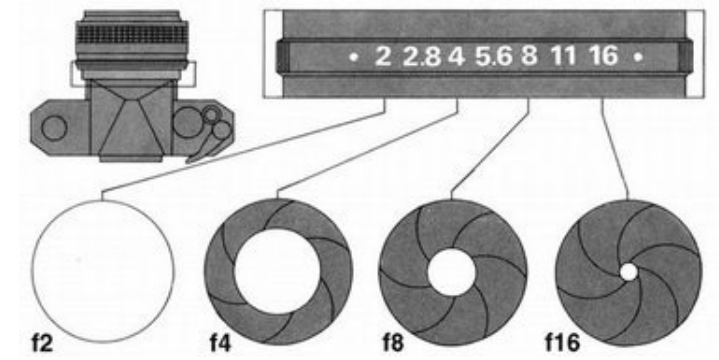
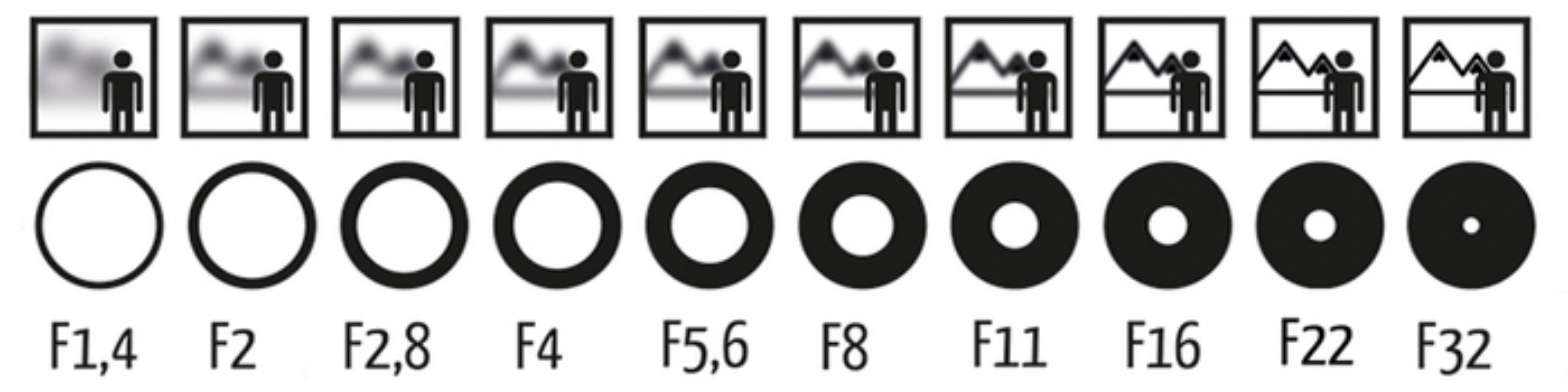


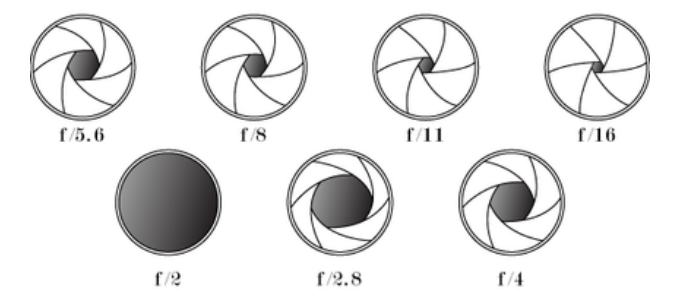
Photography Cheat Sheet

Aperture



Aperture
Aperture numbers (f stops) as they appear on the camera.

The aperture is the hole in the lens that the light has to pass through. The aperture is a variable opening between the glass of the lens elements. The aperture never closes all the way and (like the shutter).

