

The F stops
Here.

A photograph of a lioness and her cub in a savanna setting. The lioness is standing on the right, looking towards the left. The cub is sitting on the ground in front of her, looking up at her. The background features large, light-colored rocks and a wooden post on the left. The lighting is warm, suggesting late afternoon or early morning.

Denver Zoo with Mike's Camera

Joe Klocek and Scott Dougherty, Instructors

The Photography Cheat Sheets

- Specific settings to plug and play
- Simple directions
- Link to instructional video
- 31 cards on all variety of topics
- The best tool to use in conjunction with classes and instruction



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- Specific settings to plug and play
- Simple directions
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Landscape (handheld)

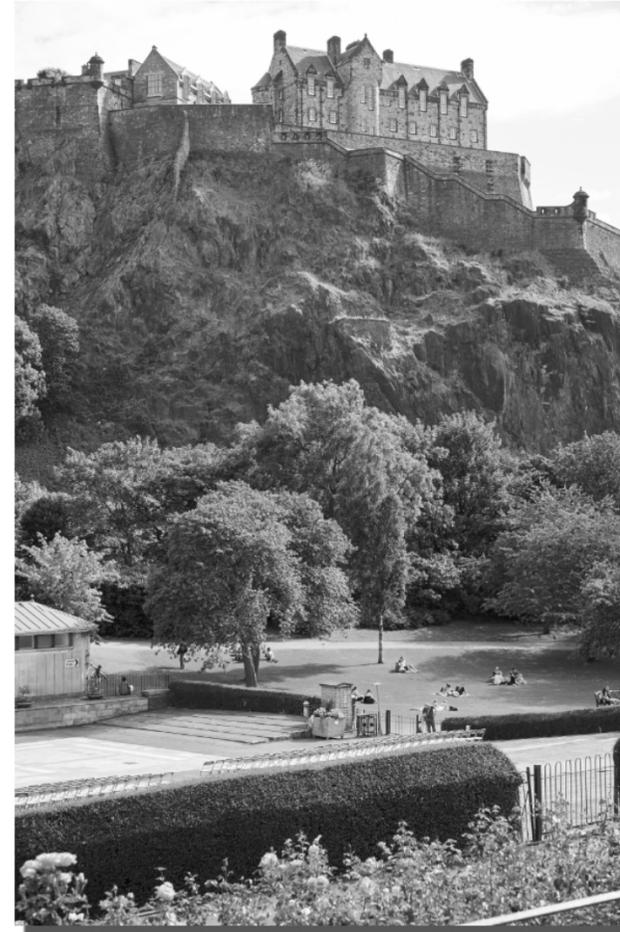
- Aperture set to f/8 or f/11
- Shutter speed set between 1/125 and 1/250
- Set ISO to auto (manual mode with auto ISO)
- Focus mode set to AF-S
- Focus area set to single focus point
- White balance set to daylight or cloudy day, depending on conditions
- Evaluative metering mode



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Landscape (handheld)



