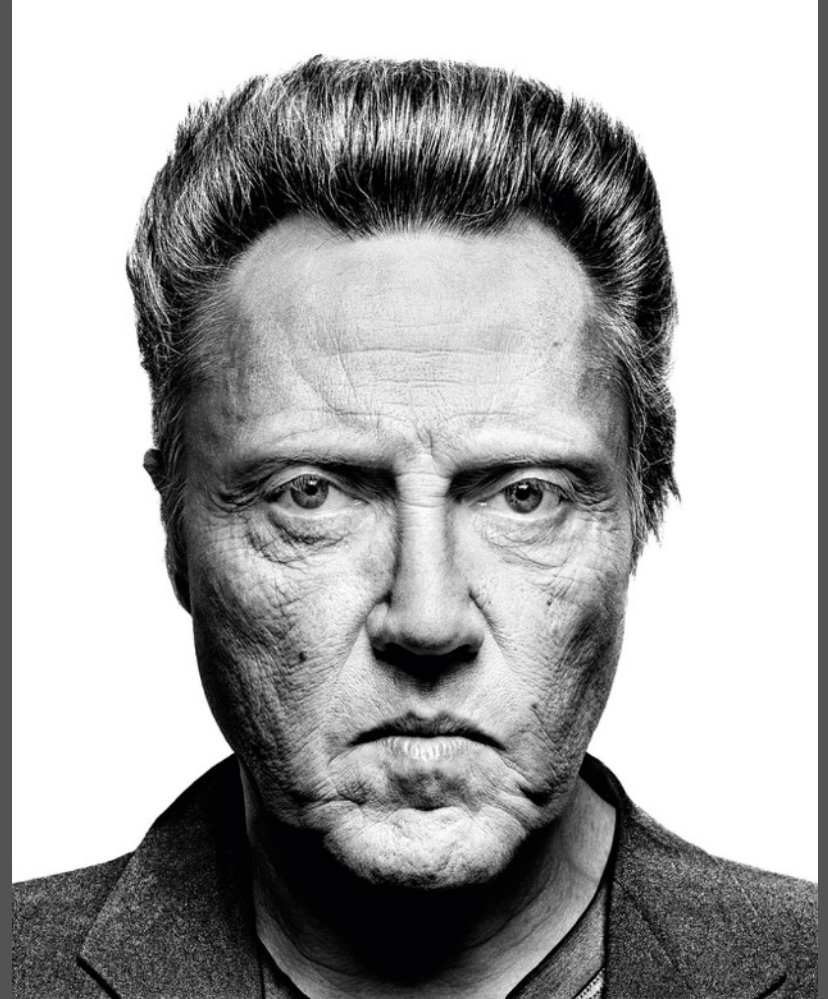
Diffused Highlight-to-Shadow Transfer Area