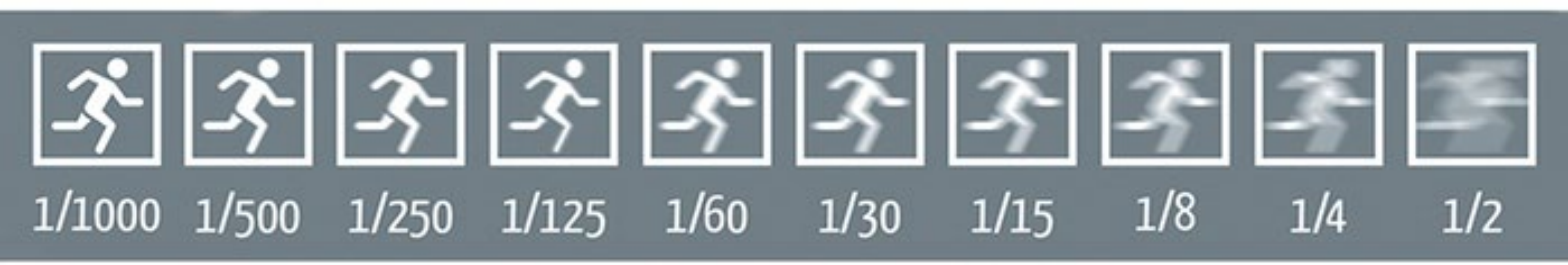


→ 1.8 2 2.8 4 5.6 8 11 16 getting smaller

Each opening that let's in half as much light as the one to it's left, and is twice as much as the one to it's right.

Exposure:
Darker underexposed
Brighter overexposed

Shutter Speed

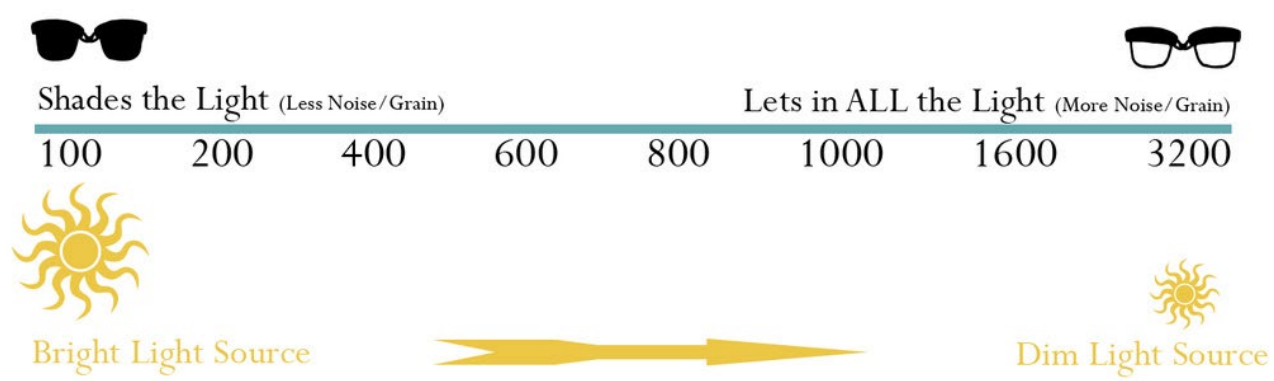


Shutter fast shutter speed →
1/1000
1/500
1/250
1/125 1/60 1/30
1/15 1/8 1/4 1/2 slow shutter speed

ISO

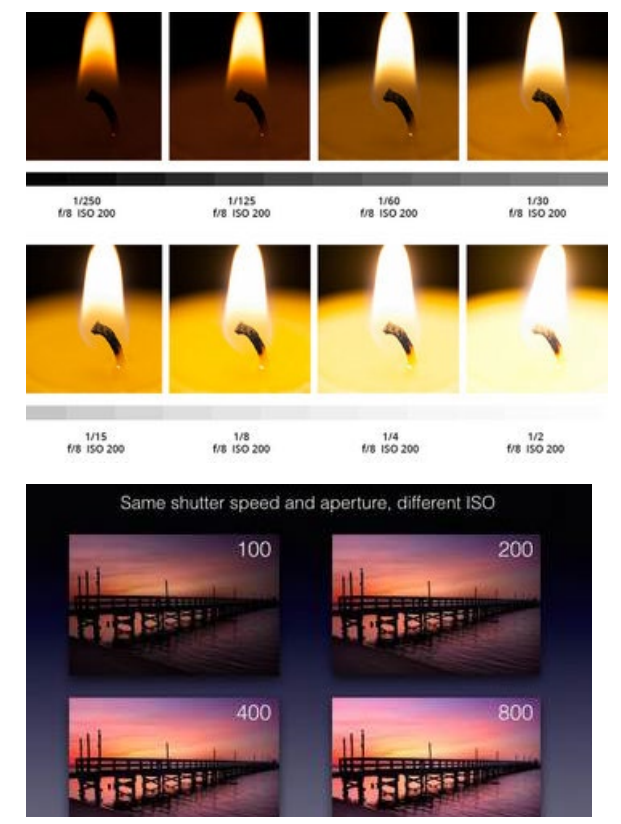


Dad's Photo Lessons - Print-Sense Photography & Design
ISO - Light Sensitivity



Daylight (well lit) → more crisp photos
Night (dark) → high possibility of noise

ISO low sensitivity →
ISO 50 ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600 ISO 3200 ISO 6400 ISO 12800 ISO 25600
→ to high sensitivity



