

CDES 206: LECTURE

Introduction to Photo Communication & Digital Imaging

Lecture: Byron Wolfe

Lab Instructors: Byron Wolfe, Ron Dejesus, John Grant

Course web site: http://byronwolfe.typepad.com/cdes_photography/
(can be accessed through your Portal account or byronwolfe.com)



The screenshot shows the homepage of Byron Wolfe's website. At the top left is a logo of a hand holding a camera. The main navigation includes 'CONTACT', 'PROJECTS', and 'OTHER'. Under 'PROJECTS', there are links for 'Overview', 'Muybridge in Latin America', 'Reconstructing the View', 'Everyday', 'Domestic Excavations', 'Yosemite in Time', 'Campus Life', 'Third Views, Second Sights', and 'Miscellaneous'. A featured article titled 'Eadweard Muybridge (aka Eduardo Santiago Muybridge) in Latin America' is highlighted with a portrait of the photographer. The text of the article begins: 'In the dead of night in 1875, just after being acquitted for the murder of his wife's lover, Eadweard Muybridge boarded the Pacific Mail Steamship Company's vessel The Honduras. He temporarily took on the name Eduardo Santiago Muybridge and spent a year photographing all along the Central American Pacific Coast with particular emphasis given to his travels in Guatemala and Panamá.' A 'Read more...' link is provided. The URL <http://byronwolfe.typepad.com/byr/> is displayed at the bottom.

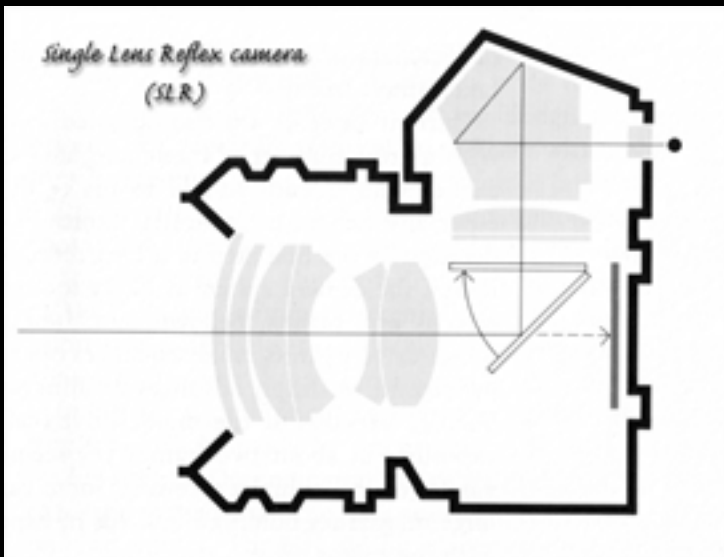
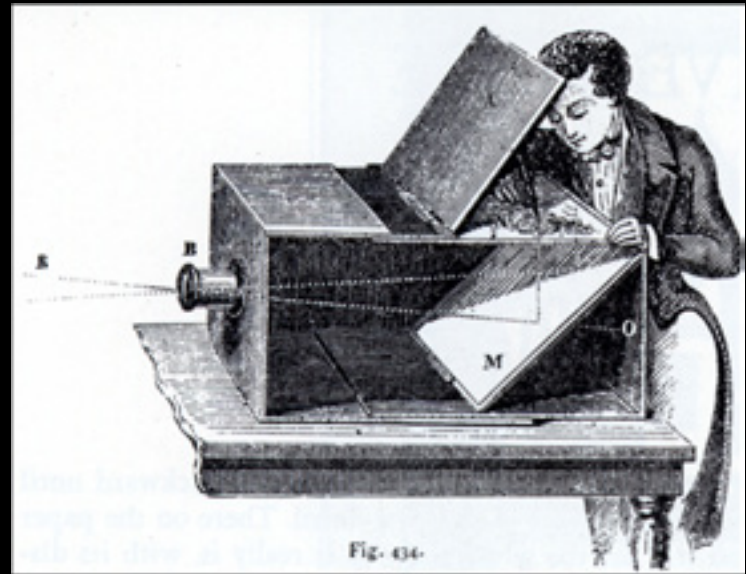


The screenshot shows the course website for CDES 206: Introduction to Photo Communication and Digital Imaging. The header includes the course title and a date of January 23, 2012. A 'Welcome, please subscribe' message is displayed, featuring a 'feedblitz' logo and a 'Subscribe me!' button. The page is organized into several sections: 'COURSE RESOURCES' (including 'LECTURE LAB, READING SCHEDULE', 'FAQ', 'EQUIPMENT RESOURCES', 'THE PHOTO MINDS', 'HOW TO SUCCEED', and 'SATISFACTION'), 'LAB RESOURCES' (including 'HOW TO' and 'EXERCISES'), and 'PROJECTS' (including 'OLYMPIA CLASS'). A sidebar on the right contains 'SUBSCRIBE TO CDES 206', 'CATEGORIES', 'ANNOUNCEMENTS', 'CONTACT & OFFICE HOURS', 'EVENTS/CALENDAR', and 'NON-URGENT'. The footer includes a 'Printed by Byron Wolfe on ANNOUNCEMENTS | Permalink | Delicious | Digg' link.