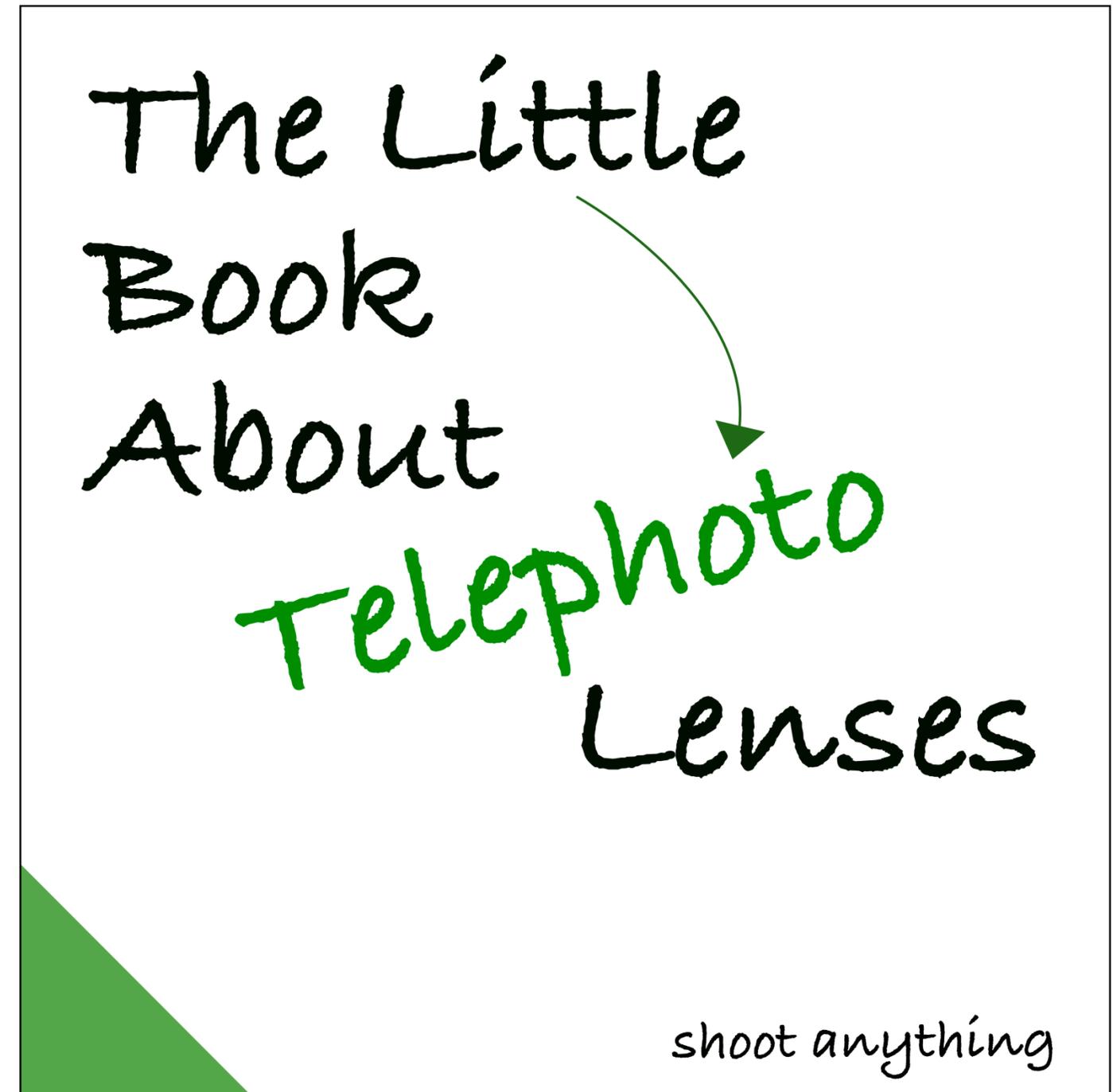
Directions

Navigate focus crosshair over the subject and acquire focus before shooting. Check that there is no motion blur captured in the frame. You can improve many compositions by placing an interesting object close to the camera. Try to shoot at advantageous times of day, such as sunrise and sunset, to get the best shadows and color. In order to achieve both the appropriate aperture and a fast enough shutter speed to hand-hold the image, use the RAW exposure technique and don't be afraid to raise the ISO if needed.



The Little Book on Wide Angle Lenses

- How to shoot at telephoto focal lengths
- Angles of view
- Depth of field control
- Features of telephoto lenses



This lecture is available as a PDF

www.TheFStopsHere.org



The F Stops Here

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Photography Cheat Sheets



The Photography Cheat Sheets are the closest thing to having a photography instructor with you as you can get. This set of 31 cards covers every variety of photographic endeavor a hobby photographer is likely to encounter and gives specific settings to use, simple instructions, and links to short video instruction. [They are available exclusively through Mike's Camera.](#)

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8

* white balance

* histograms

* focus mode

* focus area

* shutter speed

* aperture

* depth of field



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9

- * 2 hour lecture
tonight
- * meet at the zoo
at 7:45 on
Sunday
- * Shoot from 8:00
to 10:30
- * Review
Wednesday, 6:30
to 8:30
- * Send 2 images
for review to
joe.klocek@gmail.com
- * submit any image
to print through
mikes
camera.com



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10

- * white balance
- * post color correction
- * benefit of RAW imagery

lions

The **F** Stops
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11

Nikon d500

Tamron 150-600

350mm

1/640

f/6

ISO 280



The **F** Stops
Here.

12

Nikon d500

Tamron 150-600

350mm

1/640

f/6

ISO 280



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13

white balance
gives us control
over a camera's
adjustment to the
color of light



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14

each light source generates a different color of light, which we don't perceive well with the human eye. rather, our brains compensate for the color of the light source. we measure the color of light in the Kelvin temperature scale.



