

**BOGNOR REGIS
CAMERA CLUB**

GETTING TO GRIPS WITH YOUR DIGITAL CAMERA

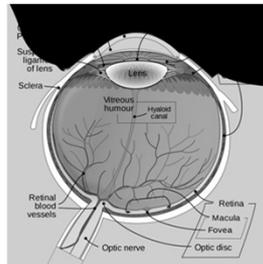
Or How I Conquered My Camera And Won The War

To me, photography is an art of observation. It's about finding something interesting in an ordinary place... I've found it has little to do with the things you see and everything to do with the way you see them.
Elliott Erwitt

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Or How I Conquered My Camera And Won The War

Photography...
takes an instant out of time,
altering life by holding it still.

Dorothea Lange

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The Migrant Mother

Dorothea Lange

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*"Your first 10,000 photographs
are your worst."*
Henri Cartier-Bresson



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OUTLINE

- The Human Desire For Image Creation
- Drawing & Painting
- Content & Composition Are King
- Photographic Imagery – Capturing An Image
- A Brief History Of Cameras
- The Elements Of A Camera
- What Makes A 'Good Exposure'
- Shutter Speed, Aperture, ISO and Focus

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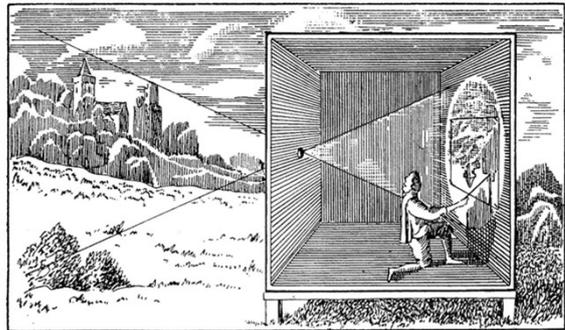
*"The Single Most Important
Component of a Camera is The
Twelve Inches Behind It!"*
ANSEL ADAMS



And so, on to how things work...

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Camera Obscura



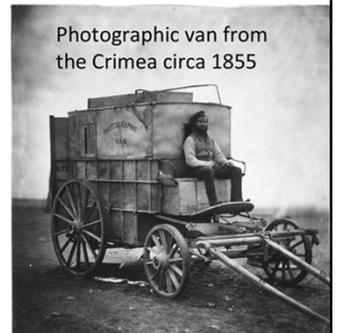
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**World's Oldest Surviving
Photograph**



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Portable Cameras

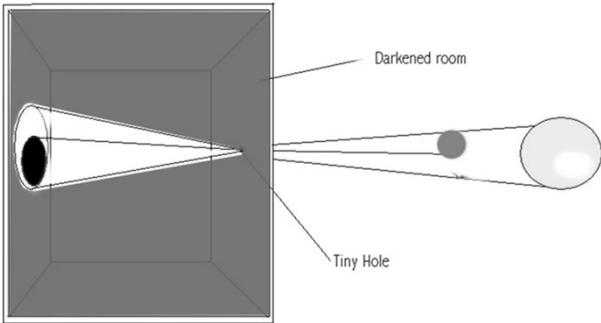


Portable Cameras

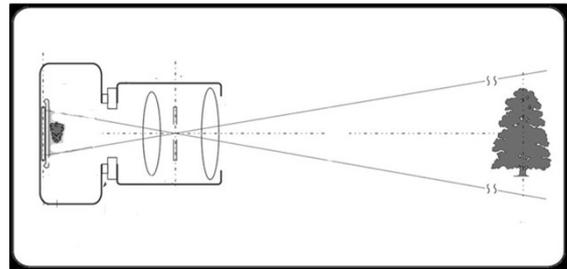
Nowadays it is all so much simpler!



