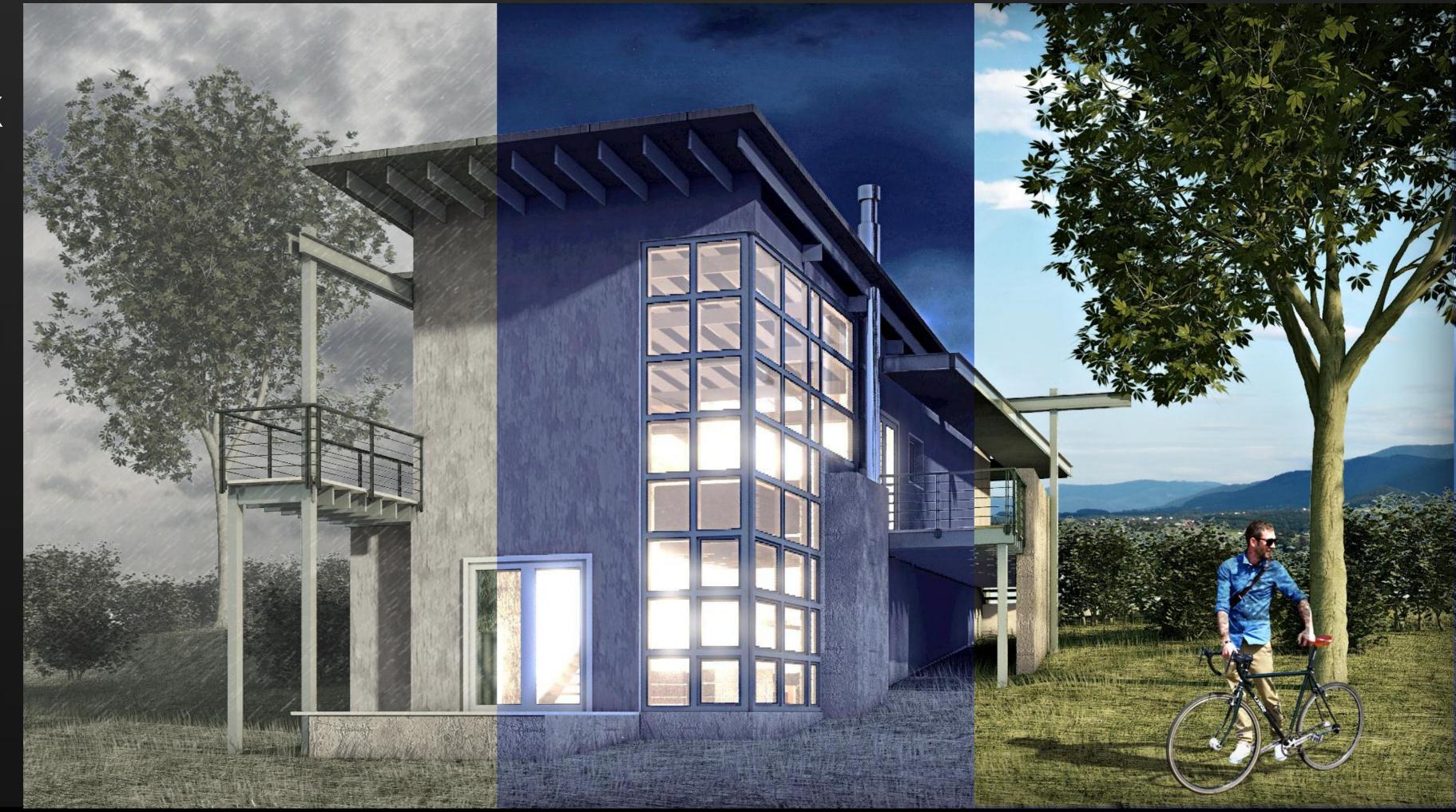


# Class Summary

- What is Arch-Viz?
- Revit vs. 3Ds Max
- Workflow
- Post Production

# Class Summary

- What is Arch-Viz?
- Revit vs. 3Ds Max
- Workflow
- Post Production



## Learning Objectives

At the end of this class, you will be able to:

- Link and open a Revit model in 3ds Max Design
- Create a photorealistic rendering in a short amount of time
- Generate render elements with the Render Pass System in 3ds Max Design 2013
- Make modifications and add effects to the rendering with Autodesk Composite 2013

# Importance of Architectural Visualization

# Importance of Architectural Vizualisation

- Communication
- Inspiration
- Motivation
- Marketing



# Standard Render Settings

- Communication
- Inspiration
- Motivation
- Marketing



# Adding Drama

How to add drama to your images:





9GAG.COM/GAG/4410154

# What are the elements that makes a good rendering?

- Composition
- Story/ Scenario
- Environment/ Effects
- Lighting and Mood



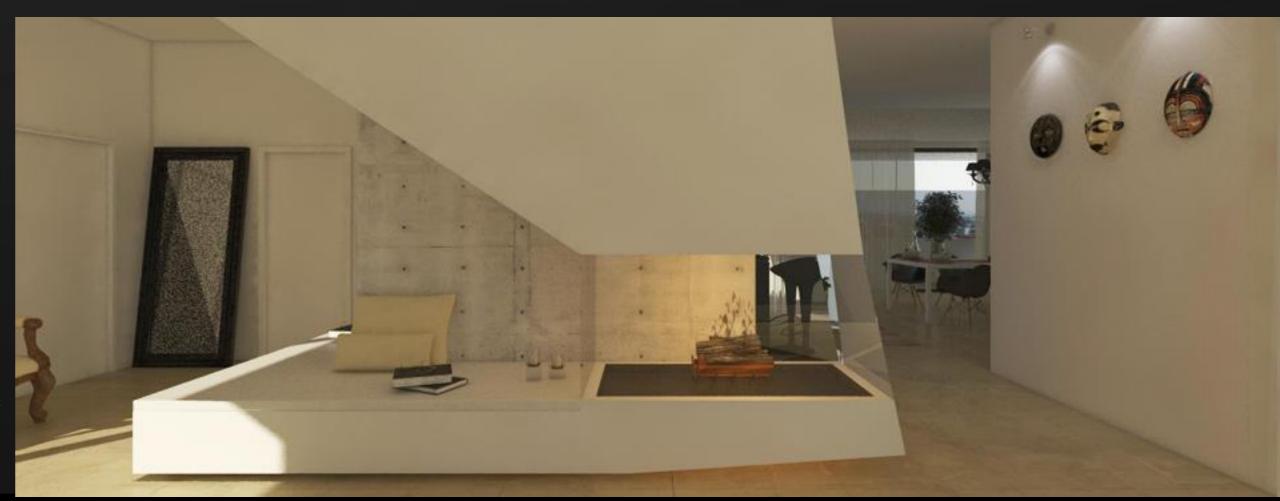
Luxigon

# What are the elements that makes a good rendering?

- Composition
- Story/ Scenario
- Environment/ Effects
- Lighting and Mood







A. WeirerStudio 33

# Mood Creation with Light

**Hugh Ferriss** 

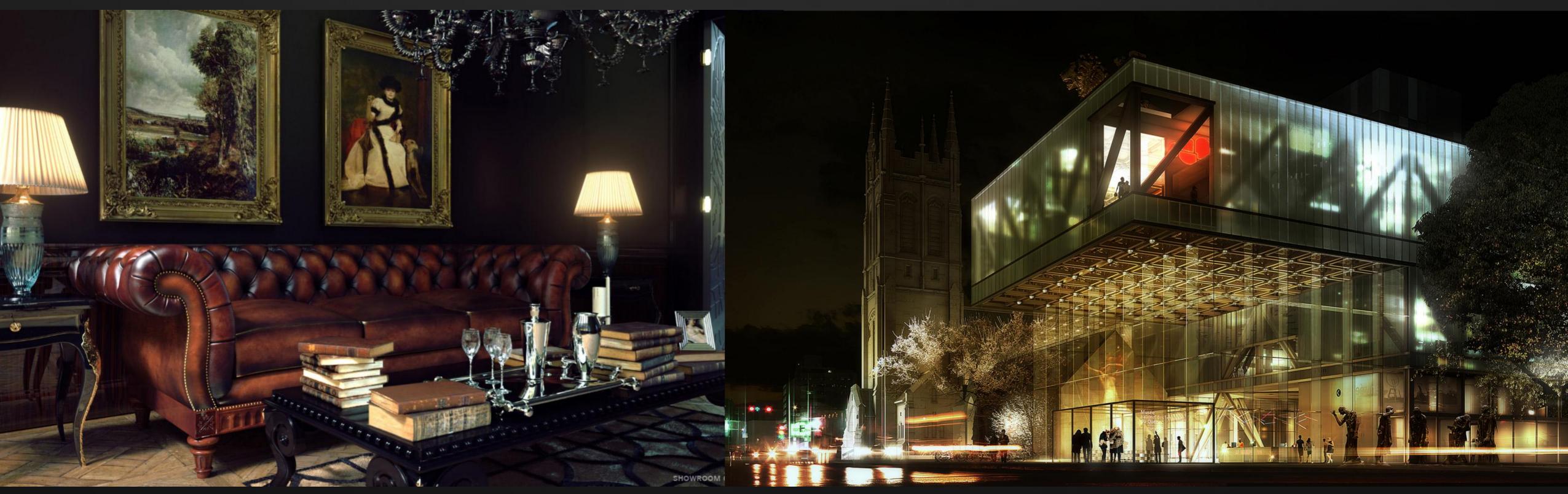


# Mood Creation with Light

#### **Hugh Ferriss**



# 3D Render vs. Postprocessed Image

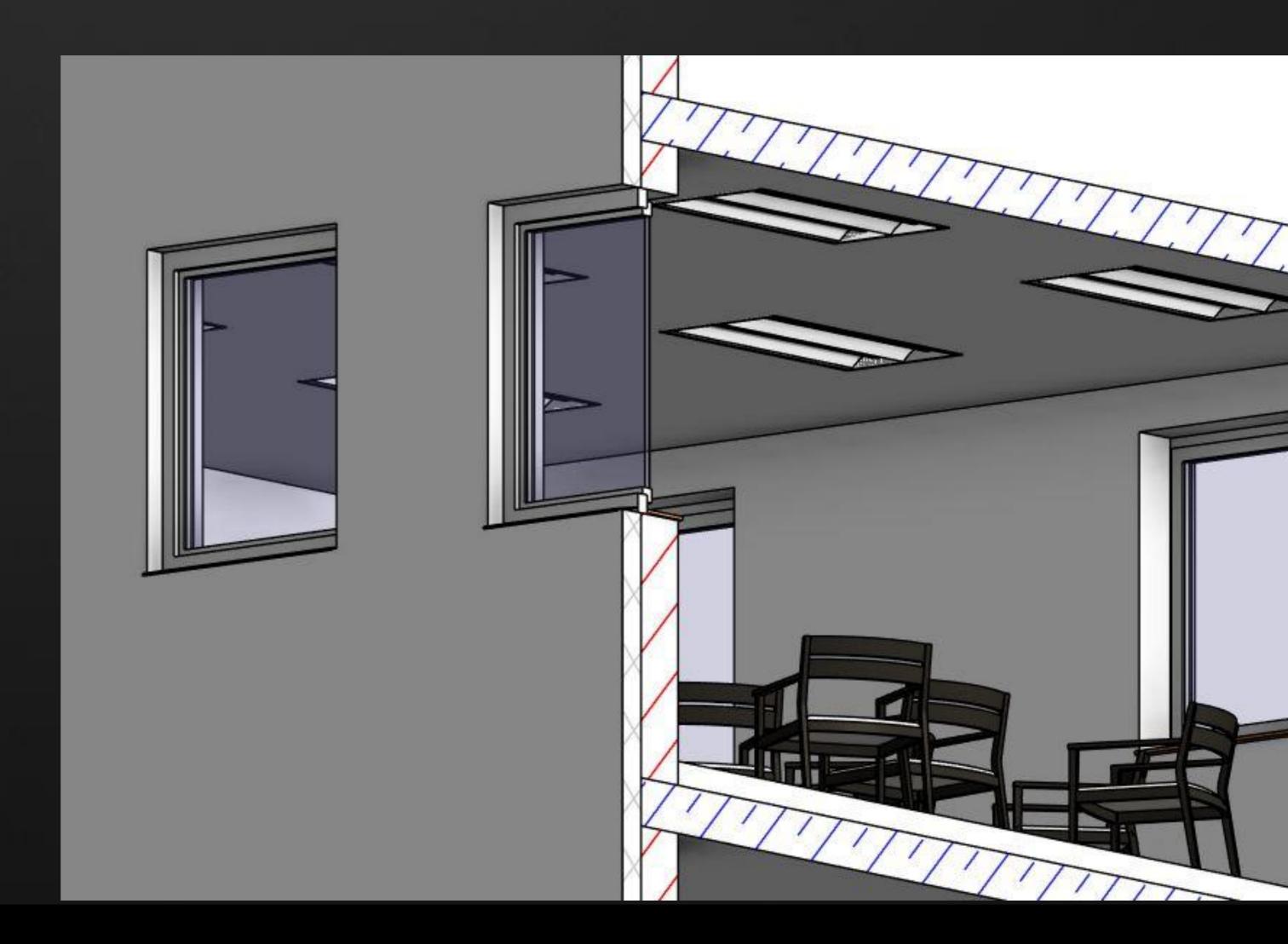


Pure Render Luxigon

# Revit Architecture vs. 3ds Max Design

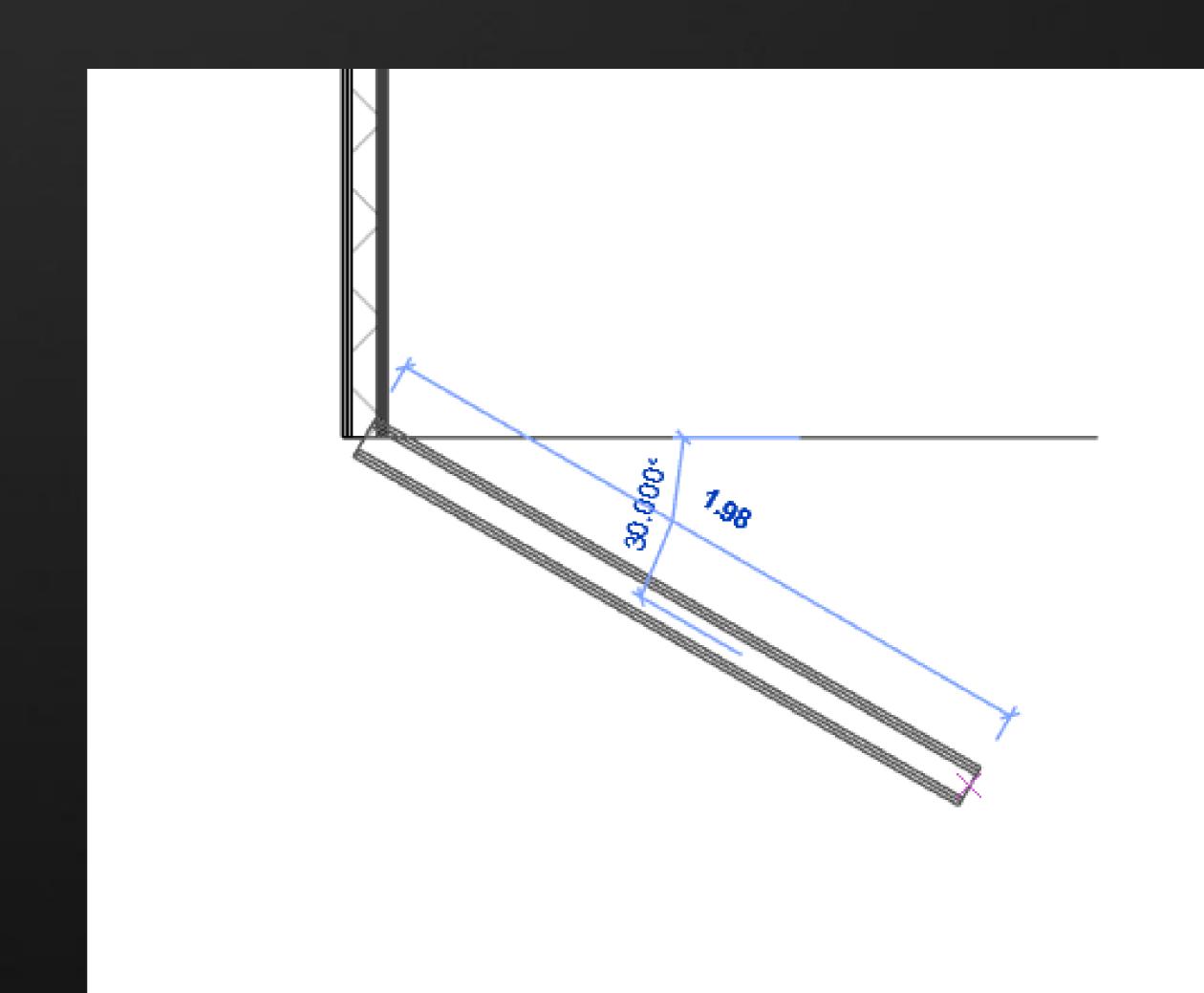
#### **Advantages of Revit**

- Modeling
- Families
- BooleanOperation
- Alignment



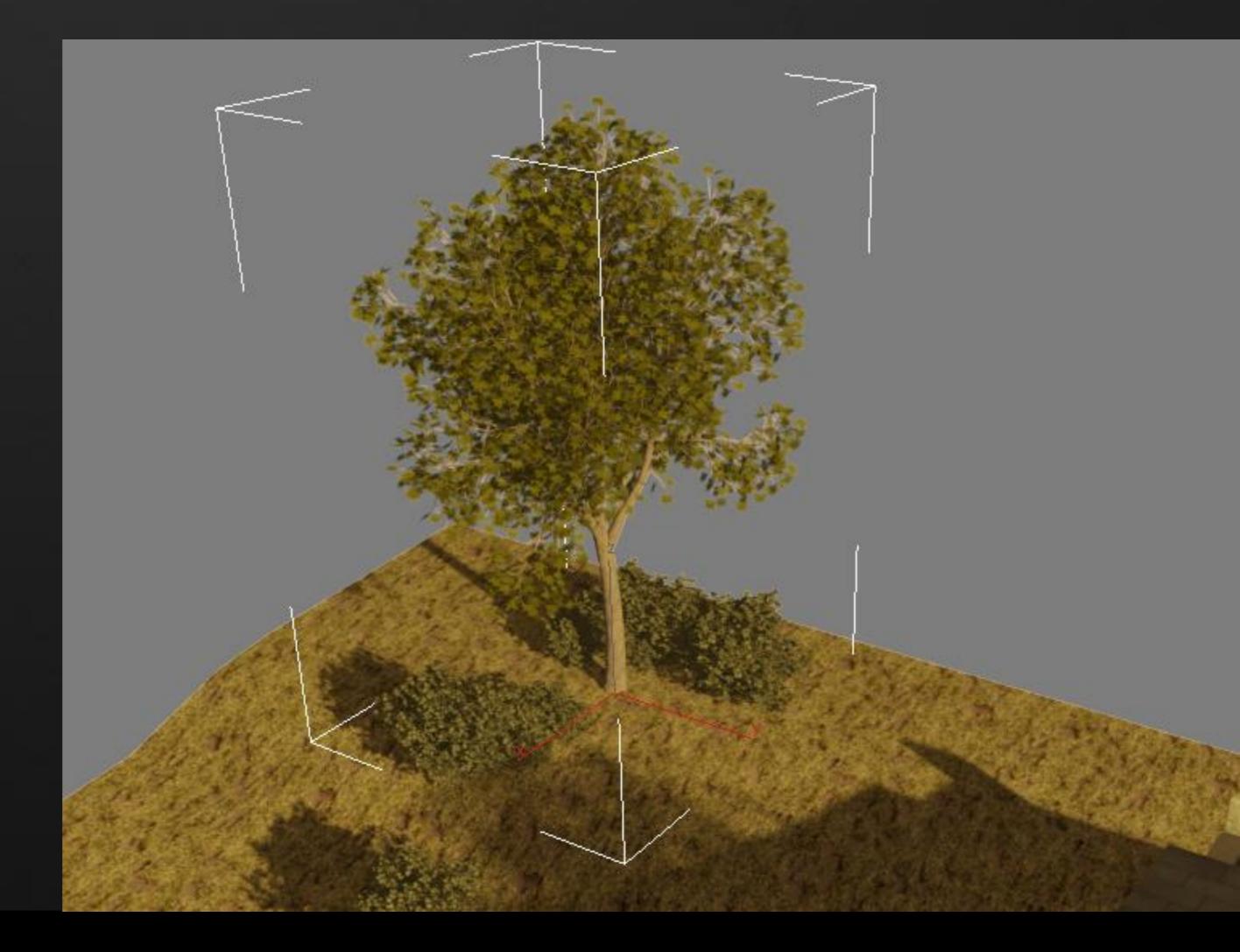
**Advantages of Revit** 

- Modeling
- Families
- BooleanOperation
- Alignment
- TemporaryDimensions



Advantages of 3ds Max

Modeling
 Nature

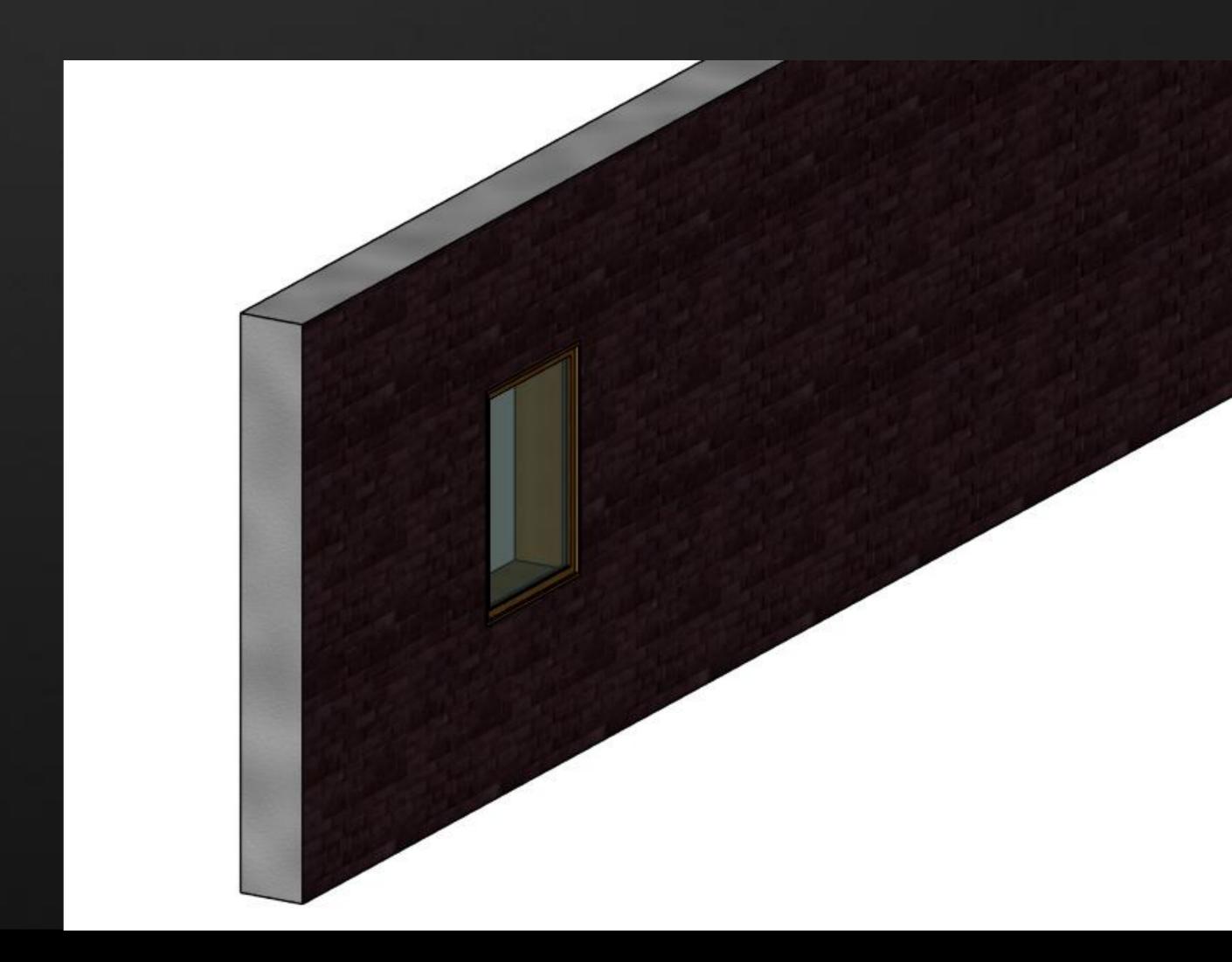


- Modeling
- Nature
- Scatter



**Advantages of Revit** 

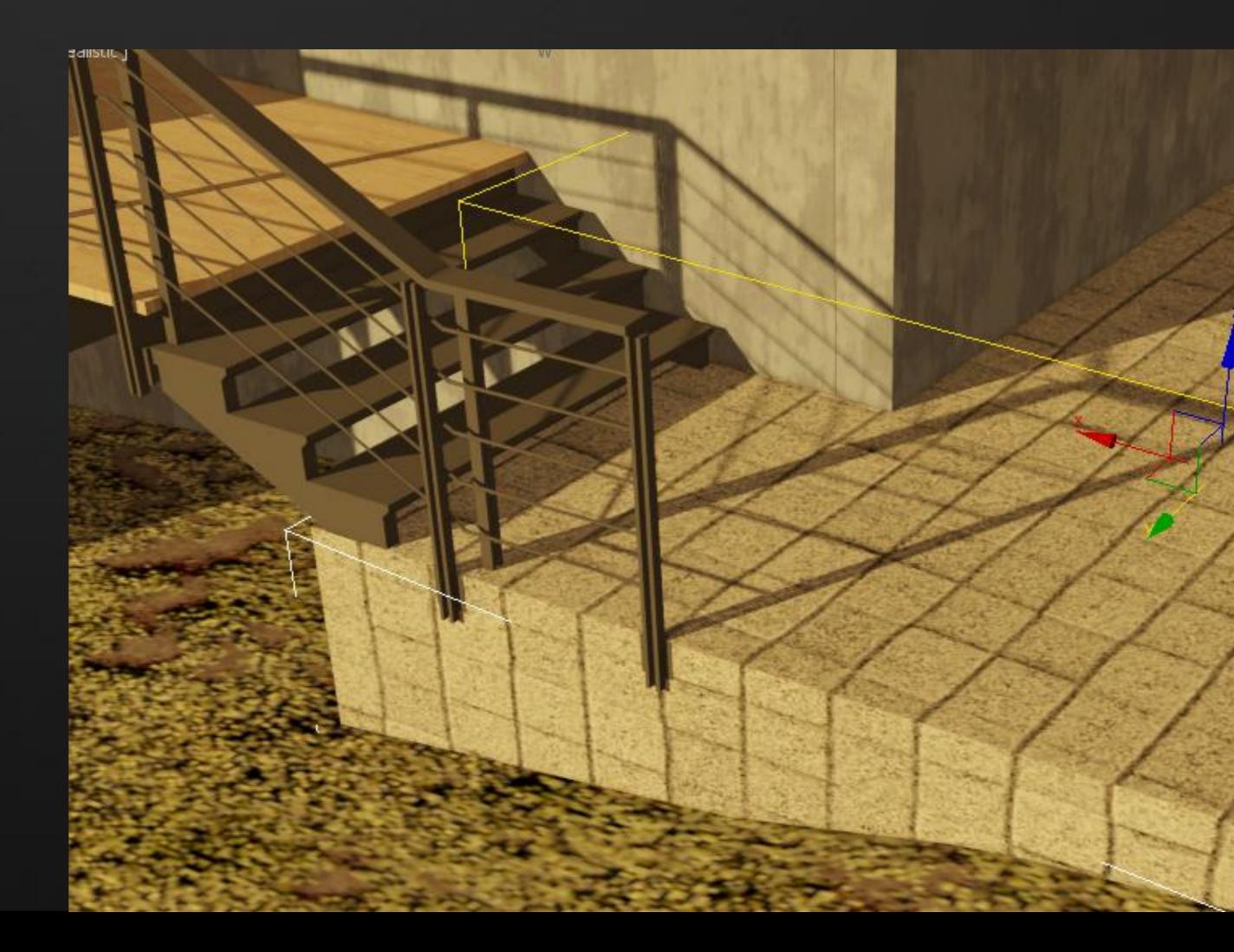
- Modeling
- Texturing
- Families with Materials