Robert Mapplethorpe

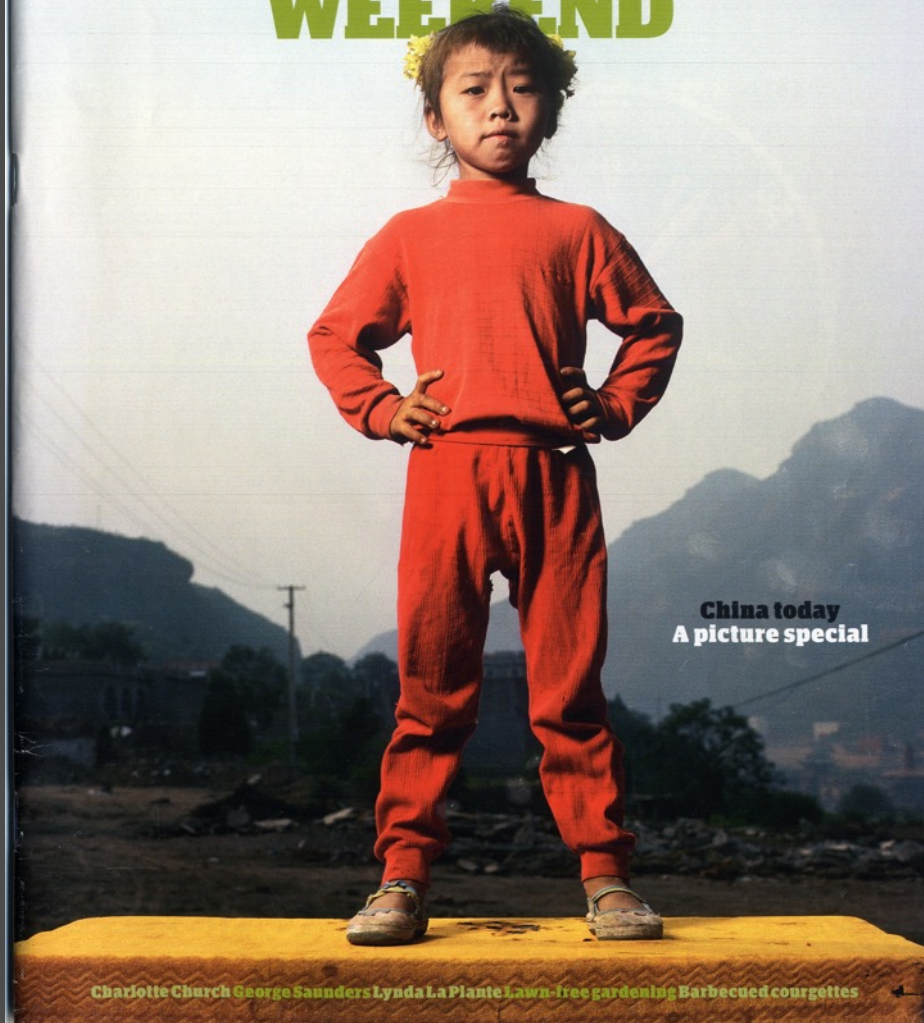


Gregory Heisler



theguardian 05.07.08

WEEKEND



China today
A picture special

Charlotte Church George Saunders Lynda La Plante Lawn-free gardening Barbecued courgettes

Chen Liqin gathers up
chillies left to dry in
the flat desert of Gansu
province; they will
be used in cosmetics





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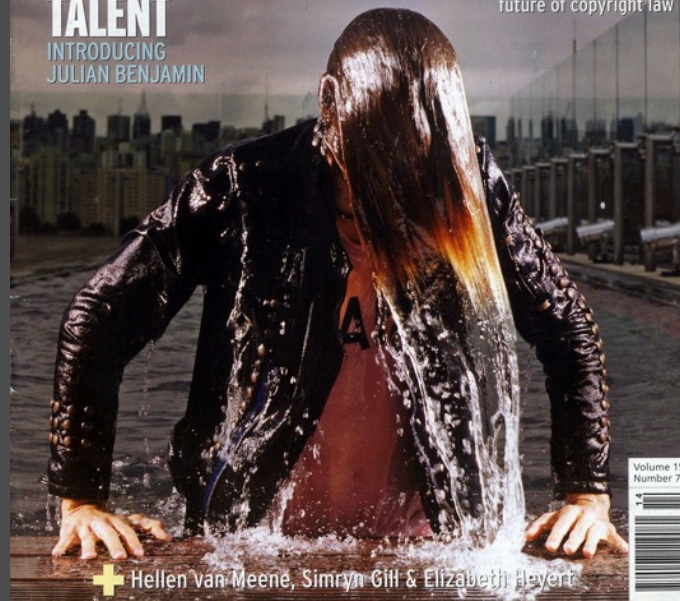
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+ Hellen van Meene, Simryn Gill & Elizabeth Heyer