Parts of the Camera (General)



White Balance
*auto * daylight * shade *tungsten * fluorescent

White balance (WB) is the process of removing unrealistic color casts, so that objects which appear white in person are rendered white in your photo. Proper camera white balance has to take into account the “color temperature” of a light source, which refers to the relative warmth or coolness of white light. Our eyes are very good at judging what is white under different light sources, but digital cameras often have great difficulty with auto white balance (AWB) — and can create unsightly blue, orange, or even green color casts.

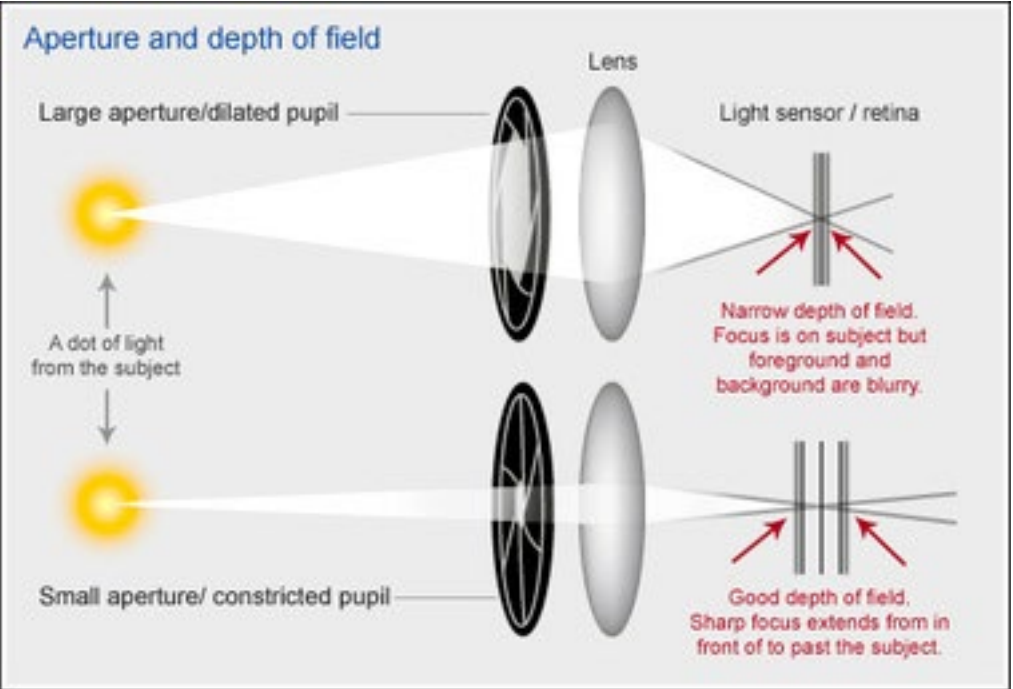
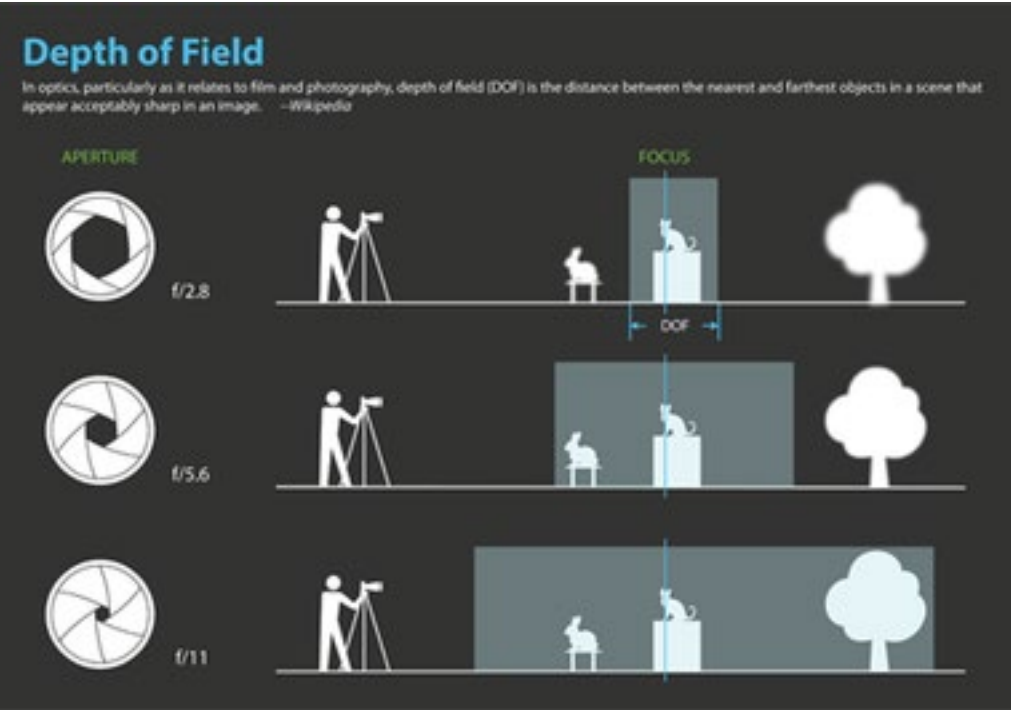
Depth of Field

