

# Diploma in Photography

## Capture Pictures Perfectly

### Lesson 5

How much light  
is enough?



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15+ Years Experience



The Team

# About Us

# AGENDA



- Lesson Agenda
- How the light meter works
- Stops of Light
- How the light meter works in Aperture Value Mode
- How the light meter works in Time Value Mode
- Light Metering Issues
- How the light meter deals with light and dark tones
- Resolving exposure issues with exposure compensation
- Summary
- Course Interaction



Why is the light meter important?



Why is the light meter important?



Why is the light meter important?





Shutter Speed

Aperture

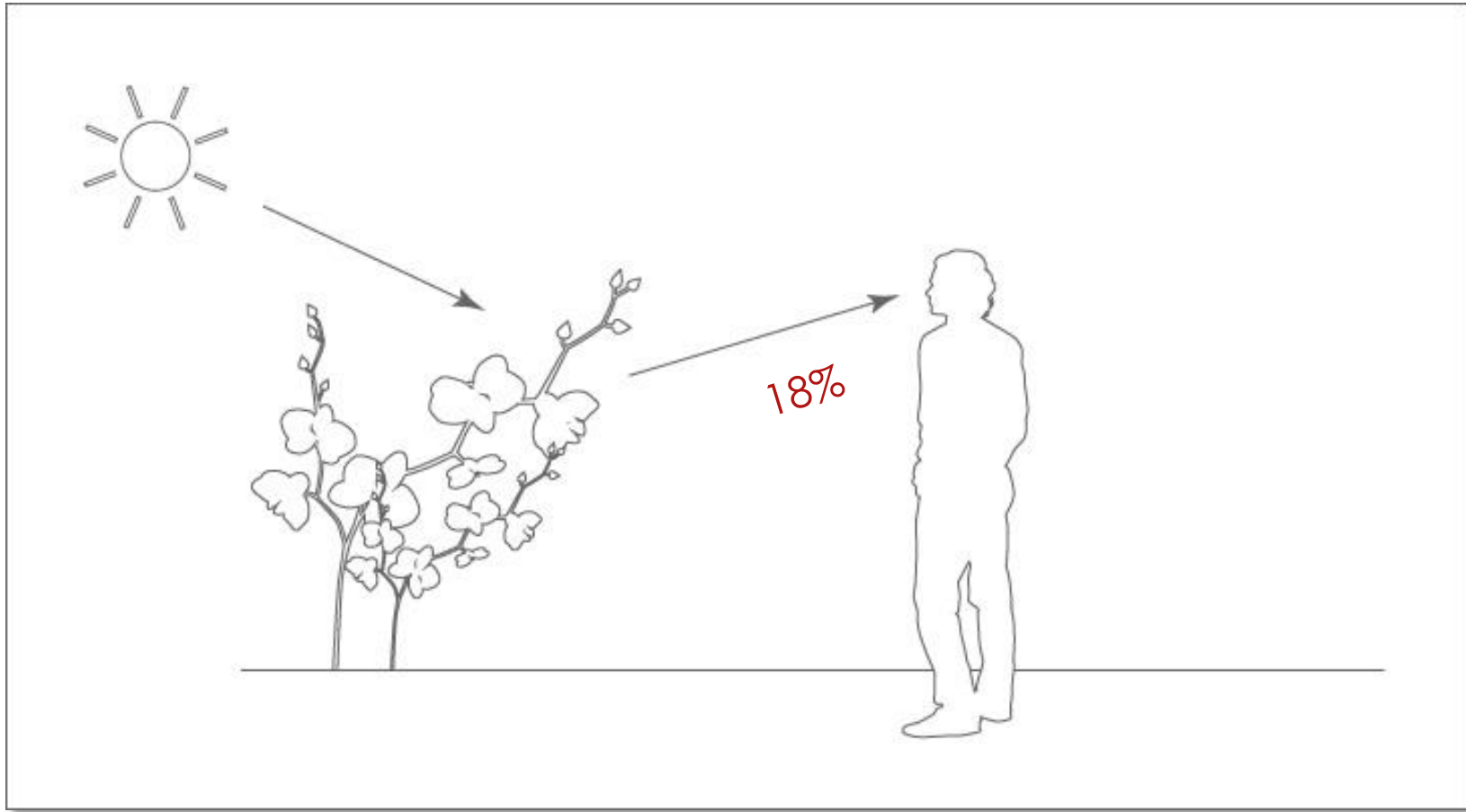
Light Meter



Program Mode (P)

