

WCC MACRO WORKSHOP

Lenore Pedrina
Jason Price
&
Erin Kostopulos (Canon Australia)

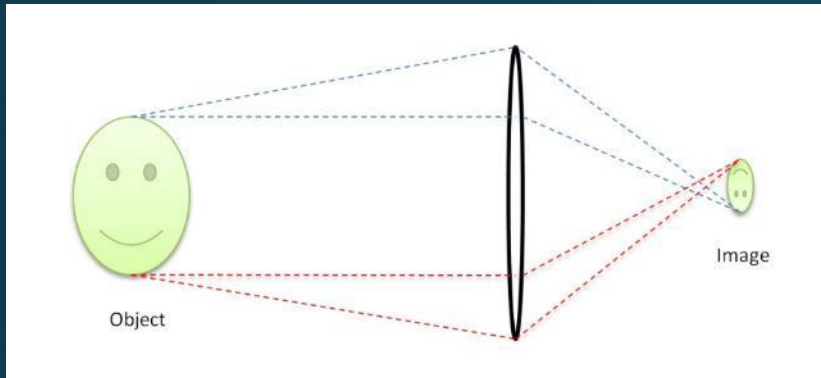
What is Macro?



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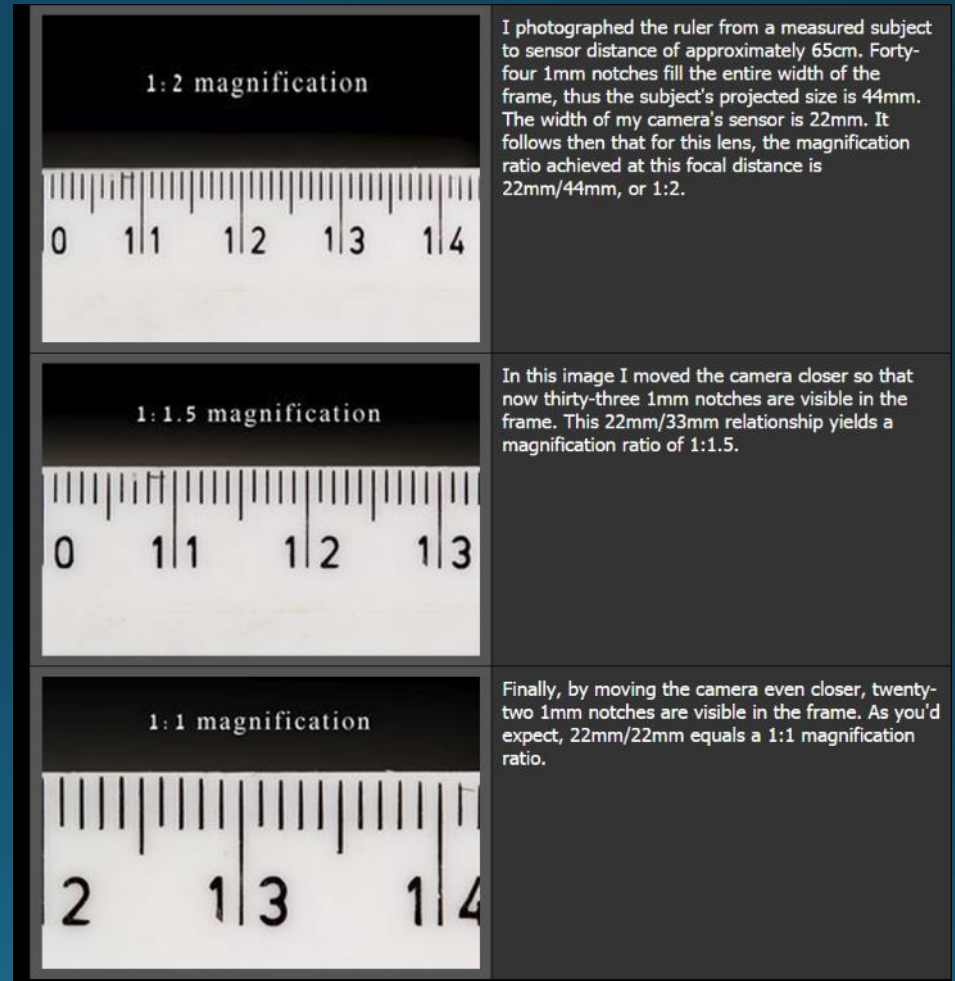


1:1 Reproduction Ratio












The reproduction ratio is a comparison to the size of the subject to size of the sensor plane (or film plane).