The **F** Stops
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15

each light source
generates a
different color of
light, which we
don't perceive well
with the human
eye. rather, our
brains
compensate for
the color of the
light source. we
measure the color
of light in the
Kelvin temperature
scale.



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16

Sony A7Riv

Sony 200-600

529mm

1/400

f/6.3

ISO 640



The **F** Stops
Here.

17

Sony A7Riv

Sony 200-600

529mm

1/400

f/6.3

ISO 640



The **F** Stops
Here.

18

- * histogram
- * proper exposure
- * midtone editing
- * shutter speed

flamingos

The **F** Stops
Here.

19



Canon EOS R

Tamron 100-400

339mm

1/400

f/6.3

ISO 500

The **F** Stops
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Canon EOS R

Tamron 100-400

339mm

1/400

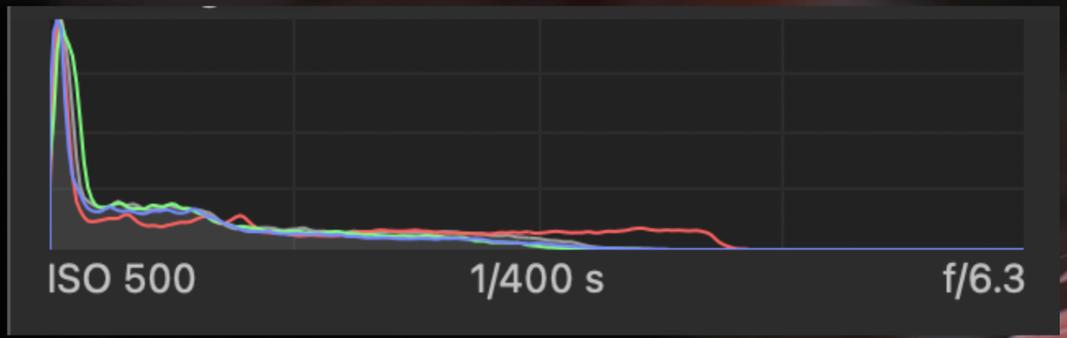
f/6.3

ISO 500



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Canon EOS R
Tamron 100-400
339mm
1/400
f/6.3
ISO 500

The **F** Stops
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22



Canon EOS R

Tamron 100-400

339mm

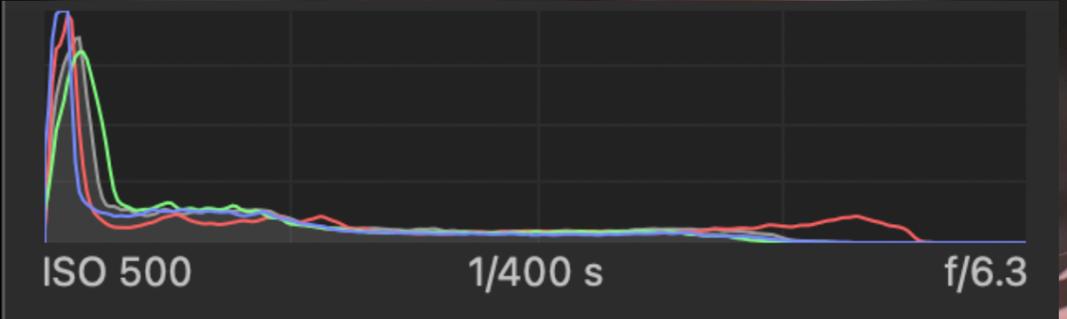
1/400

f/6.3

ISO 500

The **F** Stops
Here.

