


Month 2, Lecture 2



PROJECT MANAGEMENT




From Monday

- Finish Spline modeling
 - Show Illustrator example
- 




What we are going to discuss

- Project management
 - Software management
 - Scene Management
 - Material management using Multi/Sub Object Materials
 - Rendering
- 



Project Management

- Working solo vs. working in a team
 - Project Folders
- 



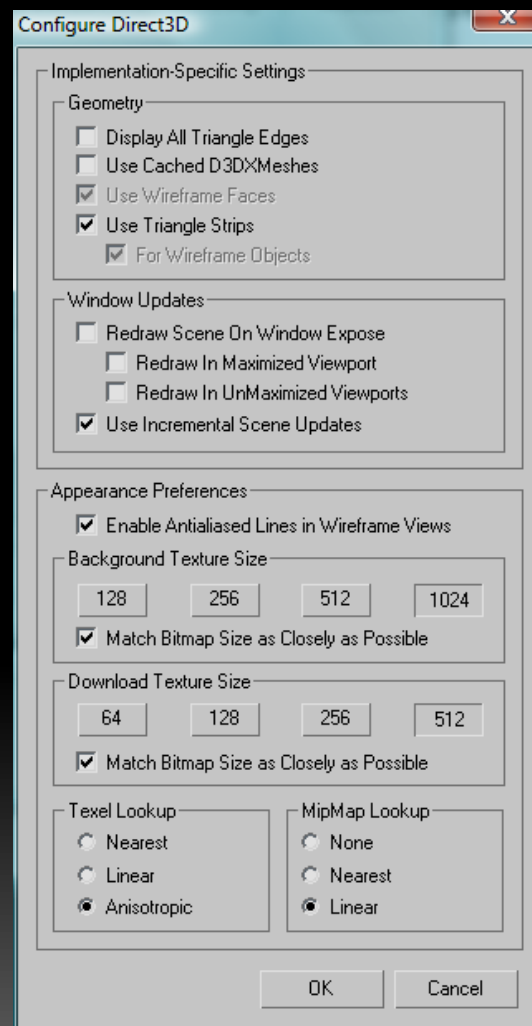
Software Management

- Customization
 - User Interface
 - Viewcube and Steering Wheel
 - Paths (User and System)
 - Shortcuts and Hotkeys
 - Display Drivers

Software Management

If you have your own copy of Max you need to do this:

- Customizing Display Drivers
- Customize > Preferences > Viewports tab > Configure Driver button
- You'll have to restart Max





Software Management

- Display Command Panel
- Menus and Dialogs
 - ▣ Can alter the order in which things are displayed in the menu



Software Management

- Template Scene File – saving all your settings in a blank scene that you use for each new file
 - ▣ Maxstart.max



Scene Management

- Object Properties
 - Display Command Panel
 - File Operations
 - ▣ Opening and Saving
 - ▣ Importing and exporting
 - ▣ Archiving
- 

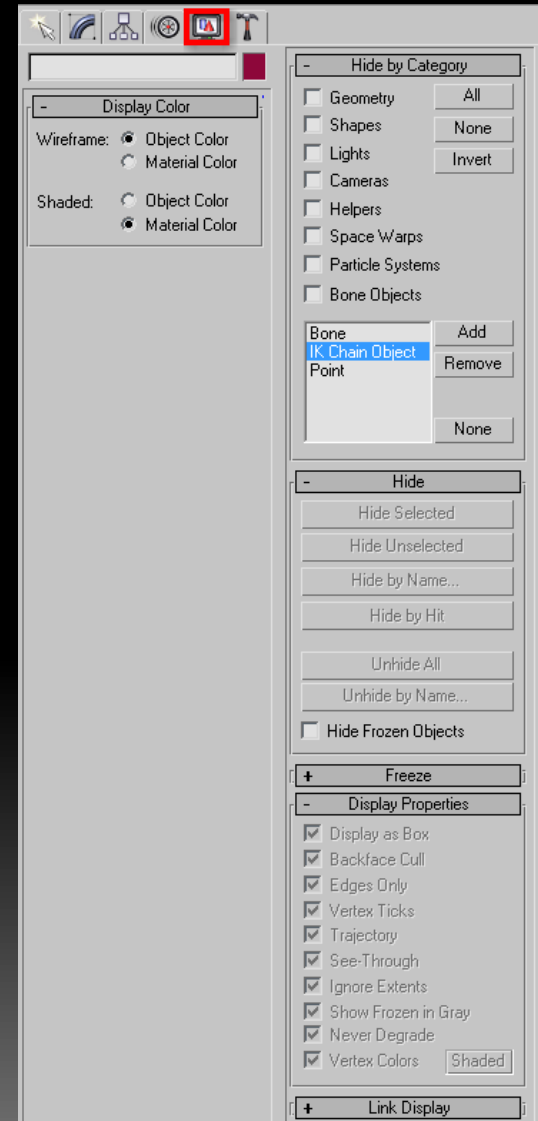


Object Properties

- Right Click on object and choose Object Properties
- 


Display Command Panel

- Allows for more control when hiding and unhiding objects






File Operations


- Saving, exporting, etc.
 - Before you can make this decision, you need to know about 3D Program capability
- 



**QUESTION: WHAT DO 3D
PROGRAMS ACTUALLY DO?**




3D Concepts: What does a 3d program do?


