

Oh, the Places You'll Go!
Oh, the Things You'll See!
Oh, the Money You'll Spend!

The Story Behind the Pictures

Redux

Redone, restored,
brought back or
revisited

Arrow Crab
Bonaire 2008
Nikon D70s
60mm macro
1/100, f/16, ISO 200
Single strobe



It's All About the Light

&

Getting Close

Source

Amount

Direction

Distance

Detritus

Lobster Gang, St. Maarten 2019

Nikon Z6

Nikon 8-15 mm Fisheye

15 mm

1/200, f4.5, ISO 200



Stop Breathe Think Act

Reef Shark
Bahamas 2011
Nikon D90
Tokina 11-16
16mm
1/100, f14, ISO 200



Learn from the experience of others

What are the “best settings?”

Do they apply to my situation?

What can I learn from the experience of others?

Setting up the Camera

Exposure Controls: Shutter Speed
Aperture

Exposure Adjustment: ISO, EV



Picture Settings:

applied after analog to digital conversion

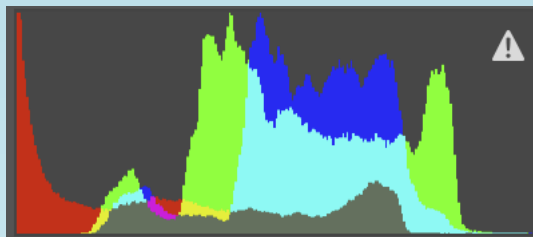
- RAW, jpg, both
- Bit depth
- Colour space
- White balance
- Neutral, vivid, etc.

Camera Settings:

- do not affect the image
- Display timeout
- Viewfinder brightness
- Custom button settings
- Custom menu
- Date, time, copyright, etc.

What you see on the LCD screen has settings applied

Wide Angle Self Portrait



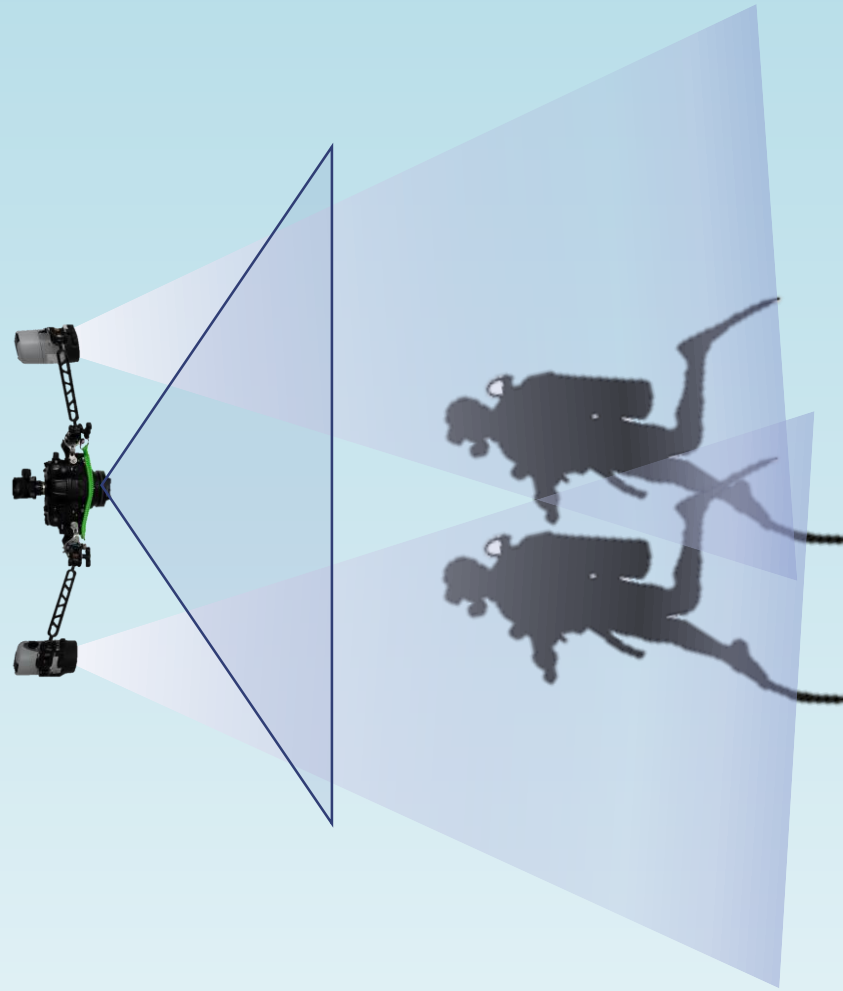
Self Portrait
Bonaire 2015
Nikon D7100
Tokina 11-16 mm
13 mm
1/160, f/11, ISO 200
Dual Strobes