- Modeling
- Texturing
- SubstanceMaps



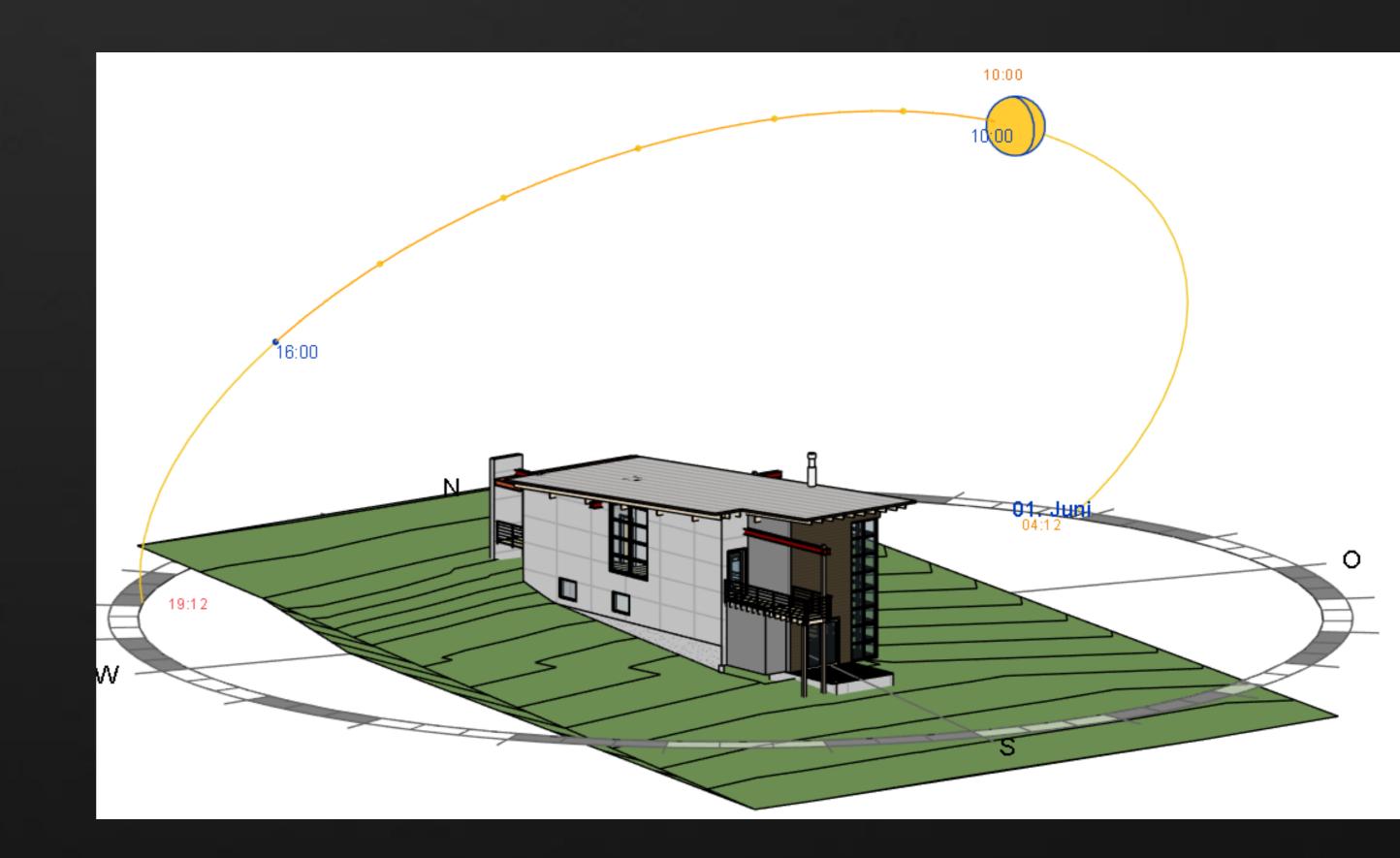
- Modeling
- Texturing
- SubstanceMaterials
- UVW Map