A macro lens should be able to create a 1:1 reproduction ratio.



Sensor Size

Sensor size comparison chart

Type	 1/3"	 1/2"	 2/3"	 4/3"	 APS-C	 Canon Nikon Pentax DX	 Super 35	 APS-H	 35mm Full Frame
sensor w x h	4.8 x 3.6mm	6.4 x 4.8mm	8.8 x 6.6mm	17.8 x 10mm	22.2 x 14.8mm	23.6 x 15.5mm*	24.89 x 18.66mm	28.7 x 19.1mm	36 x 24mm
sensor diagonal	6mm	8mm	11mm	20.41mm	26.7mm	28.4mm	31.1mm	34.5mm	43.3mm
sensor area	17.3mm ²	30.7mm ²	58.1mm ²	178mm ²	329mm ²	366mm ² *	464.44mm ²	548mm ²	864mm ²
crop factor	7.21	5.41	3.93	2	1.62	1.52	1.39	1.26	1
applicable cameras				Panasonic AG-AF101	Canon EOS 7D Canon EOS 60D Canon EOS 50D Sony NEX-VG10E	*Approx	Arri Alexa Sony PMW-F3 Sony SRW-9000PL Sony F35		Canon EOS 5D MkII Nikon D3s

What is Macro?

Subject : Sensor

1:4

1:1

4:1

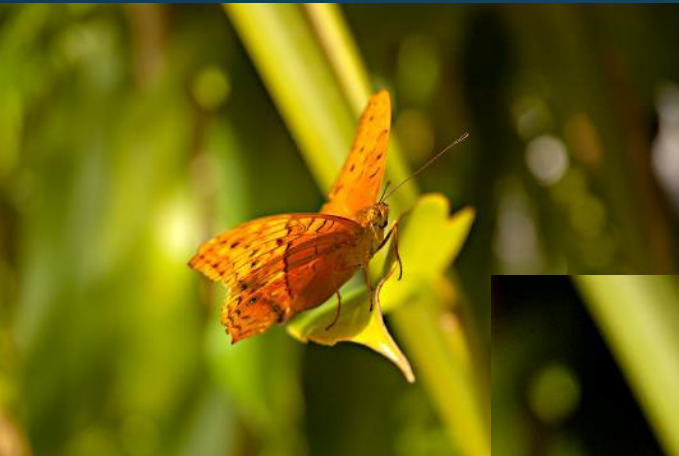


What is Macro?



Where to begin?

Nikon D70 (6 megapixels) Kit Lens 18-70
mm, f3.5-4.5 AF-s
iso 200, 1/125, f4.5, 70 mm



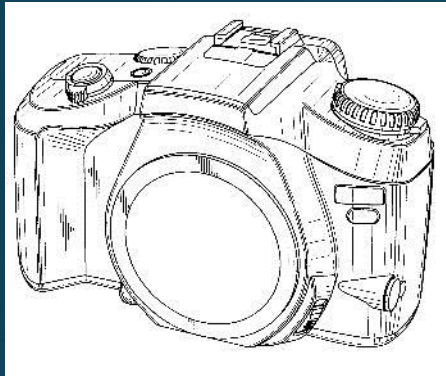
Canon 5D mk iii 100 mm f/2.8 Macro Lens
iso 12800, 1/80, f8, 100 mm



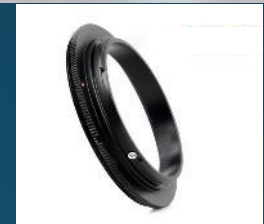
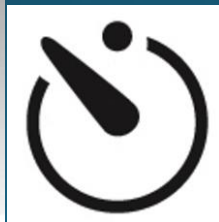
What Equipment do I need...