The Pinhole Camera



The Camera



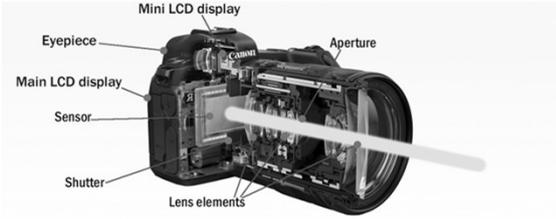
The Camera



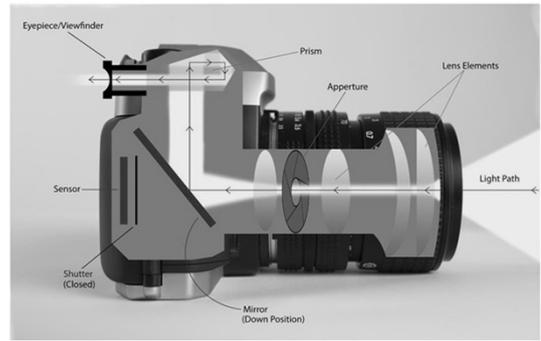
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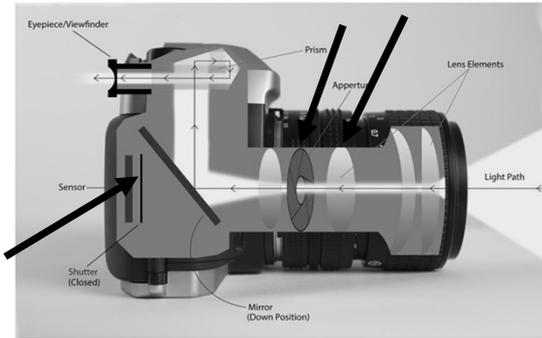
The Camera



The Camera



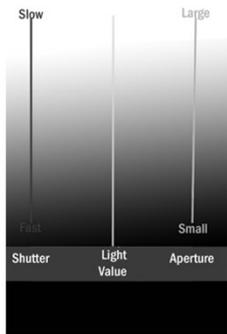
The Camera



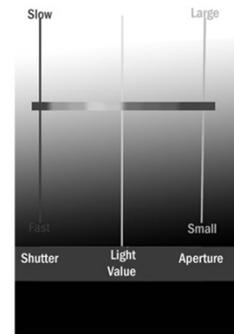
The Camera - Exposure



The Camera - Exposure



The Camera - Exposure



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The Camera - Exposure



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The Camera - Exposure



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The Camera - Exposure



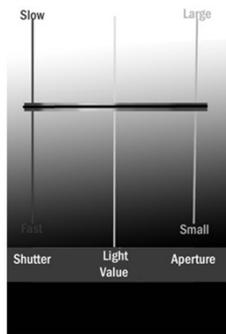
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The Camera - Exposure



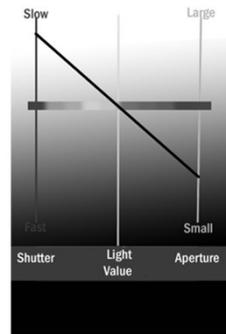
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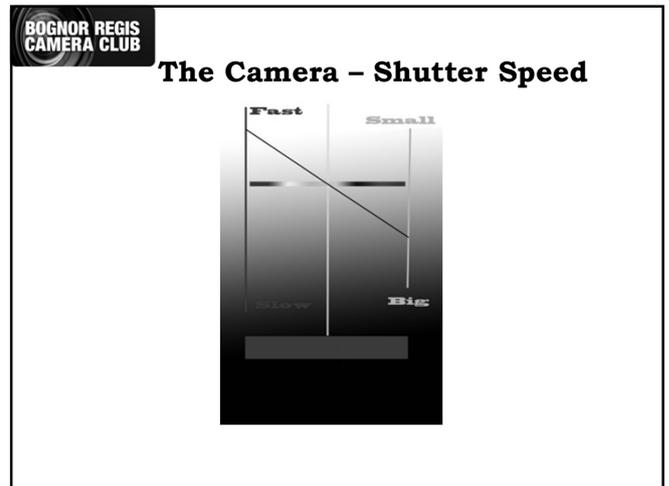
The Camera - Exposure



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The Camera - Exposure





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The Camera – Shutter Speed

Shutter in seconds	Camera's indication
1/25	25
1/1000	1000
4	4''



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The Camera – Shutter Speed

Shutter speed

1/1000	1/500	1/250	1/125	1/60	1/30	1/15	1/8	1/4	1/2	1	2	4	8
Freeze action			Hand hold			Movement blur - tripod needed							

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**1/1600 SEC, F 9, ISO 800,
300MM, Monopod**



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**1/125 SEC, F 10, ISO 160,
110MM, Monopod**



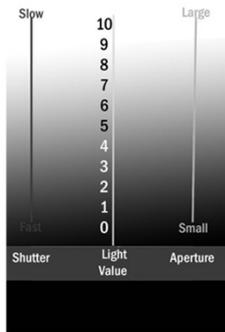
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**1/60, F8.0, ISO 200, 135MM,
Handheld**



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The Camera – Shutter Speed



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The Light Meter





The Camera – Shutter Speed

Nomina 1	1	2	3	4	5	6	7	8	9	10
Actual	1	2	4	8	16	32	64	128	256	512
Speed	1	1/2	1/4	1/8	1/16	1/30	1/60	1/120	1/250	1/500