Volume 153
Number 7577





Julian Benjamin



Murdo Macleod



Gregory Crewdson



Gregory Crewdson



Martin Parr





Paul Reas





Anna Fox



Rineke Dijkstra



Diane Arbus





Bruce Gilden





Larry Fink



Dougie Wallace

Dougie Wallace





Richard Billingham



Philip Lorca DiCorcia



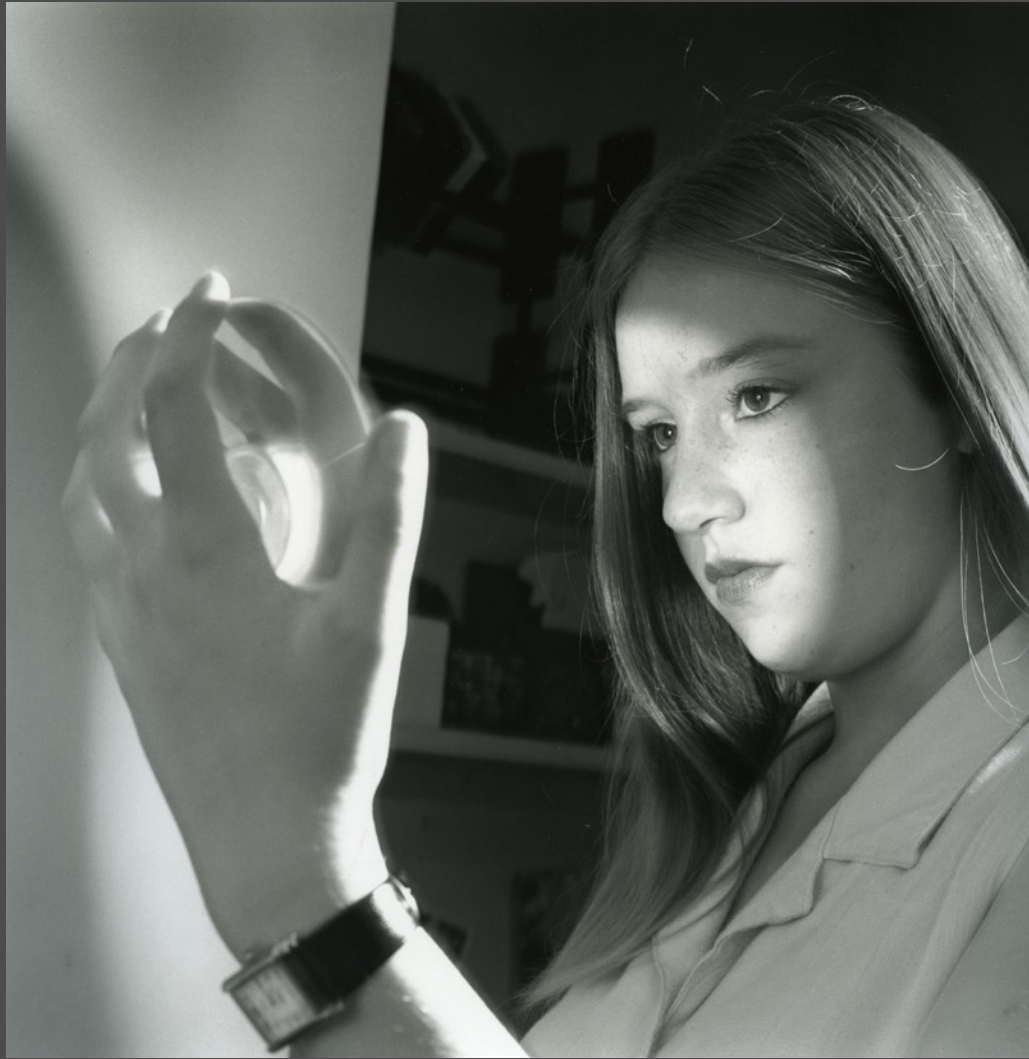
Philip Lorca DiCorcia



Philip Lorca DiCorcia



Thomas Ruff



CARLA LANE'S BEAR

Carla Lane, 60, is our foremost female comedy scriptwriter, responsible for *The Liver Birds*, *Butterflies*, and *Bread*.

"I got this little bear, called Mr Bear, when I was 10 years old. He sits in my kitchen and every time I look at him he reminds me of an

idyllic country childhood when we played in haystacks and adored nature. My first puppy adopted him and flung him in several ponds so he's a bit battered now. If only the world could be like it was when he was new." **S**



