

Session 2 Recap

- Light is light whether it's RGB or 100101
- The Balancing Act
- Aperture
- Shutter Speed
- ISO
- Making them work together

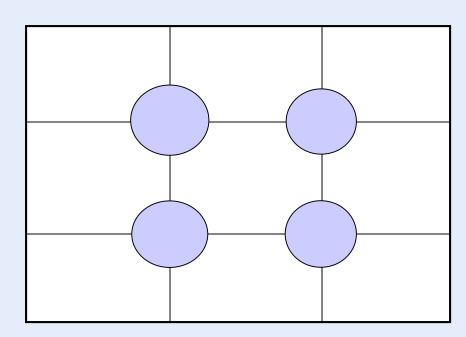
The Science of Art

- Composition
- Rule of Thirds
- Camera Controls
 - Shutter Speed
 - Aperture
- Controlling Motion
- Controlling Focus

Elements of Good Photography

- Composition
 - Rule of Thirds

Subject Placement



Elements of Good Photography

- Composition
 - Rule of Thirds

Horizon Placement

Example #1

Rule of Thirds put to use



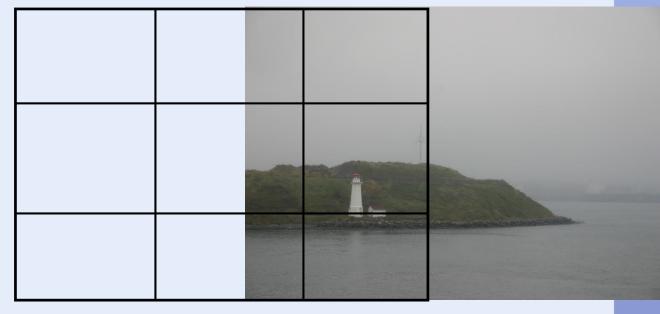
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Example #2

With and without the Rule of Thirds

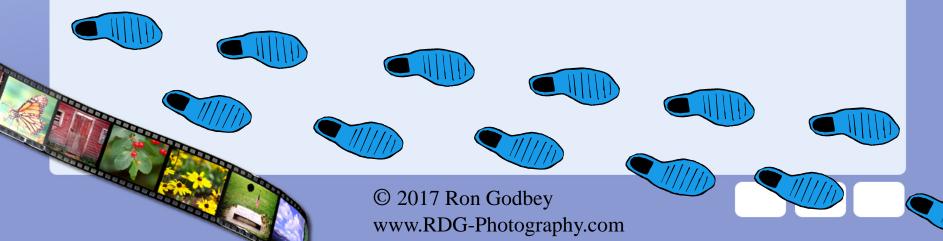


• Move the Camera to place the subject correctly in the view finder



f-Stop: *f* 8 Shutter Speed: 1/125 ISO: 100

- May Require:
 - Changing your Location
 - Zooming in or out
 - "Sneaker Zooming"
 - Moving closer or further away from your subject



• Example –Before



f-Stop: f 10 Shutter Speed: 1/100 ISO: 100

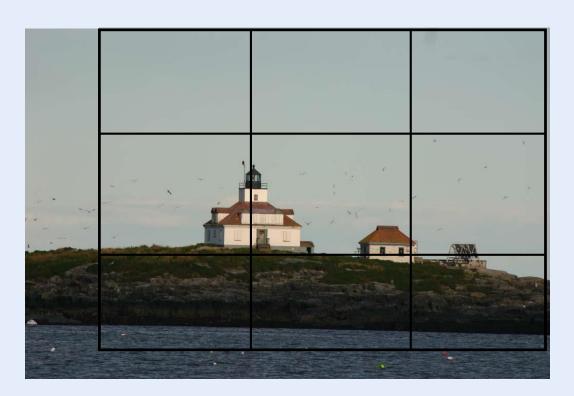
• Example –After



f-Stop: f9 Shutter Speed: 1/200 ISO: 100

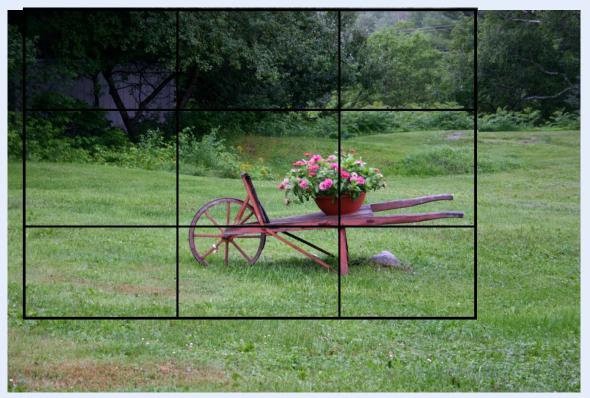
Post Production Cropping

Crop the picture after taking it



Post Production Cropping

Crop the picture after taking it



Pay Attention!

