



Lighting Concepts

Create Mood with Light Direction

Ambient - Fill (diffused)

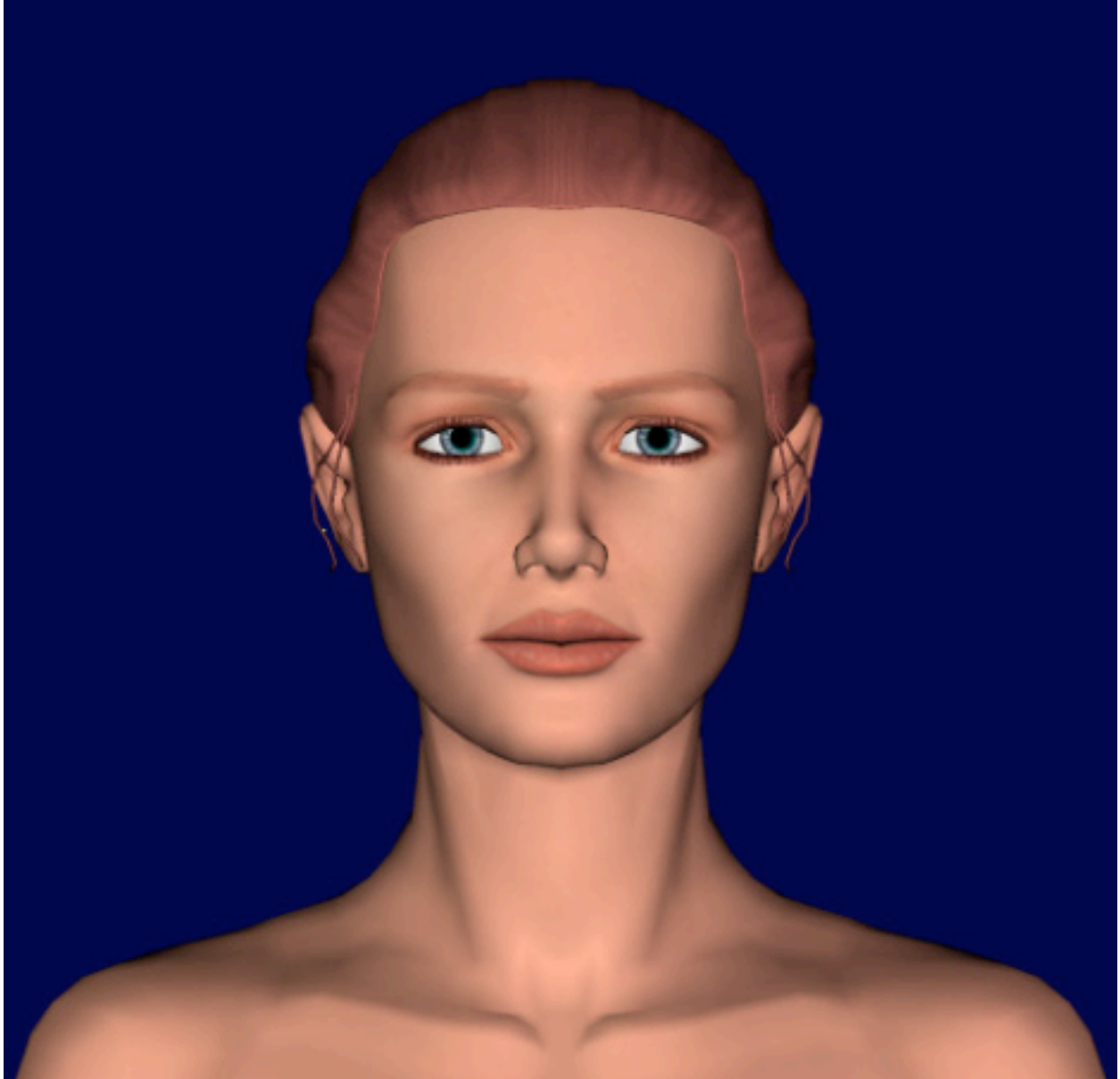


Ambient 0%

Lighting Concepts

Create Mood with Light Direction

Frontal - Fill (large & soft)



Fill 100%

Lighting Concepts

Create Mood with Light Direction

High - Key (sun)