And Some of these...

Essential



One of...



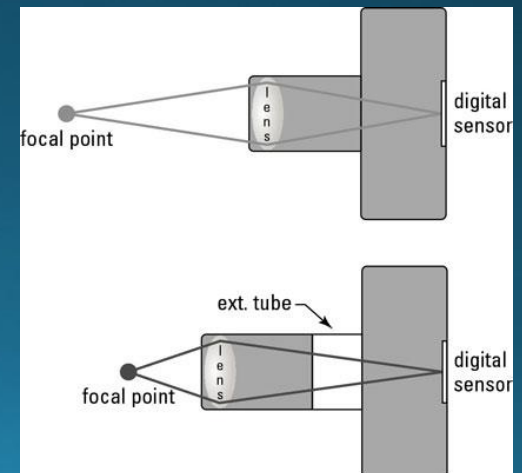
Close up filter

- Magnifying glass on the front of your lens
- Use with a telephoto.
- No loss of light.
- AF will work.
- Image may be degraded by additional lens elements



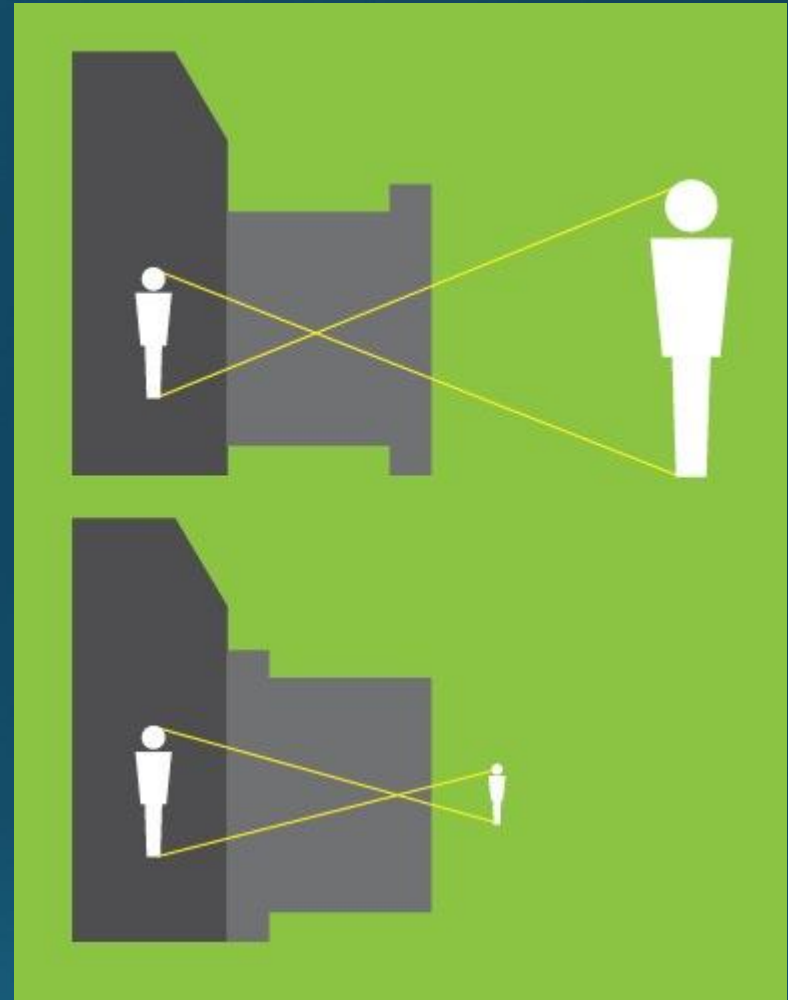
Extension tubes/rings

- Increases the distance between the lens and the sensor, moves the focal plane closer allowing magnification
- Use with a prime lens with good maximum aperture.
- Image not degraded by additional lens elements
- Suffer from loss of light.
- Dark through the view finder
- AF may be difficult.