#### **Advantages of Revit**

- Modeling
- Texturing
- Lighting

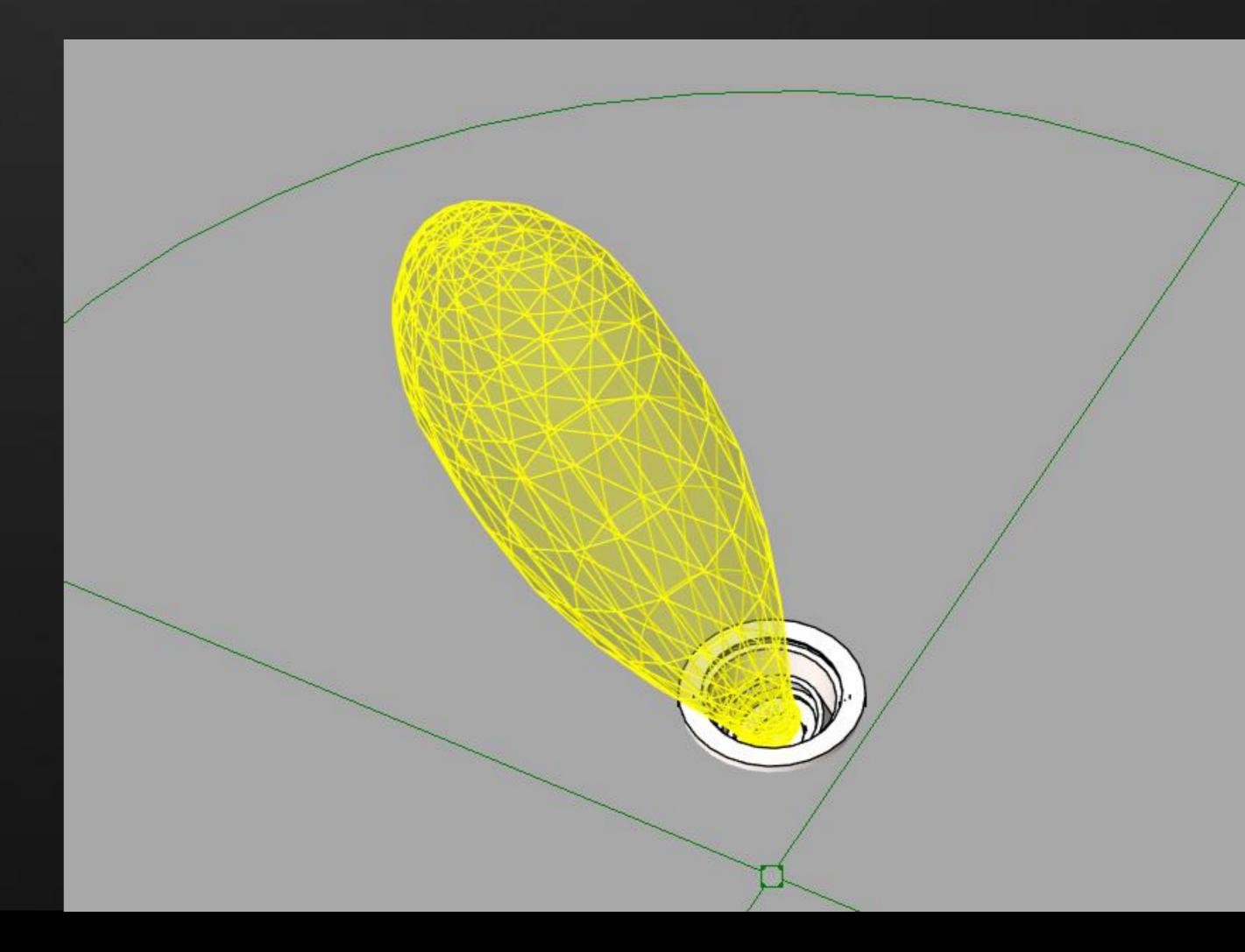
Sun & Sky presets



#### **Advantages of Revit**

- Modeling
- Texturing
- Lighting

- Sun & Sky presets
- Light families
  with IES data



#### Advantages of 3ds Max

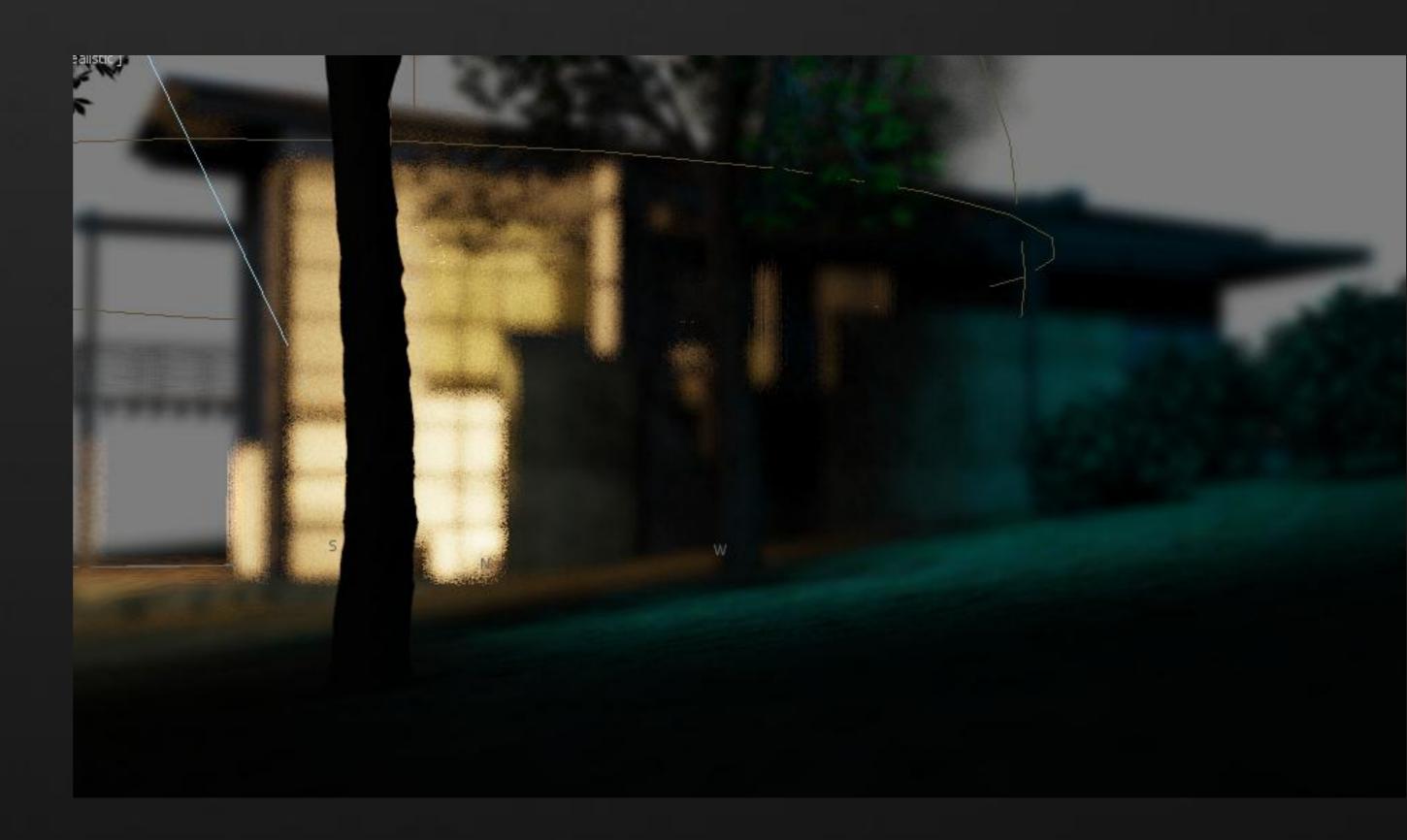
- Modeling
- Texturing
- Lighting

NitrousViewport



- Modeling
- Texturing
- Lighting

- NitrousViewport
- Environment and Effects

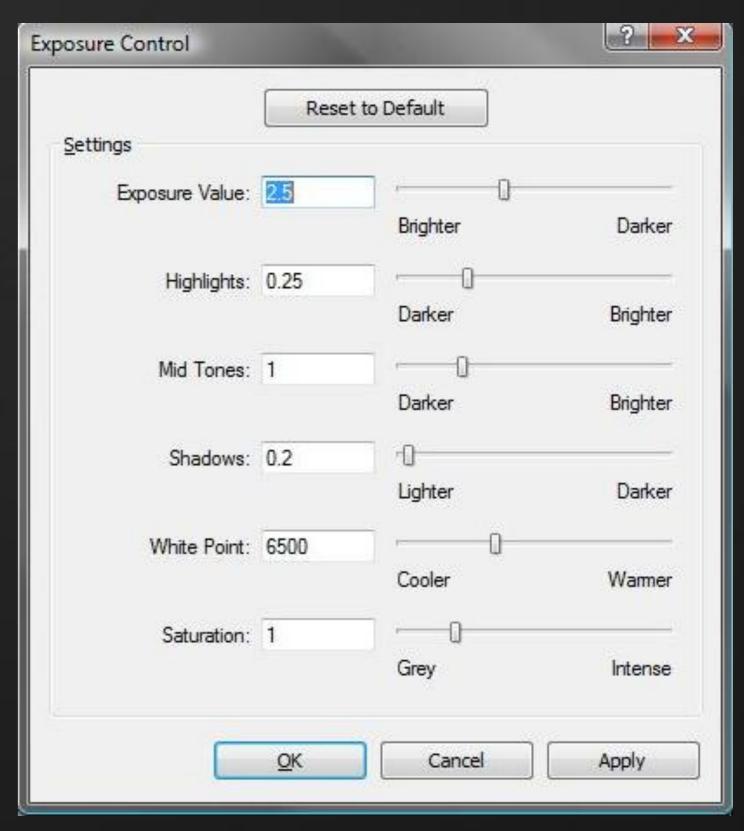


#### **Advantages of Revit**

- Modeling
- Texturing
- Lighting
- Rendering

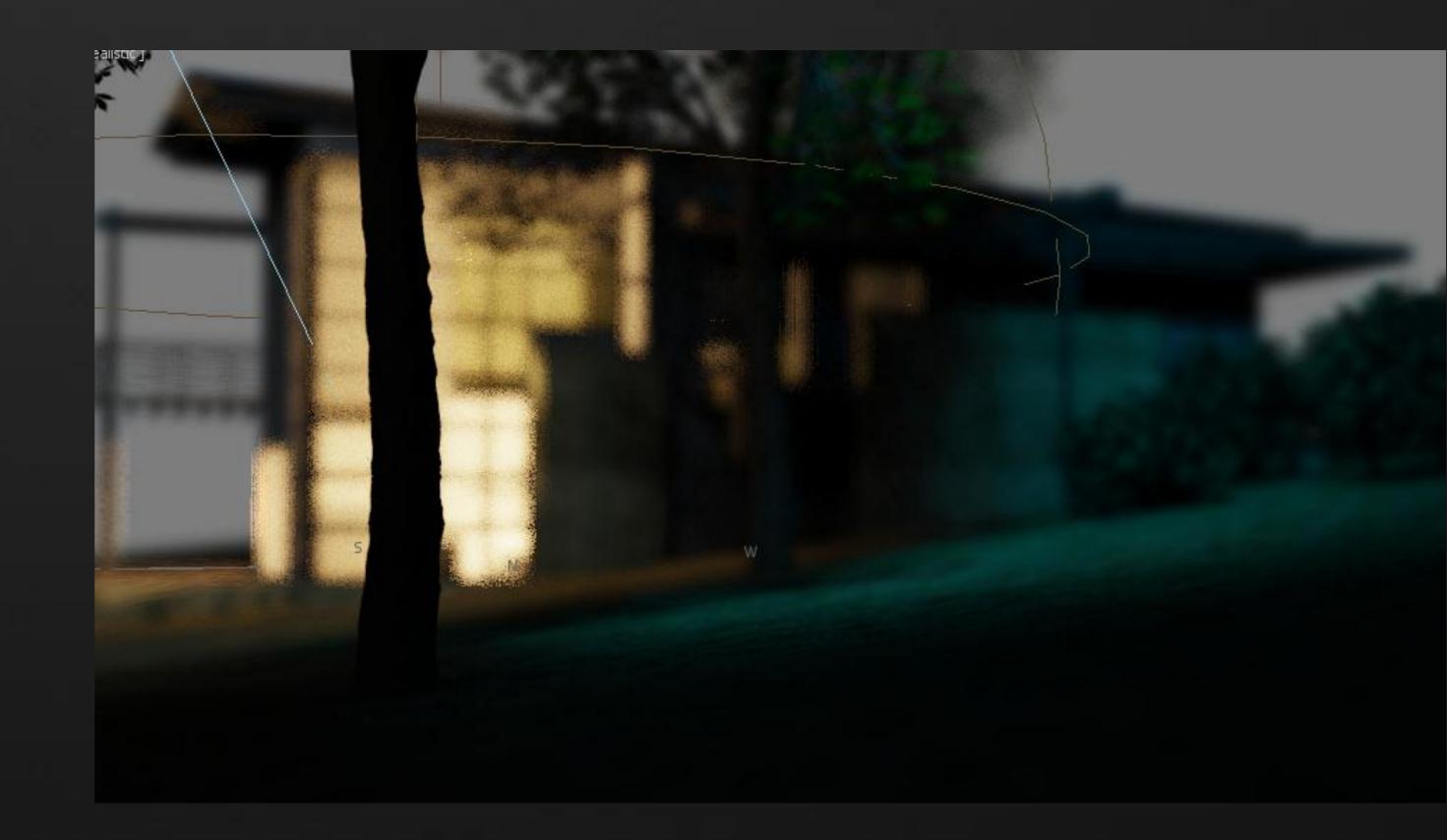
- Few Render Settings
- Adjust Exposure





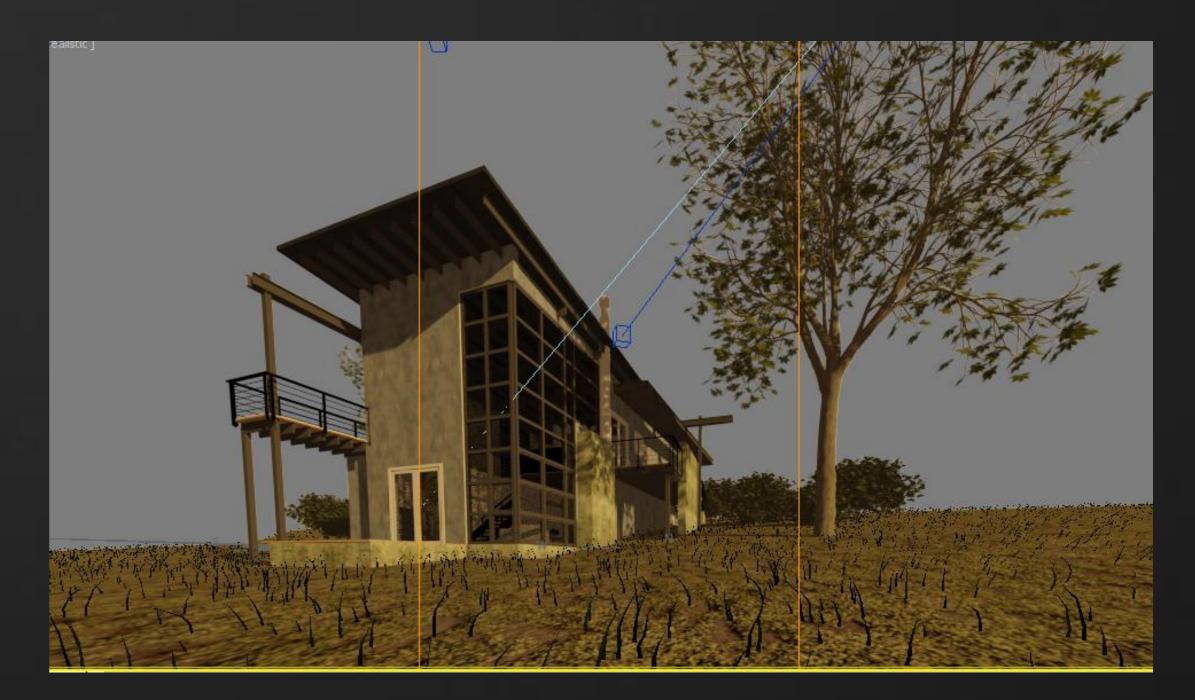
- Modeling
- Texturing
- Lighting
- Rendering

