



# **VOCATIONAL SCHOOL GRADUATE ACADEMY**

**Motion Graphic Artist / Intermediate Animator** 

Hari #2:3D Modelling, Camera & SLR (Shading-Lighting-Rendering)

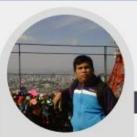
Lokasi Pelatihan: Hotel Ibis Gading Serpong





## **PROFIL PENGAJAR**





### About Me

I was born in Karawang and raised in South Jakarta, and now I'm proud to be raising my young family in Depok. I love helping people find solution for learning something new.

#### **Expertise Skill**

- · Graphic design
- · Game Artist
- . Game Programming
- · Instructional Media Design
- Video editing

#### Contact Me

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- iwan0sonjaya@gmail.com
- www.iwankuliah.wordpress.com
- Cluster Taman Sakinah No.11 C Depok - Jawa Barat

### **Iwan Sonjaya**

Multimedia Designer
Adobe Certified Profesional
Unity Certified Associate Programme

#### Education

- 2001-2004
   Master Of Technology Management
   Pelita Harapan University
   CPA 3.08
- 2004-2007
   Master Of Information Technology Institut Teknologi Bandung GPA: 3.41

#### **Work Experience**

- Instructional Media Designer
   Pustekom Kemendikbud-2010
  - create assset for material learning based on web
  - Create Script for Interactive
     Media Learning
- Drafting Indonesian National Competency Framework Standards For Game Dvelopment

Pusbang Proserti Kemenkominfo-2021

- Formulate work competency standards in the field of game development
- Develop competency elements and performance criteria for work competency standards in game development to reach more client in website and social media.



## **Deskripsi Singkat**

mengenai Topik

#### **Deskripsi Singkat mengenai Topik**

Topik pengenalan software 3d:

- 1. Pengenalan Tools Modeling,
- 2. Pembelajaran Teknik Pemodelan 3D
- 3. Pengenalan Tools Camera & SLR

#### **Tujuan Pelatihan**

- 1. Peserta dapat mengetahui fungsi fungsi tools pada Software 3D.
- 2. Peserta dapat membuat Pemodelan 3D dengan menggunakan 3D
- 3. Peserta dapat memahami dan menggunakan 3D Camera.
- 4. Peserta dapat memahami dan menggunakan tools SLR
- 5. Peserta dapat membuat Logo 3D sampai Rendering

