

# Diploma in Video

– Part 6



**Lesson 6**

**Fully Manual**

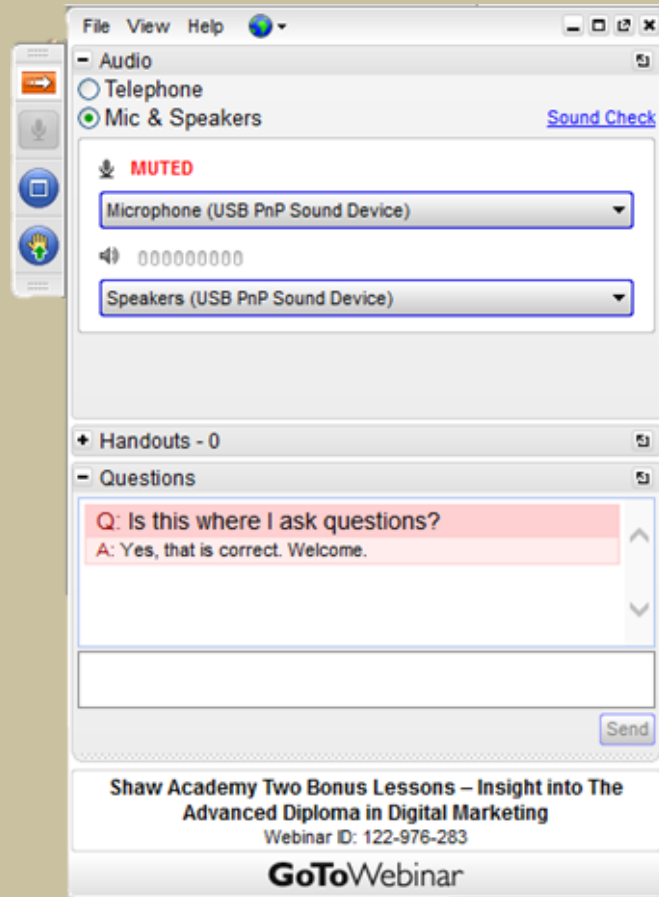
Presented by:

**Adam O'Reilly** Course Educator

F.E.T.A.C in Digital Media



# Webinar Interaction



- Chat box – Type responses to the Educator
- We will have a Q&A at the end of the lesson where you can ask questions



# Lesson 6

- Understanding Exposure
- Shutter speed, Aperture and ISO
- The Light meter
- Bringing it all together
- Q & A

AGENDA



## Why learn about these things?





- Creative Control
- High Quality footage





# VIDEO COURSE TOOL KIT

## INCLUDED:

-  Exclusive Starter Pack
-  Webinar Slides for every lesson
-  Summary Notes for every lesson
-  Bonus Videos