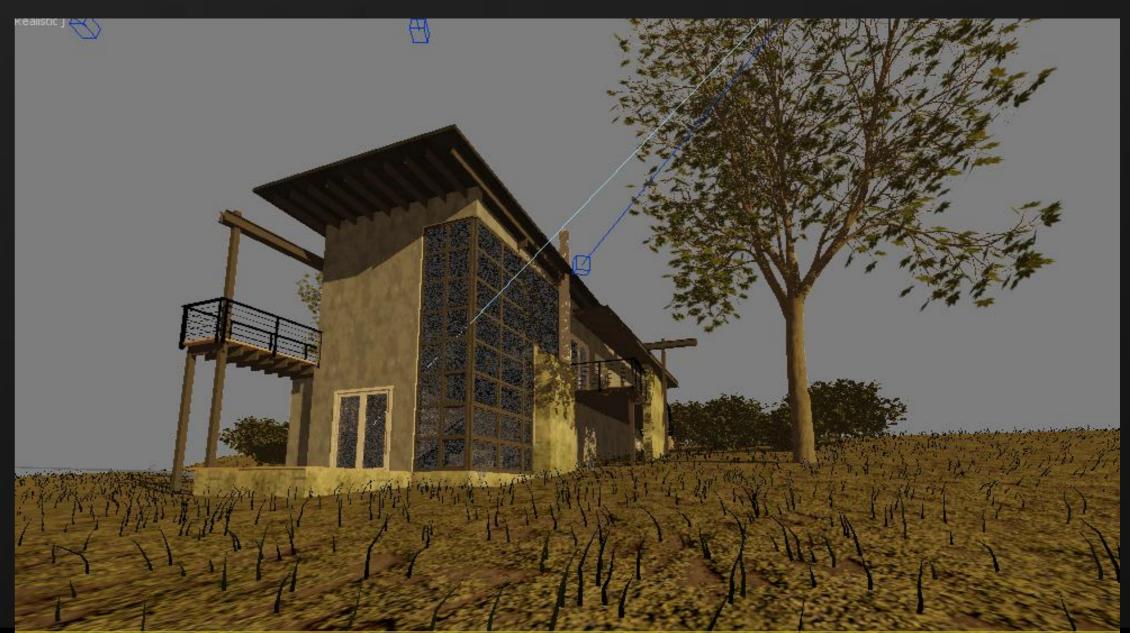
- Render Time
- Effects



- Modeling
- Texturing
- Lighting
- Rendering

- Render Time
- Effects
- CameraCorrection

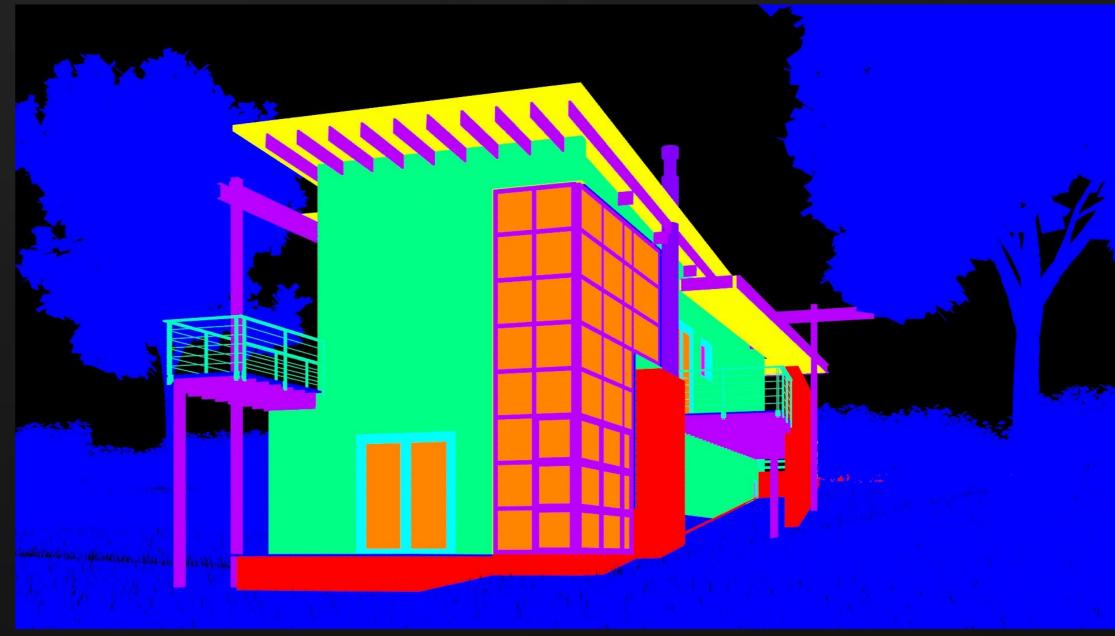




- Modeling
- Texturing
- Lighting
- Rendering

- Render Time
- Effects
- CameraCorrection
- RenderElements





# Importing & linking files in 3ds Max

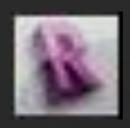
#### DWG vs. FBX

DWG

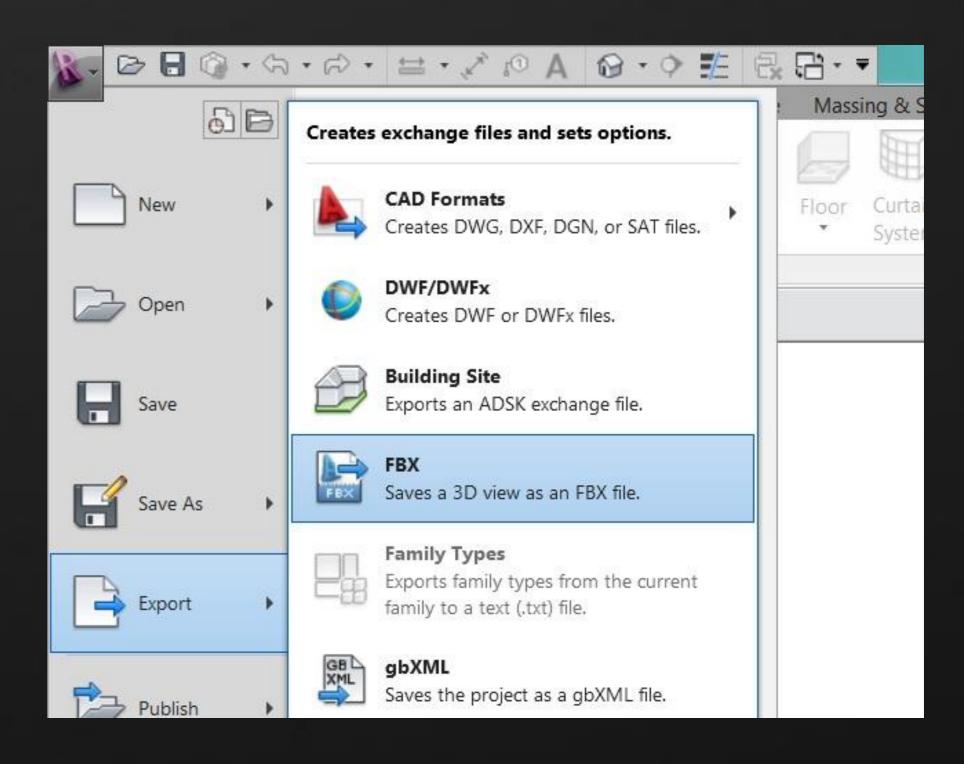
FBX

- Layers
- Curves &Lines

- Lights
- Materials
- Cameras



#### > Export > FBX or DWG

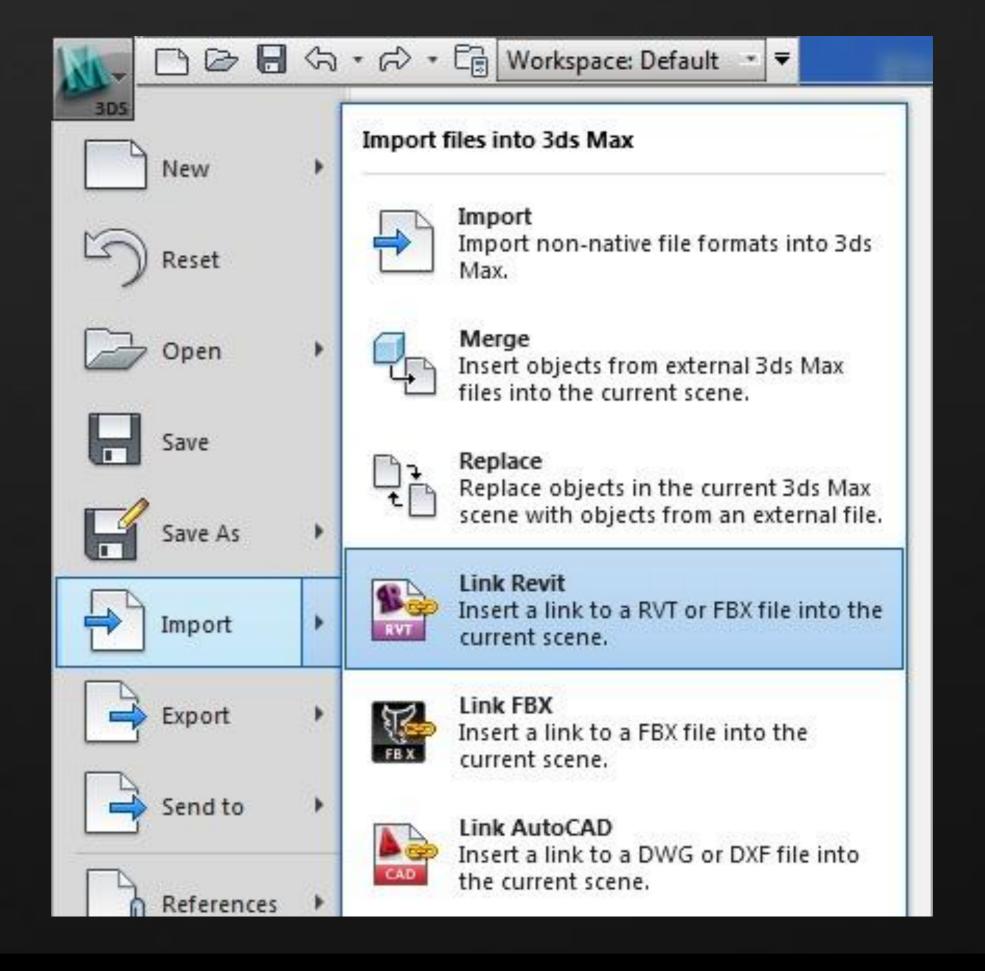


# Linking Files

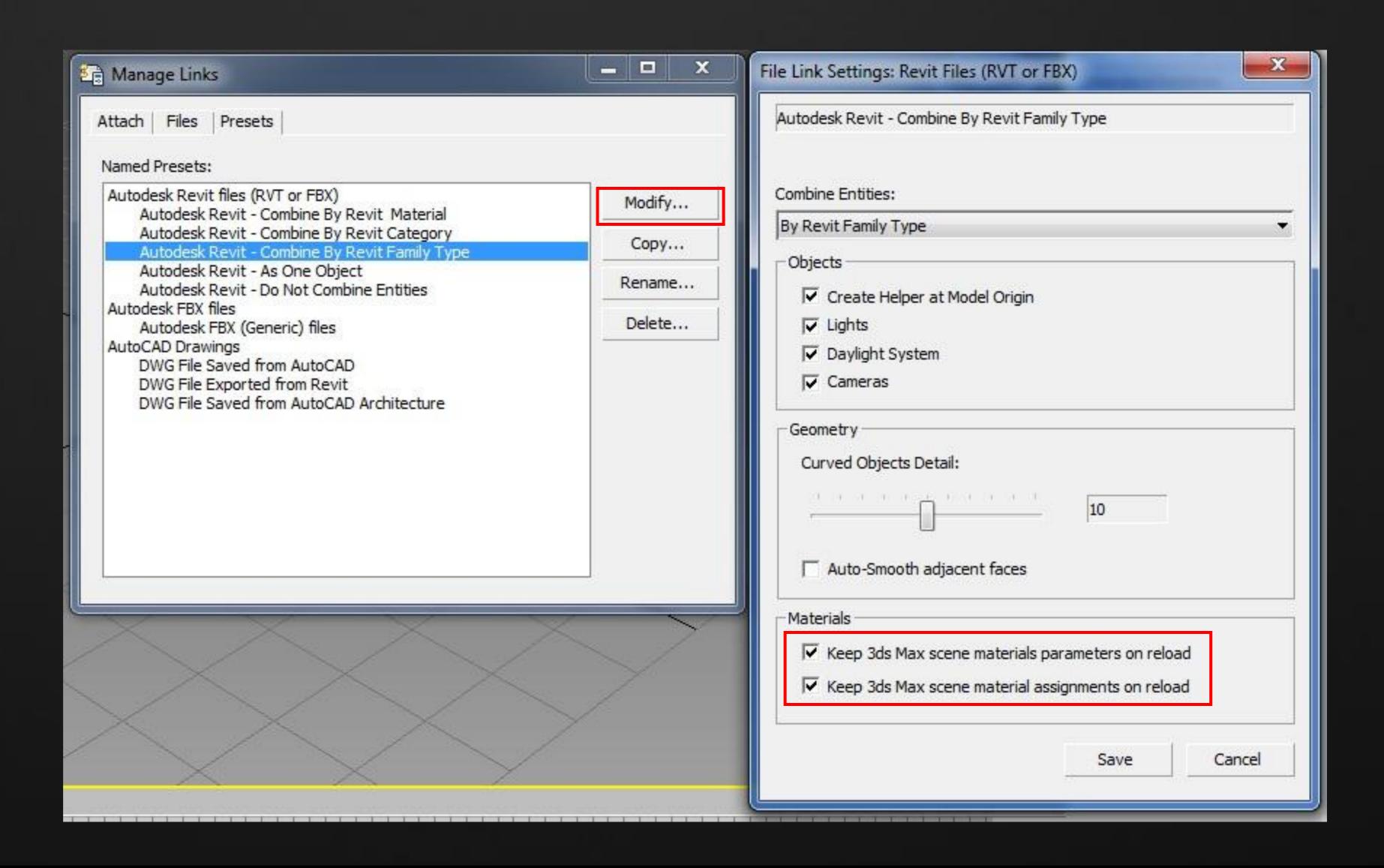
- Combine By Revit Material
- Combine By Revit Category
- Combine By Family Type
- As One Object
- Do Not Combine Entities



#### > Import > Link Revit



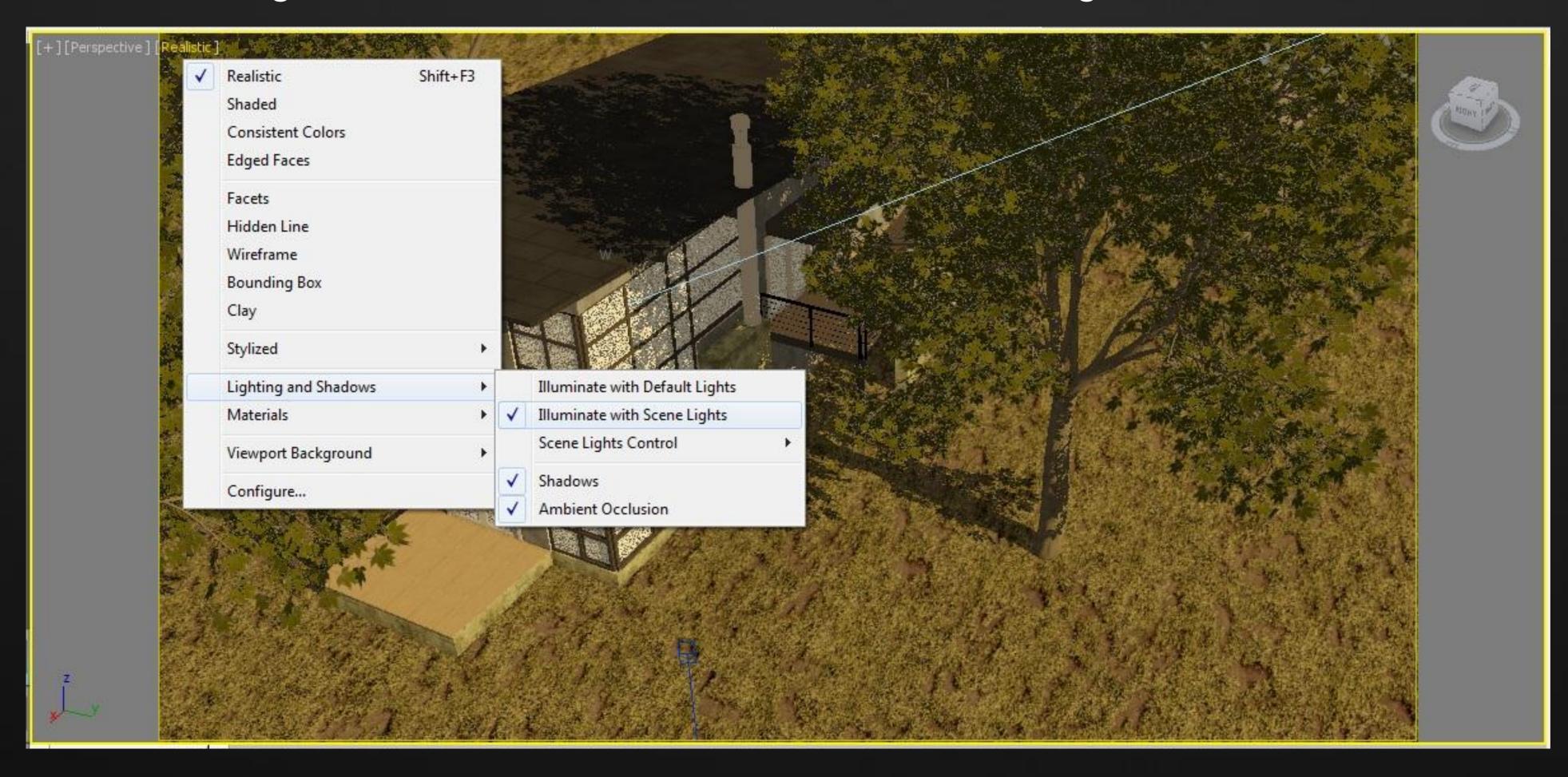
# Linking Files



# Preparing the Scene

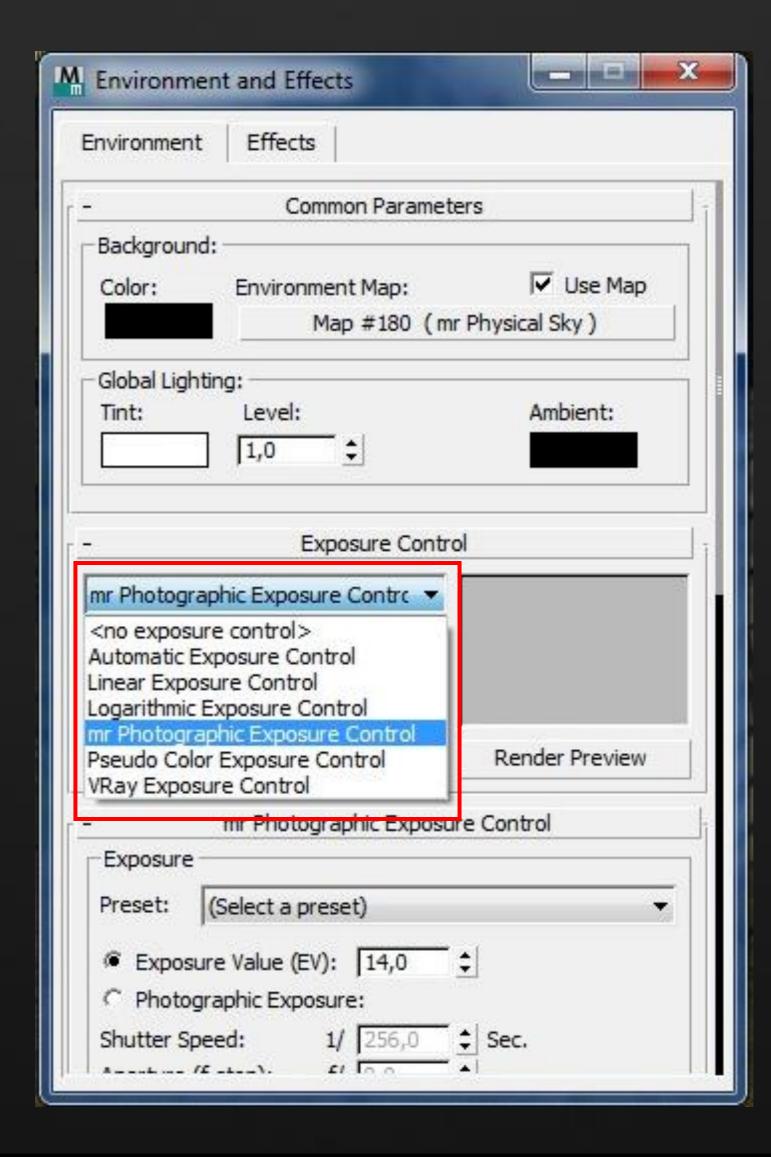
# Activating Nitrous Viewport

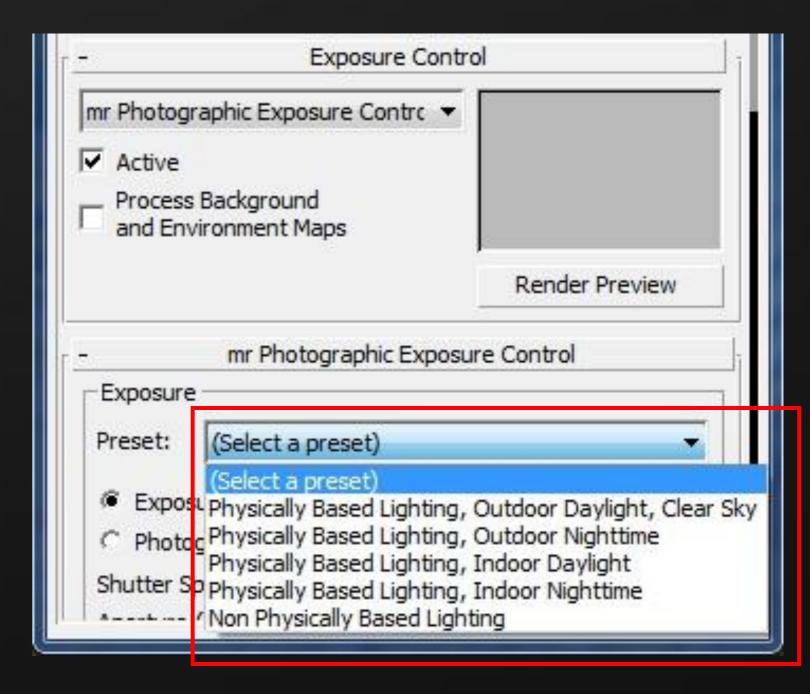
Realistic > Lights and Shadows > Illuminate with scene lights + Shadow + Ambient Occlusion