Wide Angle Self Portrait Lighting

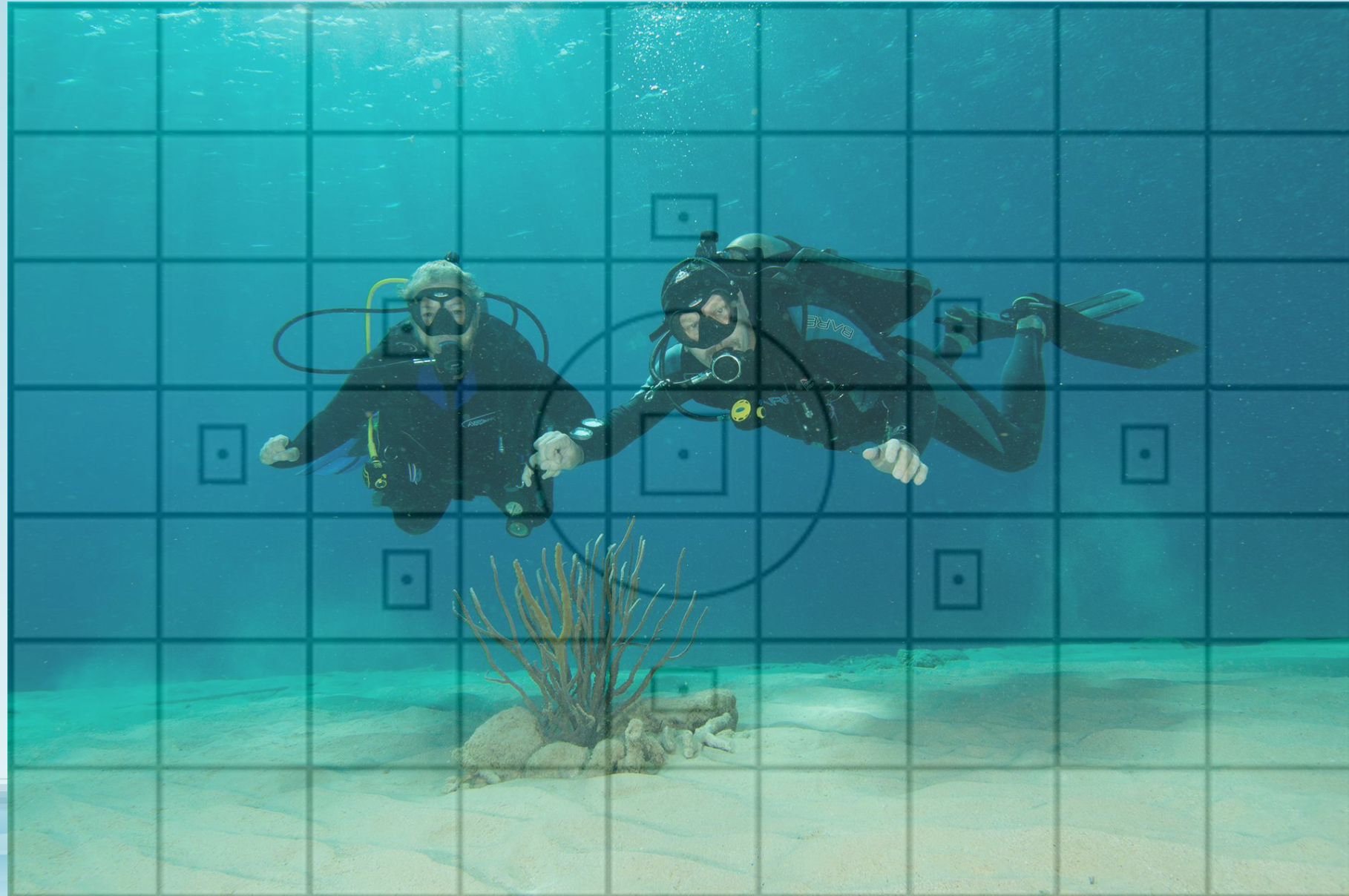
Foreground

Strobe positioning to light the subject and minimize lighting water



Wide Angle Self Portrait

Matrix Metering



Wide Angle Self Portrait

Spot Metering



Wide Angle Self Portrait

Backscatter

Strobe positioning to light the subject and minimize lighting water

Expose for the place, light for the face

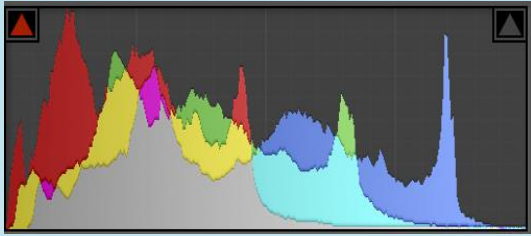


Don't just learn what your gear can do

Learn what you can do with your gear

Use what you know

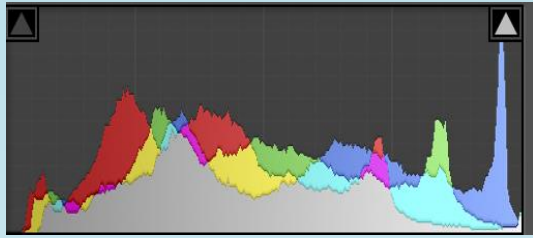
Wide Angle – RAW Image



Rob
Chinchorro Banks,
Mexico 2021
Nikon Z6
8-15 mm
15 mm
1/200, f/5.6, ISO 200



Wide Angle – Processed Image



Processing:
Exposure +.45
Highlights +25
Whites +34



How Small is Small

Blenny in Coral
Utila, Honduras 2010
Nikon D90
60 mm macro
1/60, f/13, ISO 200
Single Strobe



How Small is Small

Octopus hiding
Lembah Strait, Indonesia 2012
Nikon D90
Nikon 60 mm macro
1/200, f/16, ISO 200
Dual Strobes



How Small is Small

Nudibranch
Anilao, Philippines 2019
Nikon D7200
Nikon 105 mm macro
1/320, f/18, ISO 100
Dual Strobes



How Small is Small

Ribbon eel
Anilao, Philippines 2019
Nikon D7200
Nikon 105 mm macro
1/250, f/22, ISO 100
Dual Strobes