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**€19.<sup>99</sup>**

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# Course Competition

## Win a Shaw Academy Membership for Life



Ultimate Photography Programme



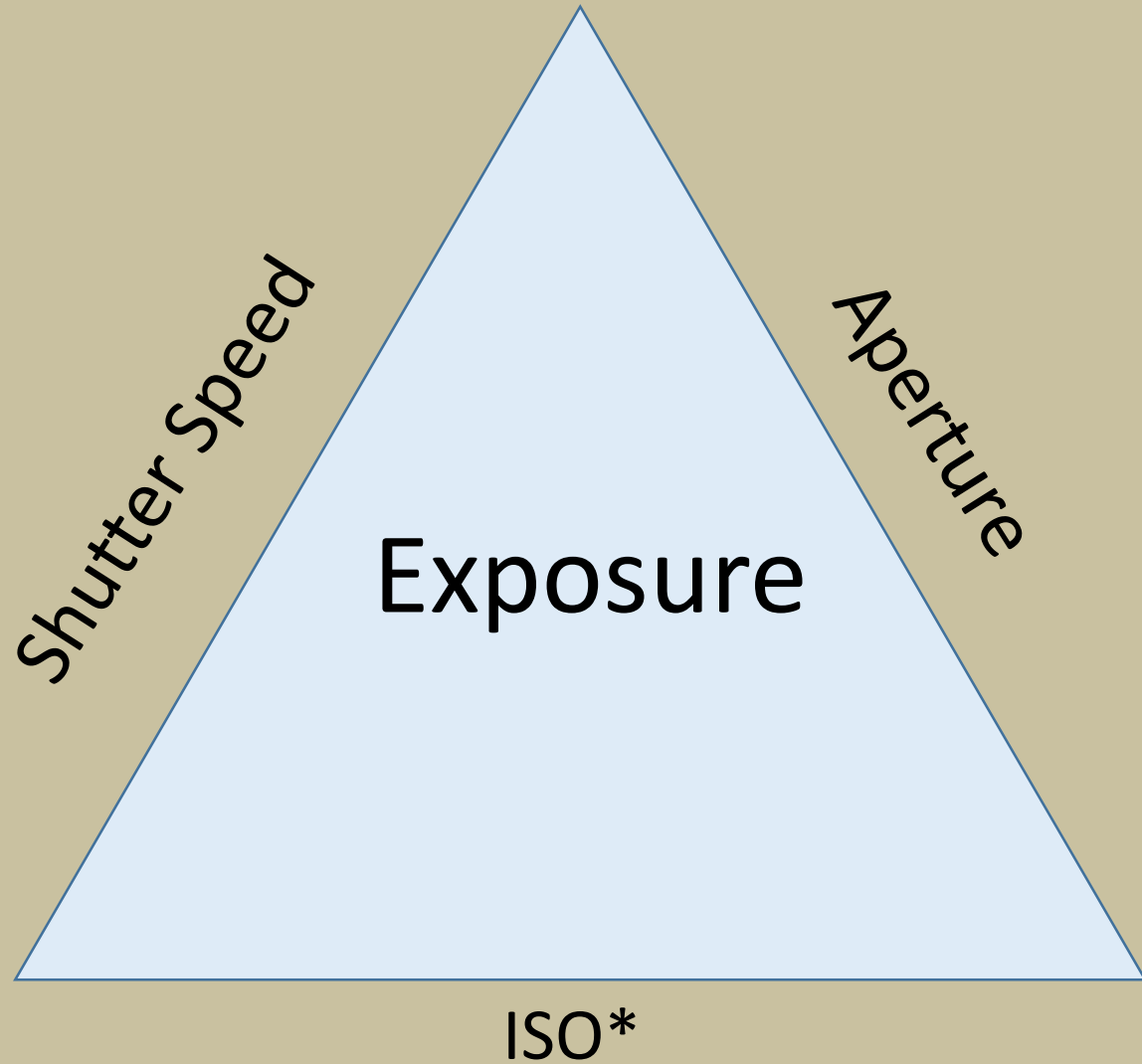
PLUS

Shaw Academy Membership



Winner will be announced at the end of the lesson

# The Exposure Triangle



Shutter speed  
+  
Aperture  
+  
ISO  
  
= Perfect exposure

\*also indicated as Gain or Db

What is exposure?

# Underexposed



# Correct exposure



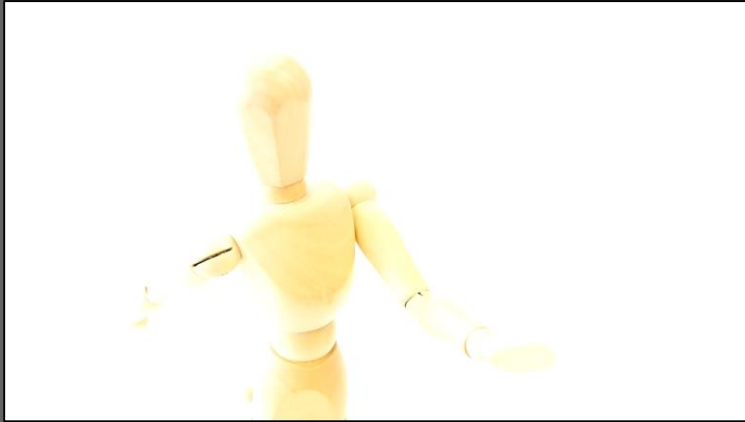
# Overexposed



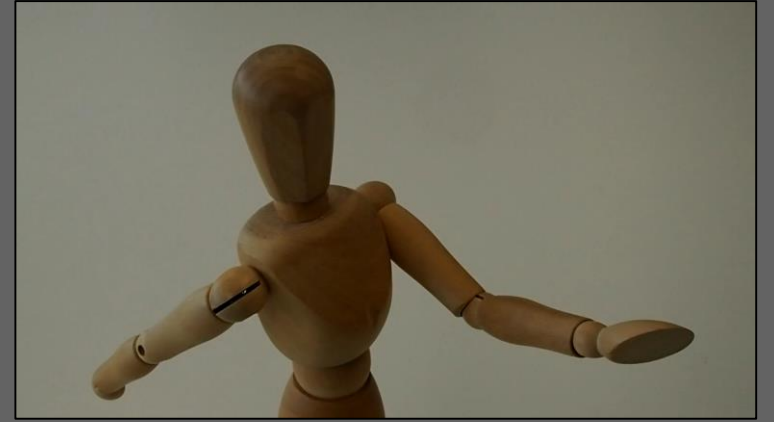




Correct



Overexposed



Underexposed



How do we judge the exposure?