Reverse Lens

- If you already own a 50mm prime or standard kit lens (around 18-55mm focal length range) then reverse lens macro is also the least expensive way there is to get up close.
- The reverse lens technique involves turning the lens around so that the rear element points outwards, and the front element faces the camera body. You can buy special adapters to attach the reversed lens to either your camera body or another lens.



Canon Collective

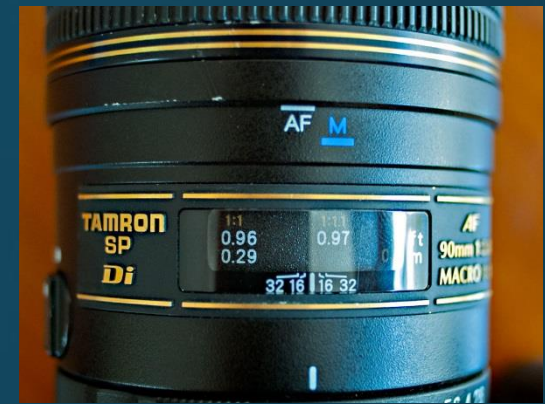
Reversed lens



<http://digital-photography-school.com/reverse-lens-macro-close-up-photography-lesson-3/>

Macro Lens

- Made for purpose.
- 1:1 Magnification ratio.
- Fine focus control at high magnification.
- Sharp at high magnification.
- Will work with:
 - Tele-converters
 - Reversed lens
 - Extension tubes (Bellows)
 - Close up filters.
- Expensive specialty lens



Importance of lighting

Nikon D300s Tamron 90mm f2.8 Macro
iso 200, 1/200, f 16 (With flash)



Nikon D300s Tamron 90mm f2.8 Macro
iso 200, 1/160, f 6.3 (No Flash)
Two frames combined with stacking software