Super Macro

Background

Strobe positioning to light the subject and minimize lighting water



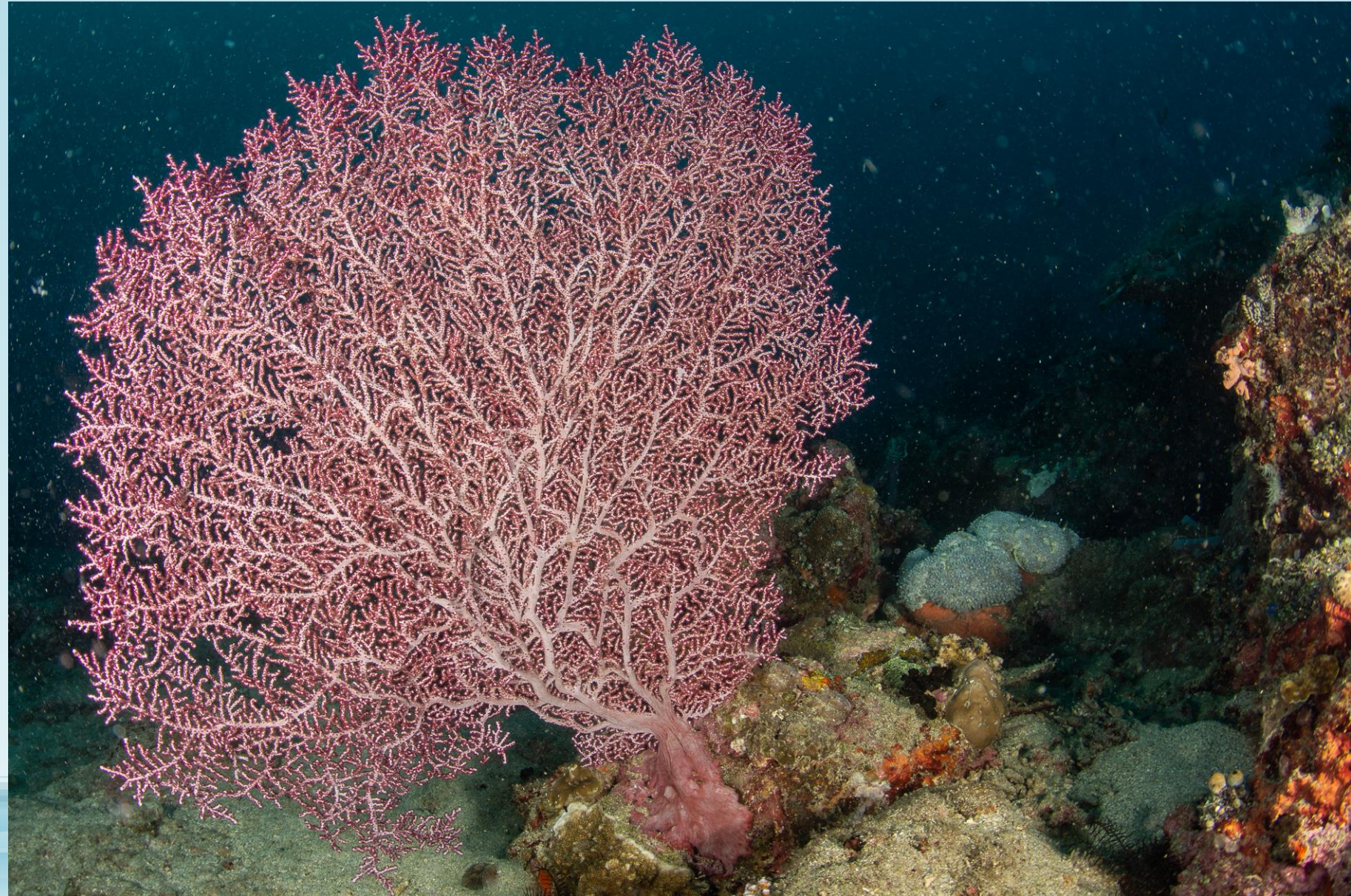
How Small is Small

Two Fish in a Bottle
Anilao, Philippines 2019
Nikon D7200
Nikon 60 mm macro
1/320, f/16, ISO 100



How Small is Small

Gorgonian
Anilao, Philippines 2019
Nikon D7200
Tokina 11-16 mm
13 mm
1/125, f/8, ISO 100



How Small is Small

Pygmy Seahorse
Komodo, Indonesia 2012
Nikon D90
60 mm macro
1/200, f/22, ISO 200



There is no problem in photography that new gear can't solve

Fast shutter speed
Small aperture
Black background

Pygmy Seahorse
Anilao, Philippines 2019
Nikon D7200
105 mm macro
1/250, f/22, ISO 100



They Gather at Night

Manta
Kona, Hawaii 2016
Nikon D7200
Tokina 11-16 mm
16 mm
1/125, f/2.8 **Auto ISO**
Centre Weight Metering
Dual Video Lights



Don't fear your gear

How Close is Close

Rob with his GoPro
Chinchurro Banks, Mexico 2021
Nikon Z6
15 mm
Spot Metering
1/250, f/13, Auto ISO
Ambient Light



Natural Light

American Crocodile
Chinchorro Banks, Mexico 2021
Nikon Z6
8-15 mm
8 mm
1/200, f/13, Auto ISO
Spot Metering
Burst mode
Silent Shutter
Ambient Light



