

Lighting

Sources of Light

- Primary
 - produces or emits light - sun
 - Natural
 - Daylight
 - Sunlight
 - Skylight - light scattered in the atmosphere
 - Clear day
 - 80-90% sunlight, directly from the sun
 - 10-20% skylight

Sources of Light

- Artificial light
 - flash, floodlights, spotlights, lightbulbs, fluorescents
- Secondary sources
 - reflect light - buildings, clothes, paper
- Existing or available light
 - what you have to work with at the scene

Outdoor Lighting

- Frontal - sun behind the camera, little feeling of depth, flat
- 45degree - increased texture
- Half & half - (side lighting) maximum texture, sun at 90degrees to subject
- Backlighting - camera faces the sun, silhouettes, fill lighting required

Studio Lighting

- Lights
 - hot lights - tungsten lights in reflectors, produce heat
 - Electronic flash units, strobes
 - central power pack
 - modeling lights
- Reflectors
 - Umbrellas
 - Cards

Lighting Controls

- Baffles - remove light from the subject
 - barndoors
- Snoot - tube that directs light at specific areas
- Softbox - provides soft, broad, even lighting produced by a north facing window

Types of Lighting

- Key light - provides basic pattern of highlights and shadows to give the subject a 3-d appearance
 - vertical placement
 - high - sunlight
 - eyelevel - window
 - low - fireplace

Types of Lighting

- Placement
 - Horizontal
 - Front
 - Side
 - Back

Types of Lighting

- Fill Lighting
 - placed on the opposite side of the key light at same height
- Background light
 - placed between the subject and the background
 - should not be visible
- Accent light, hair light

Portrait Lighting

- Subject faces slightly off camera
- Key light illuminates the side of the face turned away from the camera
- Triangular highlight on the cheek on the shadow side of the face - Rembrandt lighting
- Narrows the faces and emphasizes facial contours

Portrait Lighting

- Butterfly, glamour or paramount lighting
 - keylight directly in front of the subject and slightly above
 - butterfly shape formed under the nose
 - successful with normal oval faces, not with short hair - highlights the ears