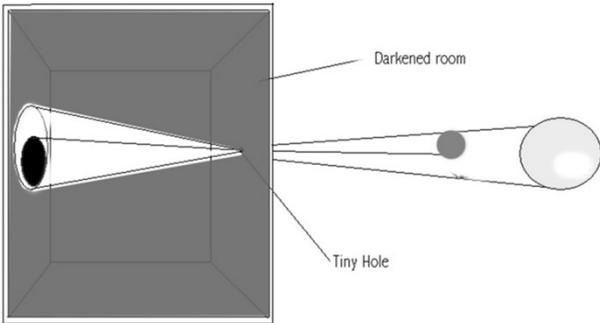
The Camera – Shutter Speed

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Actual	1	2	4	8	16	32	64	128	256	512
Speed	1	1/2	1/4	1/8	1/16	1/30	1/60	1/120	1/250	1/500

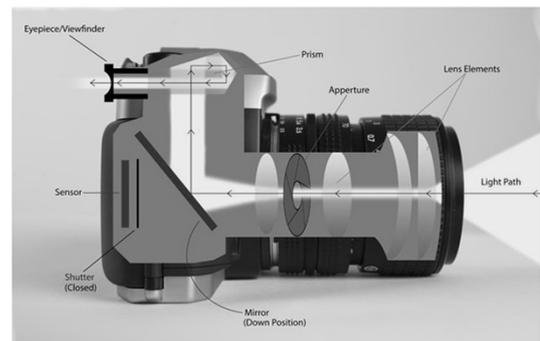
Key takeaway: One 'STOP' is a factor of two change of Light Value.
It doubles (brighter) or halves (darker).



The Camera – Aperture



The Camera – Aperture



The Camera – Aperture

$$\pi r^2$$

Radius	Area
1	1
2	4
3	9
4	16

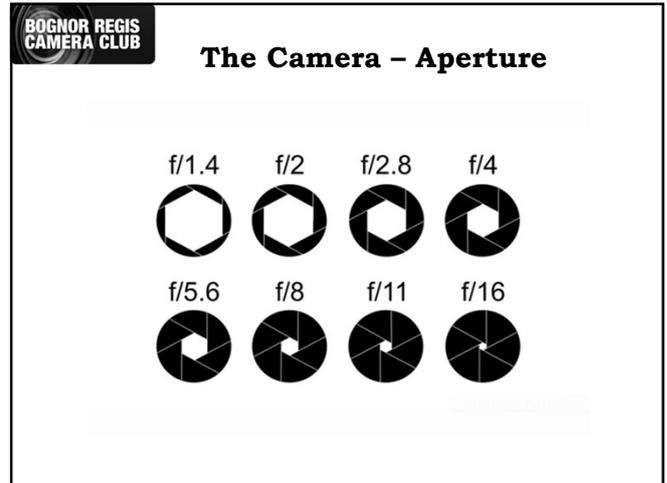
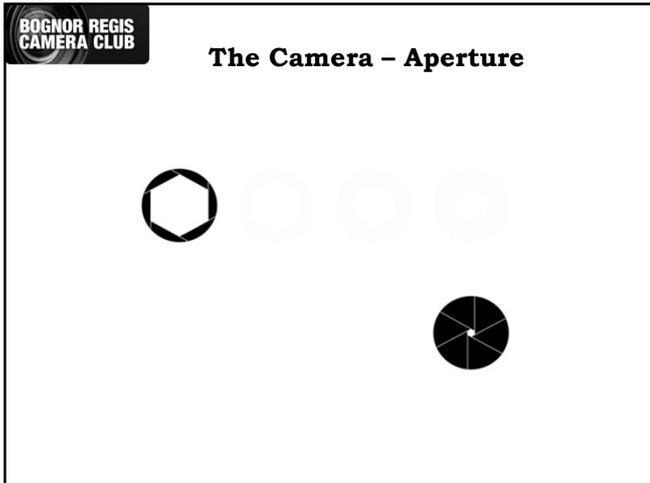


The Camera – Aperture

$$\pi r^2$$

Radius	Area
1	1
2	4
3	9
4	16

Area	Radius
1	1
2	1.4
4	2
8	2.8
16	4
32	5.6
64	8



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The Aperture Quiz

The Camera Says...
1/250 at f8.

But we want to freeze the action at 1/1000th sec. Which aperture must we use? ...and WHY?

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Just Before We Break... What's Next?

- Everyone Here Has The Opportunity To Take Part In 1:1 Sessions With A Mentor
- Take Along Your Egg Pictures
- A List Of Your Questions,
- Your Camera And
- Its Instruction Book.

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“A lot of photographers think that if they buy a better camera they’ll be able to take better photographs.

A better camera won’t do a thing for you if you don’t have anything in your head or in your heart.”

Arnold Newman