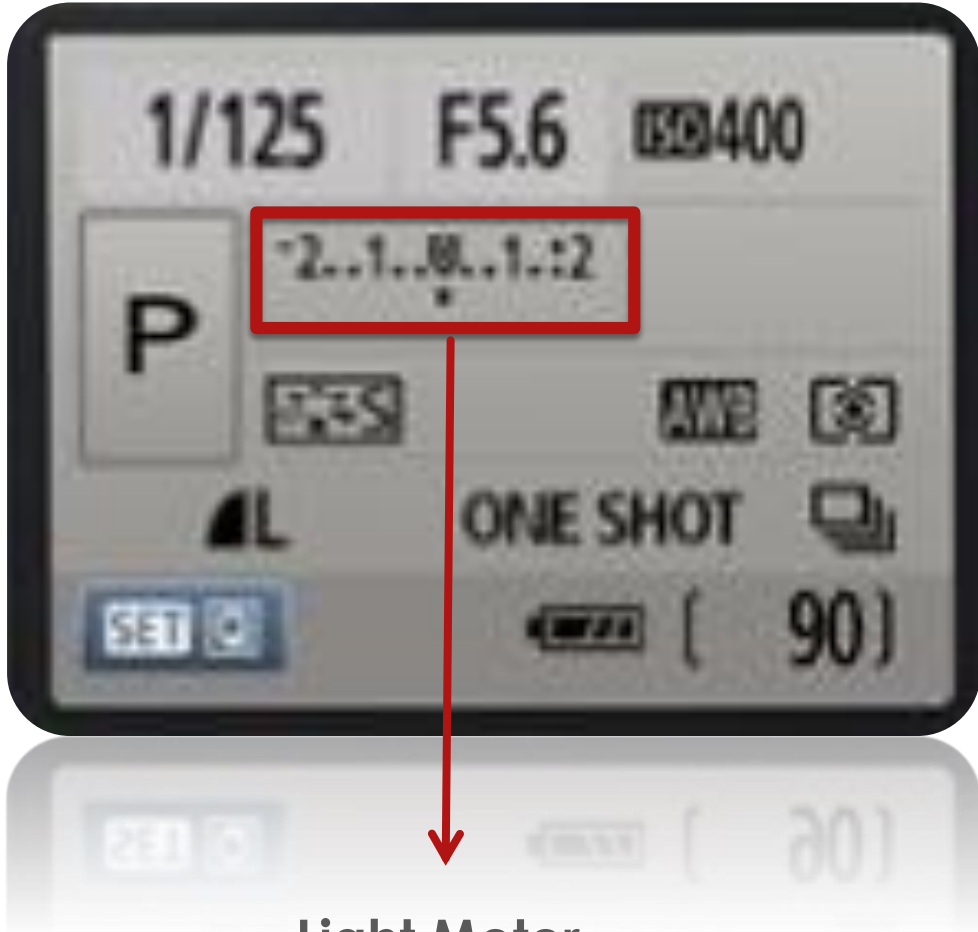
Why is the light meter important?





How the Light Meter works

- ▶ A **stop** in photography refers to a measure of light
- ▶ A stop is a **doubling** or **halving** of the amount of light in your scene
- ▶ Any time you **Double** the amount of light getting to the camera's sensor you are **Increasing** the light by **1 Stop**.
- ▶ Any time you **Half** the amount of light getting to the camera's sensor you are **Decreasing** the light by **1 Stop**.