23

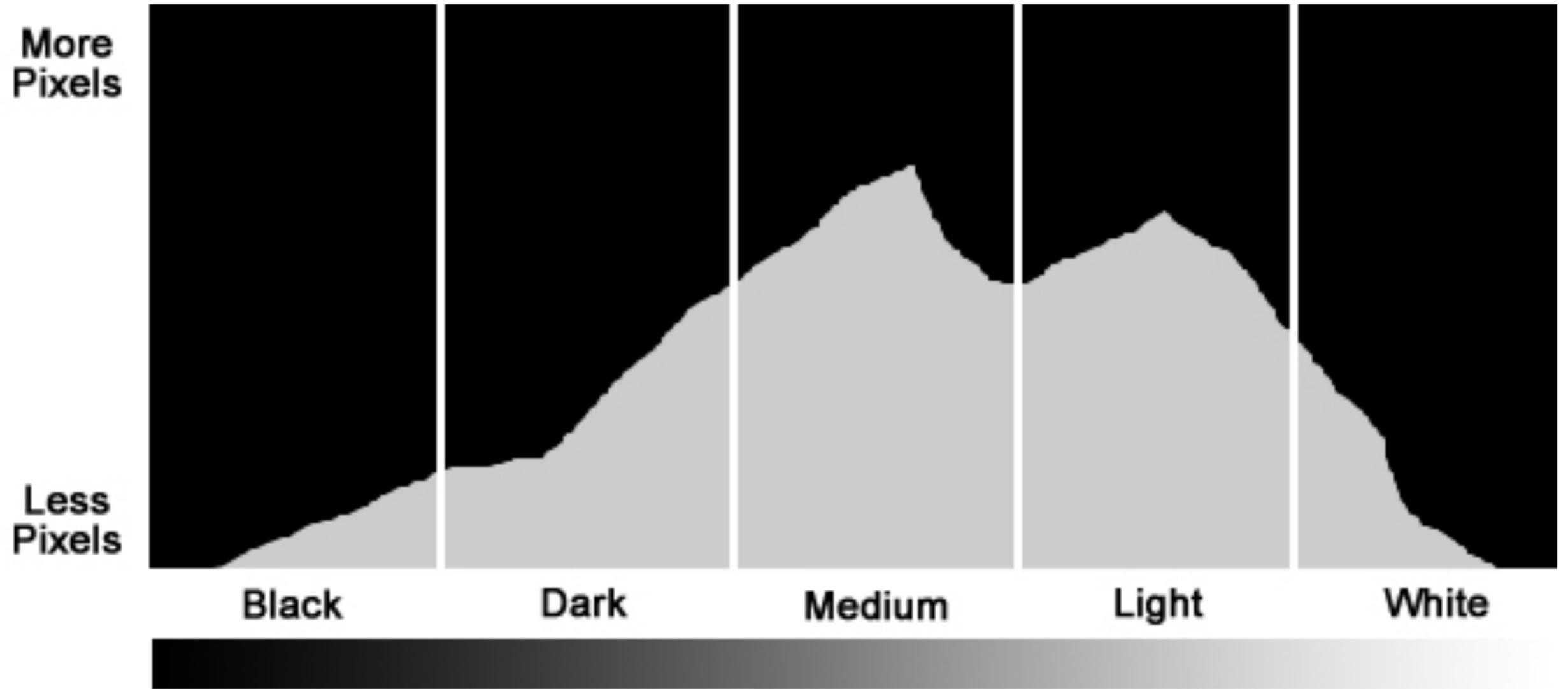


Canon EOS R
Tamron 100-400
339mm
1/400
f/6.3
ISO 500

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24

the histogram provides information about the quality of your exposure, specifically if you are clipping your highlights or shadow areas. your job when building an exposure to capture as much information as possible.



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The screenshot shows the following panels in the software interface:

- Histogram:** Displays a multi-colored histogram with technical data: ISO 250, 1/500 s, f/6.3.
- Layers:** Shows an 'Adjustment' layer named 'Luma Range...' applied to the 'Background' layer.
- Exposure:** Sliders for Exposure, Contrast, Brightness, and Saturation, all set to 0.
- High Dynamic Range:** Sliders for Highlight and Shadow, both set to 0.
- Levels:** A histogram with a white curve and sliders for Red, Green, and Blue channels. The 'RGB' channel is selected, with a white point at 0 and a black point at 255.
- Curve:** A grid with a white diagonal line and a black curve. The 'RGB' channel is selected. Input and output values are shown as '--'.
- Clarity and Vignetting:** Collapsible panels at the bottom.



Canon EOS R
Tamron 100-400
400mm
1/500
f/6.3
ISO 250

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Canon EOS R

Tamron 100-400

400mm

1/500

f/6.3

ISO 250

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27

you will need to
match shutter
speed to the
action of the
subject, its size
within the frame,
and your pixel
density.

Nikon d500

Tamron 150-600

600mm

1/250

f/6.3

ISO 250



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you will choose
between AF-S,
AF-C, and manual
exposure.