- Create Images
 - Create Moving images (Animations)
 - Create / Modify 3D Data
- 



QUESTION: WHAT IS 3D DATA?



Data Formats (2D and 3D Data)

- 2 types of data
 - 2D – includes Pixels (raster) and curves (vector)
 - 3D - Scene data
- 

3D Data Formats

- 3ds Max Aligned

- ▣ .MAX (native)
- ▣ .FBX
- ▣ .3DS
- ▣ .DWG (CAD)

- Universal

- ▣ .OBJ (Excellent)
- ▣ .DXF
- ▣ .FLT
- ▣ .ASE (ASCII - "ass-kee")

2D Data Formats

- Raster

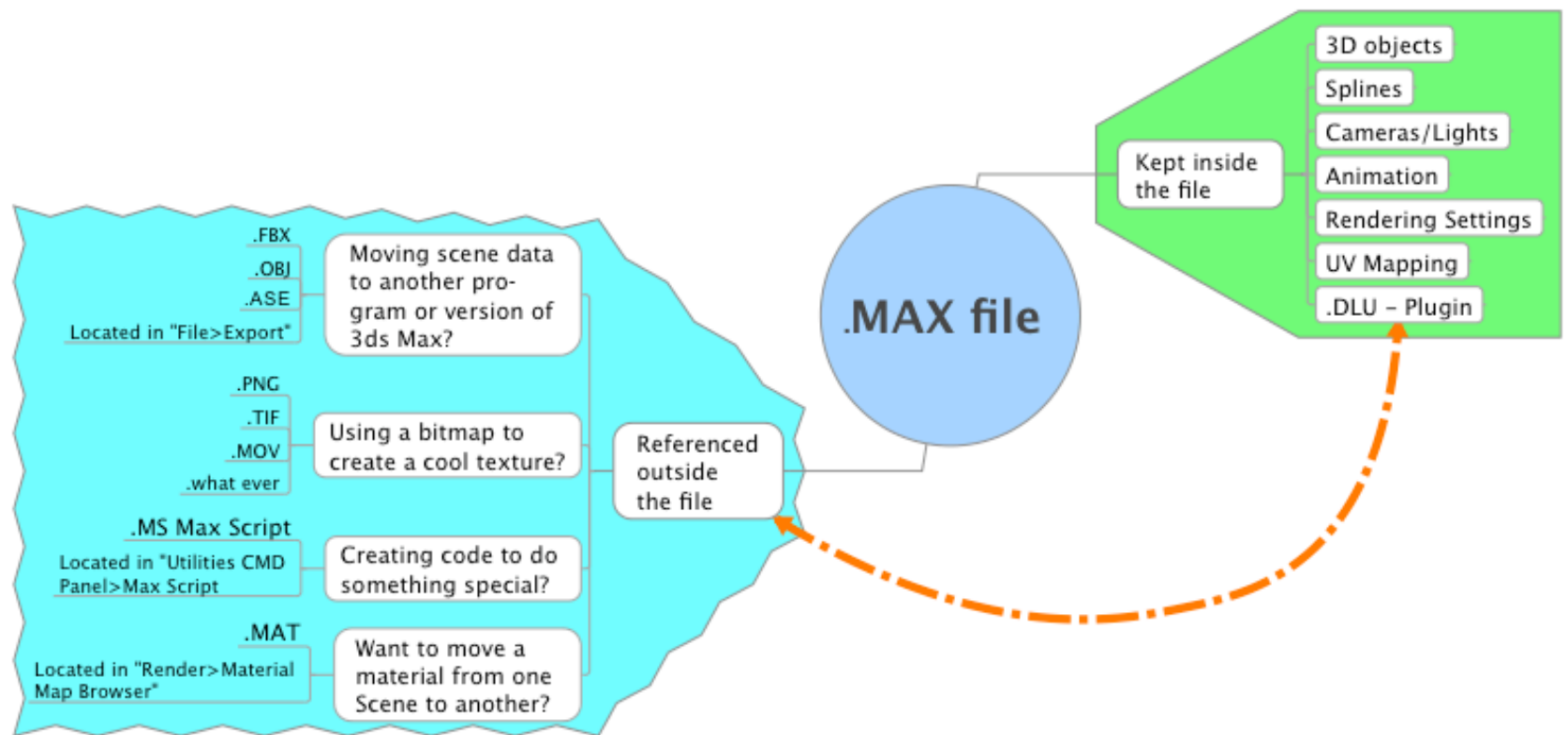
- Image formats
 - PNG
 - TIF
 - TGA
- Video Formats
 - MOV
 - AVI
- Stay away from
 - JPG
 - GIF

- Vector

- AI (can be used in 3ds Max)
- Flash
- CAD

Meet the .MAX file

The .MAX file is basically a project file that holds mesh data, materials, lights and cameras, and animation.