For many cameras, depth of field (DOF) is the distance between the nearest and the farthest objects that are in acceptably sharp focus in an image. The depth of field can be calculated based on focal length, distance to subject, the acceptable circle of confusion size, and aperture. A particular depth of field may be chosen for technical or artistic purposes. Limitations of depth of field can sometimes be overcome with various techniques/equipment.

Angle to Subject (Object, Person or Scene)



| | | | |
|---|---|--|--|
|  Auto |  Tungsten |  Fluorescent | |
|  Daylight |  Cloudy |  Flash |  Shade |



Composition

| Build the Picture | Consider Graphic Images | Lighting Techniques | Use Space + Depth |
|------------------------------------|-----------------------------------|---------------------|------------------------|
| Singling out the Subject | Bold Shapes | Natural Light | Framing the subject |
| Viewpoint | Visual Rhythm | Artificial Light | The lead in |
| Format (Horizontal Vertical) | Pattern | Towards the light | Focus to control depth |
| Point of Interest | Surface Texture | Back lit | Sense of Scale |
| Harmony / Balance vs. Asymmetry | High Contrast vs. Even Tone | Morning Light | Linear Perspective |
| The Critical Moment | Overexposure vs. Underexposure | Evening Light | Haze and Distance |

More Composition Tips / Tricks

1. Apply the Rule of Thirds

2. Look for Triangles

All you need are three visual points that exist in a somewhat triangular formation. The viewer's imagination will connect the dots and tie all elements of the photograph together!

3. Consider Framing

Frames can be natural, such as overhanging tree branches or rock formations, or they can be man-made objects, such as doorways.

4. Look for Symmetry

To master the art of symmetry, you must consider size, shape, color, line, and texture as elements to balance.

5. Use Juxtaposition

The most common way to achieve this is to place or arrange objects in adjacent or opposing locations to highlight their differences.

6. Look for Leading Lines

Leading lines literal or implied lines create a path for the viewers' gaze to follow.

7. Use Diagonal Lines

Diagonal lines convey strength and motion.

8. Incorporate Curves

Curving lines soften an image and convey a natural organic look that lends itself perfectly to landscape, architecture, drone, and urban photography.

9. Keep the Background Simple

10. Let the Background Show Context

Action in the background to be visible but also not be so distracting that it overwhelms the subject and spoils the composition.

11. Use a High Horizon Line

Use a high horizon line in your composition when you want to emphasize the foreground.

12. Use a Low Horizon Line

If you want to emphasize the sky, use a low horizon line.

13. Add Depth by Including Objects at Different Distances

Having a point-of-interest in the foreground, the middle ground, and in the far distance is a great technique for adding depth to any composition.

14. Include a Person or a Familiar Object in a Landscape to Show Scale

15. Shoot from an Unusual Vantage Point
Add interest by shooting from an unexpected place. Consider vantage points that aren't usually seen, and take viewers on a unique journey.

16. Use Contrast to Add Interest

Contrast is the key to avoiding "flat" images that look dull and one-note. Contrasting colors can energize a photograph, but so can big differences in light and shadow.

17. Use Repetition to Your Advantage

An object or shape that repeats can create a dominant pattern.

18. Beyond the Edge of the Picture

When an element of your subject is offstage, your viewers want to know more.

