

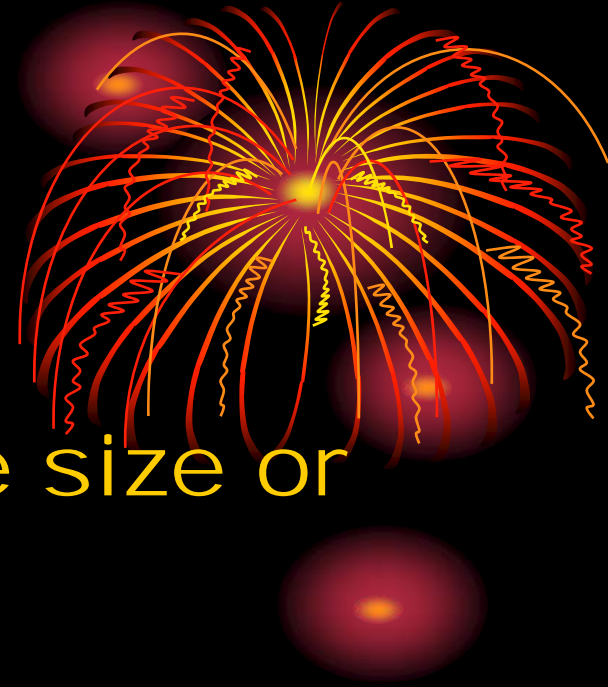


Macro and Close Up Photography

Ohio Valley Camera Club

Presentation by: Tyson Smith & Rick Jackson

What Is It



- Macro – shooting at life size or larger
 - 36 mm full frame
 - 24 mm DX frame
- Close up – not well defined but a small subject up to 5 inches
- So it is something small or a small part of something large

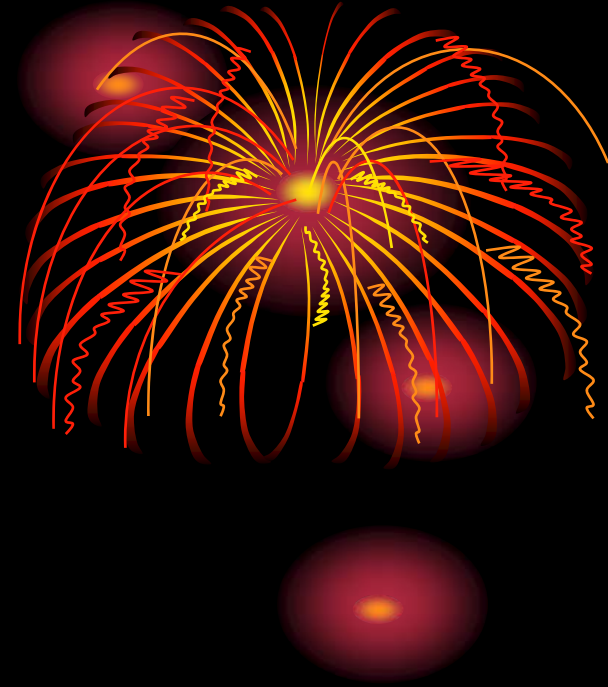
Magnification



- Divide the size on the sensor by the size of subject
- So 1 inch sensor image of 4 inch flower is 1:4 magnification
- And 1 inch sensor image of 0.5 inch bug is 2:1 magnification

Topics

- Equipment
- Technique
- Subjects
- Digital Darkroom



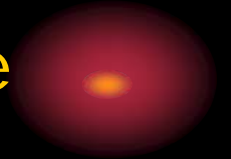
Camera

- Compact – many have macro
 - Simple to work
 - Small size
- DX D-SLR
 - Magnification factor for lens for more working distance
 - More DOF with the smaller image so better for subject and worse for background
- FX D-SLR – acts like film 35mm



Lens

- Macro
 - 50mm – short working distance
 - 105mm – moderate working distance
 - 200mm – longer therefore better working distance but expensive