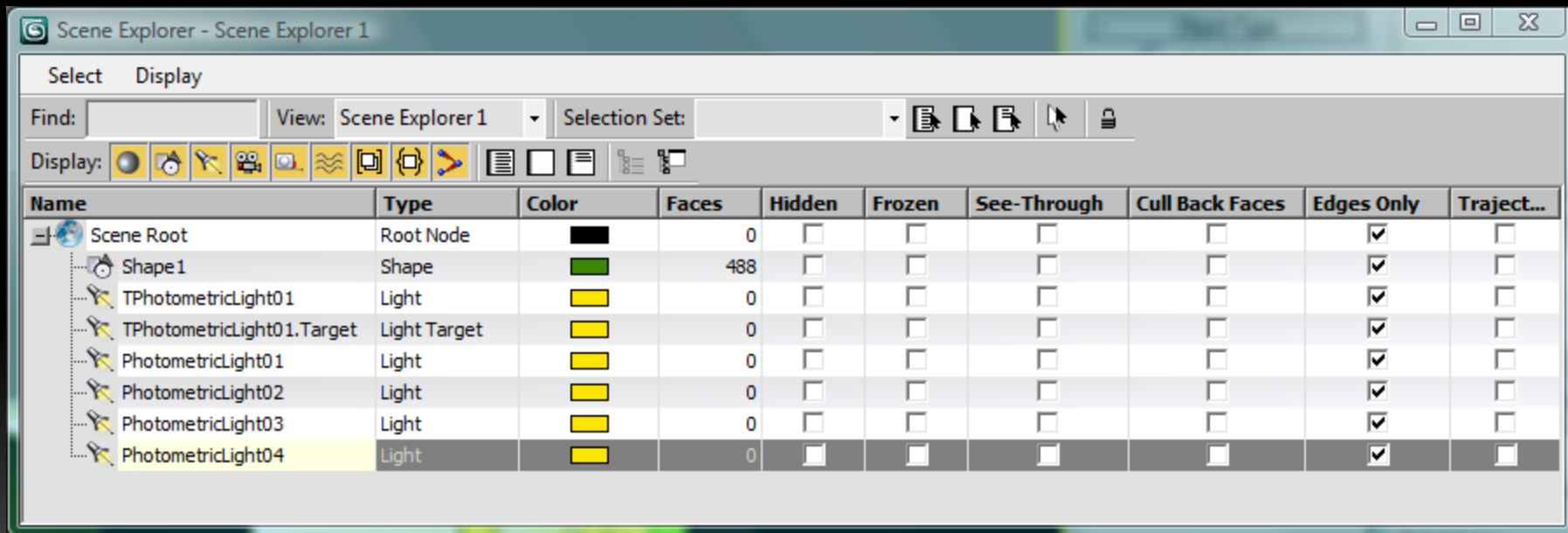




File Operations

Scene Explorer

- Organizational tool that allows access to many object properties



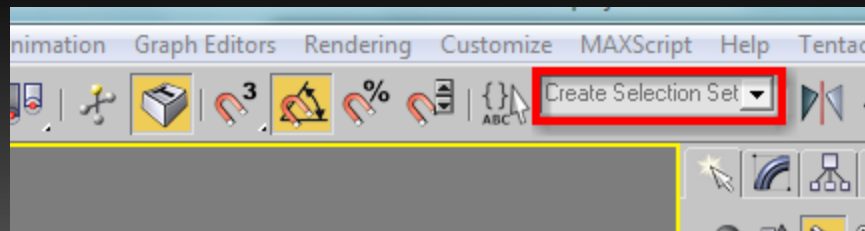


Naming Conventions

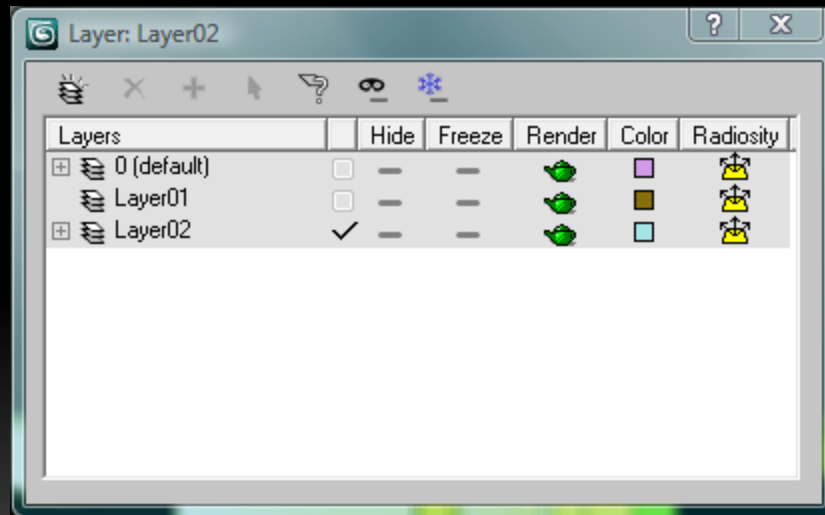
- Always give a unique name to:
 - ▣ Scene geometry
 - ▣ Materials