19. Use Lines That Aren't There

20. Show Your Subjects in Motion

21. Get Very Close

Framing & Exposure

Types of Camera Lenses by Focal Length and Uses

| Focal Length | Type of Lens | Primary Uses |
|--------------|------------------|--------------------------|
| 4mm - 14mm | Fisheye | Abstract, creative |
| 14mm - 35mm | Wide angle | Landscape, architecture |
| 35mm - 85mm | Standard | Street, travel, portrait |
| 85mm - 135mm | Short telephoto | Portraits, street |
| 135mm+ | Medium telephoto | Sports, wildlife, action |
| 35mm - 200mm | Macro | Close ups |
| Undetermined | Tilt-shift | Architecture, fine art |

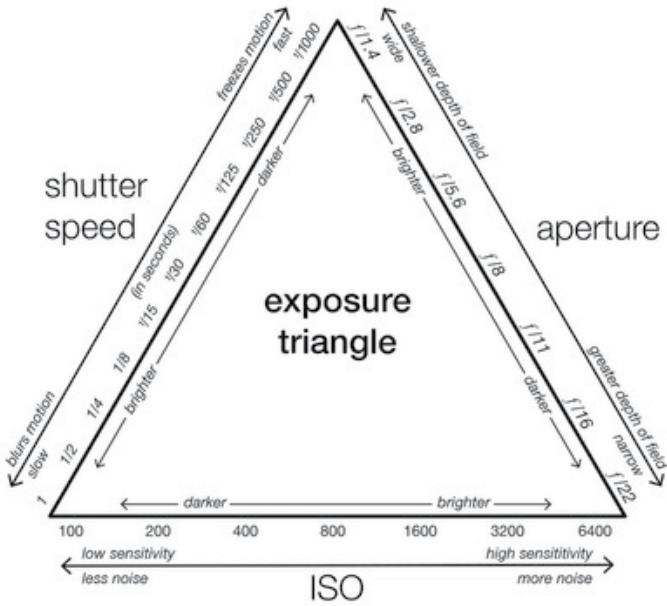
Framing is the presentation of visual elements in an image, especially the placement of the subject in relation to other objects. Framing can make an image more aesthetically pleasing and keep the viewer's focus on the framed object(s).

Depth of field– The distance between the nearest and furthest points in which an object will be in focus.

White space – Negative space used in framing to increase aesthetic appeal. Negative space is used mostly as a neutral or complementary background in order to draw focus upon the central subject.

Vignetting – A naturally occurring optical phenomenon where the brightness or saturation is reduced at the periphery of an image.

Perspective distortion – An optical technique where lenses of different focal lengths are used to affect the perceived distance between the foreground and background. Wider lenses extend the distance and show more of the background.Longer lenses compress the distance.



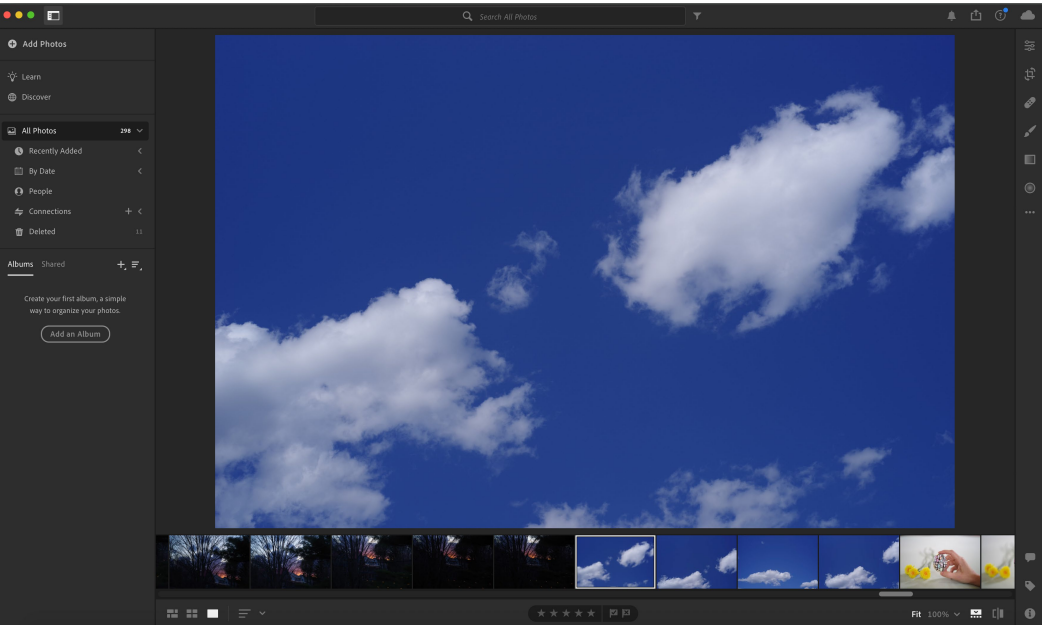
Editing

- Throw away:
- Anything out of focus.
 - Anything that is too dark, too light or too boring.
 - Photos with some technical problems lost high-lights, bad colour.
 - All pictures that does not tell a story!
 - Any picture without a clear subject.