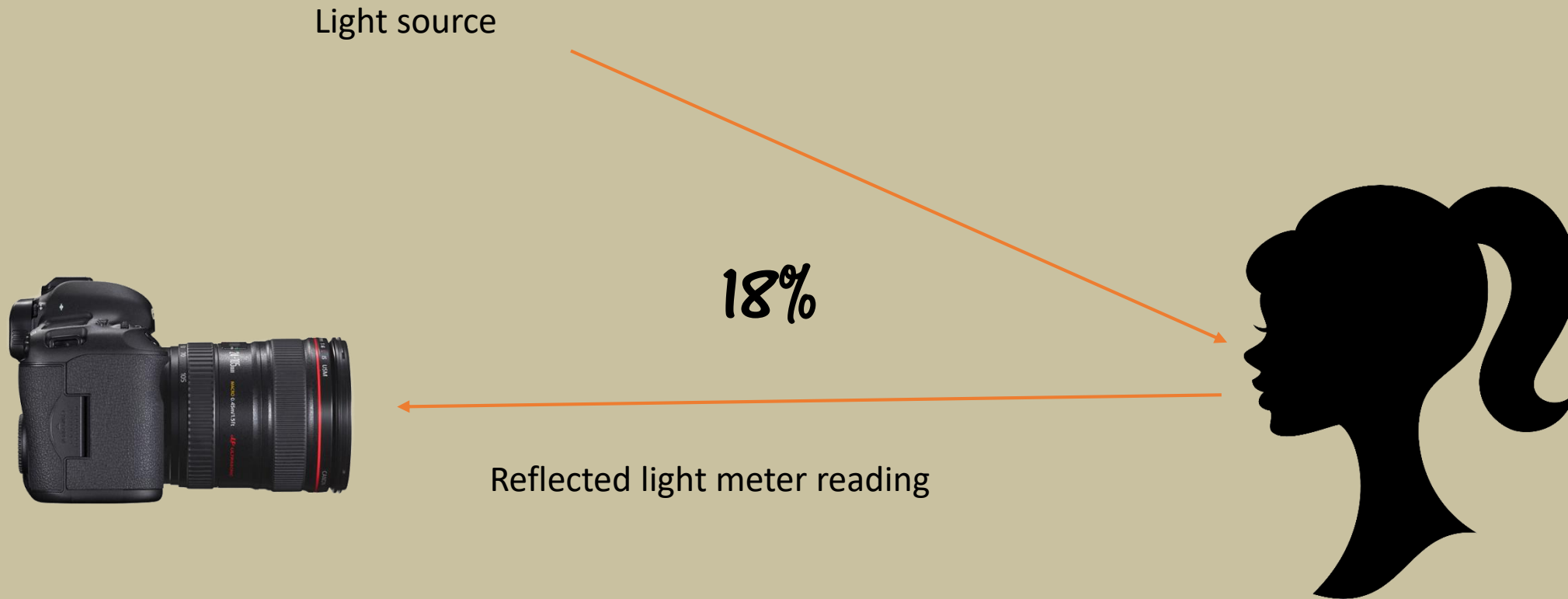
-2..1..0..1..+2



# Light Meter (DSLRs)



# Light Meter (DSLRs)



# Stops of Light

- A stop is measurement of light



# Stops of Light

- If we increase the exposure by a Stop we double the amount of light in the scene



# Stops of Light

- If we decrease the exposure by a stop we are halving the amount of light in the scene