Selection Sets

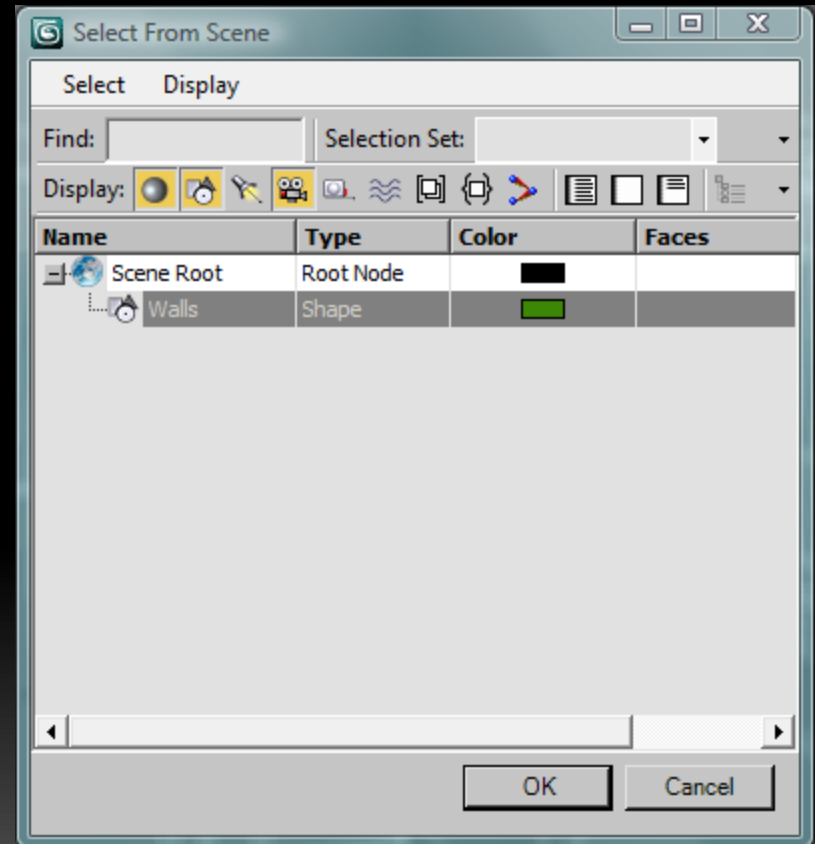
- Quickly select objects by putting them in “sets”
- Works on objects OR sub-objects
- Can be edited to add or remove objects