- Your eye conspires with your brain
 - You tend to tune things out
 - You see what you want to see
- The camera sees EVERYTHING!
 - It doesn't miss a thing
 - That's why the picture you thought you took is not the picture you ended up with

How do we Fight the Conspiracy???

 We can never completely eliminate the conspiracy –we are only human after all

• But, we CAN gain some control over our Eye/Brain Conspiracy.

How???

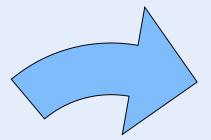


TAKE PICTURES!

Analyze your Pictures

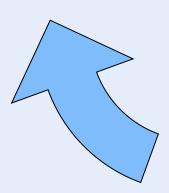
Take More Pictures!

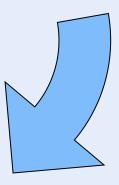
The Cycle of Learning



Take Better Pictures

Take Pictures





Analyze Your Pictures

Subject

- Determine what is your subject
- How to place the subject in the frame
- Determine what you want to say about your subject
- Look at your subject from several locations and vantage points
- Try several different shots from various spots

Subject

• Example –Before



f-Stop: *f* 4.5

Shutter Speed: 1/85

ISO: 100

Subject

• Example –After



f-Stop: *f* 4.5

Shutter Speed: 1/250

ISO: 100

Foreground

- Is it cluttered?
- Does it obscure the subject?
- Do you want it in focus?

Foreground

- Example
 - Bad



f-Stop: f 8 Shutter Speed: 1/160 ISO: 100

Foreground

- Example
 - Good



f-Stop: f 7.1 Shutter Speed: 1/160 ISO: 100

Background

- Is it cluttered?
- It is much more difficult to "see" than the foreground
- Does it obscure the subject?
- Does it detract from the subject
- Do you want it in focus?

Background

- Example
 - Bad



f-Stop: *f* 14 Shutter Speed: 1/125 ISO: 200

Background

- Example
 - Good



f-Stop: f 16 Shutter Speed: 1/125 ISO: 200

- Is it High-key or Low-Key?
- What do you want to say with the lighting?
- Are there deep shadows?
- To use the flash or not to use the flash
 - That is the question...

High-Key Lighting



f-Stop: *f* 16 Shutter Speed: 1/250 ISO: 100

High-Key Lighting

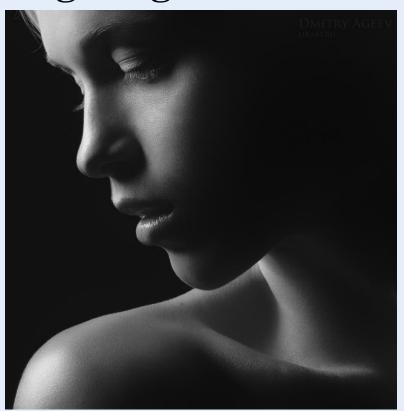


f-Stop: *f* 5

Shutter Speed: 1/60

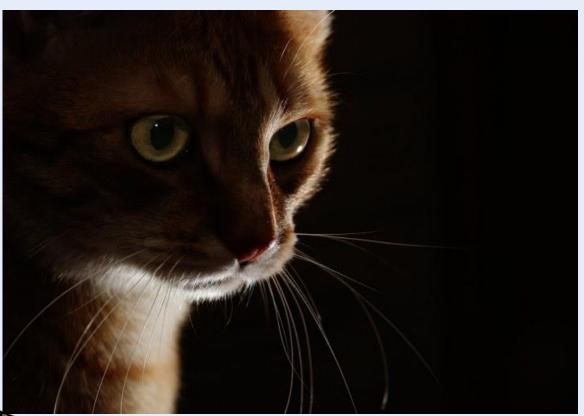
ISO: 100

Low Key Lighting



f-Stop: *f* 14 Shutter Speed: 1/125 ISO: 50

Low Key Lighting



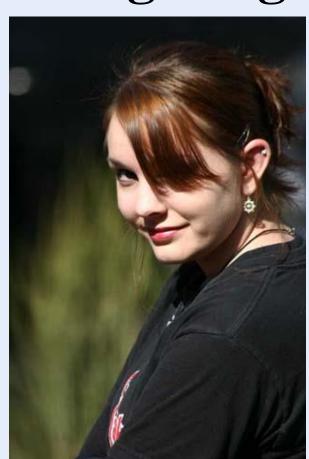
f-Stop: f 2.0 Shutter Speed: 1/60 ISO: 100

- Example
 - Bad



f-Stop: f 5.6 Shutter Speed: 1/60 ISO: 100

- Example
 - Good



f-Stop: f 6.3 Shutter Speed: 1/400 ISO: 100

Color

- What colors are in the scene?
- Is there a "message" in the colors?
- Do the colors work together?
- Can you control the colors?