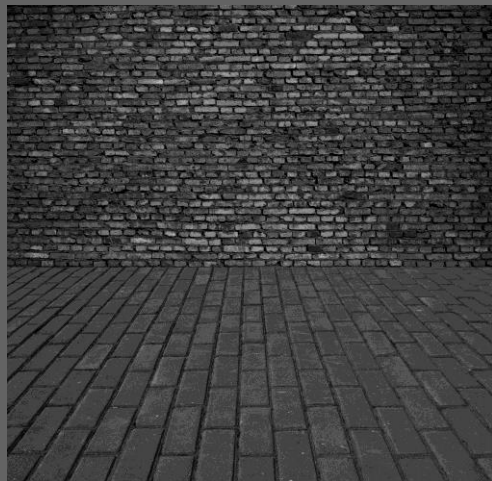




# Exposure



-2..1..0..+1..+2  
|



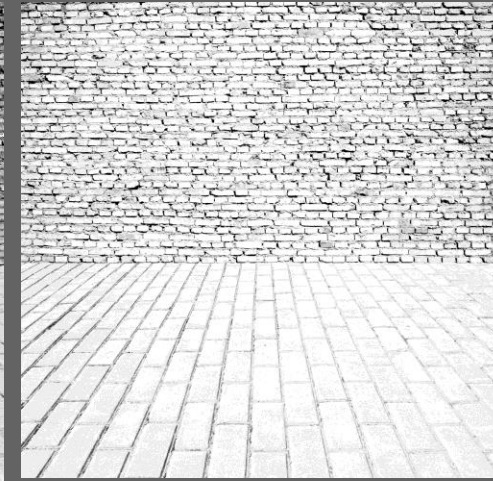
-2..1..0..+1..+2  
|



-2..1..0..+1..+2  
|



-2..1..0..+1..+2  
|



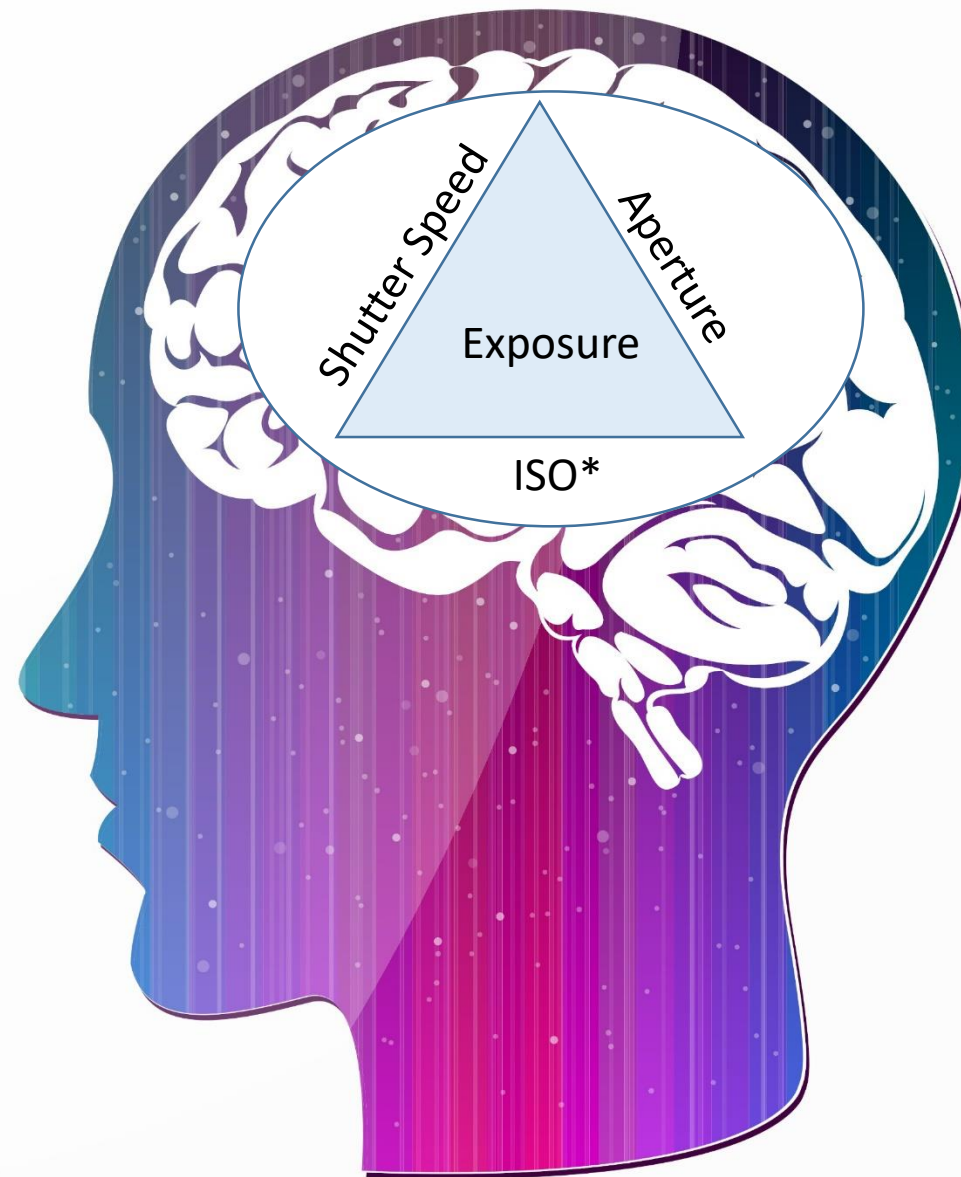
-2..1..0..+1..+2  
|

# Zebra Stripes



Credit: Tube shooter

# Exposure







# Shutter Speed

SHUTTER

# Common - Shutter speeds

1/500 1/250 1/125 1/60 1/30



Fast Speeds – sharp movement – less light

Slower Speeds – blurred movement – more light

Remember!

Shutter Speed Double your Frame Rate!