Layers

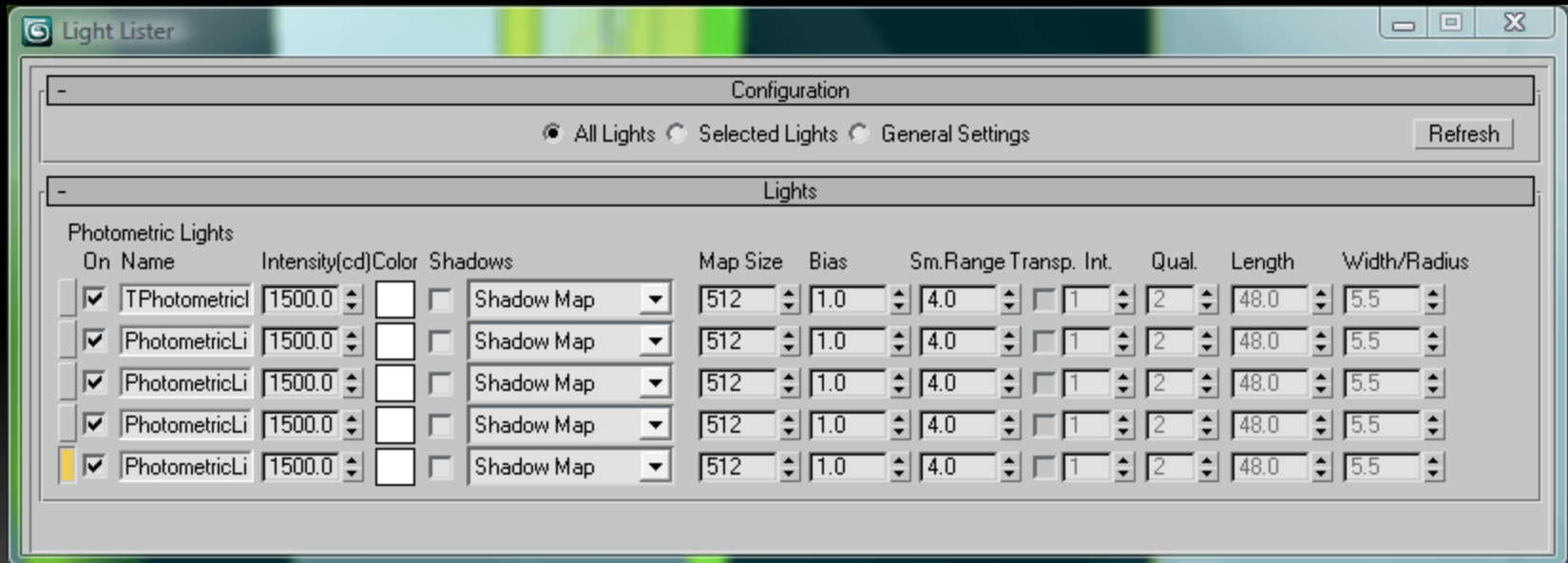


Select by Name Dialog



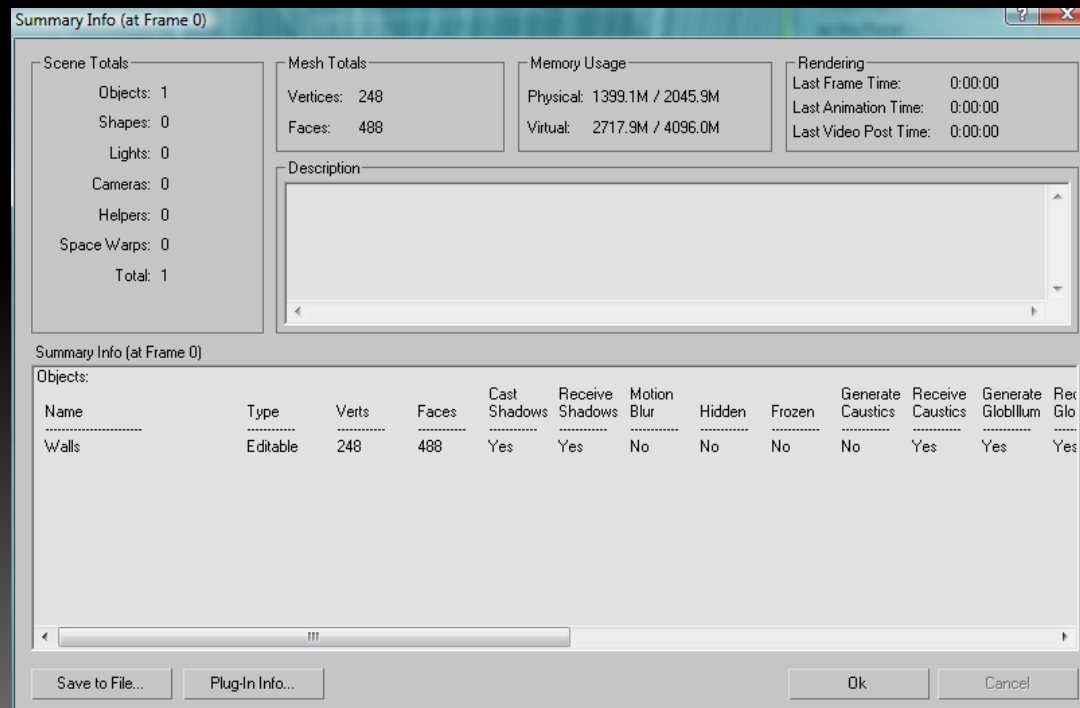
Light Lister

- Organizational tool that allows you to change most common light options.