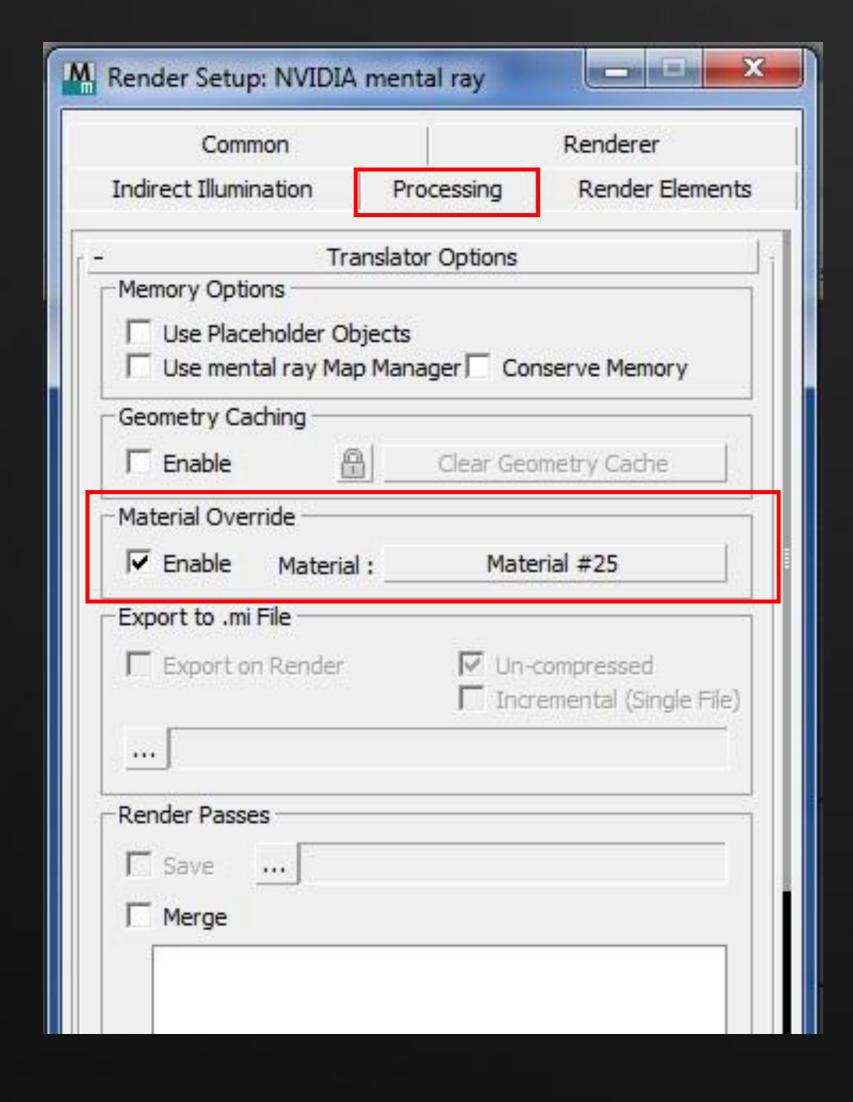
#### Environment

mr Photographic
 Exposure Control



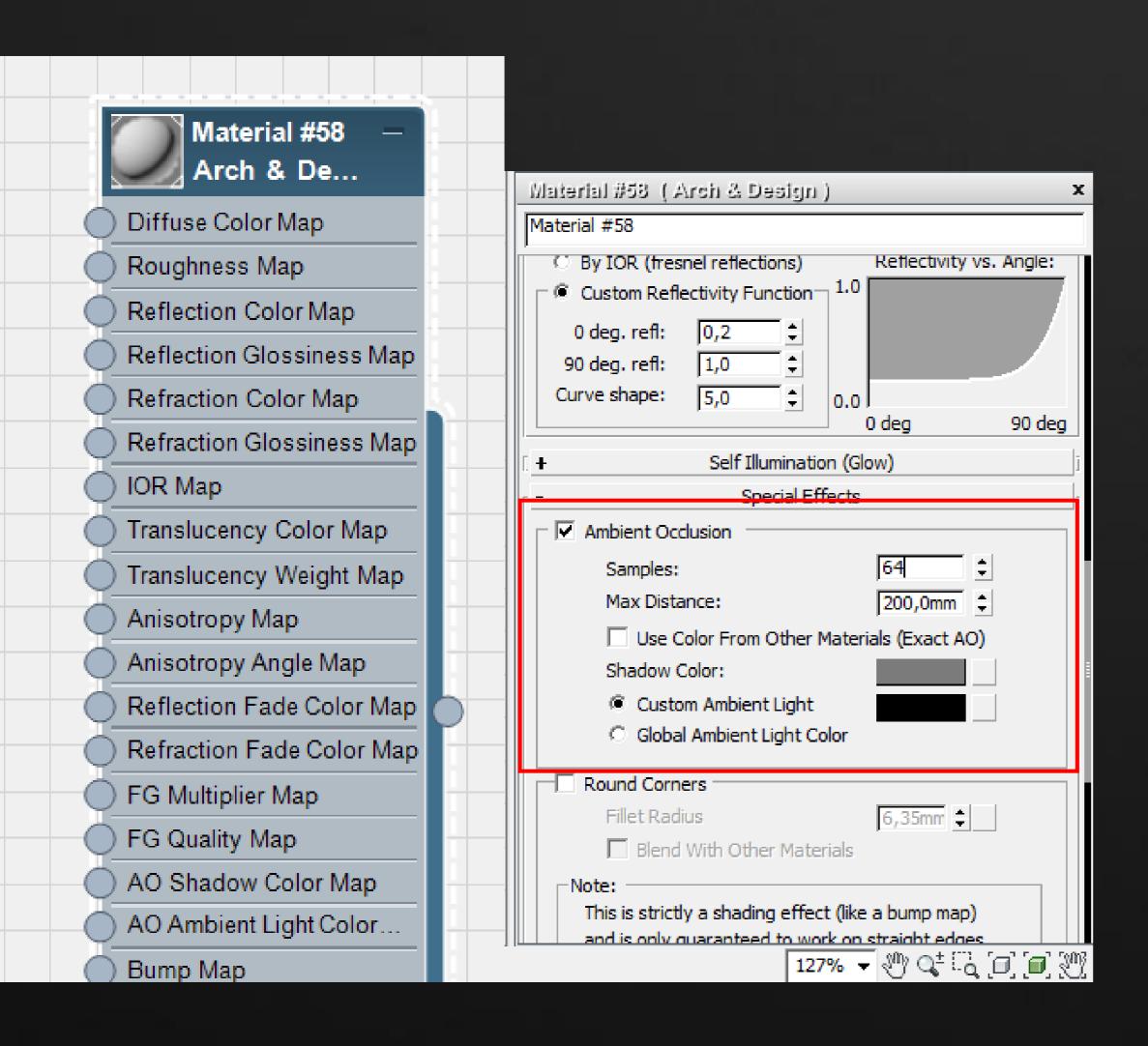


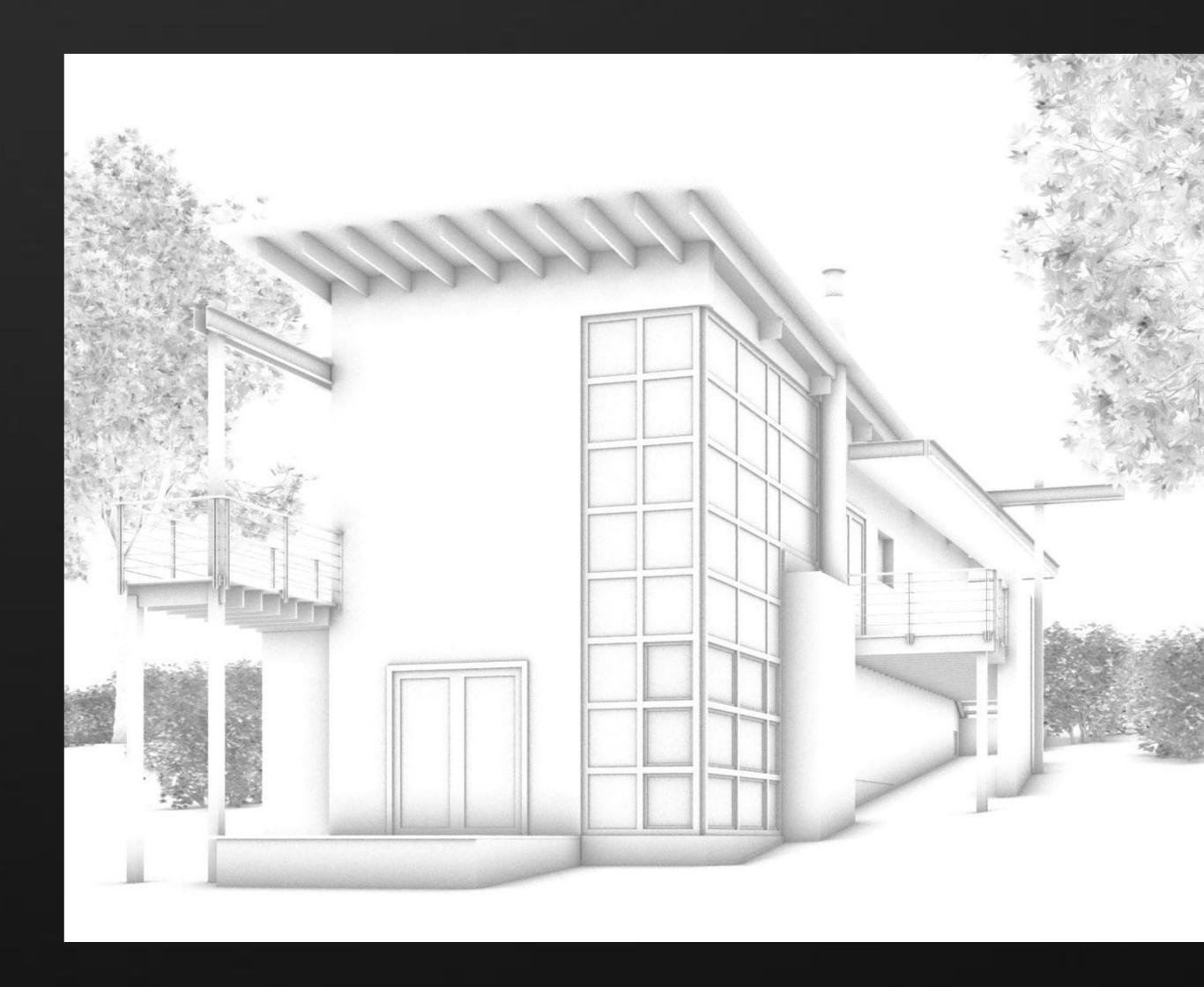
#### Material Override





#### **Ambient Occlusion**





### **Ambient Occlusion**

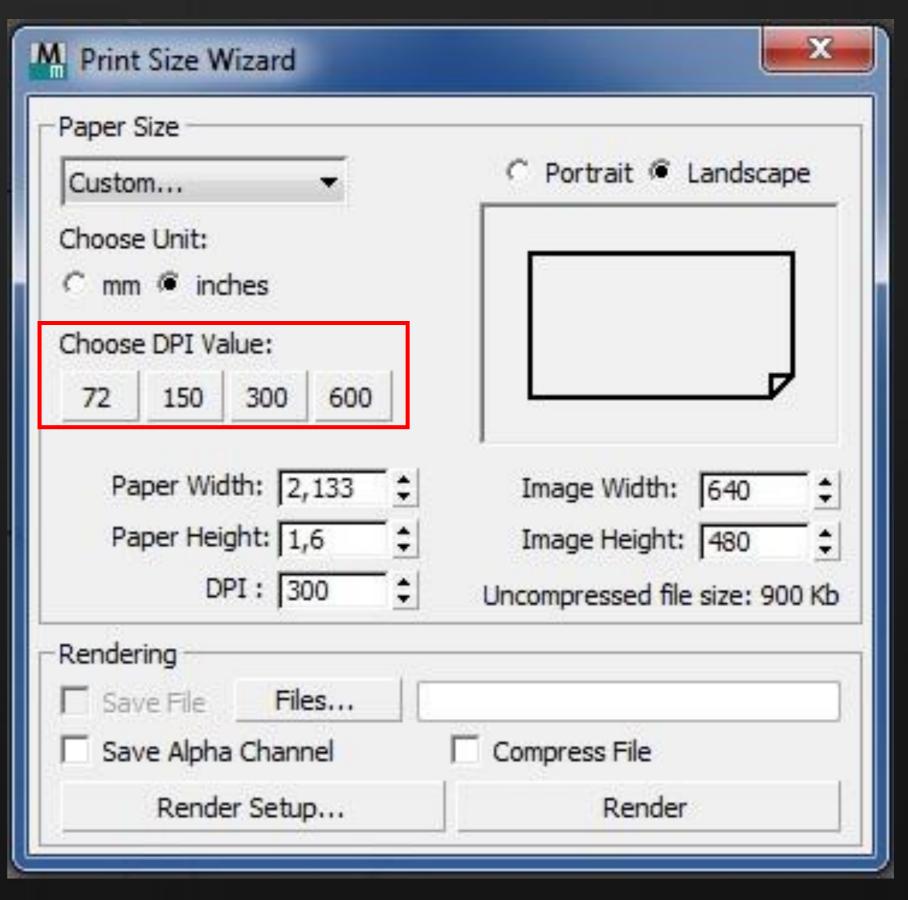


# Render Settings

### Image Resoluton

Image Resolution





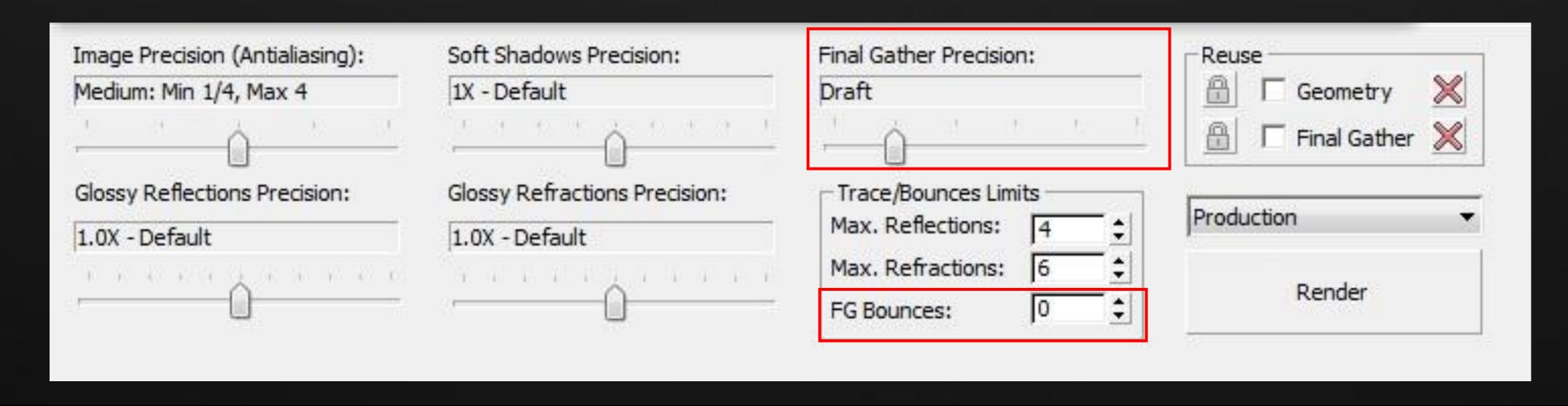
### Final Render Settings

Increasing Final Gather Precision

(For high quality GI set the FG Precision to Low or Medium)

Increase the FG Bounces

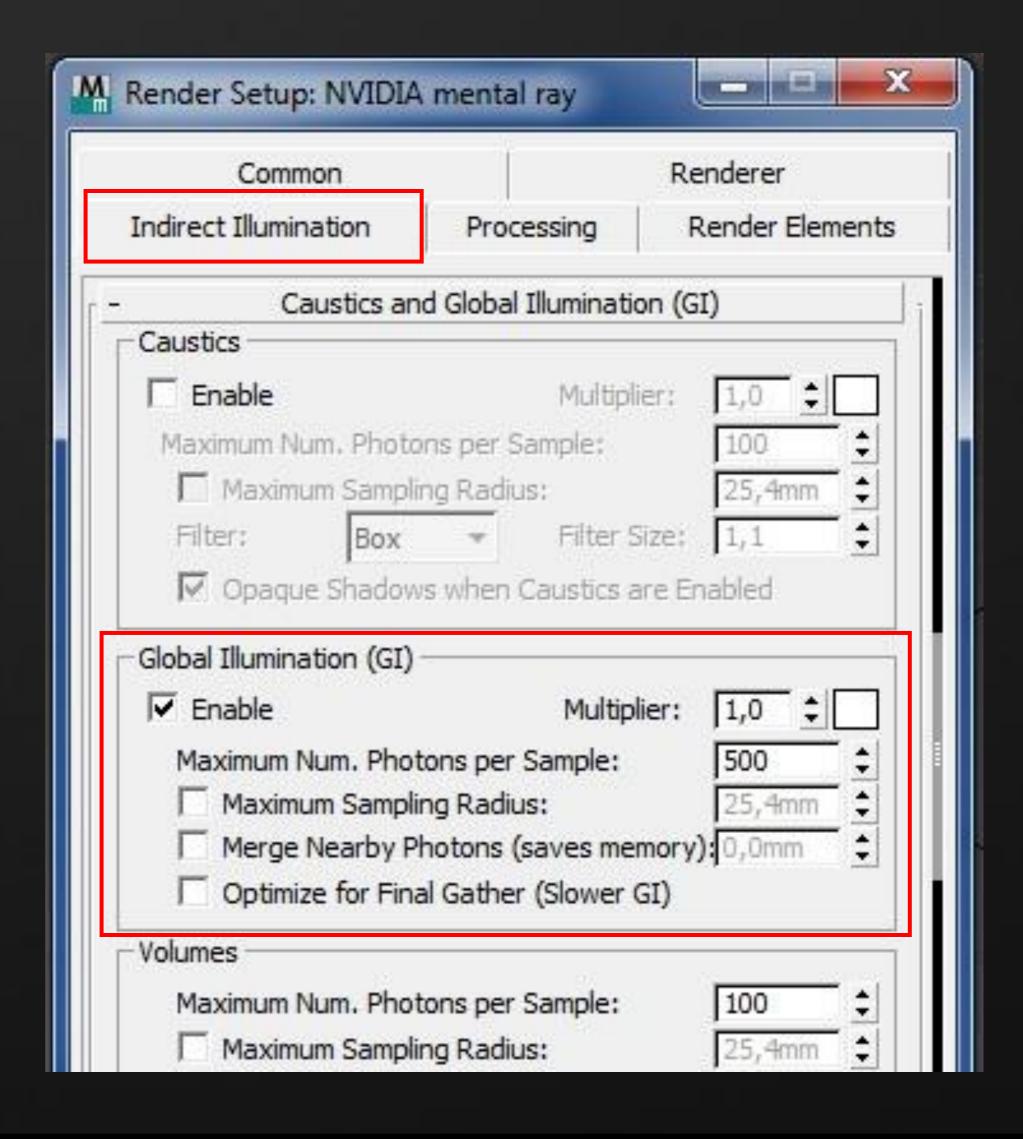
(For exterior renderings set the FG bounces to 2)



#### Interior Render

Activate GI

(Recommended for Interior Renderings)