Light Meter



Light Meter inside Viewfinder

Stops displayed on the Light Meter

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

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

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



- ▶ **+ 1 Stop** = Double the amount of light getting to the sensor than is needed to correctly expose the scene.
- ▶ **+ 2 Stops** = Four times the amount of light getting to the sensor than is needed to correctly expose the scene.
- ▶ **+3 Stops** = Eight times the amount of light getting to the sensor than is needed to correctly expose the scene.

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

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

- ▶ **-1 Stop** = Half the amount of light is getting to the sensor than is needed to correctly expose the scene.
- ▶ **-2 Stops** = Four times less light is getting to the sensor than is needed to correctly expose the scene.
- ▶ **-3 Stops** = Eight times less light is getting to the sensor than is needed to correctly expose the scene

Correct Exposure



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

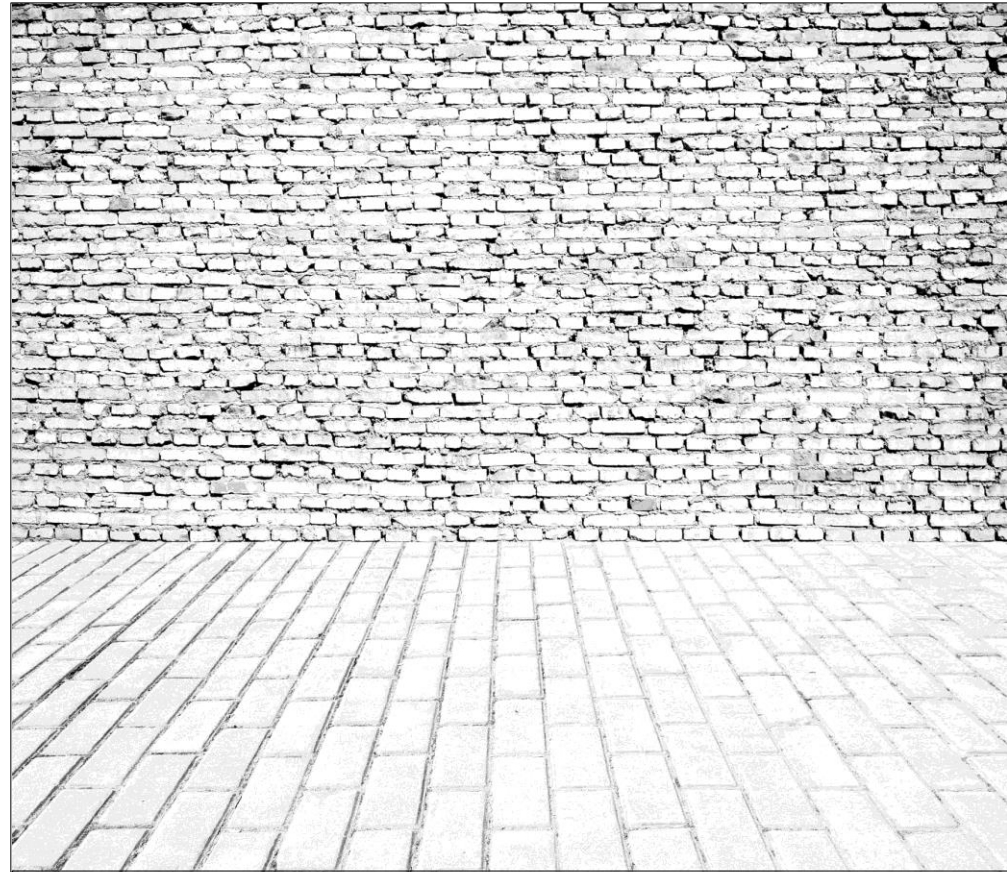
+1 Stop Exposure



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



+2 Stop Exposure



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

-1 Stop Exposure



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

-2 Stop Exposure



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





-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  
|



Aperture Value Mode