Key 100%

Lighting Concepts

Create Mood with Light Direction

High back - Hair Kicker



Hair Kicker 100%

Lighting Concepts

Create Mood with Light Direction

Side - Rim Kicker



Rim (kicker) 100%

Lighting Concepts

Create Mood with Light Direction

Fill + Key



Fill 100%

Key 100%

Key is twice the intensity as fill = 3:1 Ratio

Lighting Concepts

Create Mood with Light Direction

Fill + Key + Hair



Fill 100%
Key 100%
Hair 100%
Ratio 3:1

Lighting Concepts

Create Mood with Light Direction

Fill + Key + Hair + Rim



Fill 100%
Key 100%
Hair 100%
Rim 100%
Ratio 3:1

Lighting Concepts

Create Mood with Light Direction

Low Key - Unnatural



Low Key 100% (unnatural)

Lighting Concepts

Create Mood with Light Direction

Low Key + Hair + Rim



Fill 0%
Low Key 100%
Hair 100%
Rim 100%

Lighting Concepts

Create Mood with Light Direction

Fill + Key + Key (butterfly)



Fill 100%

Key1 100%

Key2 100%

Key is same intensity as fill = 2:1 ratio

Lighting Concepts

Create Drama with Lighting Ratio

Key to Fill Ratios

1:1 - flat

2:1 - modeling

3:1 - modeling dramatic

Once you understand lighting ratios, it is much easier to control your lighting to create mood, add a sense of depth or shape, and control the way textured surfaces look. A 2:1 ratio would mean that the highlights are twice as bright as the shadows, or that the key light is the same brightness as the fill. Remember that light is additive. 1 Fill + 1 Key = 2. In shadows where the key light does not reach, its only 1. Therefore, key = 2 in the highlights and fill = 1 in the shadows.

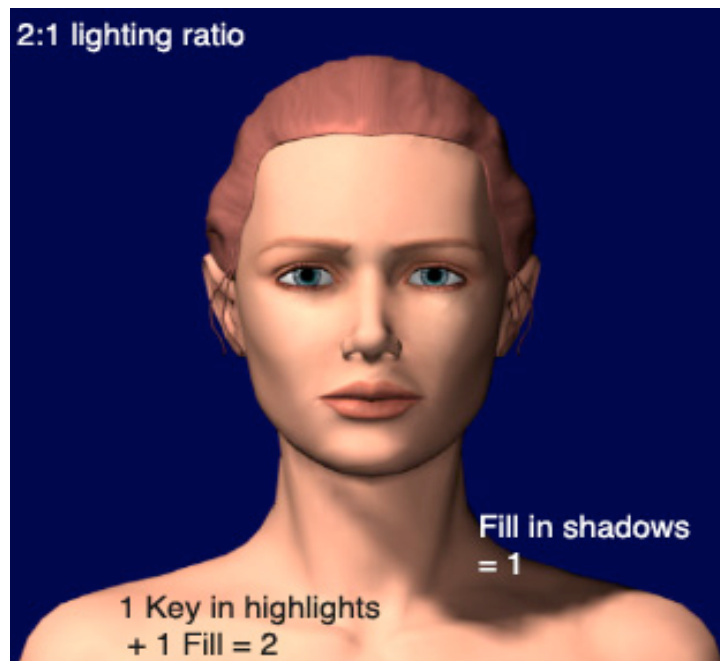
1:1 - flat lighting (one light)

2:1 - Highlights get twice as much light as the shadows. Key is same f-stop as the fill

3:1 - Highlights get three times as much light as the shadows. Key is one f-stop greater than the fill.

4:1 - Highlights get four times as much light as the shadows. Key is two f-stops greater than the fill.

8:1 - Highlights get eight times as much light as the fill. Key is three f-stops greater than the fill. (very low-key dramatic effect) Video has contrast range limitations, for ratios such as this the dark areas will probably just be rendered as black, without discernible detail.



Lighting Concepts

Using Multiple Lights

ambient (available)

one point (just fill or on camera flash)



flat (one light)

Lighting Concepts

Using Multiple Lights

ambient (available)