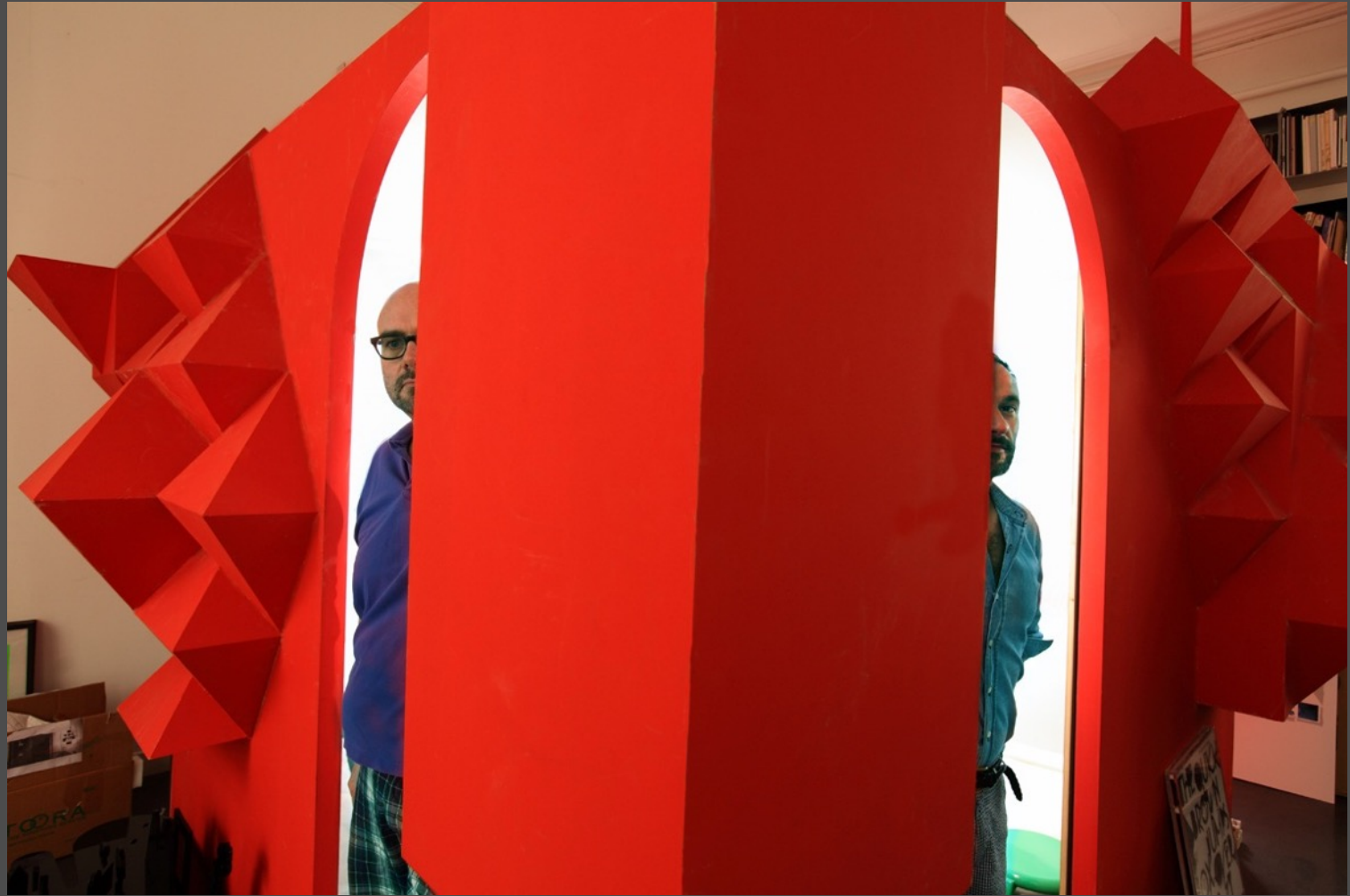
Carla Lane with her faithful bear that brings back memories of an innocent childhood



Paul Duerinckx

Dress rehearsal: recovery nurse Cathy Walsh, part of a mobile emergency team from Kent and Sussex Weald NHS Trust, keeps her wits about her during a mock traffic road accident at Tunbridge Wells Fire Station last week









A workbook with detailed notes and diagrams of lighting set-ups, demonstrating an understanding of each session

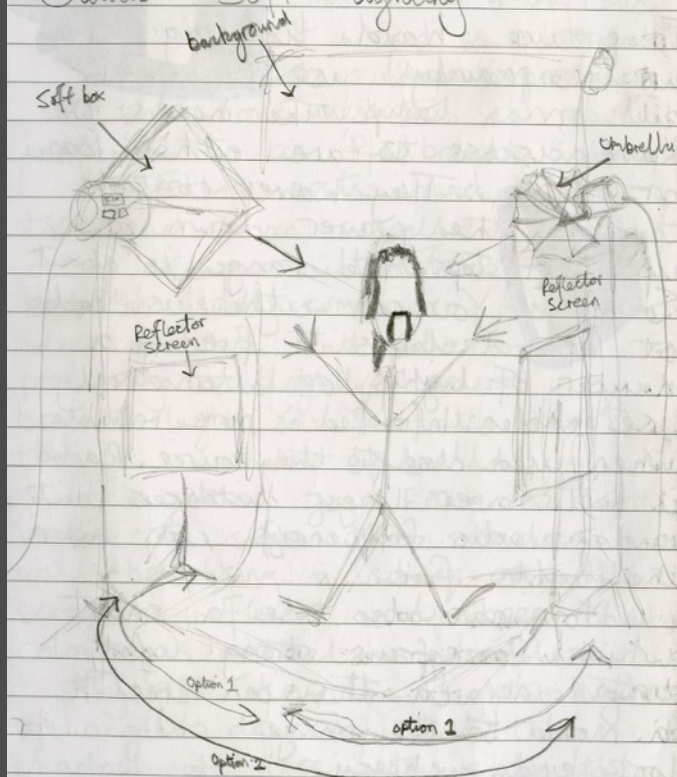
Analyse or 'reverse-engineer' a range of found images that use lighting in differing ways