Don't forget to reset the camera

Reef landscape
Chinchurro Banks, Mexico 2021
Nikon Z6
15 mm
1/60, f/6.3, Auto ISO
Spot Metering
Silent Shutter



“Kodak” Moment

What you lookin' at?
Chinchorro Banks, Mexico 2021
Nikon Z6
8-15 mm
15 mm
1/200, f/5.0, ISO 100
User setting 2



Four Themes

- Learn from other disciplines
 - SCUBA: Stop, Breathe, Think, Act
- Learn from the experience of others
- Gear
 - Know what your gear can do = good
 - Know what you can do with your gear = better
 - Use what you know = best
- Don't fear your gear

Resources

- Exposure Value

<https://expertphotography.com/exposure-value/>

https://en.wikipedia.org/wiki/Exposure_value

- ISO in digital cameras

<https://www.nikonusa.com/en/learn-and-explore/a/products-and-innovation/iso-control.html>

https://www.lmscope.com/en/Digital_Camera_Sensitivity_ISO_en.html

- Camera metering modes

<https://www.bhphotovideo.com/explora/photography/tips-and-solutions/understanding-camera-metering-modes>

https://www.nikonimgsupport.com/ni/NI_article?articleNo=000002260&configured=1&lang=en_US

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The journey is paused ...