Shutter Speed: **1/125s**

Aperture: **F2.8**

Example of Aperture Value





Shutter Speed: **1/8s**

Aperture: **F11**

Example of Aperture Value



Shutter Speed: **1/2s**

Aperture: **F22**

Example of Aperture Value



Shutter Priority/Time Value Mode



Shutter Speed: **1/15s**

Aperture: **F16**

Example of Shutter Priority/Time Value Mode



Shutter Speed: **1/125s**

Aperture: **F5.6**

Example of Shutter Priority/Time Value Mode



Shutter Speed: **1/500s**

Aperture: **F2.8**

Example of Shutter Priority/Time Value Mode



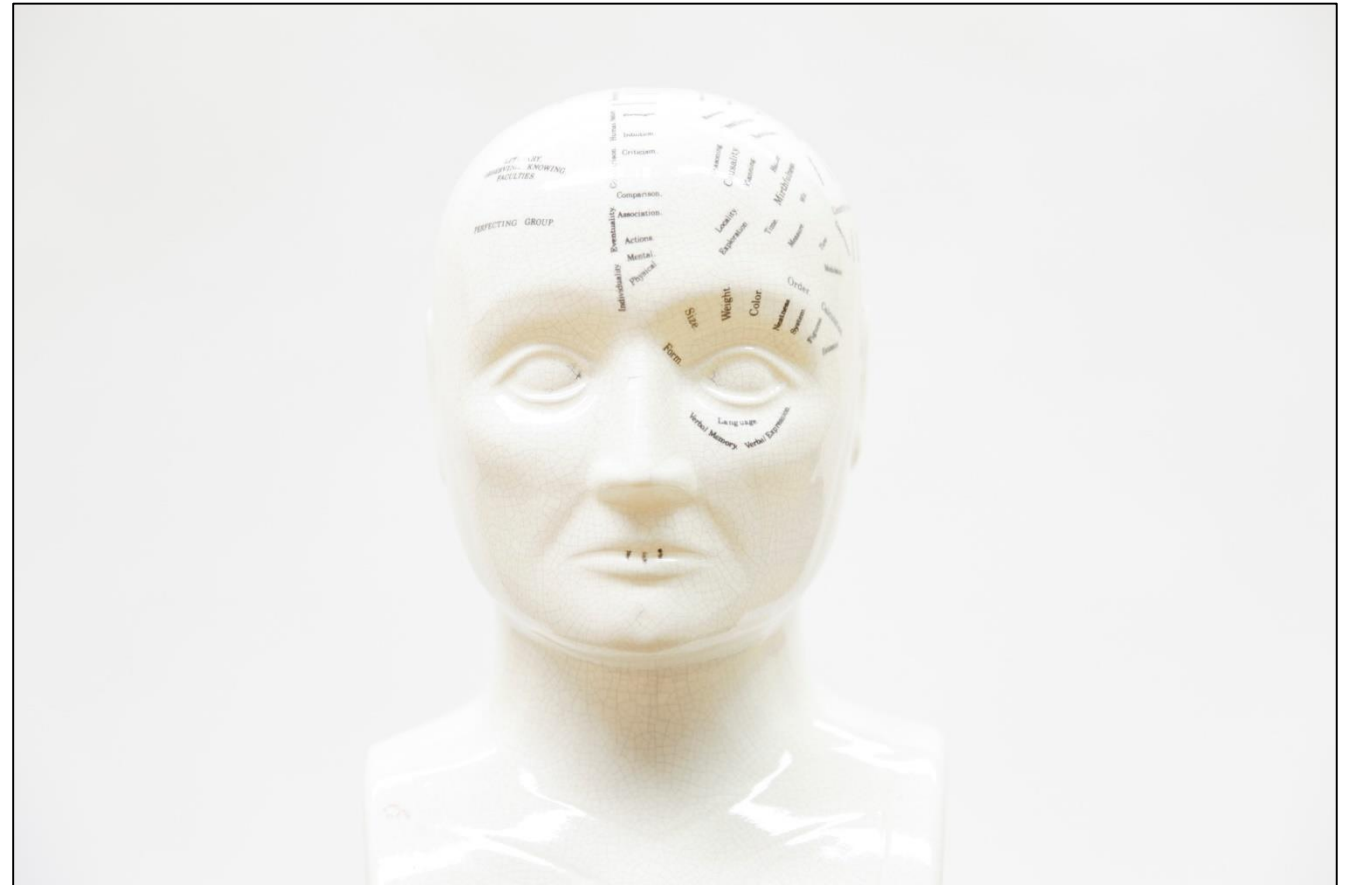
## Light Meter Issues

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

# Dark Tones



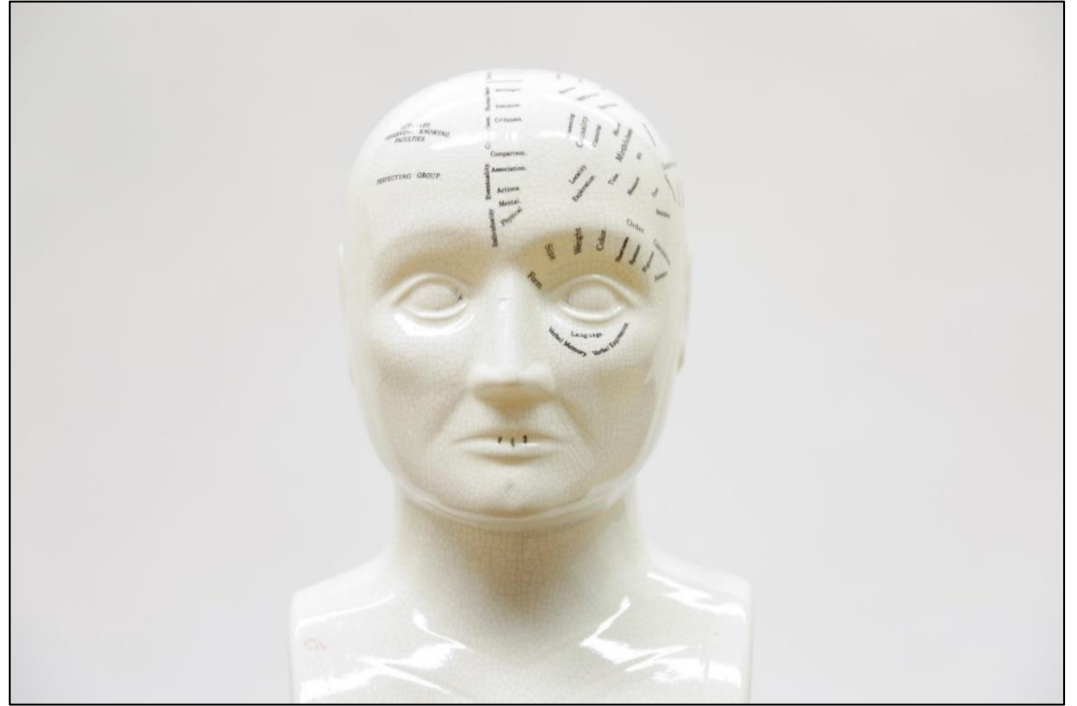
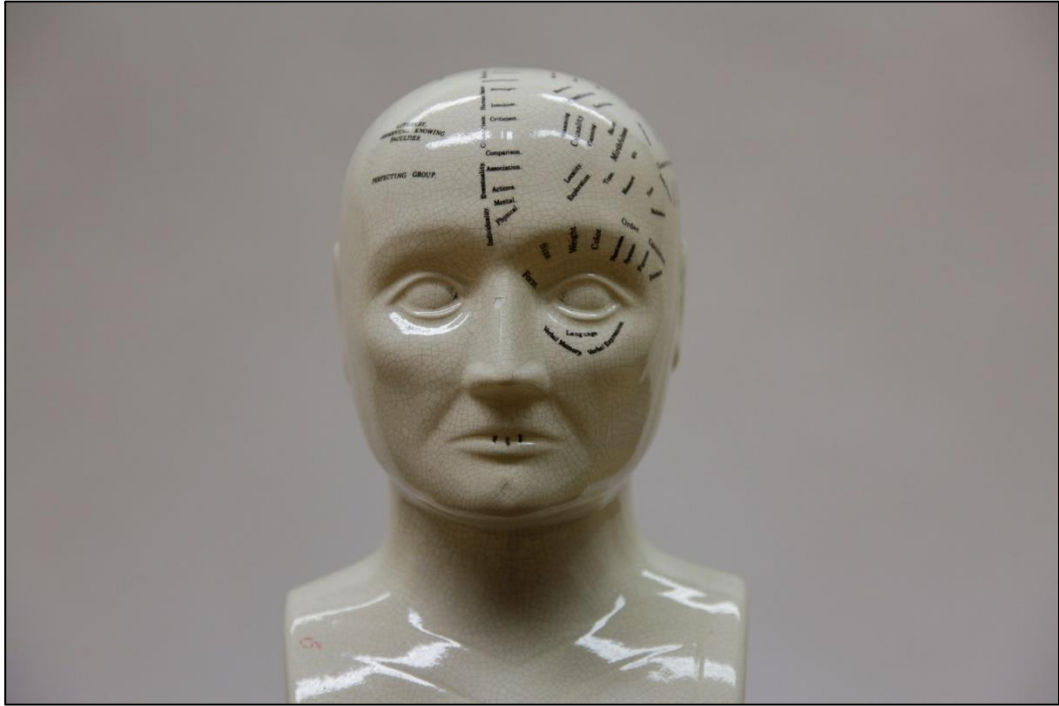
# Light Tones