one point

two point



**Two lights:
Fill frontal
Key at 45 degrees**

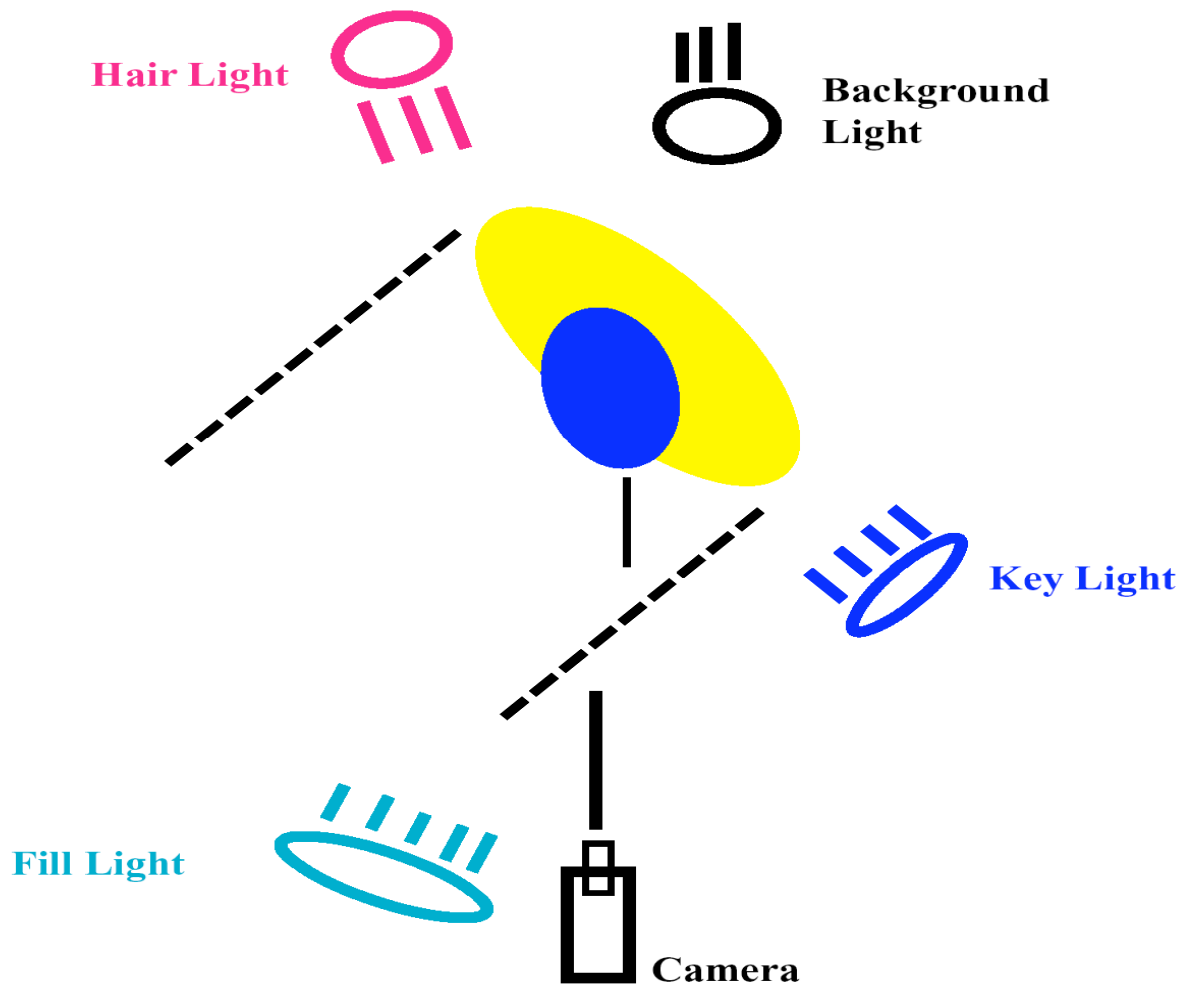
Lighting Concepts

Using Multiple Lights

- ambient (available)
- one point
- two point
- three point (Rembrandt)
- four point or more

45 degree key, 3 or four lights

Background



Lighting Concepts

Using Multiple Lights

- Portrait Lighting
- Broad Lighting
- Butterfly
- Short
- Rembrandt
- Split

Broad Lighting

The main light illuminates the side of the face turned toward the camera -- the broad view. It tends to flatten the illusion of depth and de-emphasize facial features. Nevertheless, it is useful for widening an overly narrow, thin face.

Butterfly Lighting

Moving the light further camera-left, we hit the face right between the eyes producing a symmetrical butterfly effect. With some softening, we could call this your basic glamour lighting. A well-proportioned, oval face benefits most from this light.

Short Lighting

Still further left, we get the popular short or narrow lighting. It narrows round faces and brings out the contours much better than broad lighting.

Rembrandt Lighting

Still further left until a triangular patch of light remains on the leading cheek, is reminiscent of many of Rembrandt's portrait paintings. As in butterfly lighting, the light needs to be fairly high -- like Rembrandt's studio skylight.

Split Lighting

Finally, at 90 degrees left so that only half of the face is illuminated is aptly called split lighting. In addition to creating dramatic effects, this lighting can hide defects on the shadow side or narrow a broad nose.

This document is available in color pdf format at http://stocom.com/basic_lighting