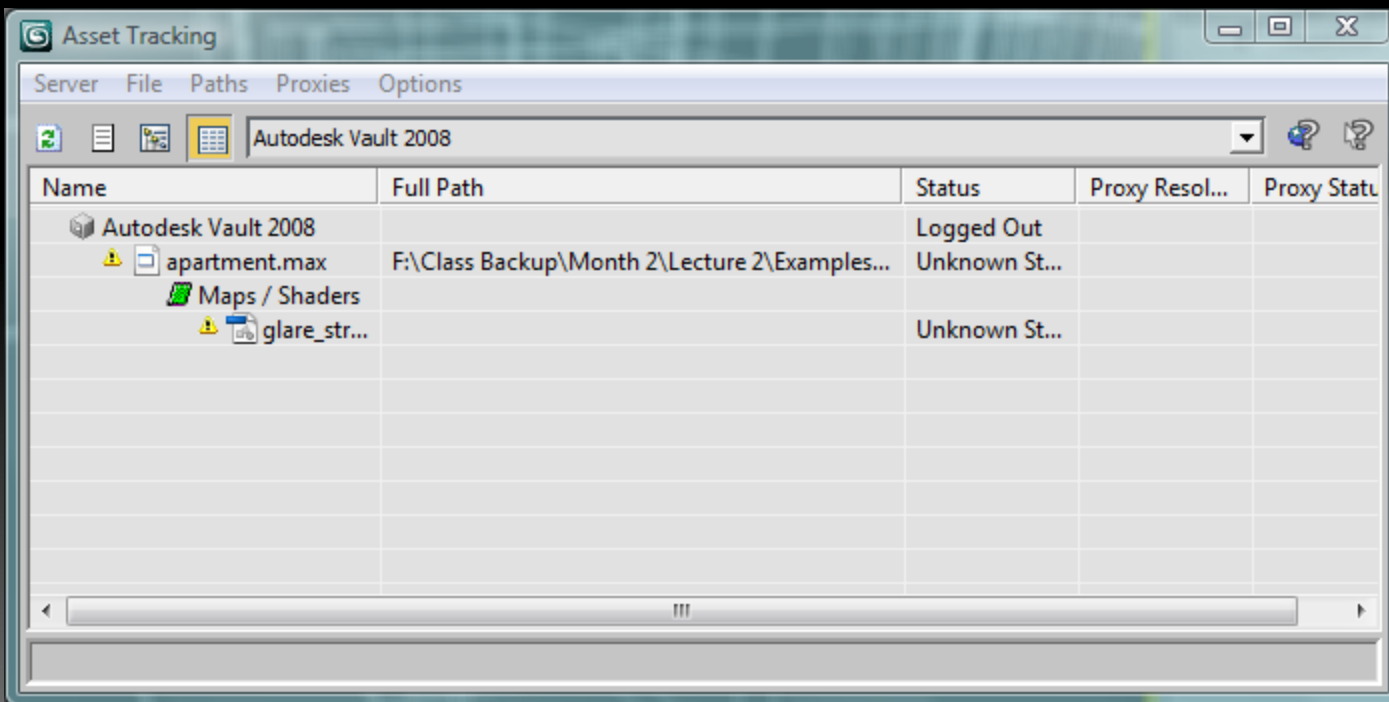


File Summary

- Quick overview of everything in your file.
 - ▣ Number of objects, lights, cameras, vertices, faces etc.



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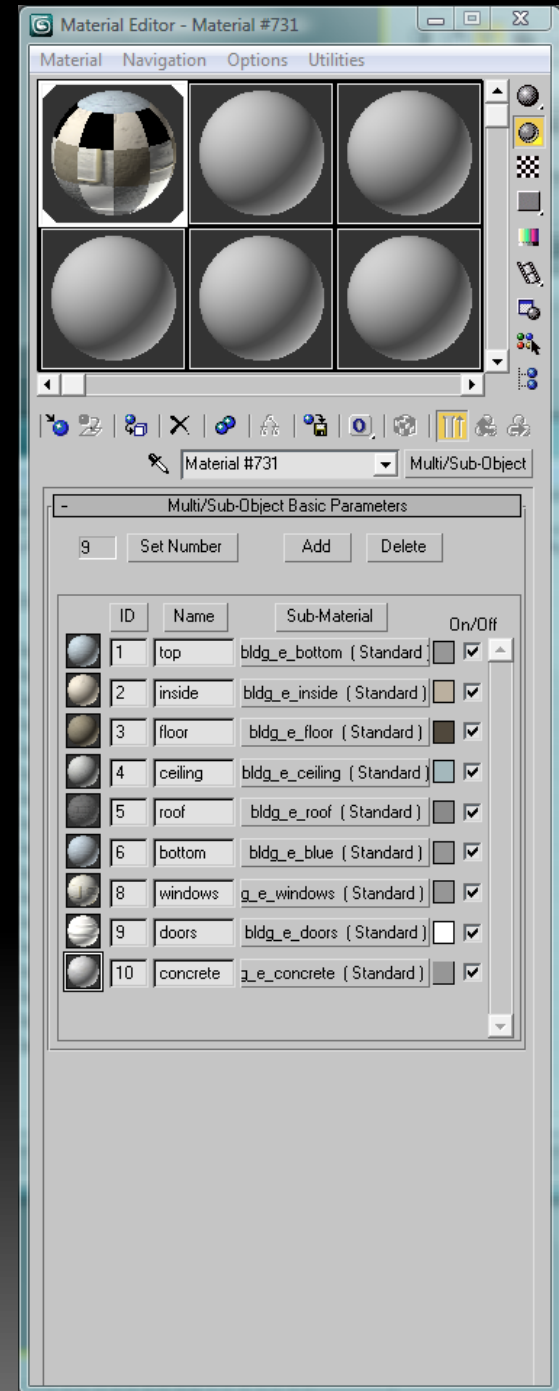