Include at least one lit studio portrait you have taken*

Include at least one lit location portrait*

* Given that there may be a significant demand for location equipment and studio bookings, it may be an idea to work in teams

Studio - Soft lighting

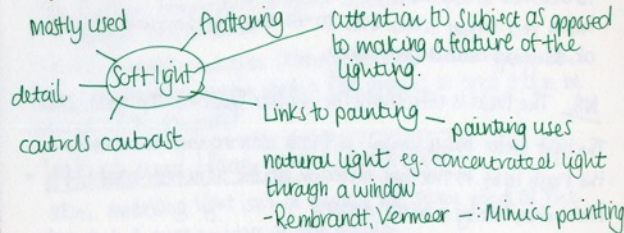


If you want to have soft areas of shadows on one side of the models face you can use one lamp fitted with either a soft box or umbrella. It can be positioned either side of the model. You could also use 2 lamps and set one light at least 2 stops higher or more to achieve directional shadows. If you want to have flat lighting you position the light directly in front of the subject. You should try and use softboxes, and other lamps and reflector screens as close to the model as possible. Also try and angle lamps downwards on a model so that the shadows are less intrusive. Sometimes you get a distracting shadow under the chin, you can use a reflector screen or lower light to get rid of this.

Session Two - Soft lighting

(21/02/2008)

Notes from second session...



To start, use one light at a time, then ADD. Don't start with lots of lights.

Soft lighting incorporates using - brolies, soft boxes, bouncing, reflecting light.

Umbrellas



Silver more specular - more reflective, silver brolly is harsher.



White white brolly is less harsh and slightly less reflective than silver brolly.



Gold Gold brolly warms the subject.

The bigger the umbrella or soft box the better.

The closer to the subject the light is, the softer the light. If the source used for soft box (eg. 1.4m) if the light is brought further away than 1.4m, the light will get harsher.

Usually used just out of shot: the softer you want the light, the nearer you put it to the subject.

Used for fashion and beauty

Thomas Ruff good example of this lighting.

Make sure the lighting is equal either side power wise.

Use the two lights that have the same power

eg. 2 x 500 DX
2 x 1000 DX } easier!

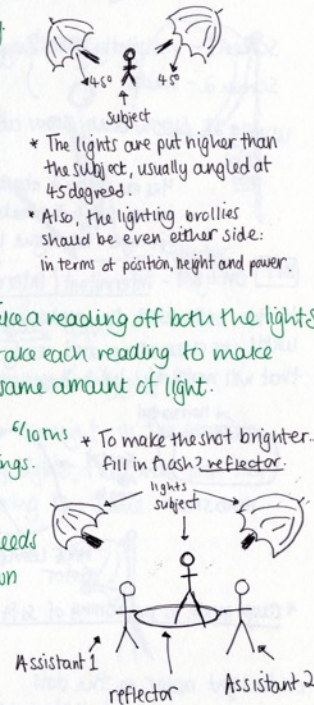
Take a reading off both the lights...

The cell button to check - take each reading to make sure they are emitting the same amount of light.

eg. F11 + 3/10ms F11 + 4/10ms
= roughly the same readings.

* To make the shot brighter...
Fill in flash? reflector.

When taking a shot, you'll be able to see if one side needs more - eg. take one light down a few stops if the shot looks uneven.



Anna Fox (1961-)

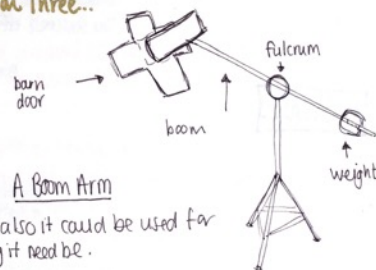
I first came across Anna Fox's work a few years ago with her body of work titled 'Workstations'. The work was made in a response to life under Margaret Thatcher and focuses on office life in London in the late 1980's. The images (as the one below shows) are very grain and share a similarity with this very detached documentary style - Martin Parr is another photographer who uses this harsh flash lit saturated colour. In a contrast to the image below, the image above shows how black absorbs the light resulting in a much 'flatter' picture.



Session Three - Hard Lighting

(28/02/2008)

Notes from Session Three..