Color

- Color is effected by:
 - Exposure
 - Over Exposed
 - Colors washed out
 - Under Exposed
 - Colors muted

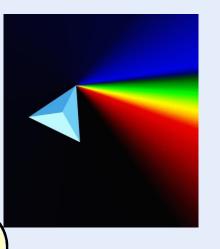




Color

- Color is effected by:
 - Lighting
 - Daylight
 - Indoor Light
 - Tungsten
 - Florescent







Color

- Color Temperature
 - Color Rated by Degrees Kelvin

Temperature	Source
1,700 K	Match flame
1,850 K	Candle flame, sunset/sunrise
2,700-3,300 K	Incandescent light bulb
3,200 K	Studio lamps, photofloods, etc.
3,350 K	Studio "CP" light
4,100 K	Moonlight, xenon arc lamp
5,000 K	Horizon daylight
5,500-6,000 K	Vertical daylight, electronic flash
6,500 K	Daylight, overcast
9,300 K	CRT screen



Color Correction

- White balance
 - Usually automatic
 - Makes whites appear white

- Flash
 - Corrects for color

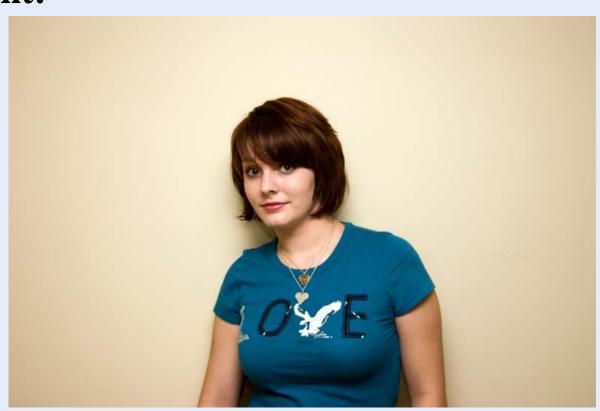
Color Corrected!



Color

Ambient Light:

Tungsten



f-Stop: *f* 5.0

Shutter Speed: 1/60

ISO: 100

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Color

Post Production

Correction



f-Stop: f 5.0

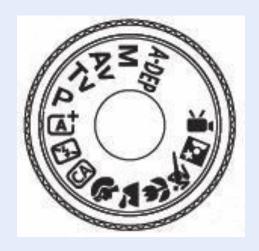
Shutter Speed: 1/60

ISO: 100

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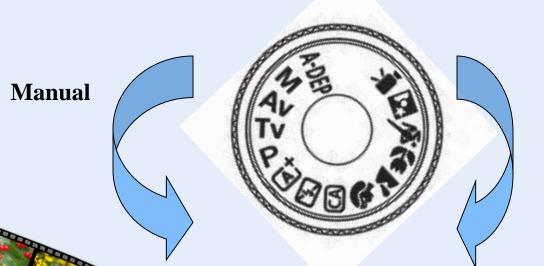
Make your Camera Work

- Know the settings
 - How to control <u>Aperture</u>
 - How to control **Shutter Speed**



Make your Camera Work

- Know the Settings
 - Automatic –for Beginners
 - Manual -for Advanced



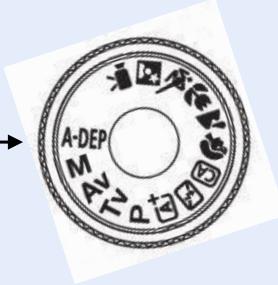
Automatic

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Dial

Automatic Depth of Field

"I'll try to get it all in focus"



Dial

Manual

"I'm not doing anything -you figure it out all by yourself!"