- Keep:
- Photos with a clear story to tell.
 - The pictures that you show action or even better of the peak of action.
 - The photos that you were taken close to the sub-ject, so they can make good dominant photos.
 - Pictures that been taken is interesting angles or perspectives.

Adobe Lightroom

Navigator



Marking Favorites

Adjustments

Presets

Digital Management

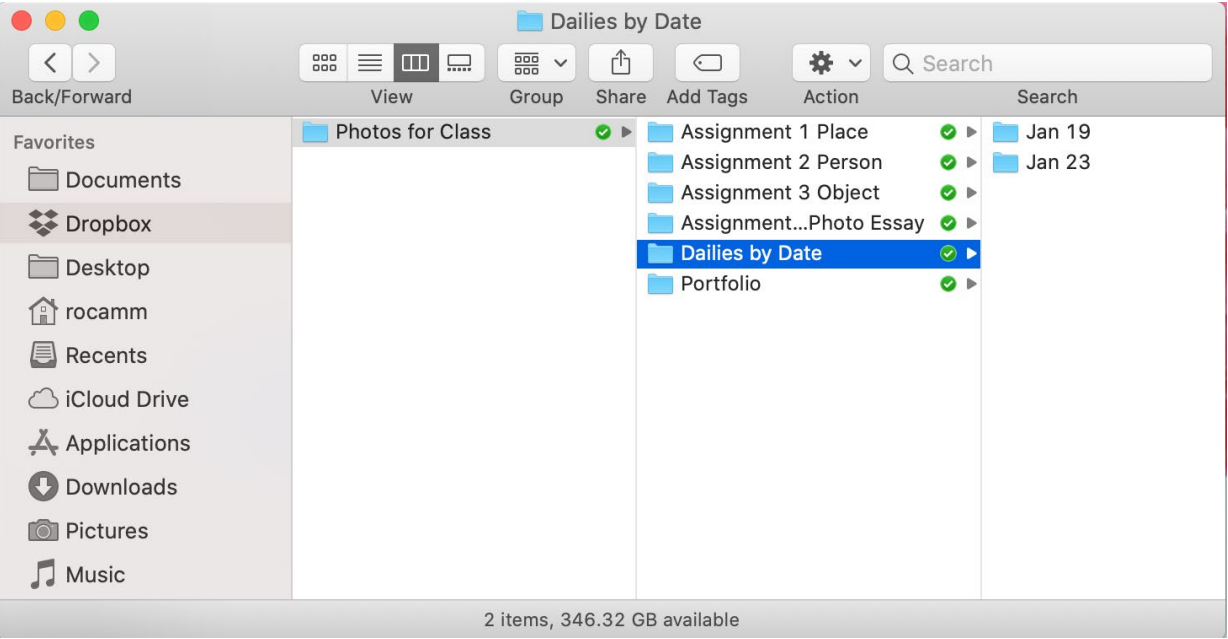


Photo Management:
Digital cameras are great, but they can end up with thousands of photos!

Develop a system that allows you to know when you took the photos, what the subject matter of the photo is, and whether it has been used or not.

Processing Images:
Batch photos- they are a group of photos of one theme with others of the same theme. This makes it all of them easier to find.

Track Information:
Record the 6 w's for each of the photo as you take it- this is much easier than finding the information later.

Store:
File Management is key, keep your images organized well from the beginning so that it is easy to come back to

Mark:
Choose your best images in lightroom and create folders that clearly mark your edited and original photos

Export:
A jpg version of your images and can keep in a handy folder.

Delete:
The photos you do not want to use at the beginning before you store them

The 6 W's:
Who: is in your photo?
What: are they doing?
Where: are you?
When: did this happen?
Why: is this event taking place?
How: are you doing? What went into the event, what did it take to get to this point?

Make sure you ask these six questions at any event where you are taking the photos. What makes a good photography?

Keep detailed notes so that you can come back to these later on