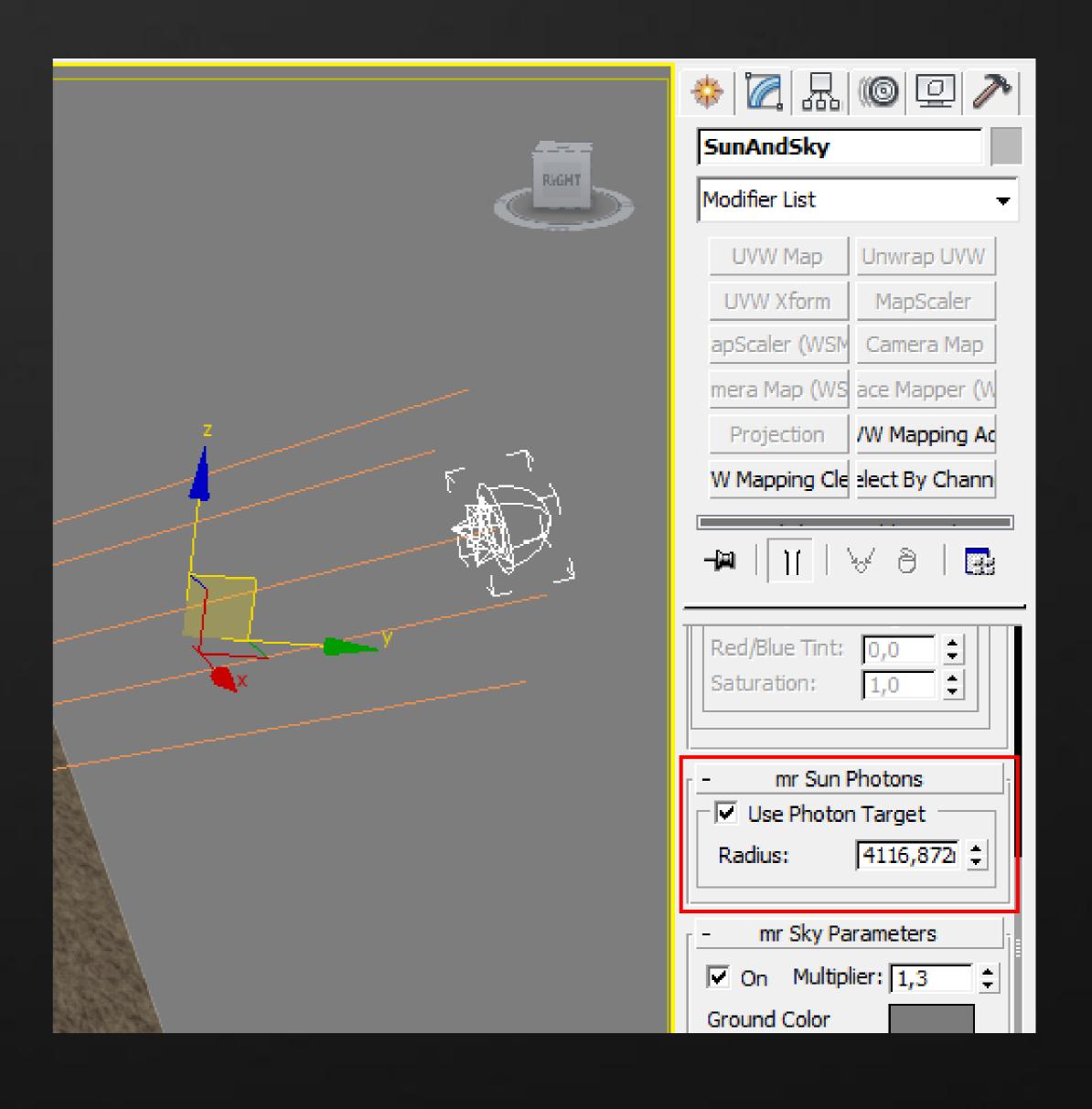


#### Interior Render

Activate GI

(Recommended for Interior Renderings)

- Optimize GI
  - Activate the Photon Target



### Final Render Settings

Activate GI

(Recommended for Interior Renderings)

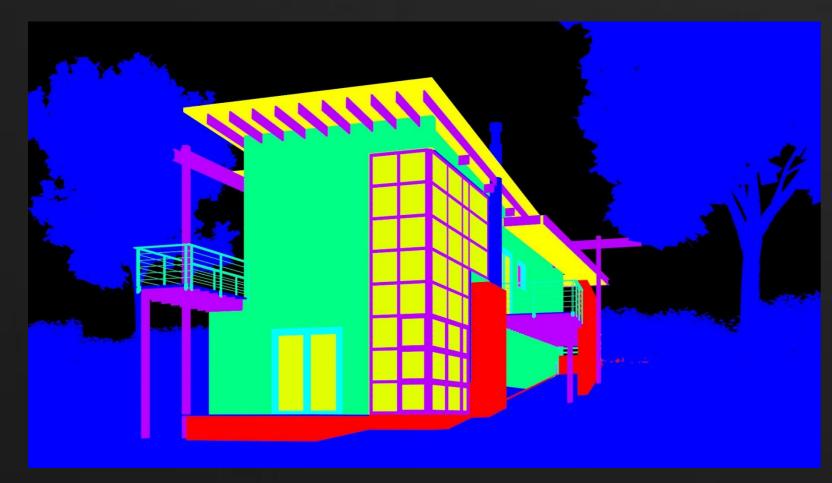
- Optimize GI
  - Activate the Photon Target
  - Use mr Sky Portal