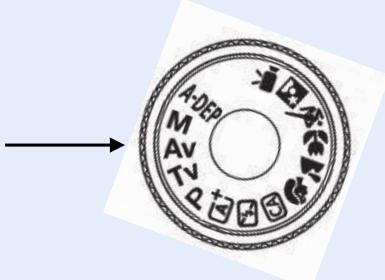


Dial

Aperture Priority

"You handle the Aperture, I'll handle the Shutter Speed"

• To control Depth of Field

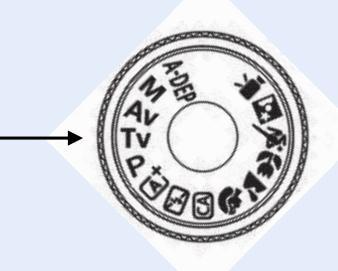


Dial

Time Priority

"You handle the Shutter Speed, I'll handle the Aperture"

• To control Motion Blur

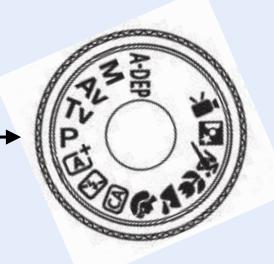


Dial

Program

"I'll set Aperture and Shutter Speed, but you can play with other stuff if you want"

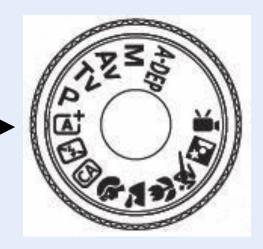
• To make adjustments



Dial

Full Auto

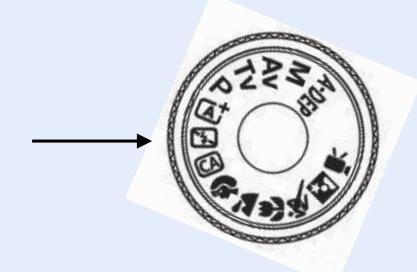
"Don't worry your pretty little head, I'll do it all for you"



Dial

Full Auto -no Flash

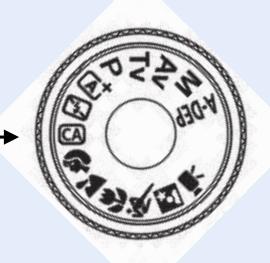
"OK –I'll do it all, but NO Flash"



Dial

Almost Auto

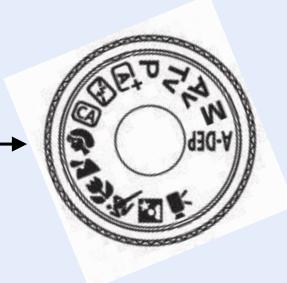
"OK –you set what you want – I'll do the rest"



Dial

Portrait

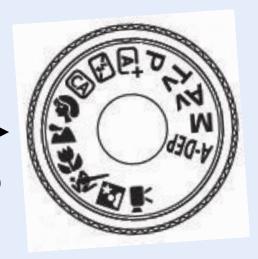
- Shallow Depth of Field
- Large Aperture (Priority)
- Faster Shutter speed
- Flash if Needed (automatic)
- Multiple shots (hold down shutter release)



Dial

Landscape

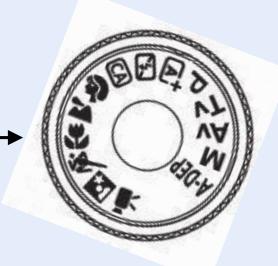
- Long Depth of Field
- Small Aperture (Priority)
- Slower Shutter speed (subject is not moving)
- No Flash Used (subject too far for flash)



Dial

Close-ups

- Shallow Depth of Field
- Large Aperture (Priority)
- Fast Shutter speed (as fast as possible)
- Flash if Needed
- Single shot



Dial

Fast Action

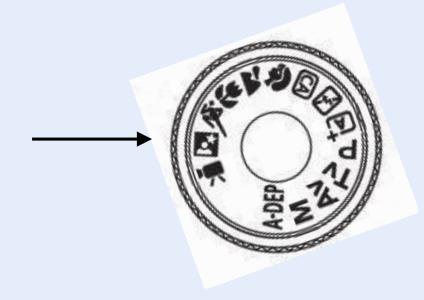
- Shallow Depth of Field
- Large Aperture
- Fast Shutter speed (Priority)
- No Flash Used
- Multiple shots (hold down shutter release)



Dial

Night Portrait

- Shallow Depth of Field
- Large Aperture (Priority)
- Slow Shutter speed
- No Flash Used



Dial

Movie Mode

"Lights, camera –ACTION!"



Controlling Movement

- Shutter Speed
 - Fast for stop action
 - Slow to show motion
- Fast is Easy!
 - But make sure you have enough light
- Slow is Harder
 - Hold camera steady!

Slow Shutter Speed

Steady Camera Techniques













Man-pod



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Flash!

Freeze Motion

- Great for Snapshots
- Limited Range
- Bad for Photographs
- Color Correction
- Flat, Harsh Lighting
- Red Eye
- Beware of Recycle Time

Focus

- Focus is the MOST important aspect
 - Most other errors can be adjusted in the Digital Darkroom.
 - Focus cannot be fixed!
 - Know how your camera focuses.
 - Know what you want to focus on.
 - Know how to get your camera to focus on what you want it to focus on.