# Exposure – Shutter speed

Shutter: 1/160

Aperture: f22

ISO: 100

-2..1..0..1..+2



# Exposure – Shutter speed

Shutter: 1/50

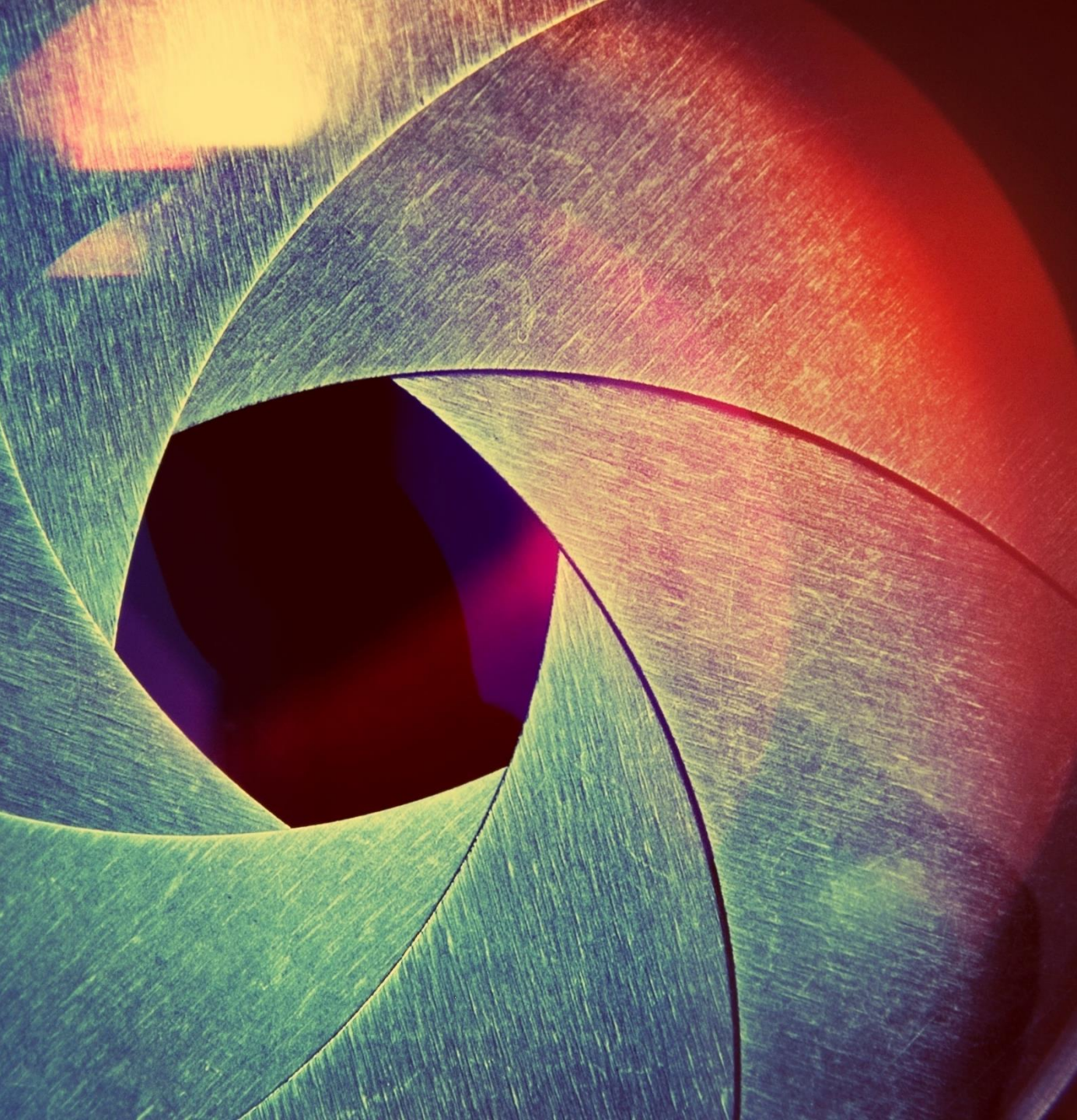
Aperture: f22

ISO: 100

-2..1..0..1..+2  
▲





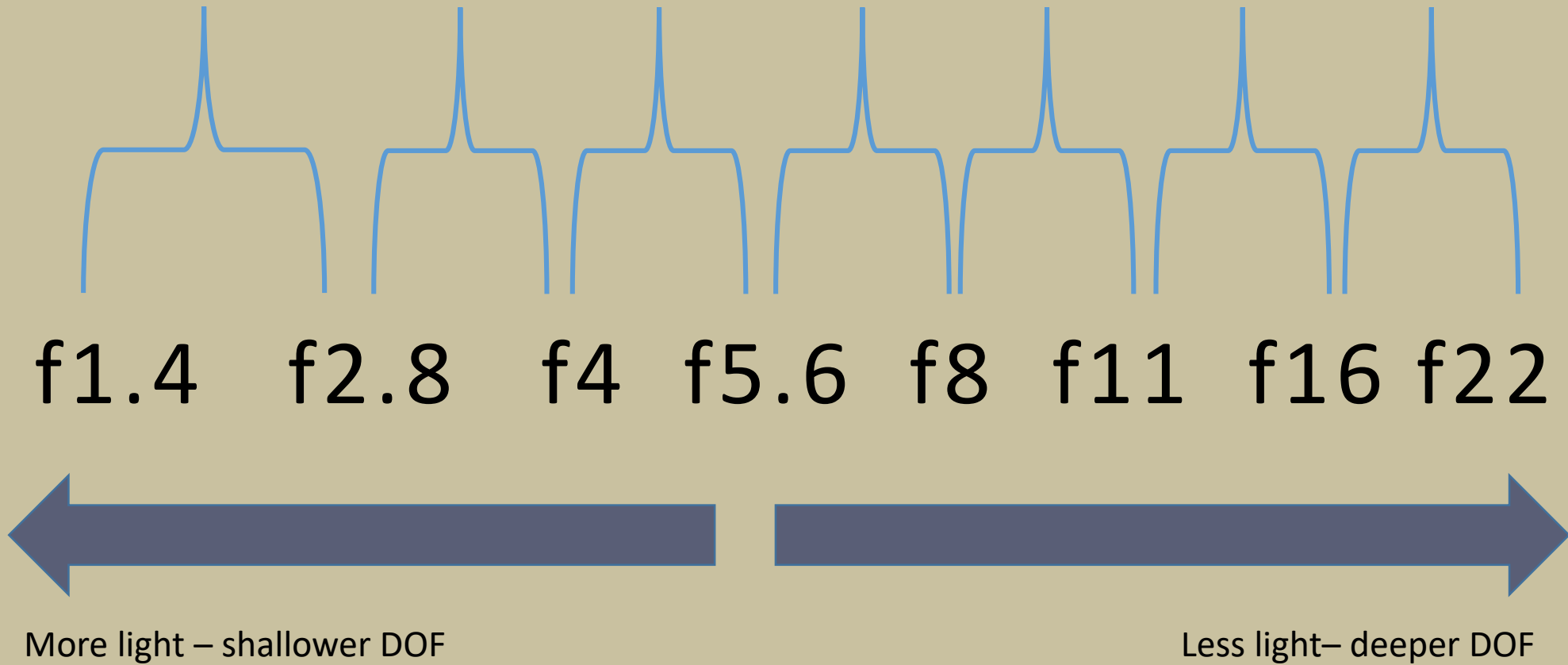


Aperture

# Apertures - Depth of field



# Common Apertures





# Exposure - Aperture

Shutter: 1/50th

Aperture: 1.8