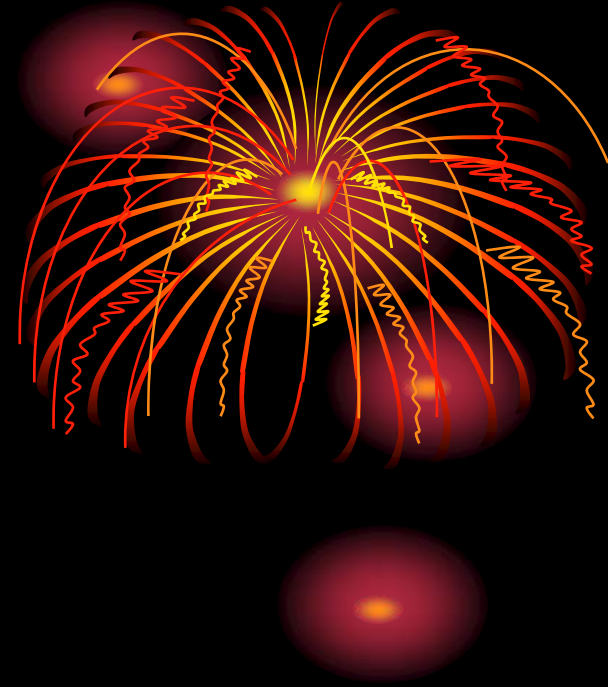
Lens



- Regular
 - Close-up filter – work best on long lenses
 - Extension tubes
 - Tele-converters
 - Reversing rings
 - Stacking lenses
 - Bellows

Tripod

- Ball head favored
- Legs that go flat
- No center post or movable
- Stable with weight or carbon
- Focusing rails
- L bracket for camera to move between landscape and portrait



Flash

- On camera flash doesn't work well
- Off camera wired or wireless flash
- Ring flash
- Nikon system



Other Useful Things

- Diffuser
- Reflector
- Clamps
- Wind breaks
- Fake backgrounds



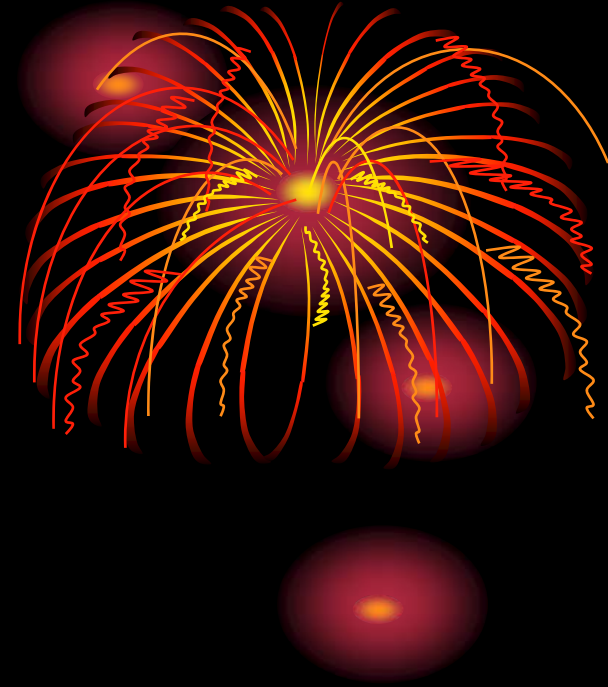
Techniques

- Stabilize camera
- Control light
- Control background



Stabilize

- Hand held
- Bean bags
- Tripod
- Have to be close enough for magnification you want without disturbing the subject



Light



- Problem is long shutter time for DOF plus vibrations and movements from magnification, wind, and live subject
- Solution – light
 - Subject – direct and fill
 - Back ground
- But too much of wrong light is also a problem so diffuse

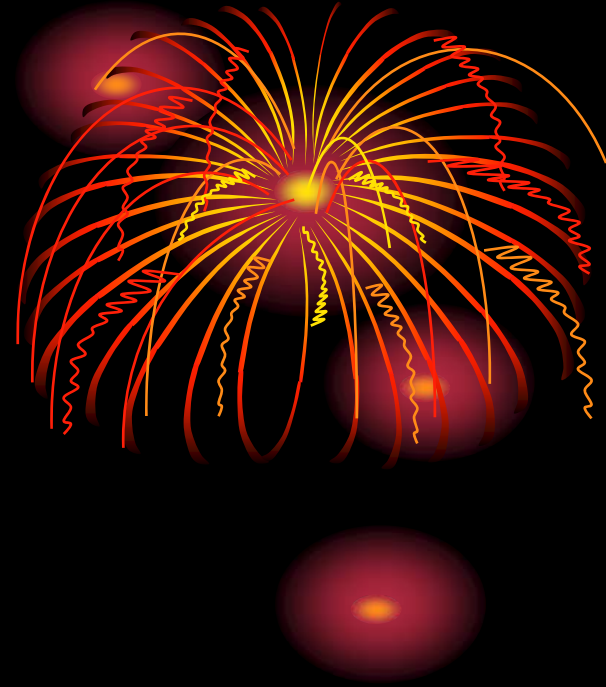
Backgrounds

- Look at subject to find non-distracting background
- Use it to complement the subject
- Fake it
 - Back drops
 - Posters
 - Panels



Subjects

- Every day objects
 - Shiny things
 - Drops
 - Anything around the house
- Flowers
- Insects
- Textures
- Colors
- Abstracts
- People



Digital Darkroom



- Photoshop tool
 - All the regular work flow tools
- Helicon filter

