

## Arnold in Houdini General Tips & Tricks - Sanika Godbole

Setting Colorspace to Properly Render in both Viewport & Render

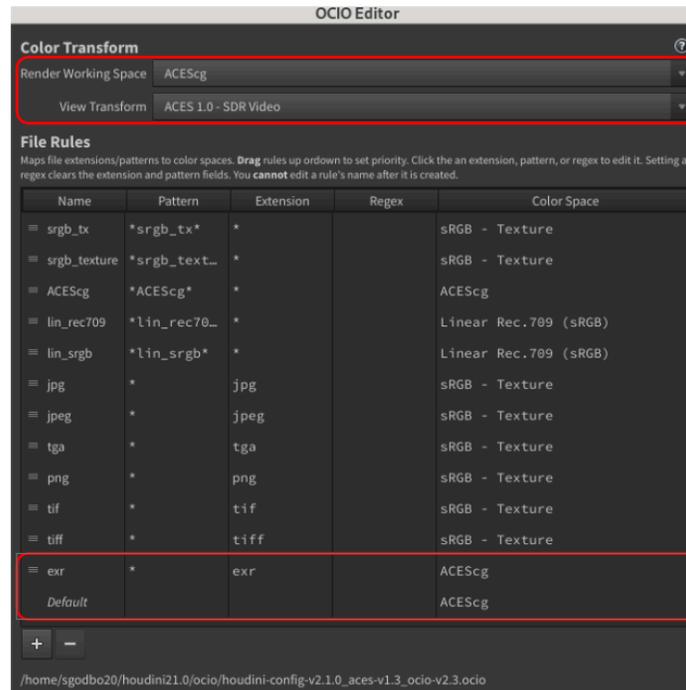
Custom Shadow Assignments

Subdivision on Render

Light Filters - Light Decay, Gobos, Atmosphere

### COLORSPACE

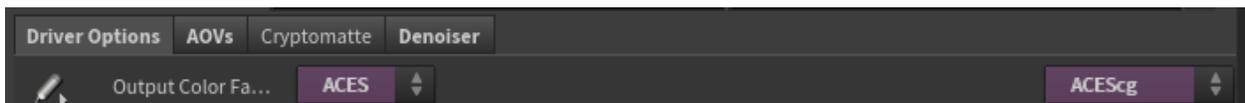
1. In Houdini, top panel, Edit → OCIO Settings:
  - a. Change Render Working Space to ACEScsg
  - b. Change View Transform to ACES 1.0 - SDR Video
  - c. Make sure the file type you are outputting your renders are set to ACEScsg



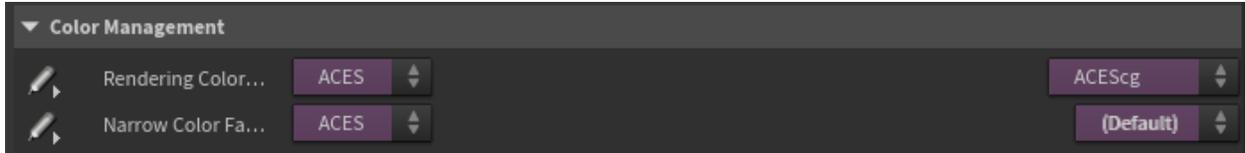
2. In Solaris, click where you select what renderer to use and check the Correction Toolbar.
  - a. Set to sRGB - Display & ACES 1.0 - SDR Video
  - b. Make sure Enable OpenColorIO is selected



3. In Arnold Render Settings, Driver Options:
  - a. Set Output Color Family to ACES and ACEScsg



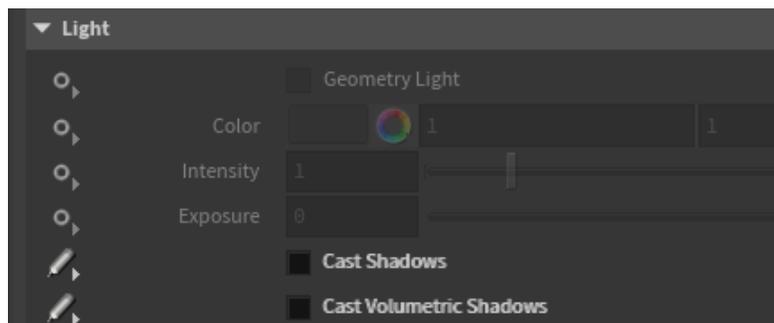
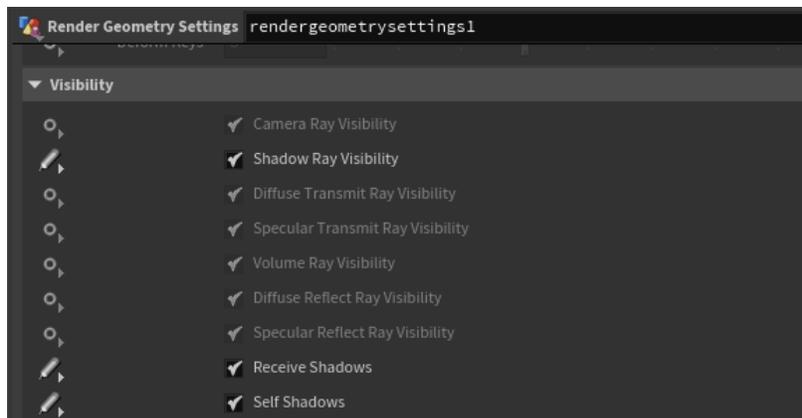
- b. Scroll all the way down to Device → Color Management, set Rendering Color to ACES and ACEScsg