Material Organization



Multi/Sub-Objects

- Creation
- Control



Controlling Sub-Objects

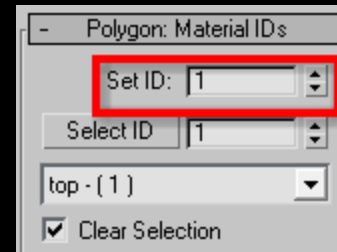
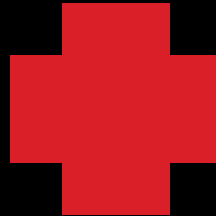
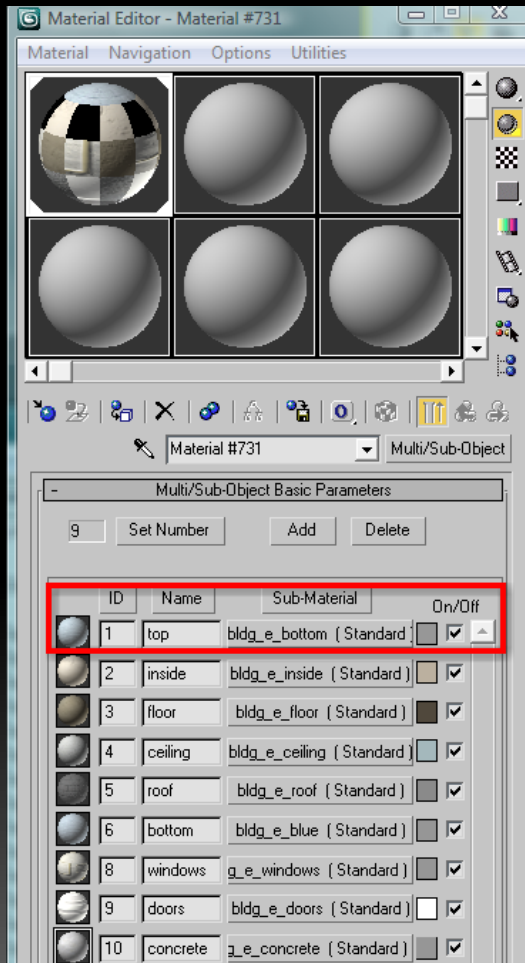
- Telling the computer which material is on which polygon, and what UVW Map to use.
- Simply put:
 - ▣ You only need to control 2 things.
 1. Which material (material ID's)
 2. How the material is applied (Map channel)
- That's it. Promise.



Material ID

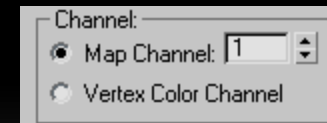
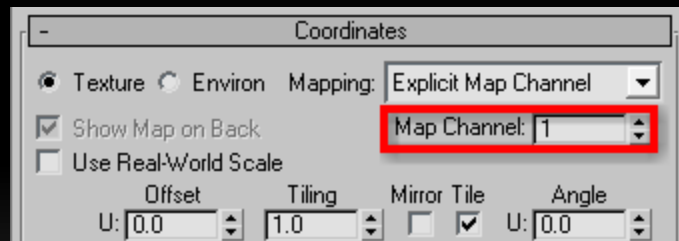
- Which material from the Multi/Sub –Object Material is on which polygon

Material ID



Map Channel

- Allows multiple types of mapping to be assigned to different material parts.