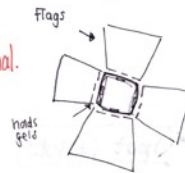
A Boom Arm

Used for high lighting, also it could be used for very low level lighting if need be.

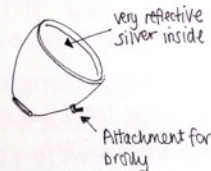
* Light Shapers... Restrict the angle or view of the light..

Barn Doors

These are used to make the light more directional. Quite crude lighting. Used in films as a continuous light source. Red heads come with barn doors as standard.



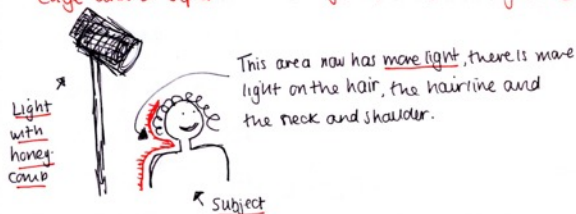
Spill Kill



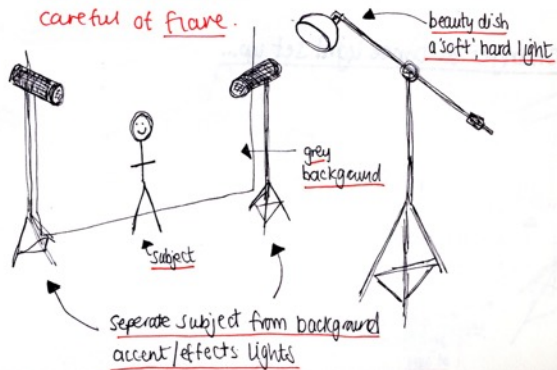
The highly reflective silver inside reflects light to the umbrella. A spill kill is more specular and harsher than a barn door.

* Reasons for altering the three light set up -

The light to the left was moved back and rightened, which made the angle more extreme. This was done to make the light falling on the shoulder brighter, and to highlight the back of the neck and hairline. This gives the effect of giving more definition to the edge and to separate the subject from the background.

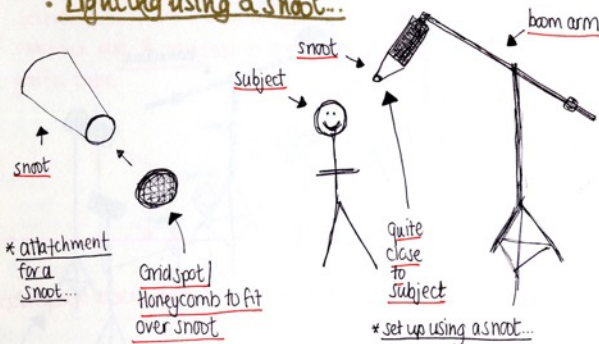


NB. Now that the light has been moved, the light is getting closer to the lens axis: due to this, we need to be careful of flare.

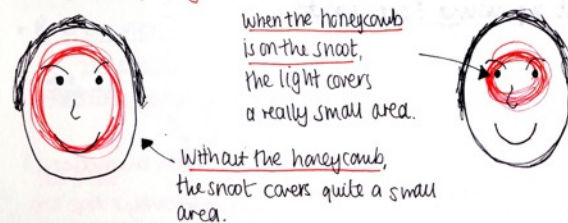


* This is the same set up as before - with the honeycombs etc. By doing this, a clear line is created around the shoulder and t-shirt. As the T-shirt is a really similar colour to the background, the accent lights help to separate the subject from the background.

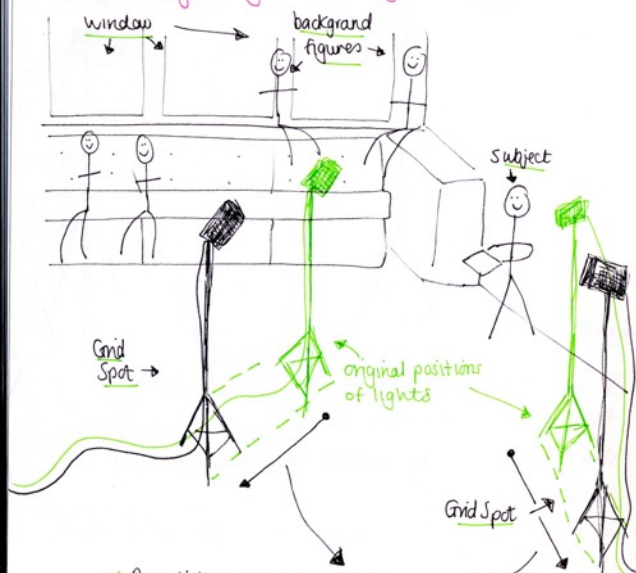
* Lighting using a snoot...