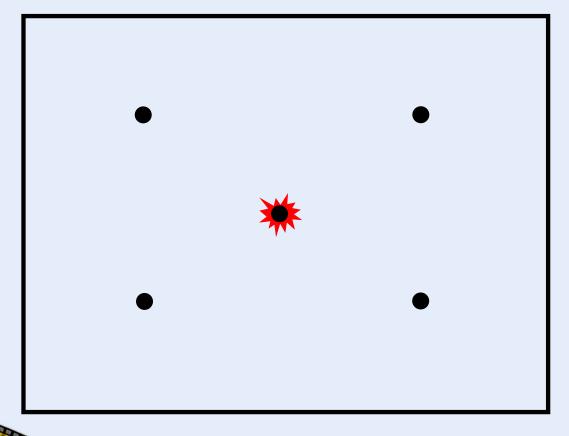
Auto Focus

- It's Great when it Works!
 - Is very precise
 - Takes the guess work out of focusing

- · It's a Disaster when you don't pay attention!
 - You have to really look at what it's focusing on
 - Don't leave all the work to the Camera

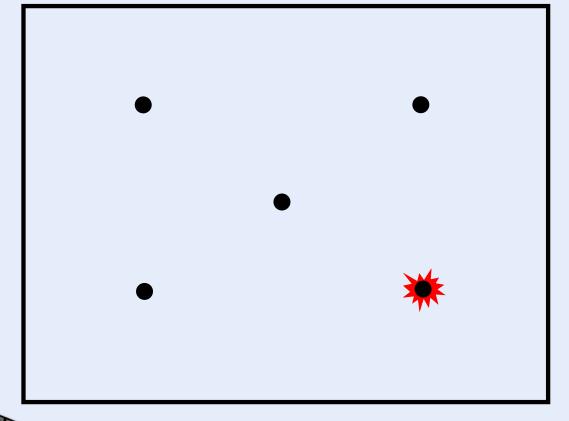
Auto Focus

View Finder



Auto Focus

View Finder



Focus

Example

Good!



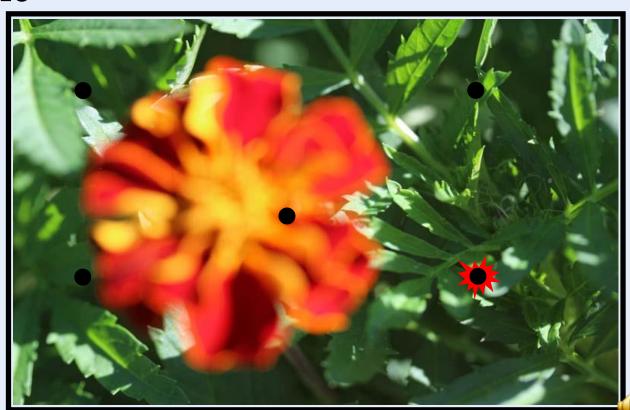
f-Stop: f 4.0 Shutter Speed: 1/125 ISO: 100

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Focus

Example

BAD!



f-Stop: f 4.0 Shutter Speed: 1/160 ISO: 100

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Rule of Thumb #6

- Learn How the Camera Uses Autofocus
 - Generally Focuses on what is closest to the Camera
 - Focuses on the object taking most of the viewfinder space
 - May be confused by:
 - Movement
 - Reflection
 - Low Light
 - Low Contrast

Do it Yourself

- Don't be afraid to switch to Manual Focus
 - If the Camera Just Doesn't Get it
 - If it won't focus on what YOU want it to
 - For creative or special situations
- You are in charge –NOT the Camera!

Show and Tell!

- Let's look at your Good Pictures
 - Why is it good?
 - Is the picture how you imagined it before you released the shutter?
 - What did you do right?
 - What could you have done to make it better?
 - From what you have learned so far, tell us about the Science (i.e. shutter speed, aperture, exposure)

Show and Tell!

- Let's look at your Bad Pictures
 - Why is it bad?
 - What could be done to make it better?
 - What would you do differently next time?
 - How did you see it in your head while you were taking it?
 - Why didn't it come out that way?

Session 3 Recap

- Composition
- Rule of Thirds
- Camera Controls
 - Shutter Speed
 - Aperture
- Controlling Motion
- Controlling Focus

Next week

• Session 4:

The Equipment you Already Have is all you Need

Assignment

- Bring your Camera!
 (With the Instruction guide if you have it)
- Take some pictures
- e-mail me the best one.
- e-mail me the worst one
- HAVE FUN!