Material Library

- Creation
- Modification

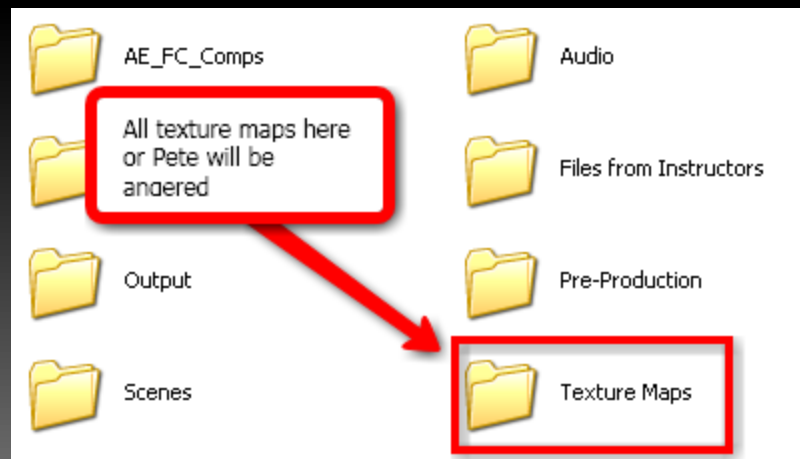


Bitmap Management

- Use the network
 - Bitmap/Photometric Paths
 - Asset Tracking
 - Resource Collector
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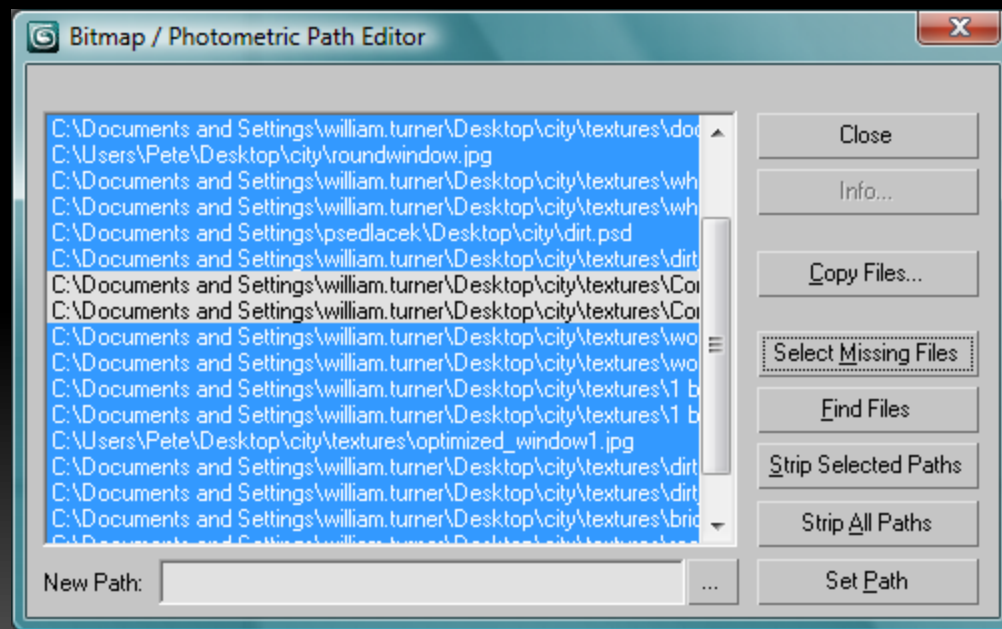
Asset Management for the Render Farm

- Every bitmap in your scene must be in YOUR texture folder on the server
- Exception: Arch Design materials with an associated bitmap will be in Max's default folder
- Server textures are NOT an exception, copy them to your folder!!!!!!!!!!!!!!



Bitmap/Photometric Paths

- Best tool for viewing or changing all bitmaps in one spot





Render Management



Network Render Setup

- Make sure all of your files are in the right spot
- Pick what frames you want
- Pick place to save
- Render Setup > Net Render
- Job Name: Blue_LastName_FirstName
- Subnet Mask: Automatic Search off
- Replace numbers with DADRo1
- Hit Connect
- Uncheck Task Blocking and Include Maps




Sending Scenes to the Network Render / Render Farm

- There is a tutorial on the 3AN help web site.
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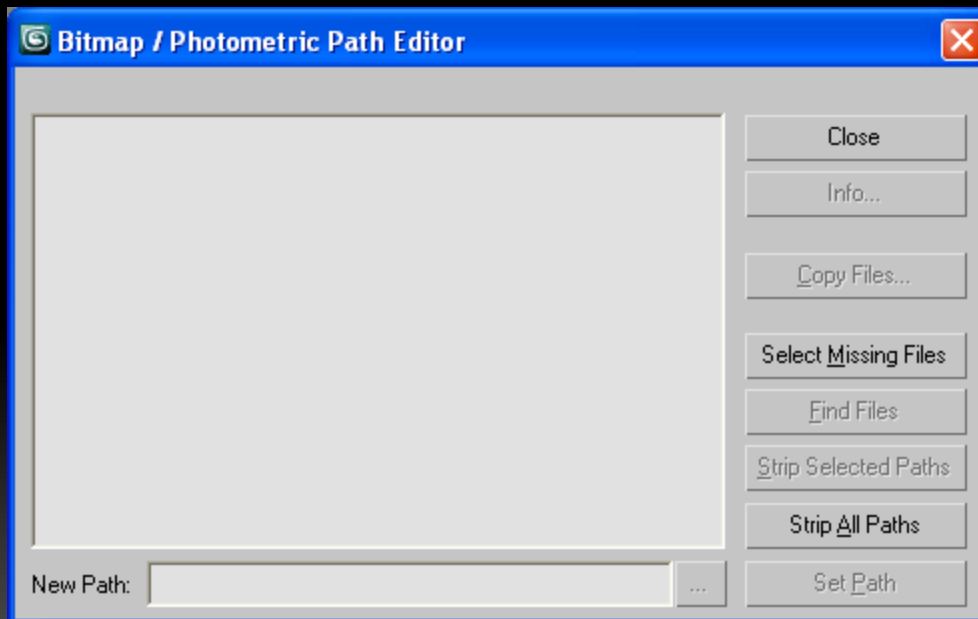


Render Passes

- Separating different passes so that different effects can be added to them in AfterEffects or Photoshop
- 

Placing those Materials there

- Should say \\studentvfiler\3an\...
- Should NOT say X:\\studentvfiler\3an...





What we discussed

- Project management
 - Software management
 - Scene Management
 - Material management using Multi/Sub Object Materials
 - Rendering
- 