The honeycomb that fits over the snoot, this will direct the light even more closely. By putting the attachment on, you lose a bit of light again - nearly one stop of light.



* The next shot was the same set up as before, the only difference being that the lights were moved a bit further away from the models to give a wider coverage of light and a higher contrast.



* Both lights were moved back roughly two metres to give a wider coverage of light and also a higher contrast.

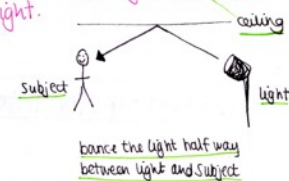
NB: The lights are set at 5600 degrees Kelvin.

The images could appear green due to the fluorescent lights

* To get natural looking effects using flash, you would bounce the lights *

Bounce the lights off the ceiling. Use two lights to pretty much cover the whole room. If you used a spill kill, you may get a harsh light and catch the top of the subject with the light.

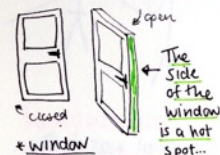
→ The angle of incidence and angle of reflection



When bouncing the light, take the grid spot out.

The first shot with the bounced flash was at f11 @ 1/25th sec.

There may be an issue of a hot spot on the corner of the open window - if you get reflections, open the window!



NB: One of the problems with bouncing flash is that there's a tendency to get a dark shadow under the brow - RACON / PANDA EYES!

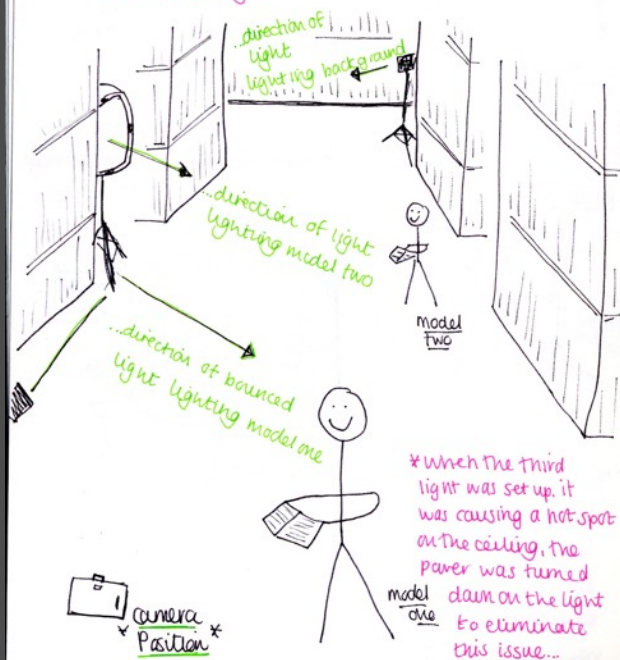
To solve this... Use a reflector

* using a reflector to get rid of Panda eyes...

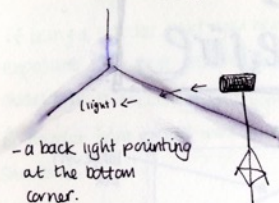


• Using three lights...

To light up the very back of the library which forms the very back of the photograph, a third light shall be used, in a similar way to using the soft box to light model two which was coming from the left, the third light will come from the right.



* close up of third light:



Shot at a 60th sec @ f8.

...To reduce the appearance of three pools of light from the three lights, the next shot was taken at a fifth of a second at f8.

• Another set-up in library

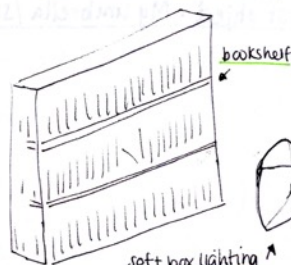
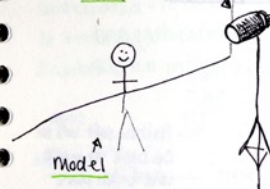
This was an alternative shot in the library,

another way of doing this would be to use a third light to put behind the model - this would separate the model from the background... creating greater depth.

* shot taken looking through bookshelf



grid spot lighting model



soft box lighting the bookshelf



These were the first experiments with the light - the image above was our first attempt but the light was too bright as my top and the book on the top right of the frame - it was blowing out.



The photograph to the left shows our correction of this - we turned the panel down which has resulted in a correctly exposed image.



