AOVs and Displays in Katana

- EXR MetadataSetting Custom Display Data

Follow these sets to set up AOVs in RenderMan for Katana:

• Create a PrmanOuputChannelDefine node for each AOV channel. This sets up the channel name for RiDisplayChannel.

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ect. For example, Indirect Diffuse would be	
ode for each AOV file. This sets up the output file name and ch	nnel name be used for
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rOutputDefine to see the added channel in the RenderOutputD	fine's channel drop dow
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.options.lpe.diffuse2', StringAttribute("Diffuse3', StringAttribute("Subsu	e,HairDiffuse, rface,
.options.lpe.diffuse2', StringAttribute("Diffu	se,HairDiffuse,
options.lpe.diffuse3', StringAttribute("Subsu	face,
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.options.lpe.specular4', StringAttribute("Clea	coat"))
<pre>s.options.lpe.specular6', StringAttribute("Fuzz</pre>	,
.options.lpe.specular7', StringAttribute("Sing	eScatter,
<pre>options.lpe.specular8', StringAttribute("Glas .options.lpe.user2', StringAttribute("Albedo,I</pre>	s,specular")) iffuseAlbedo,
.options.ipe.user3', StringAttribute("Position	'))

• To make this AOV render interactively you can add it to the interactiveOutputs selection in the RenderSettings node.

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• Advanced: You can also add a statistics selection to the node. Typically used for diagnosis and tuning:



- "variance" estimates the statistical variance of values contributing to the pixel in associated source channel.
- ° "mse" like variance, but diminishes towards zero as the number of samples increases. Though somewhat noisy itself, this can provide an estimate for the amount of mean-squared-error versus a hypothetical ground-truth image.
- "even" an image produced using only one half of the camera samples
 "odd" an image produced using just the other half of the camera samples

EXR Metadata

You can add metadata to the EXR file to facilitate pipeline functions. The Foundry documents this here.

Essentially, on the Render Settings node:

SetAttr("renderSettings.ouputs.primary.rendererSettings.exrheaders.test_string",["Your string"])

Setting Custom Display Data

You can pass a custom Katana attribute into the display driver using an OpScript at the /root. Below is a simple example setting "myParam" onto a display called "myDisplay"

Interface.SetAttr("renderSettings.outputs.myDisplay.rendererSettings.displayOptions.myParam", StringAttribute ("paramValue"))