The screenshot shows the camera search page on dpreview.com. The top banner features '100% Online Executive Certificates in:' with categories like 'Negotiation', 'Leadership & Management', and 'Business Administration', and a 'REGISTER TODAY!' button for the University of Notre Dame. The main content area is titled 'Camera feature search' and includes a search filter for 'Body style' with two categories: 'Fixed lens camera (426)' and 'Interchangeable lens camera (312)'. Under 'Fixed lens camera', there are sub-categories like 'Ultra compact (100)', 'Compact (200)', 'SLR for (bridge) (10)', and 'Large sensor Compact (16)'. Under 'Interchangeable lens camera', there are sub-categories like 'Rangefinder style mirrorless (10)', 'SLR style mirrorless (7)', 'Compact SLR (20)', 'Mid-size SLR (16)', and 'Large SLR (10)'. A 'Zoom range' filter is set to 'Any'. The page also features a 'CREATIVE WRITING FROM ENTERTAINMENT WEEKLY BFA ONLINE' advertisement and a 'Member login' section with fields for 'E-mail' and 'Password'.

Camera basics



There are only four ways to control exposure.

Aperture (or f-stop) : An adjustable opening that changes size to allow more or less light to enter the camera.

Shutter : A timed duration that allows more or less light to enter the camera.

ISO : The adjustable sensitivity of a camera to light.

Light intensity : The brightness of light, often linked to the time of day.



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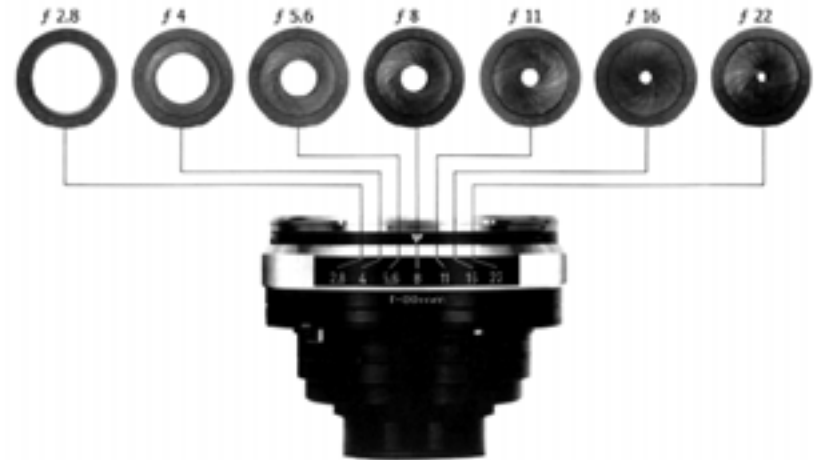
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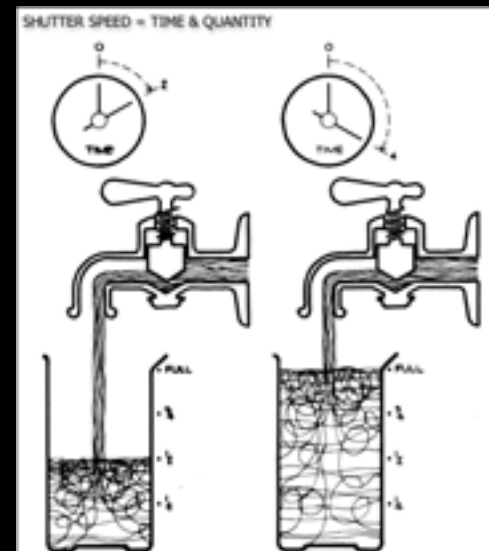
ISO : The adjustable sensitivity of a camera to light.

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Shutter : A timed duration that allows more or less light to enter the camera.



Shutter speeds are written in a fraction of a second (the “s” indicates **seconds** and is often not written or noted on your camera).

1/500 1/250 1/125 1/60 1/30 1/15 1/8 1/4 1/2 1 2 4 8 15

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shutter speeds (in seconds)



EXPOSURE MODES



- Av = aperture priority
- T or S = shutter priority
- M = manual

An “M” setting generally indicates that your camera allows for independent control of BOTH aperture and shutter speed.

Manual control of exposure is imperative for both *quality* and *creative* purposes, and it’s what’s required in this course.