#### Materi Yang akan disampaikan:

- 1. Modeling workflow
- 2. 3D Camera
- 3. 3D SLR

#### Tugas:

1. TUGAS MANDIRI



# **3D SOFWARE**

# **Open Source**



All About Fundamental Blender

## **Commercial**

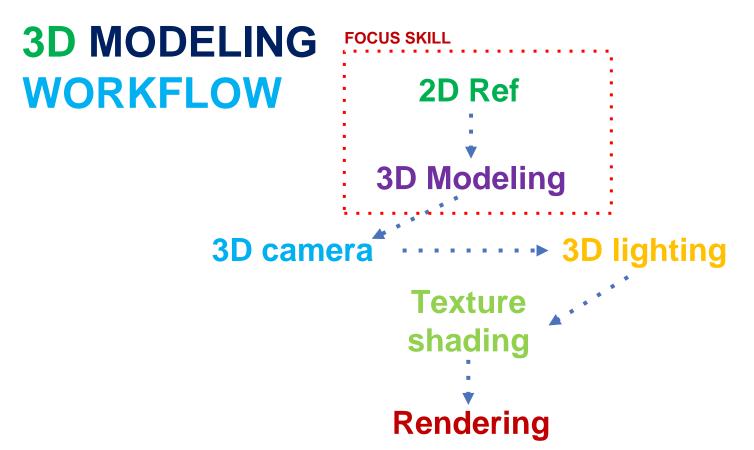










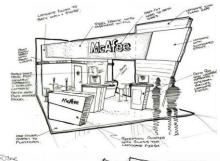


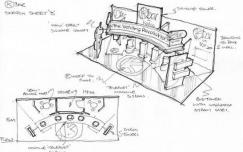


## 3D MODELING WORKFLOW

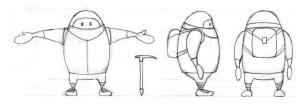
#### **FOCUS SKILL**

# VirtualSet 2D References





# **Organic 2D References**







### 3D MODELING WORKFLOW

# 3D Modeling Method

1. IMPORT

2. CREATION





# 3D LOGO **WORKFLOW**



1. Raster 2. Vector Tracing 3. 3D Extrude



# 3D LOGO WORKFLOW



From AI to BLENDER Case 01

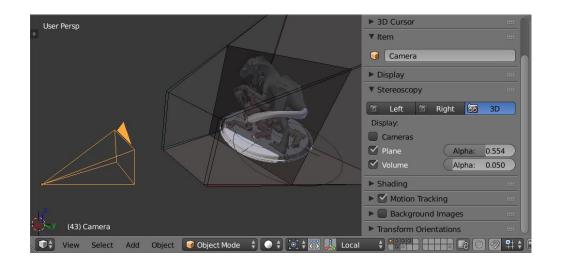


From AI to BLENDER
Case 02



# **3D MODELING WORKFLOW** 2D Ref **3D Modeling FOCUS SKILL** 3D camera **Texture** shading Rendering







FUNDAMENTAL
CONCEPT 3D CAMERA
IN BLENDER

# 1. Focal Lenght

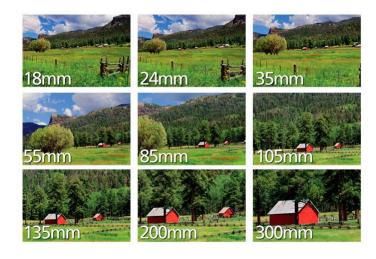
2. Depth Of Field

3. Aspect Ratio

4. Motion Camera



# 1. Focal Lenght Basic principle



#### **EFEK JANGKAUAN LENSA**

- STANDARD UKURAN lensa mm (Milimeters)
- Makin kecil mm MAKIN LUAS jangkauan visual
- Makin besar mm MAKIN DEKAT jangkauan visual



# 2. Depth Of Field Basic principle



#### **EFEK DEPTH OF FIELD LENSA**

- Makin kecil mm MAKIN KECIL efek blur latar
- Makin besar mm MAKIN BESAR efek blur latar

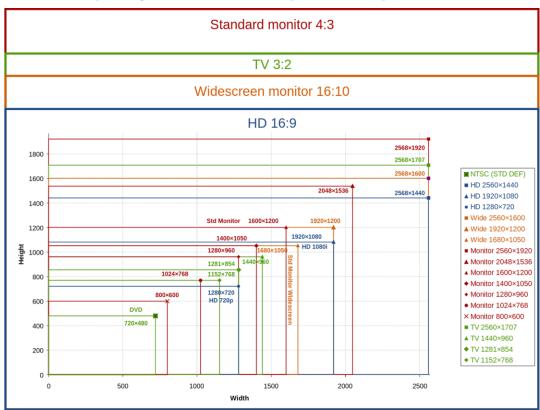


# 3. Aspect Ratio Basic principle



**SKALA PERBANDINGAN** 

### 3D CAMERA WORKFLOW



**SKALA UKURAN** 



# 4. Motion Camera Basic principle

### **Conventional Camera**

 The camera movement allows the operator to follow the artist/characters and/or to show their performance. A director may choose to move action along by telling the story as a series of cuts, going from one shot to another, or they may decide to move the camera with the action.

