Introduction to Close Up Photography

Inexpensive Tools for Macro Photography

What is "Macro" Photography

- Make big images of small things
- Get closer than with existing lens allows
- Life size the image is the same size as the object (only applies to film)
- Most "macro" lenses don't get close enough for life size image capture

"Life Size" Reference



- Flower 3/8 inch
- 100mm macro lens
- Closest focus 6"

The Facts

Many zoom lenses have "macro" focus Usually means 1/4 or 1/3 life size

True macro lenses are costly

	<u>Canon/Nikon</u>	Sigma/Tokina/Tamron
■ 60mm	\$ 380-400	\$260-480
■ 100mm	\$ 490-760	\$400-450
■ 180mm	\$1300-1400	\$660-900

The Alternatives

- Extension Tubes
 - Increases distance from lens to sensor/film
 - Decreases distance from lens to subject
- Supplementary Lenses
 - Changes the optical formula of the lens
 - Decreases disgance from lens to subject
- Both Limited range of focus

Extension Tubes









- PROs
 - Fits all lenses
 Meter coupled
 No loss of quality
- CONsLoss of light



Supplementary Lenses



PROs

No loss of light
Can be used on zooms
Low cost



CONs

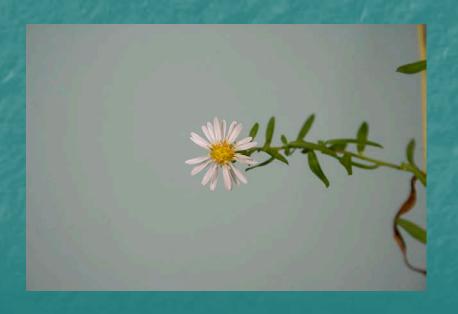
Limited sizes
Potential loss of quality
if single element lens

18-55mm

50mm f1.8

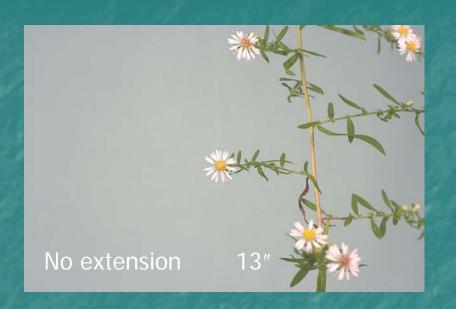
Focus at 5 inches

Focus at 13 inches

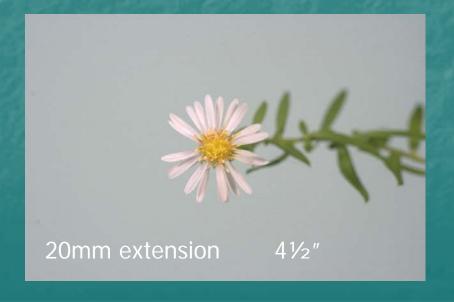




50mm f1.8

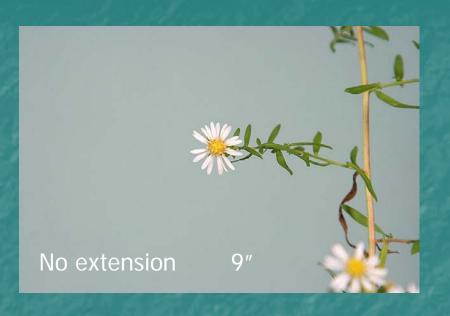








24 -105mm f4 at 105mm









24 -105mm f4



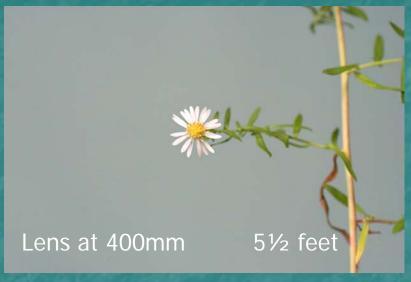


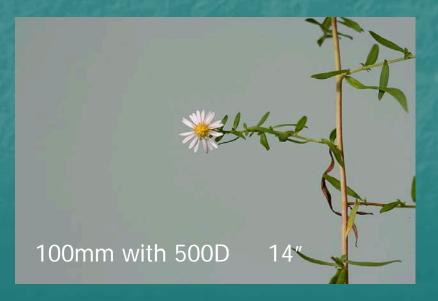




100 - 400mm f4 with 500D









100mm Macro









What's It Cost?

Extension Tubes (meter coupled)

	<u>Canon</u>	<u>Other</u>
■ 12mm	\$ 85	\$ 59
25mm	\$ 140	\$ 90
■ 12/20/36mm	N/A	\$ 170

Supplemental Lenses

- Canon 250D (for lenses 50 to 135mm)
 - 52mm 58mm (\$90)
- Canon 500D (for lenses 70mm and longer)
 - **52mm**, 58mm, 72mm 77mm (\$150)
- Filter Kits (+1, +2, +4)
 - Hoya Multicoated 52mm (\$57), 62mm (\$82), 67mm (\$85)
 - Hoya 77mm (\$90) not multicoated
 - Tiffen 77mm (\$105)