Lighting for Macro

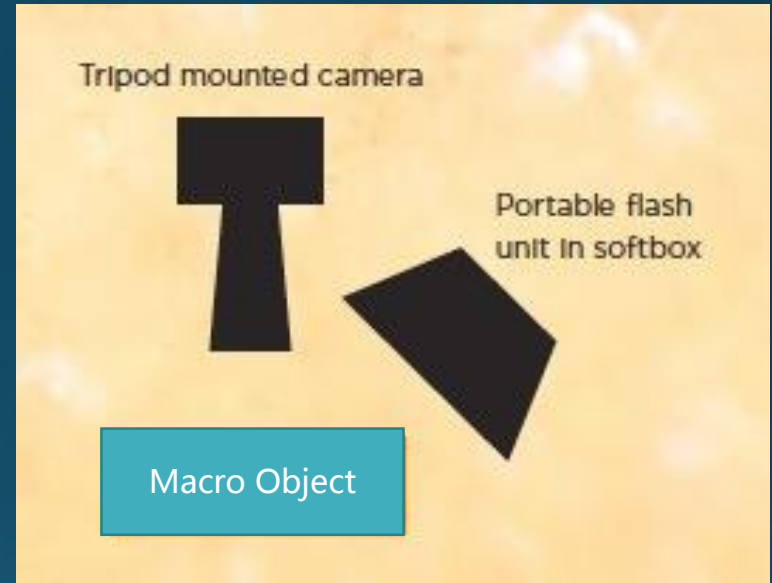


Lighting for Macro

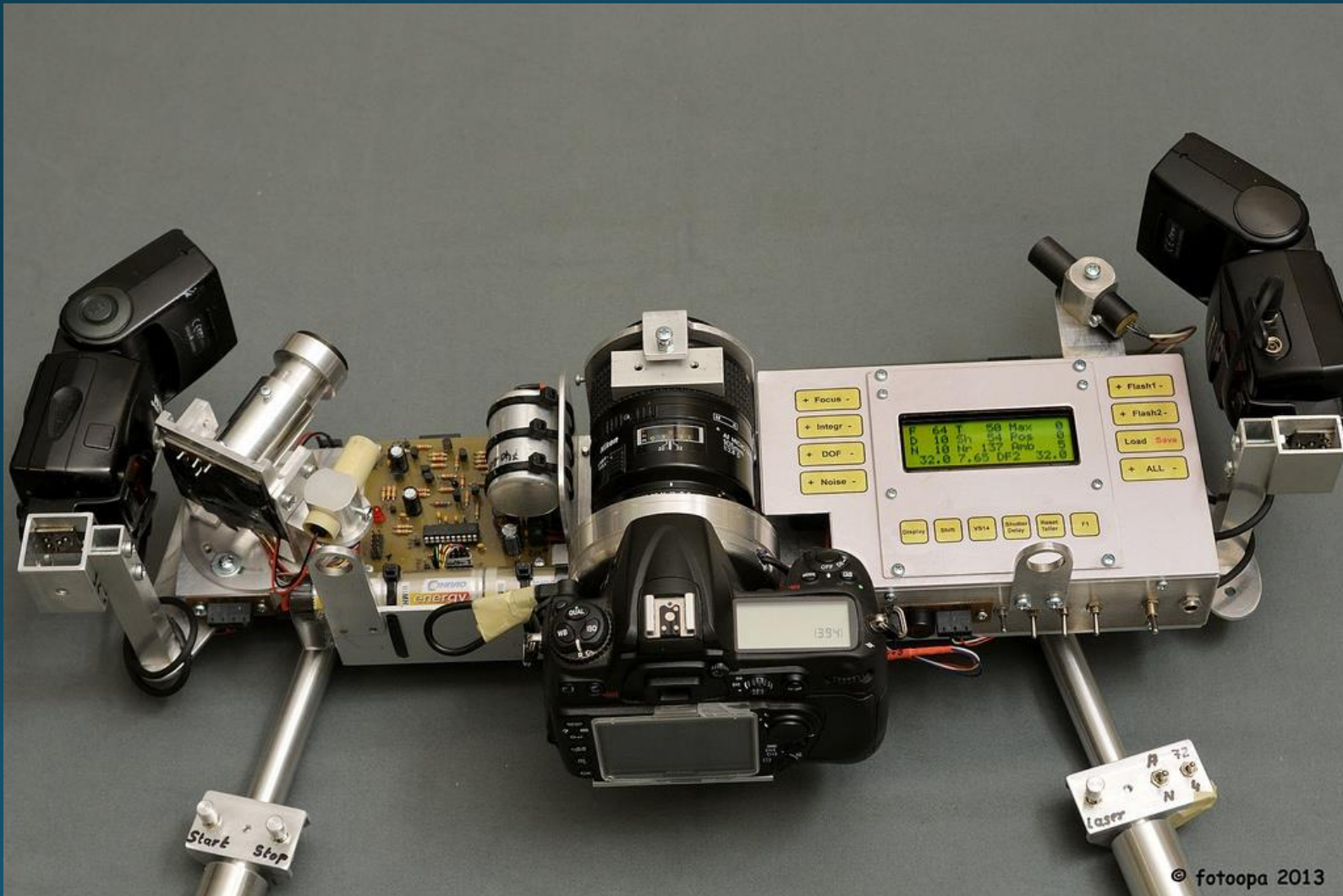


STE3 + 600exrt

Canon Collective



Sure, I can do that...



Some small tips for shooting Macro

GET AS
CLOSE AS
YOU CAN
TO YOUR
SUBJECT



Canon **Collective**

View Point and Perspective



Include your subject's environment

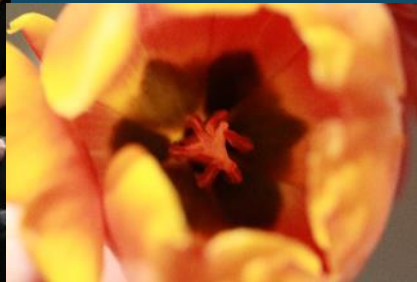


What NOT to do...



Macro Inspiration

WCC Workshops...