Exposure for Light and Dark Tones





Exposure for Light Tones





Exposure for Dark Tones



Exposure for Dark Tones



Exposure Compensation

Exposure Compensation

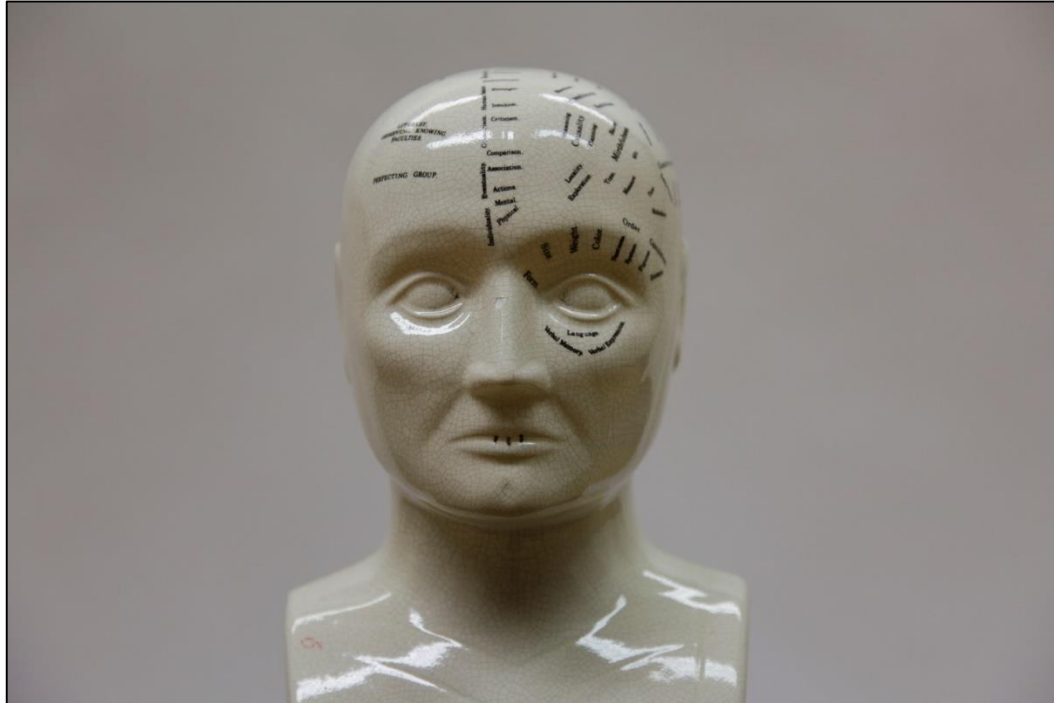


-2..1..0..+1..+2  
|

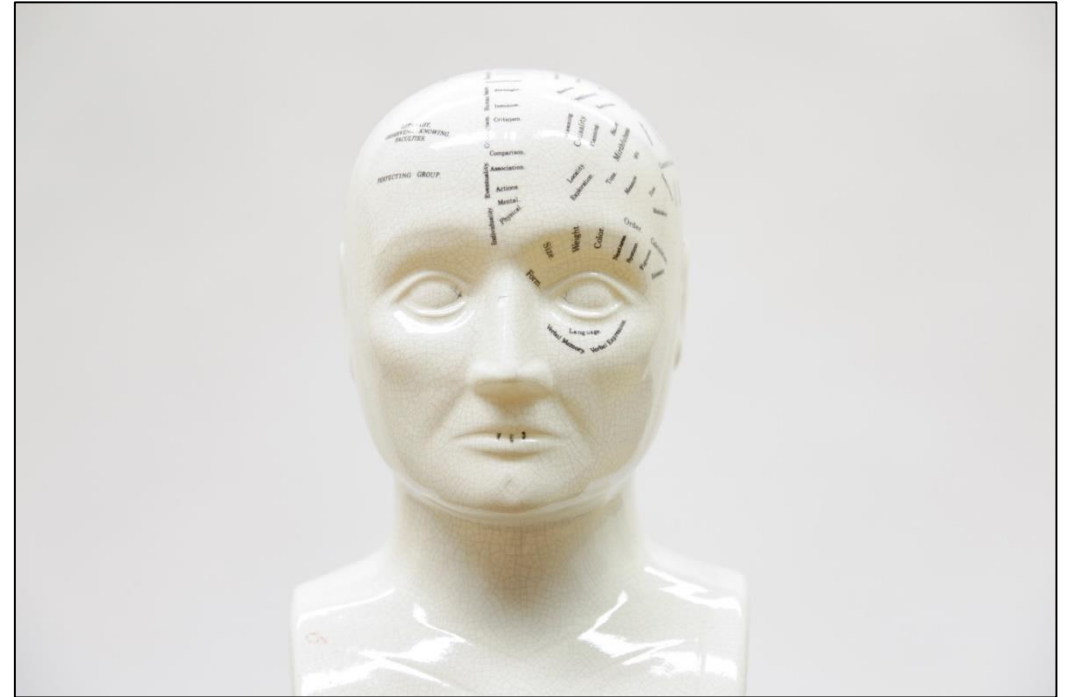


-2..1..0..+1..+2  
|

Exposure Compensation



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



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

Exposure Compensation

## Summary

- ✓ How the light meter works
- ✓ Stops of Light
- ✓ How the light meter works in Aperture Value Mode
- ✓ How the light meter works in Time Value Mode
- ✓ Light Metering Issues
- ✓ How the light meter deals with light and dark tones
- ✓ Resolving exposure issues with exposure compensation

Congratulations you have just completed Lesson 5

Attend all of the lessons live to ask Questions  
in real time and benefit the most!!

We're here to help, so contact us anytime!  
[photography@shawacademy.com](mailto:photography@shawacademy.com)



# Your Next Lesson

## Lesson 6

- The next session is **“Manual Mode”**
- Fully manual mode
- Using aperture and shutter together in manual mode
- ISO
- Attend all of the lessons LIVE and your knowledge will grow