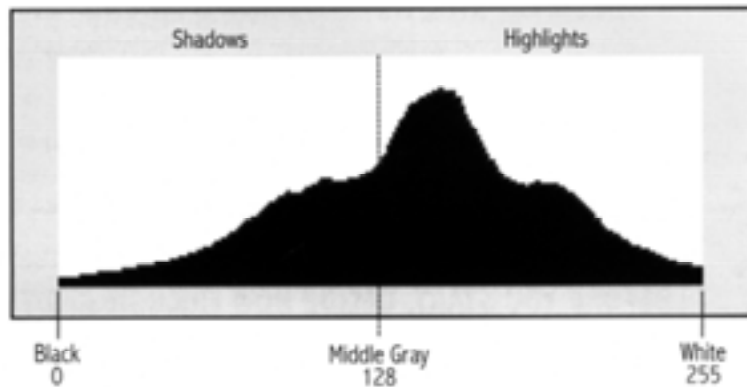
As you look for a camera, make sure it has a big “M” on the control dial.

M



HISTOGRAM: A GRAPH OF A DIGITAL IMAGE

A histogram shows the brightness values of all the pixels in an image. The height of each bar represents the total number of pixels of a given brightness in the whole photo. The spread shows the frequency of each of the 256 tones available for the picture. Pure black is 0; middle gray is 128, and white is 255.



FOUR PROJECTS + SIMPLE WEB PORTFOLIO

1. **Looking Close**: the formal elements
2. **Same Person, Same Place**: using the photographer’s toolbox
3. **A Visual Haiku**: storyboarding ideas and concepts
4. **Seeing and color**: changing your visual perception

1. Looking Close: the formal elements



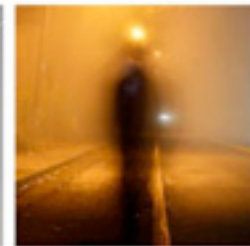
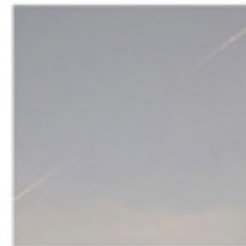
2. Same Person, Same Place: using the photographer's toolbox

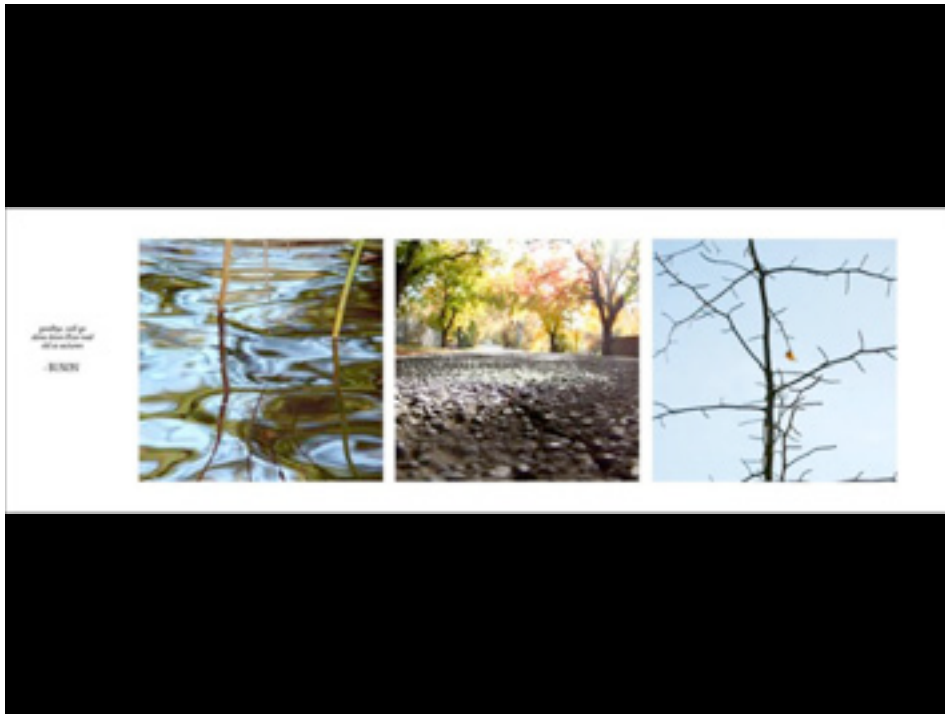


the sun
is shining
in the sky



the sun
is shining
in the sky





4. Seeing and color: changing your visual perception



Tasks for next week:

Access the course web site and subscribe

Review the syllabus and schedule

Assemble your required materials

Get your camera - bring it to lab this week for approval.

If you have research questions, email your lab instructor **with links to specific models.**