Macro Inspiration

- Previous WCC Comps (Jason Price)


SmugMug PHOTO SHARING LOG IN

EDIs Archive > 2015 EDI Galleries

September 2015 A Grade EDI



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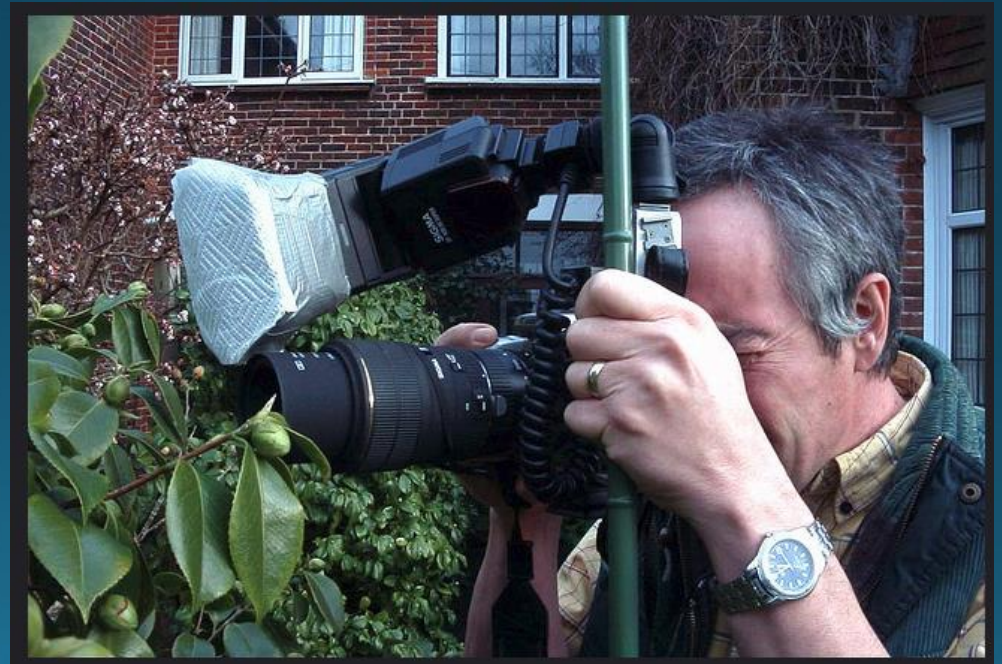
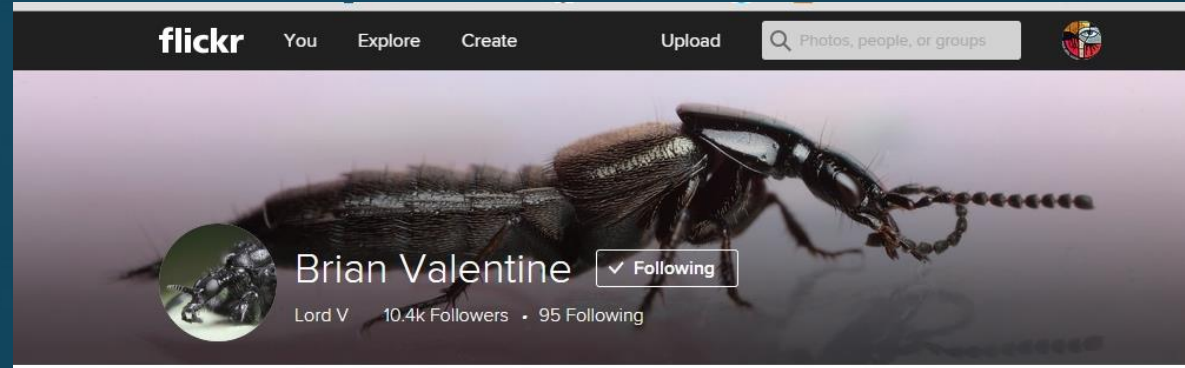


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Jason Price - Fruitful Hunt

Award: Merit

Internet-Looking for live bugs





Canon *Collective*

*no one sees it
like you*



Canon Collective

no one sees it
like you



Canon Collective

no one sees it
like you



Canon *Collective*

*no one sees it
like you*