FUSION ON CINEMATOGRAPHY & ARCHITECTURAL LIGHTING DESIGN

The Bridge on the River Kwai (1957)

Sri Lanka

Presented By: Osvaldo Sepulveda
Toronto, IES Section Lunch and Learn
On Oct 16, 2019
WHAT IS THE SPEED OF LIGHT?
THE SPEED OF LIGHT IS...

299,792 KM/s
So, what are the relationships?

- Theatre
- Film
- Photography
- Architecture
- Glass Sculpting
- Stone Carving
- Painting
- Poetry
- Politics
- Music
- Math
- Textiles

Essentially... these artforms are concerned with the design of natural and electric light and the designers are responsible for making artistic and technical decisions to serving human needs and environment.
The things we light in movies is just as important to things we don’t light.
CINEMATOGRAPHY

Lighting = Theory and Applications
Camera = Technical and Optical
Grip = Geometry, and Control Accessories
Find anatomy of balloon
DIRECTIONALITY OF LIGHT

Rembrandt, Self-Portrait
SIDE LIGHTING
(Drama)
SIDE LIGHTING
(Drama)
FRONT LIGHTING
(Flat)
Lentille L placée dans le trou

Chambre noire
The Glass of Wine by Johannes Vermeer

1660
WHAT IS CHIAROSCURO?

kjərəskərəʊ
CHIAROSCURO is...

LIGHT AND DARK

The treatment of light and shade in drawing and painting. An effect of contrasted light and shadow created by light falling unevenly or from a particular direction.
QUALITY OF LIGHT

Tonality Sphere
Quality of Light

- Light
- Highlight
- Halftone
- Shadow Core
- Shadow
- Reflected Light
- Cast Shadow
- Accent
Let’s go waaaaaaaaay back
Chauvet Cave in the valley of the Ardèche River in France. 30,000yrs
Lascaux cave art in south-west France 15,000 years ago
Erlay cisohecuraro wocdouts iovlnevd panitring wtih two or mroe woldboocks, ecah in a deifrnfent hue, to ataitn lihgt and drak tnoal vauels. Carpi was the frsit latlain aitrst to use tihs tehcniuqe. He calmeid to hvae ineenvtd a new way to pirnt in "light and dark". Although, Gemran atrsit Hans Burgkmair had straetd exeripmnnetig wtih simliar wodocuts svereal yaers proir.

Ugo Da Carpi  (c. 1480 – c. 1532)
‘The Thinker’
Formerly named…
‘The Poet’
c.1880

Auguste Rodin

Sculpture is influenced by the Divine Comedy of Dante Alighieri
DEPTH, GENTLE, PLAYFUL, VIBRANT, DAPPLED, RADIANT,
PRISMATIC, LUMINOUS, REVEALING LINE, SPACE,
FORM, SHAPE, COLOR, SUBJECT, SURFACE, MOTION,
TEXTURE, PATTERN, MATERIAL, FEATURES, FUNCTION, FOCAL POINT

LINES & PLANES & VOLUME

TEXTURE (ROUGH, FINE, SMOOTH, COARSE, UNEVEN)
SPATIAL PATTERNS & LIGHTING PATTERNS
SYMMETRICAL & ASYMMETRICAL
LOOKING IN & LOOKING OUT
PERPENDICULAR & PARALLEL
VERTICAL & HORIZONTAL
ORGANIC & GEOMETRIC
DIFFUSED & DIRECTED
NATURAL & ARTIFICIAL
WHITE & COLORED
SQUARE & ROUND
WIDE & NARROW
WARM & COOL
BOLD & SIMPLE
SMALL & LARGE
SHADE & TONE
FLOOD & SPOT
STILL & MOTION
LIGHT & DARK
GRAZE & WASH
LIGHT & SHADOWS
SPECULAR & MATTE
SUBTLE & DRAMATIC
SATURATED & DE-SATURATED
BACK & MID & FORE (GROUND)
NEGATIVE FILL & NEGATIVE SPACE
LAMBENT & GLOWING & GLEAMING & FLICKERING

LAMBENT & GLOWING & GLEAMING & FLICKERING
Expression
If It’s **PURPLE**…Someone is gonna die!
MADNESS
Kill Bill

SICKNESS

INSECURITY

OBSESSIVE
Taxi Driver

IDYLIC
Gladiator

NAIVE
American Graffiti
Chicago
Deja Vu
Eyes Wide Shut
Dick Tracy
Eves Bayou
Apocalypse Now Redux
WORKERS LEAVING THE FACTORY
1895
Lumiere Brothers

PAINT ON FILM

Trip to The Moon
1902
George Melies
Wizard of Oz
1939
Three Strip Technicolor
Harold Rosson
BACKGROUND
Natural / Artificial

Color
Paint / Light

Textures / Patterns / Layers

Atmosphere

SUBJECT
Natural or Artificial

Color

WARDROBE

Color
Wardrobe / Light

PROPS

Color
Wardrobe / Light
BACKGROUND

Natural

Artificial
ATMOSPHERE

Smoke

Rain

Fog
CARAVAGGIO
Late 1500s

EDWARD HOPPER
Early 1900s

GEORGE DE LA TOUR
Early 1600s

JOSEPH TURNER
Early 1800s

VITTORIO STORARO
Late 1900s
FrancescaStoraroiald
Shuffleton's Barbershop by Norman Rockwell
1950
The Bridge on the River Kwai (1942)
Thailand

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Thank You