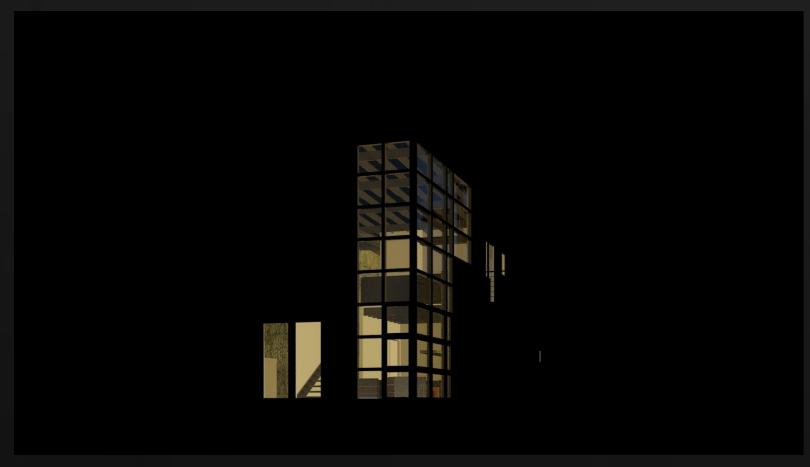
# Render Elements

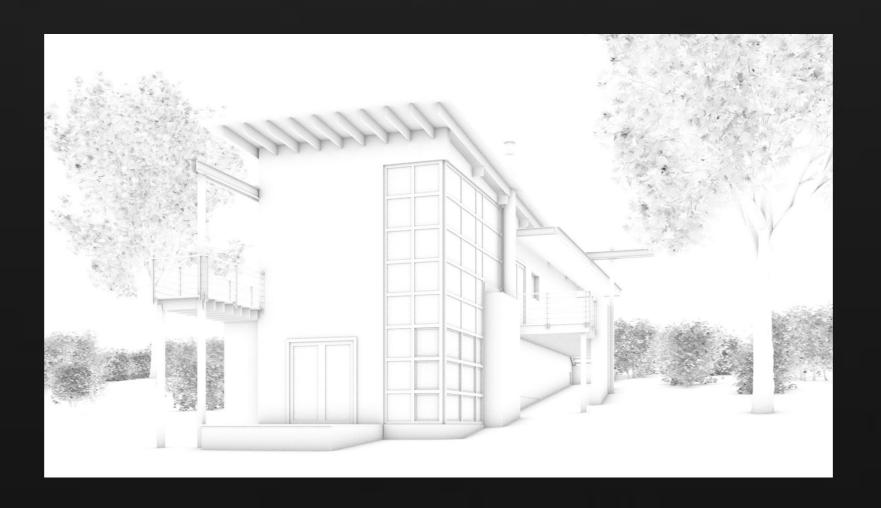
### Render Elements





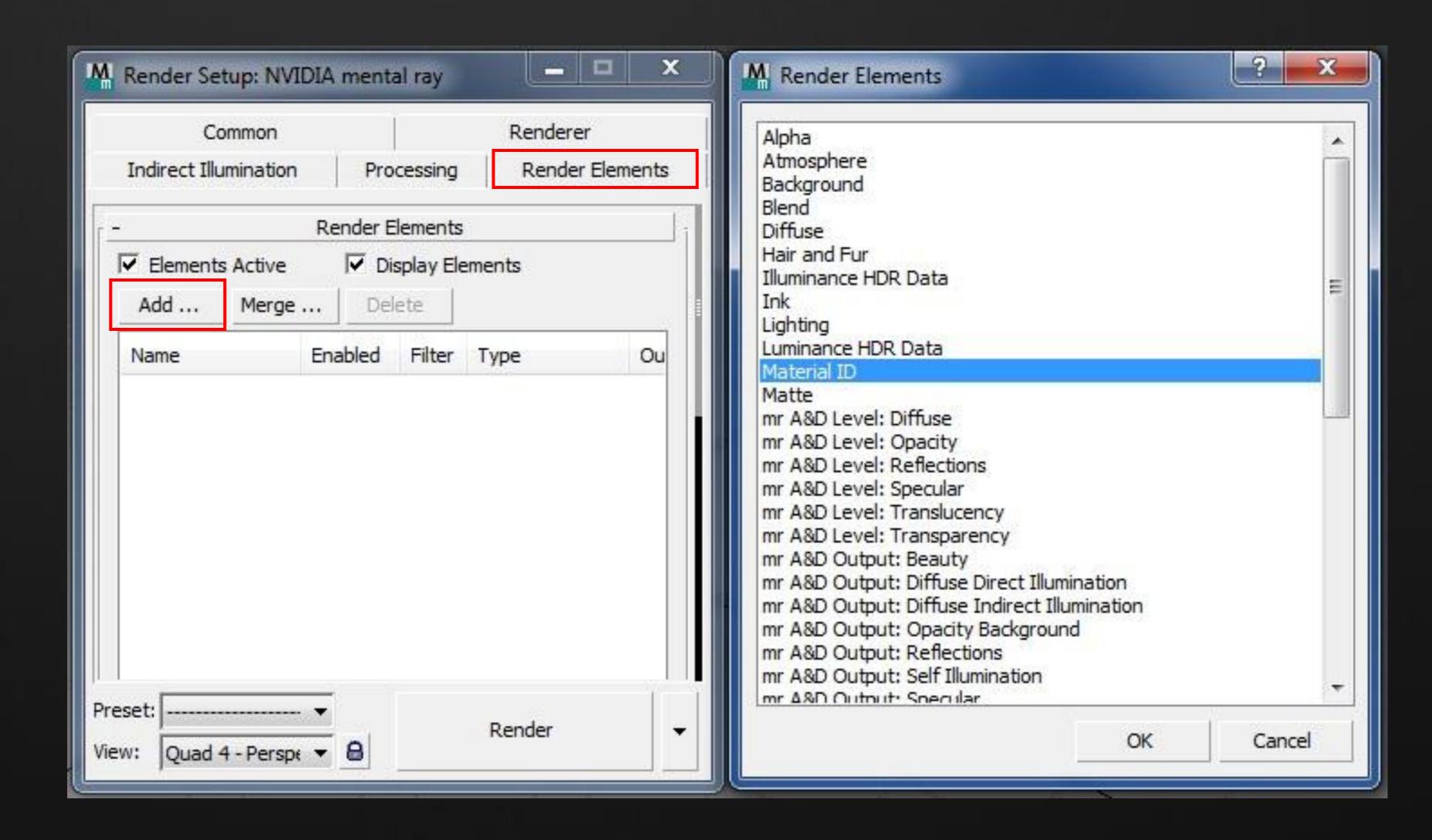








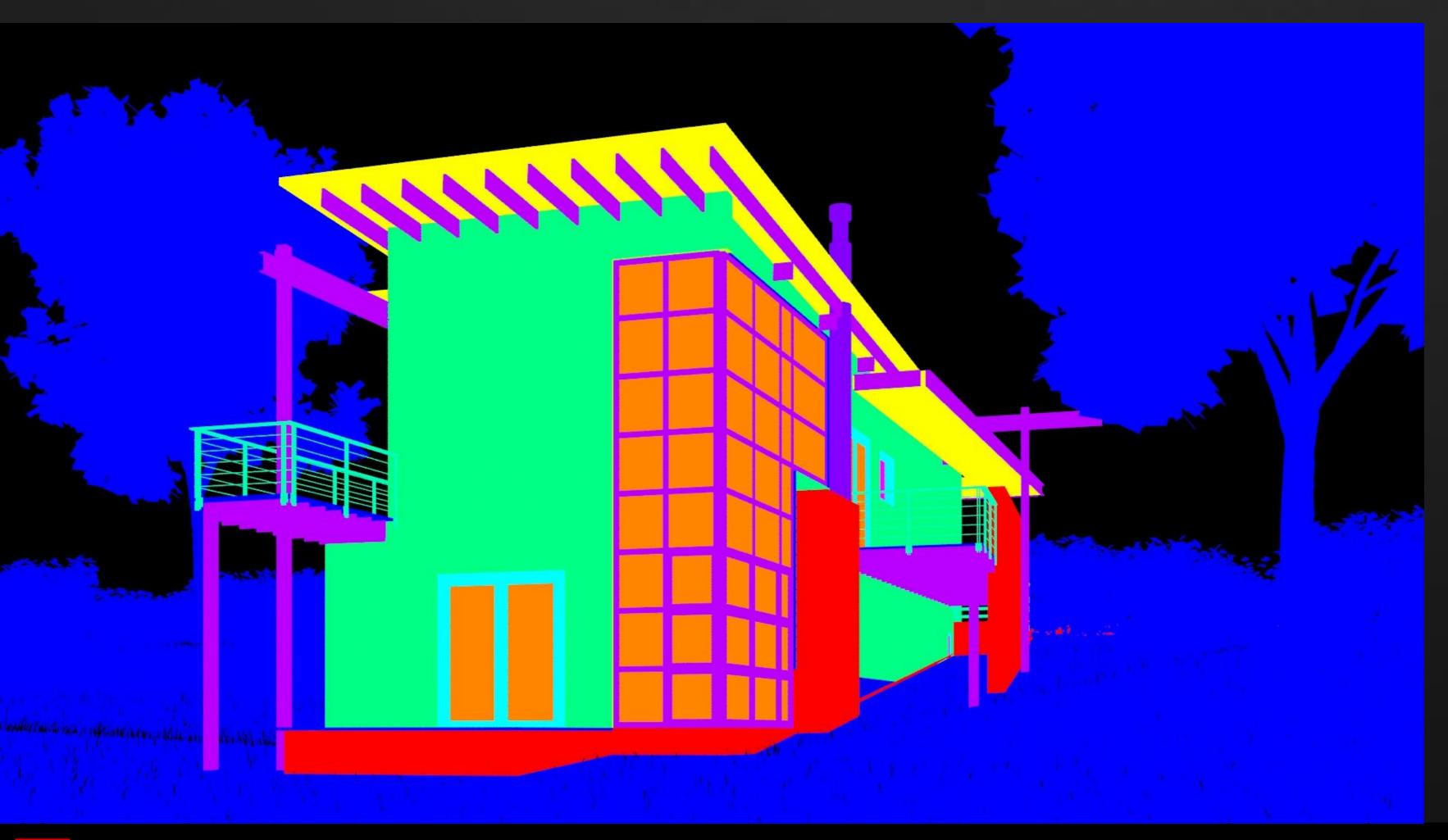
#### Render Elements

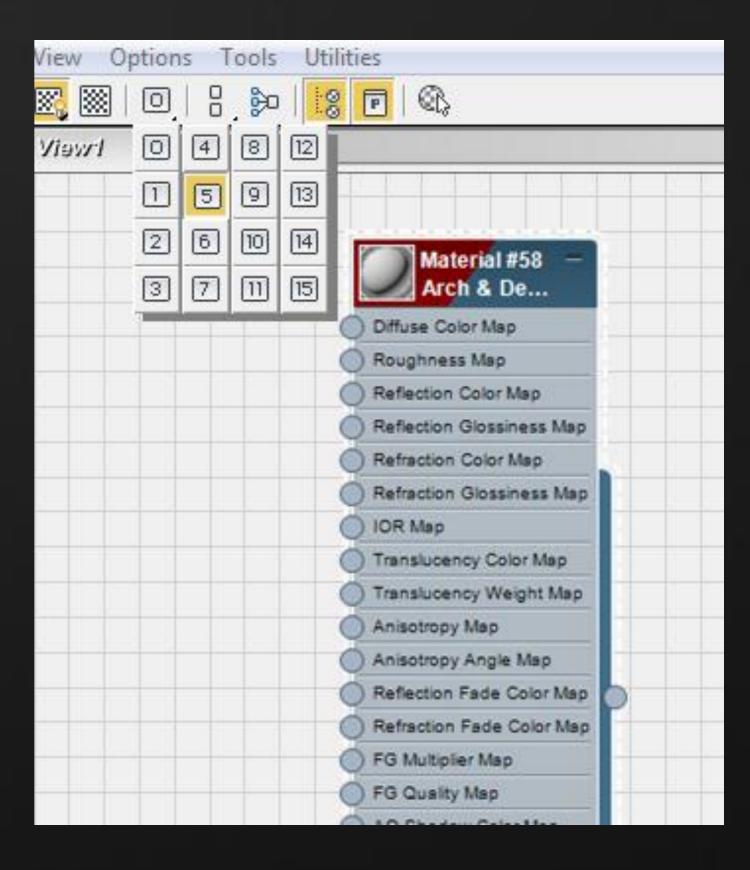


## Autodesk Composite 2013



#### Material ID



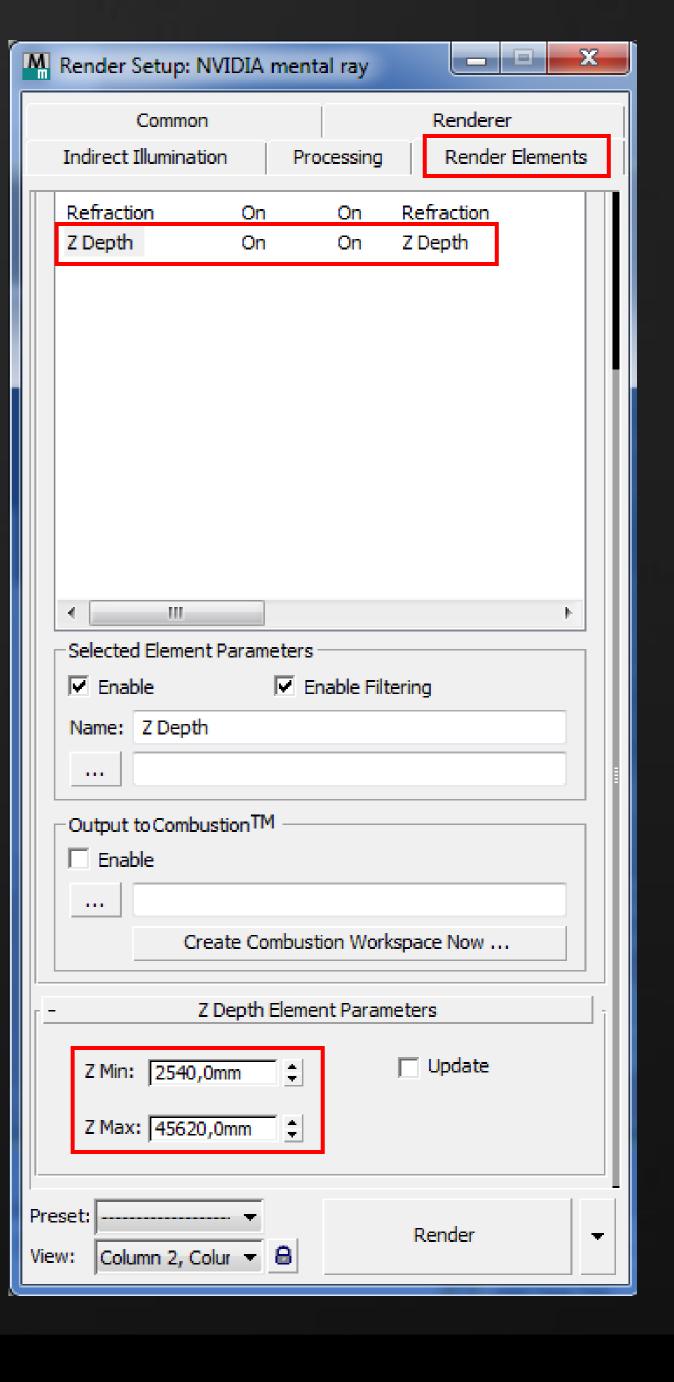


## Material ID



## Z-Depth



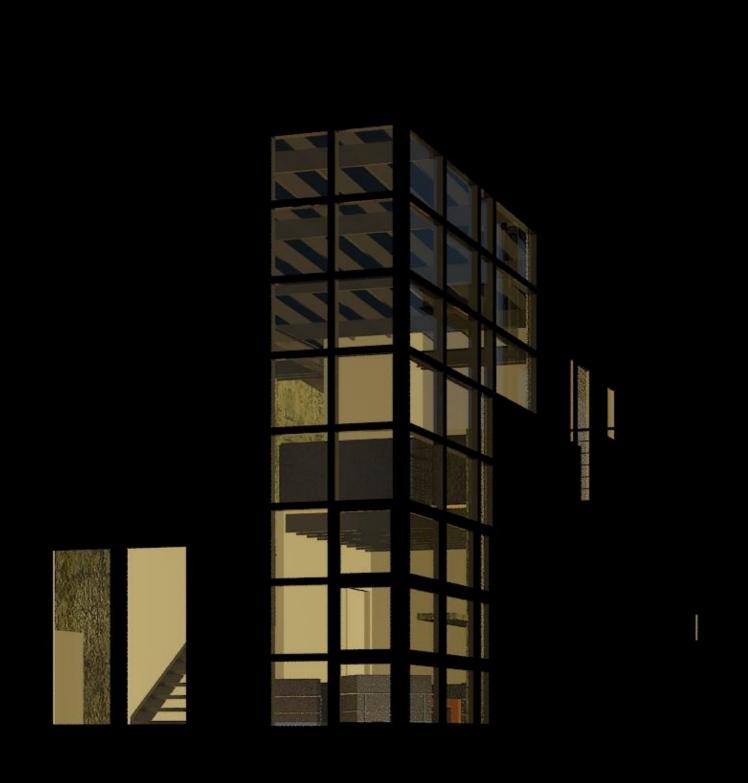


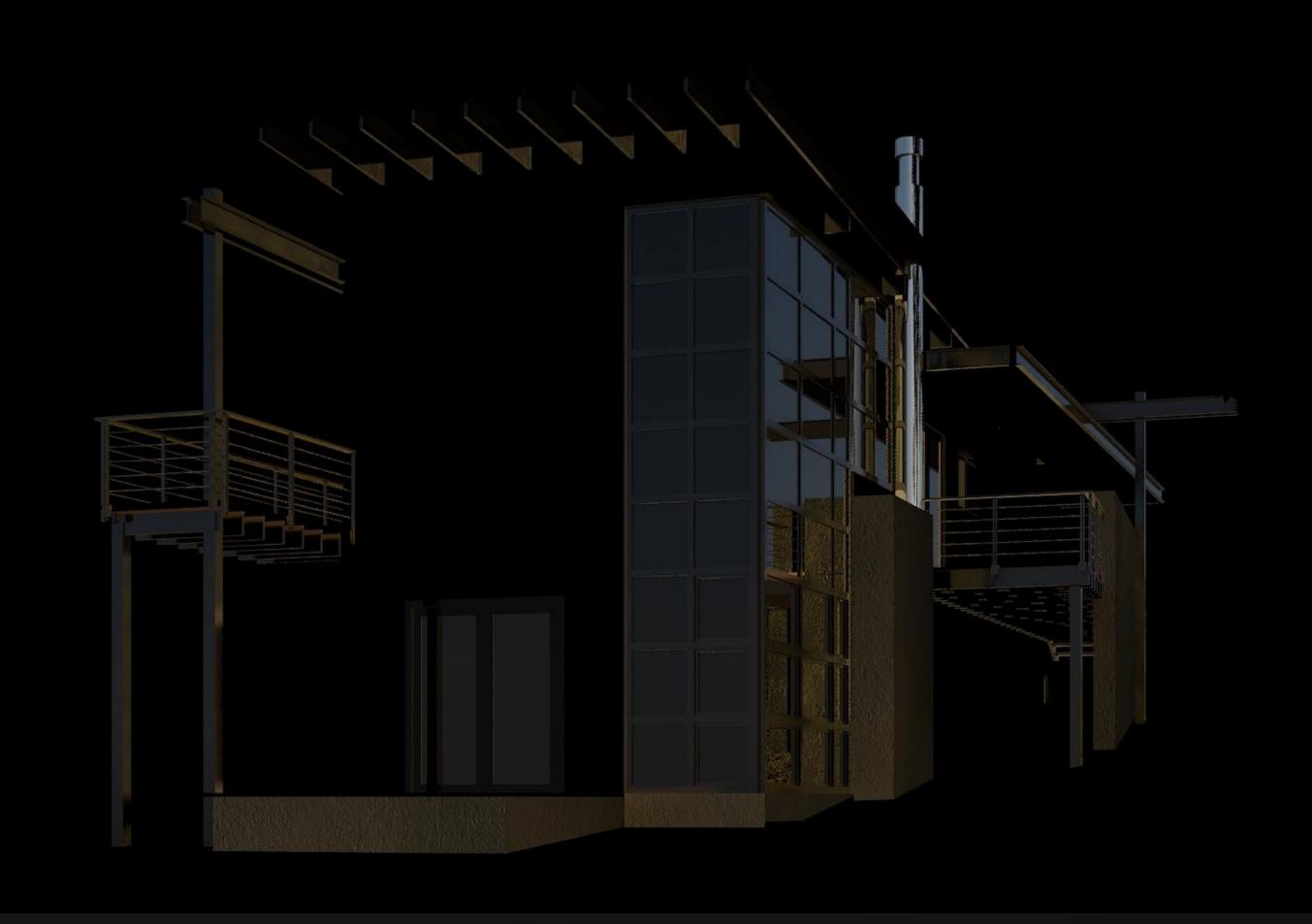
# Z-Depth





### Refractions/ Reflections





## Refractions



## Add Life

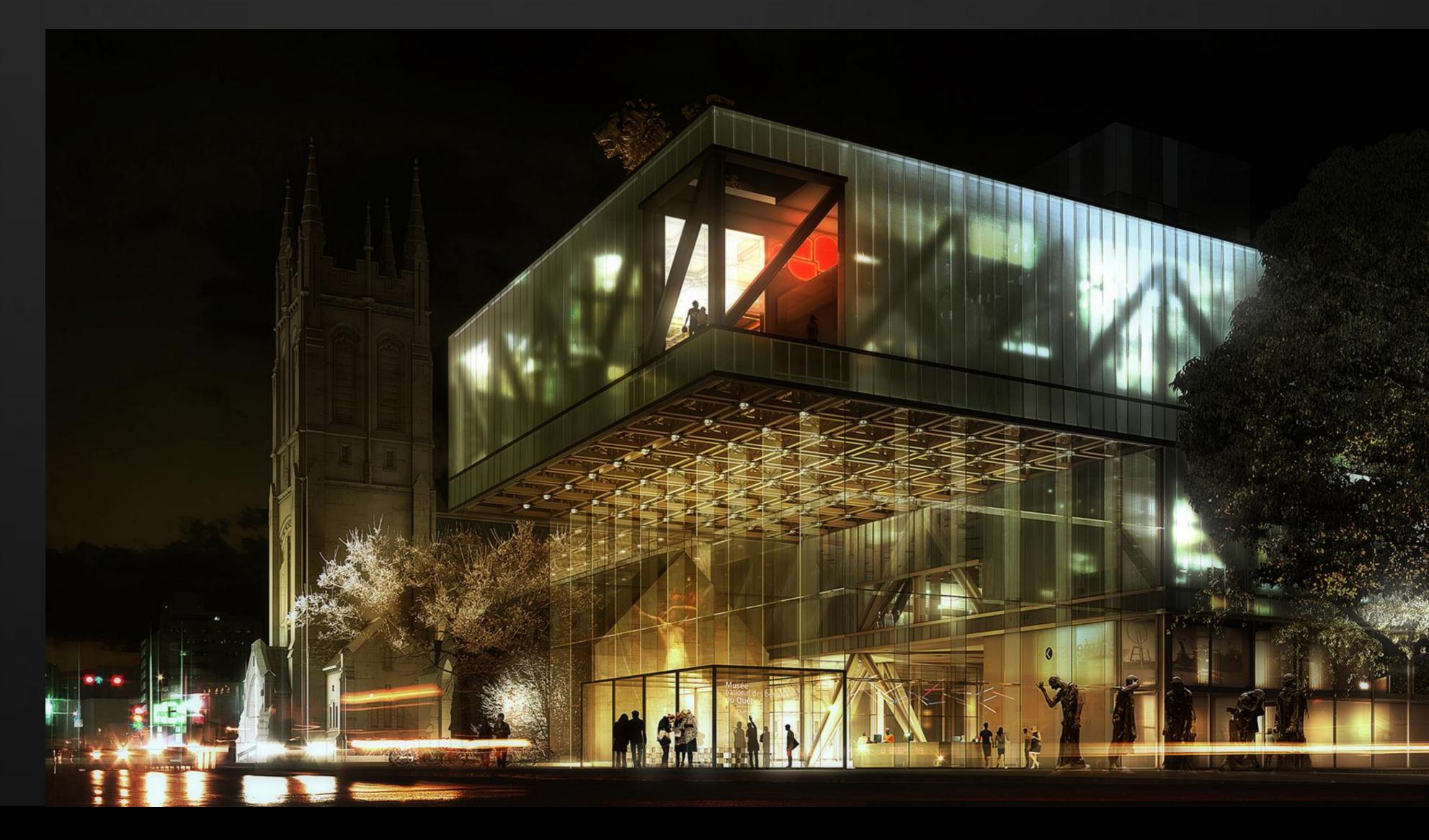


### Add Life





## Add Life





**AU** Autodesk University





## Thank you



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