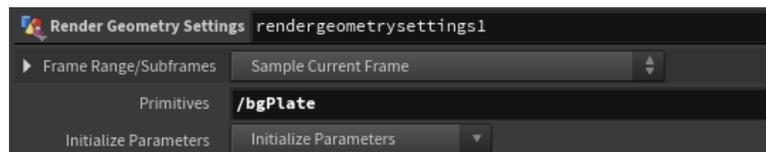
4. In Arnold Render Settings, AOVs:
  - a. Set all AOVs in Renders Vars → Standard to Gaussian
5. To render locally, put down a USD Render Rop:
  - a. In Arnold tab, check Direct USD Render
  - b. Set Render Delegate to Arnold
6. IN NUKE:
  - a. Click S to open Project Settings
  - b. Make sure Color Management is set to OCIO
  - c. OCIO Config = aces\_1.2

## SHADOWS

1. For whatever reason you want to control whether a geometry casts shadows, has self shadows, or receives shadows (reference image, NPR style, etc)
  - a. In a Render Geometry Settings node, scroll down to Visibility:



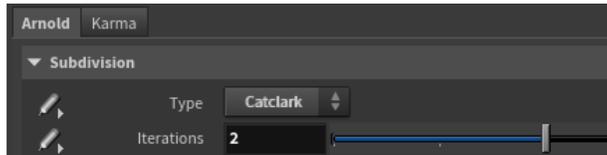
- b. Make sure Primitives is set to whatever geometry you want this node to affect



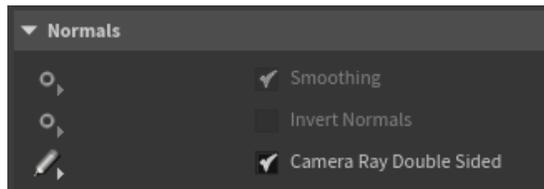
- c. There is a lot in this node, dig through it, you will probably find what you need!

## SUBDIVISION

1. In Render Geometry Settings, in the Arnold tab:
  - a. Set Subdivision Type to Catclark and Iterations to how many types you want to subdivide

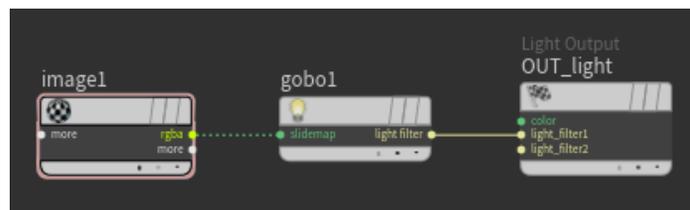


2. For Cards, to turn on double sided geo, scroll down to Normals:

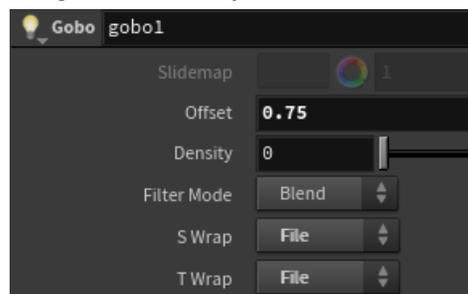


## LIGHT FILTERS

1. In a Material Library Node, put down an Arnold Material Builder and delete the Material Output node
  - a. Light Decay, Atmosphere, Barndoors
    - i. Put down a Light Output node and a Light Decay node and connect them
    - ii. Copy the Light Decay node
  - b. BACK TO STAGE
    - i. In the Light that you want it to AFFECT, go to Arnold Tab, scroll down to Shaders (IN SHADERS, NOT LIGHT FILTERS, we all see why that would be confusing...)
    - ii. Paste the Light Decay node
  - c. For Gobos:



- i. Image set to Utility and Raw



- ii.