ISO: 1000

-2...1...0...1...+2



# Exposure - Aperture

Shutter: 1/50th

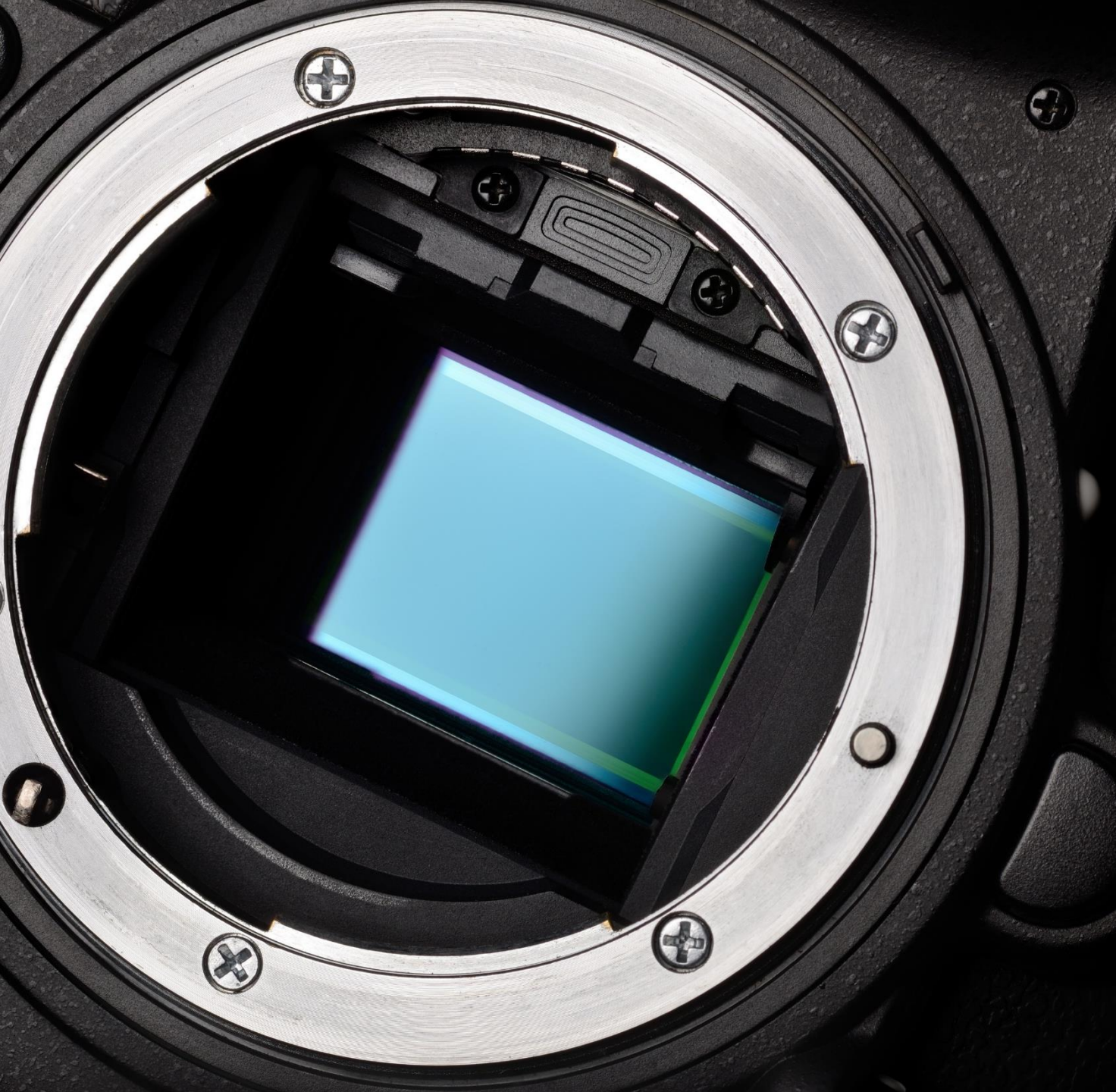
Aperture: 3.2

ISO: 1000

-2..1..0..1..+2  
▲







ISO

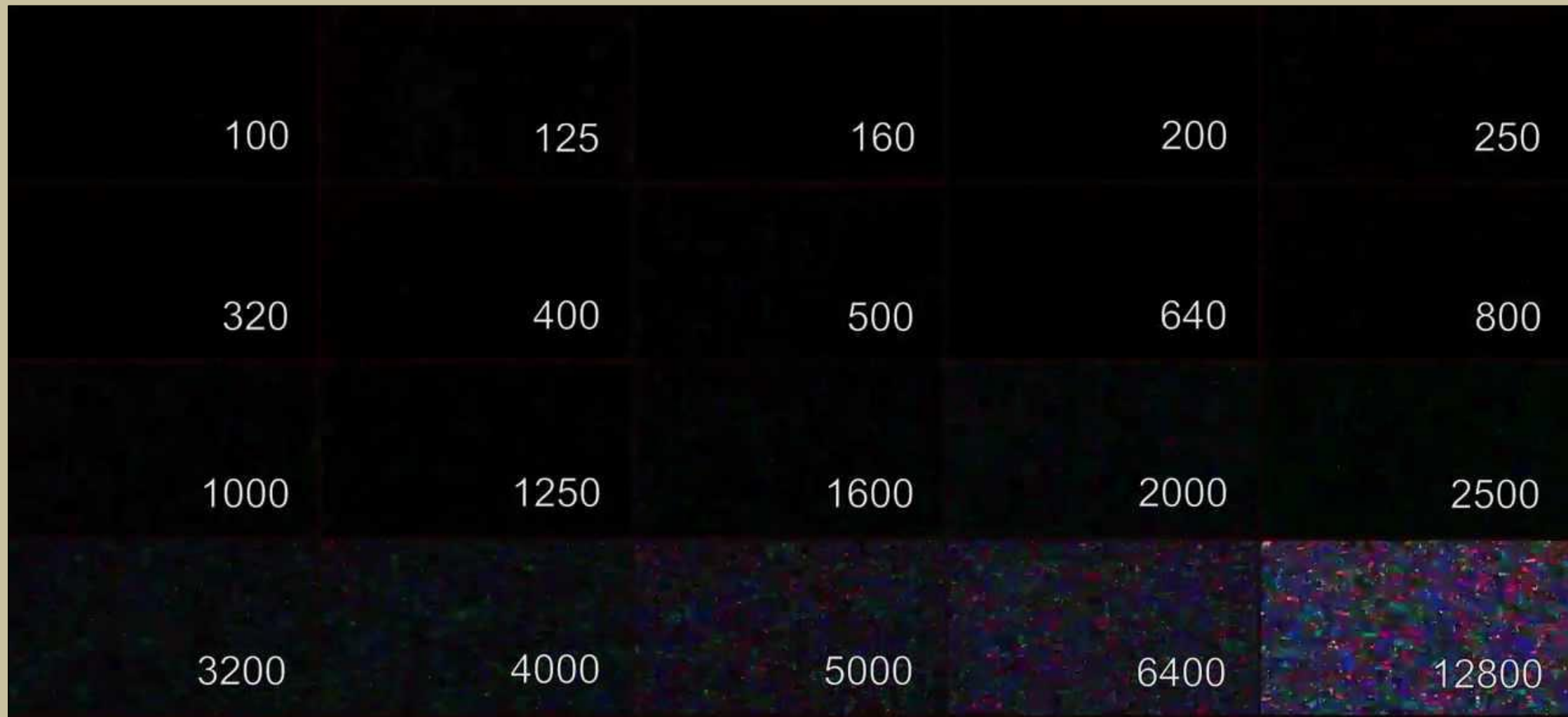
# ISO

## Common ISOs

100 200 400 800 1600 3200 6400



# ISO





# Exposure - ISO

Shutter: 1/125th

Aperture: f.11

ISO: 100

-2..1..0..1..+2



# Exposure - ISO

Shutter: 1/125th