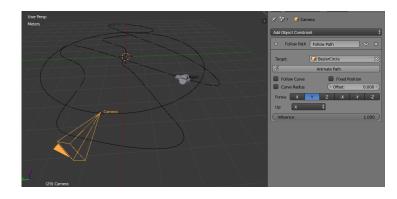
Panning
Dolly/Tracking
Zoom
Pedestal
Crane/Jib
Handheld

DOLLY
DOLLY

OUT

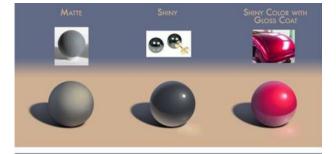
### 3D CAMERA WORKFLOW

# **CG Camera Motion Path**



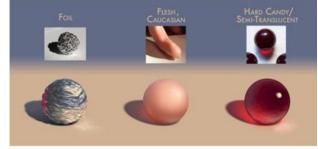


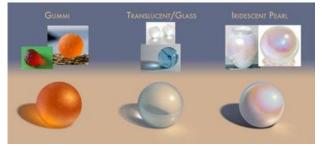
# 3D SLR WORKFLOW



# **SHADING**

Metode parametric untuk menghasilkan SIFAT BAHAN







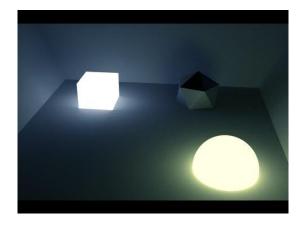
# 3D SLR WORKFLOW

# **LIGHTING**

Metode Pencahayaan untuk menghasilkan KECERAHAN dan BAYANGAN



**LIGHT Source** 



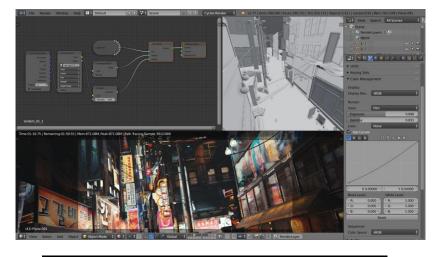
**OBJECT Source** 

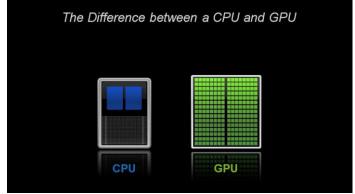


# 3D SLR WORKFLOW

# **RENDERING**

Metode Kalkulasi untuk menghasilkan VISUAL AKHIR







# 3D LOGO WORKFLOW



3D Modelling Logo, Camera & SLR



## **5 TAHAPAN BAKU**

## 1. IDENTIFIKASI

- Apa yang akan dibuat
- Sofware apa yang dipakai
- Teknik apa untuk membuat nya
- Bagaimana output akhirnya

## 2. PERENCANAAN

- Workflow kerja dari awal sampai akhir
- Dari studi existing yang sesuai tema
- · Gerak dan komposisi yang akan dibuat

## 3. PERSIAPAN

- Semua asset visual dipersiapkan
- Semua perangkat kerja (Hardware/Sofware) sesuai workflow kerja

## 4. PENGERJAAN

- Secara berurutan
- Disimpan secara berkala
- Sesuai tuntutan SOP

## 5. FINAL OUTPUT

- Sesuai Format yang diminta
- Sesuai Ukuran Yang diminta
- Sesuai FPS yang diminta



# TUGAS AKHIR 6 UNIT KOMPETENSI

- 1. J.59ANM01.028.2 Membuat Model 3D Berbasis Hard Surface
- 1. J.59ANM01.035.2 Membuat Artistik Sudut Pandang Kamera 3D
- 1. J.59ANM00.003.2 Membuat Pergerakan (Motion) Objek Digital
- 1. J.59ANM03.052.2 Membuat Setting-an Sifat Bahan 3D (Shading)
- 1. J.59ANM01.036. 2 Membuat Artistik Pencahayaan 3D (Set Lighting)
- 1. J.59ANM03.053.2 Membuat Pencitraan Gambar Digital (Rendering)

# **#JADIJAGOANDIGITAL** TERIMA KASIH

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