

Environment Variables in Katana

Installation Path Variables

You will need to set a few environment variables to get RfK up and running with PRMan and Katana. RfK looks for RenderMan on the \$RMANTREE environment variable. As long as \$RMANTREE is set correctly, RfK will find the appropriate PRMan libraries and commands. Katana finds RfK in the same way it would find any other plugin - through the \$KATANA_RESOURCES environment variable. The paths for these environment variables will depend on whether you install RfK/PRMan in the default locations or not.

| Environment Variable | Default Installation Paths |
|-------------------------|--|
| RMANTREE | /opt/pixar/RenderManProServer-22.0 |
| KATANA_RESOURCES | /opt/pixar/RenderManForKatana-22.0-katana2.6/plugins/Resources/PRMan22 |

Default shader search paths for RenderMan match the default paths in the rendermn.ini file. If additional search paths are needed then you will need to set up the RMAN_SHADERPATH and/or RMAN_RIXPLUGINPATH environment variables to include your specific paths.

Output Path Variable

You can direct the render log output to another location if necessary using the following environment variable: RfK_REDIRECT_OUTPUT

Shader Discovery

During startup RenderMan for Katana will automatically load all "discoverable" shaders. Shaders are discoverable if they are found in a search path and (for non-OSL shaders) have an associated Args file. The standard shader search path mechanism is used when searching for shaders with search paths specified either with PrmanGlobalStatements settings or environment variables:

| ShaderType | Environment Variable | PrmanGlobalStatements attribute | Default Path |
|---------------------|----------------------|---------------------------------|------------------------|
| OSL | RMAN_SHADERPATH | options.searchpath.shader | \$RMANTREE/lib/shaders |
| Plugin (C++) | RMAN_RIXPLUGINPATH | options.searchpath.rixplugin | \$RMANTREE/lib/plugins |

If both the environment variable and the attribute are set the resulting search path will be the union of the two strings.

Recursion

RfK will automatically recurse down a shader path to find shaders in subdirectories. By default it will recurse down 3 subdirectories. This is configurable using the shaderPathRecursionLimit setting in the RfK config file, config.xml.

Args Files

The args files need to be in an Args directory. See the setup in RMANTREE/lib/plugins for an example. Something like this:

RMAN_RIXPLUGINPATH directory:

| |
|--|
| \$RMAN_RIXPLUGINPATH/pattern_remap.so |
| \$RMAN_RIXPLUGINPATH/Args/pattern_remap.args |

You can find out more about Args files in the developer docs [download](#).