Aperture: f.11

ISO: 400

-2..1..0..1..+2  
▲

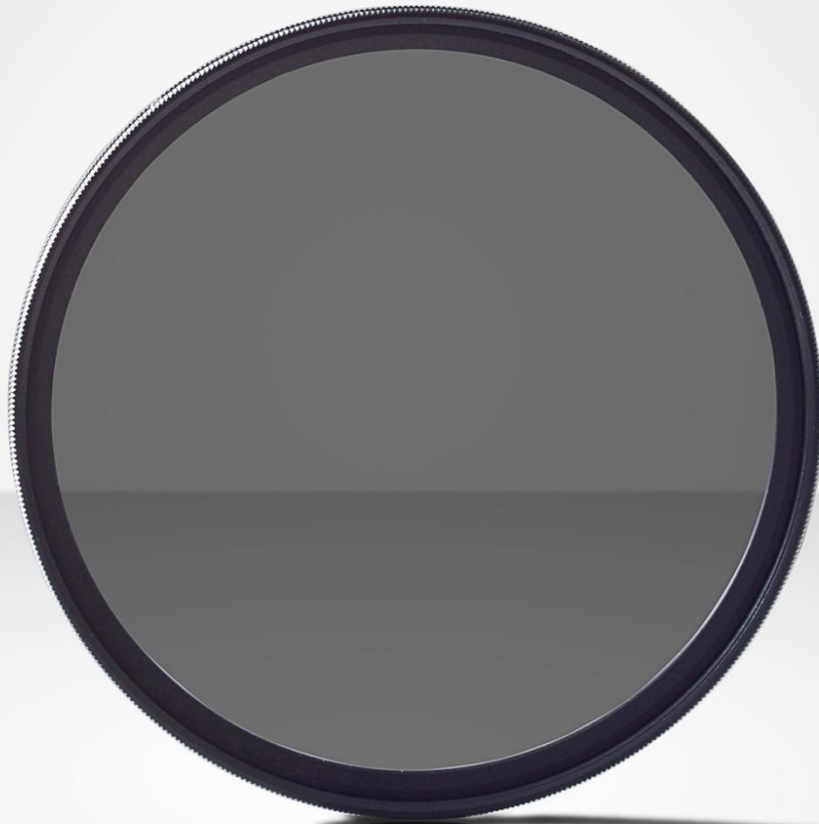


# Set up

- Canon 6D
- 85mm Prime f1.8
- Tripod
- Natural Light
- Shot 1080p & 25fps



# ND Filters





# ND Filters

- **Neutral Density Filter**
- **Reduce the light hitting the sensor**





# ND Filters

ND 2 Filter = 1stop

ND 4 Filter = 2 stops

ND 8 Filter = 3 Stops

And so on...