Nikon d500

Tamron 150-600

170mm

1/500

f/5

ISO 500



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you will also want
to examine the
difference
between tracking,
wide area, zone,
and crosshair
selection.

Sony A7Riv

Sony 200-600

500mm

1/400

f/6.3

ISO 640



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30

we combine a
good shutter
speed selection
with our technique
of exposing to the
left to arrive at a
successful
strategy.

Sony a6000

Sony 70-300

300mm

1/125

f/5.6

ISO 800



The **F** Stops
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31

we combine a
good shutter
speed selection
with our technique
of exposing to the
left to arrive at a
successful
strategy.

Sony a6000

Sony 70-300

300mm

1/125

f/5.6

ISO 800



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Sony A7Riv

Sony 70-200 f/2.8

200mm

1/1600

f/4

ISO 100



The **F** Stops
Here.

33



Sony A7Riv

Sony 70-200 f/2.8

200mm

1/1600

f/4

ISO 100



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34

* aperture

* depth of field

giraffe

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35

If we have an even
distribution of light
we will exposure
the image
properly.

Nikon d500

tamron 150-600

240mm

1/1250

f/5.3

ISO 200



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36

If we have an even
distribution of light
we will exposure
the image
properly.

Nikon d500

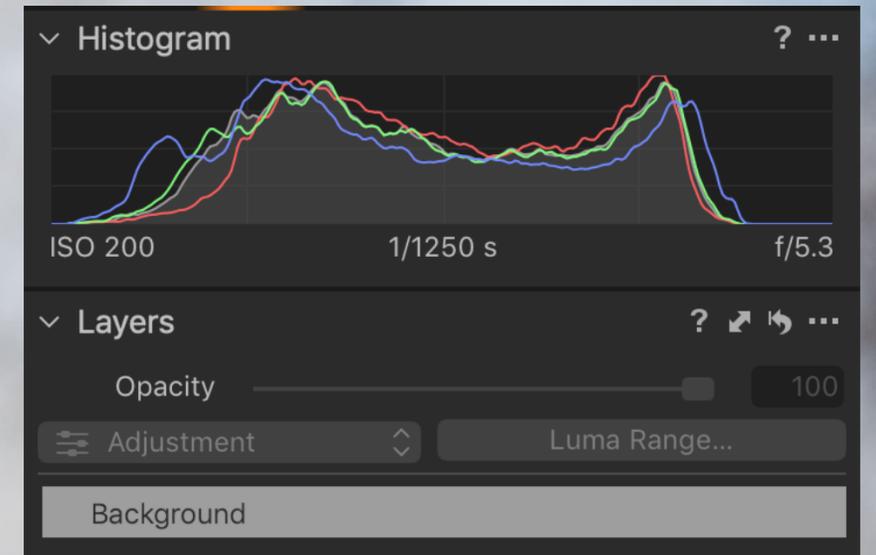
tamron 150-600

240mm

1/1250

f/5.3

ISO 200



The **F** Stops
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37

A proper shutter
speed can be the
most important
aspect to creating
an engaging
image.

Sony A7Riv

Sony 70-200 f/2.8

20mm

1/640

f/4

ISO 200



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naturally we just
aperture to adjust
depth of field. but
sometimes we
shoot with a
telephoto lens and
find we do not
have the option of
using bright
apertures.

Sony a6000

Sony 55mm

55mm

1/125

f/2

ISO 500



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factors to depth of
field

- * aperture
- * proximity
- * focal length
- * (minimally) sensor
size

Nikon d500

tamron 150-600

600mm

1/1000

f/6.3

ISO 1000



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40

Nikon d850

tamron 150-600

550mm

1/400

f/6.3

ISO 320



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Sony A7Riv

Sony 20mm f/1.8

20mm

1/400

f/2.5

ISO 250



The **F** Stops
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42

Sony A7Riv

Sony 200-600mm

600mm

1/400

f/6.3

ISO 640



The **F** Stops
Here.

43

Sony A7Riv

Sony 20mm f/1.8

20mm

1/400

f/2.5

ISO 250



The **F** Stops
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44

Sony A7Riv

Sony 70-200 f/2.8

117mm

1/800

f/4

ISO 100



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what to bring

The **F** stops
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lenses



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extras

- batteries
- memory
- monopod



MOS

MIKE'S CAMERA SCHOOL

PHOTO

VIDEO

MEDIA