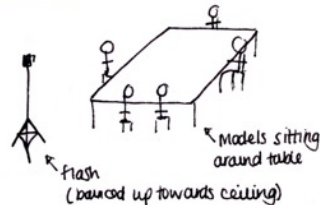
NB: Because flash only has full stop control, it would be better to change the aperture. it will allow a finer change

* If you are only using one light and want fill-in flash...

- can use windows - get the light coming in. Take an ambient light reading eg f8. make sure ambient shutter speed is 1/11 - get one stop fill in from window light.

* 5 people sitting around table

Bounce light up to ceiling.
Change zoom setting to 35mm. Zooming - increasing the intensity of the flash.



* Inverse Square Law *

move light around.

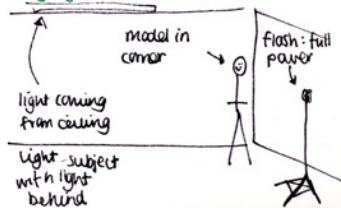


same with this.

* f16 1/500sec.

To avoid shadow under chin and eyes, use flash on camera. Use TTL flash for light on camera. If too bright, can use 'flash exposure compensation'.

Like in the studio where we experimented with Key lights and fill lights - it's the



walking towards flash...

Figure walking towards flash on first curtain Synchronisation.

Now do it on second curtain Synchronisation.



* 1st curtain Sync.

* 2nd curtain Sync.

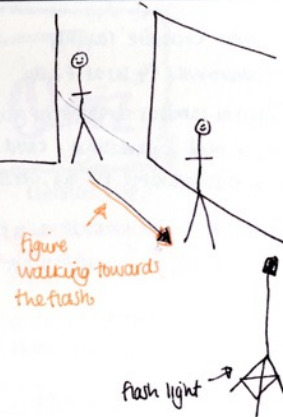
* Open flash (another off camera flash technique)

Setting camera up in a dark space. (Pauls Vetch Pictures the interior space)

Reciprocity Failure... The film's sensitivity decreases the longer the exposure - varies from film to film. To overcome this problem, you'd just bracket it - vary time eg. try 10sec 20sec 40sec } double time

* The same things happen with open flash - work out how many

f4	-	1 flash exp.	
f5.6	-	2 "	double
f8	-	4 "	
f16	-	8 "	
f22	-	16 "	





flag
dominated
image



mix of
available
& flag light



mix of
available &
flag light
Increased flag
power
to cover wider
area



hard lighting



hard lighting



hard lighting



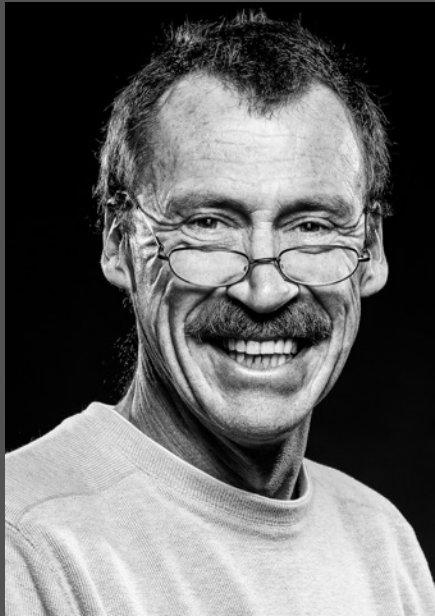
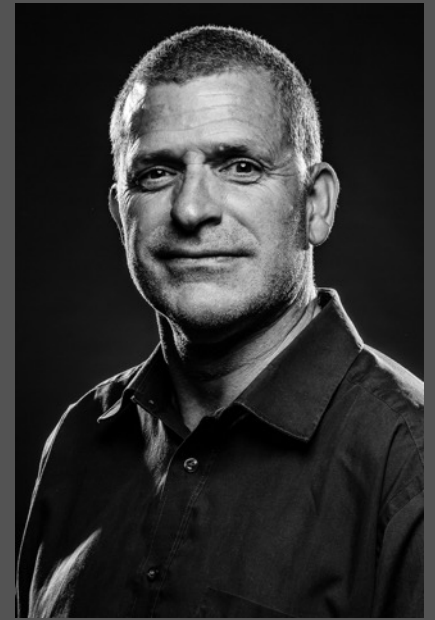




















































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Light | Science and Magic

AN INTRODUCTION TO PHOTOGRAPHIC LIGHTING

Fil Hunter • Steven Blver • Paul Fuqua



Lighting Workshop