Variable ND Filters



Graduated ND Filters

# Considerations

- Practice, practice, practice
- Fully manual is all about compromise and balance
- Try use the lowest ISO you can in any given situation
- Don't be afraid of noise
- Learn to read light – imagine settings that you might use
- Underexposures are easier to save than overexposures!



# Summary

- Taking full creative control
- Exposure
- Understanding the light metre
- Filters



Competition  
Time



Lets have a look at the amazing prize one lucky person will win!!!



Ultimate Photography Programme

PLUS

Shaw Academy Membership



# Ultimate Photography Programme



**In-Depth Exposure Techniques**



**Master Flash/Lighting**



**Camera Raw Processing**



**Creative Black/White Photography**



**HDR/Macro**



**Advanced Lens Techniques**

**In Just 12 Short Weeks -You will be the Photographer you have always wanted to be!!!**



Advanced Video & Editing



Financial Trading



Digital Marketing



Photography



Nutrition



Graphic Design



Web Development



Social Media Marketing

Ps

Photoshop



Sports Nutrition

Lr

Lightroom



Blogging & Content Marketing



Mobile App Development



Wedding Photography



Weight Loss



Child Nutrition

# Shaw Academy Membership:

## Access to all Foundation and Advanced Level Courses



Investment



Beauty



Music



Coding for Kids



Psychology of Sales



Fast Track Business Success



English for Business



Cookery



Guitar



Bartending & Cocktail Making



Smartphone Photography



Diploma in Video



Career Advancement



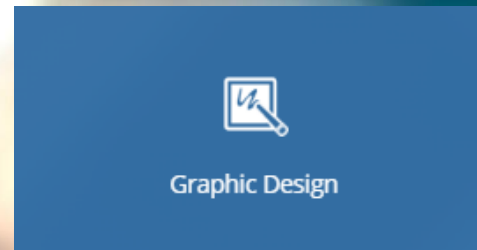
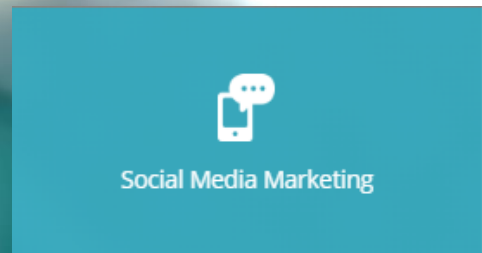
Web Design



Household Budgeting



# Master Your Photography Today



**Access to all Photography Courses + Access to all future courses**



And The Winner is...



# Shaw Academy Membership

## Regular Price

€99/Month - £79/Month - \$99/Month

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- ✓ Ultimate Photography Programme
- ✓ Access to all Diploma Courses
- ✓ Access to all Advanced Courses
- ✓ Recordings for all courses
- ✓ Free Toolkits and Diplomas
- ✓ Add 3 free additional users
- ✓ Unrivalled support on all courses
- ✓ Member discounts





# Shaw Academy Membership

**Special Announcement**



# Shaw Academy Membership

## Exclusive Discount

**60% OFF**  
Expires on Sunday November 13th

### Your Exclusive Price

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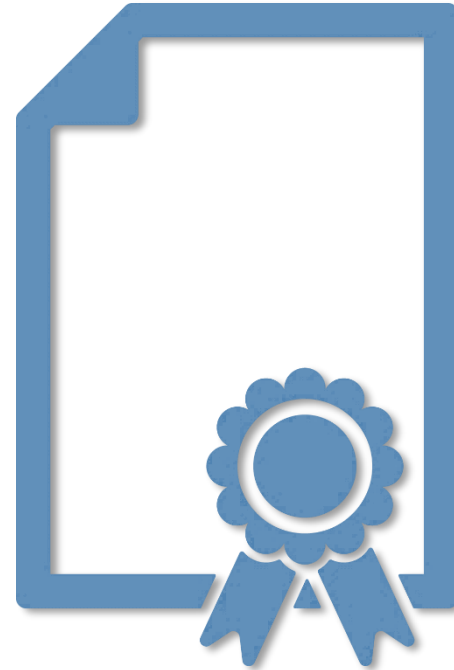


Household Budgeting

Complete Your Course

Free

Diplomas and Course Toolkits  
with Membership



Diploma



Course Toolkit

Normal Price **€40** per course



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**Consultation & Review  
by joining before Lesson 9**

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Expires on Sunday November 13<sup>th</sup>

## Shaw Academy Membership

€39/Month - £29/Month - \$39/Month

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Ross Silke

Amazing courses! Great people! Love the learning environment! Highly recommended and affordable! Anyone can learn at their own pace. I now have 23 different diplomas from Shaw and counting, lol.



Mandy Bonner

I've done the Foundation in Photography, the Advanced Photography and am now in the middle of the Photoshop course. I have loved each one and have advanced hugely in my photographic abilities.



Anastatia Faro

I am so glad I've made the decision to enroll in the foundation & advanced photography, graphic design, Photoshop and Lightroom course. I have learned so much in just a couple of lessons.



Simon Fletcher

I loved the foundation photography course so much I signed up for the ultimate photography program. As a result my photography skills have much improved so I am now taking photos instead of snaps.