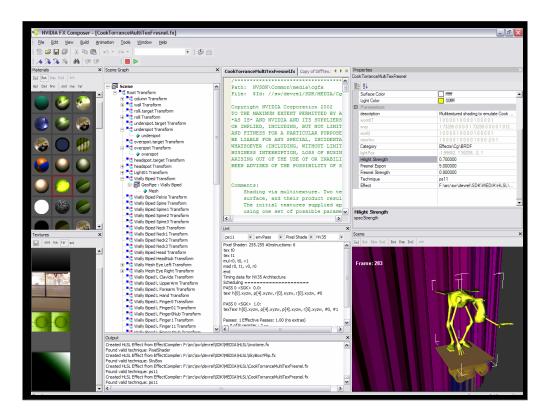


Be sure to check out the complete User Guide and helpful tutorials!

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The user interface features highly configurable drag-n-dock panels:

Materials: real-time 3D preview of .FX files

Textures: source and intermediate textures for selected material

**Text Edit**: syntax highlighting & intellisense for auto-completion

**Properties**: HLSL variables exposed via standard semantics and annotations Convenient editing with sliders, color-picker and matrix editor tear-offs

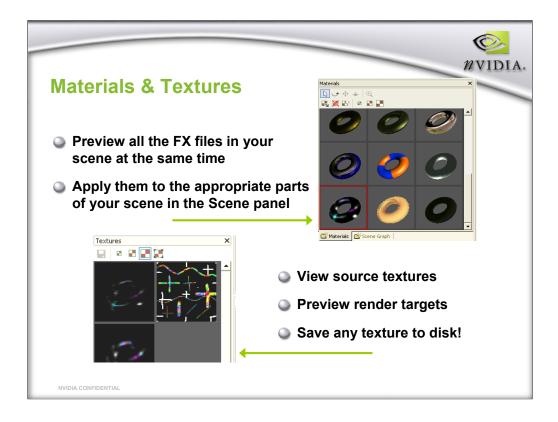
Scene Graph: navigate, select & edit properties

**Shader Perf**: DirectX assembly, GPU cycle count, efficiency/utilization rating, register usage, FPS, etc.

Scene: preview your own scene with lighting and animation

Tasks: lists errors and support jump-to-error debugging of .FX files

Log: displays compiler output and tells you what's happening in the background



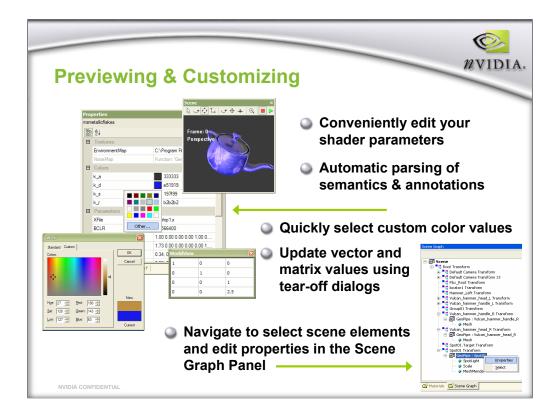
# Visual Debugging

Real-time preview of your materials and textures can quickly reveal problems in your shader code

## Performance improvement technique

The ability to save a texture target to disk makes it easy to "bake" expensive math into a texture and then modify your shader to do a less expensive texture lookup.

Editing and Debu	ugging	NVIDIA.
Viewer_Diffuse.fx Glow.fx Rainbow.fx	$4 \triangleright \times$	
fillmo	ng Name - ~aeran de= point	Edit multiple .FX files
float4X4 worldIT : WorldI float4X4 wup : WorldVievP; float4X4 world : World; float4X4 vievInvTrans : V	<ul> <li>solid</li> <li>Direction</li> <li>wireframe</li> </ul>	Intellisense (auto-complete)
<pre>float4x4 view : View; String string Category = "Effects\\Crazy";</pre>	hg-orivanc' = "Li(	Syntax highlighting
<pre>texture colors &lt;  string Name = "colors2.dds";  string type = "2D";</pre>		
>;		-
texture swirl		<pre>ghting = true; calViewer = <localviewerenable>;</localviewerenable></pre>
		llmore=
	Tasks	X
Jump-to-error helps yo find & fix problems qui	ickly	: (538): error X3000: syntax error: unexpected token "="
NVIDIA CONFIDENTIAL	C Log Tasks	

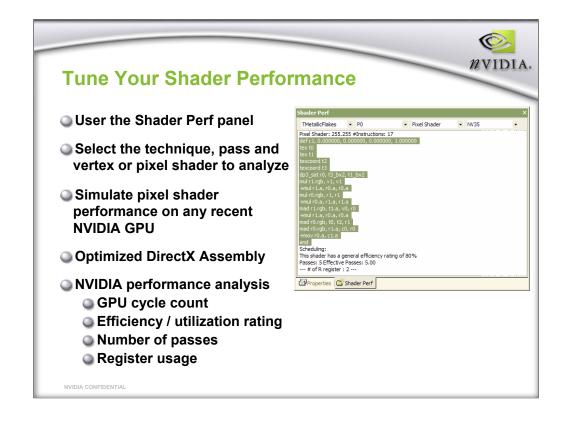


### Load a couple example .FX files & sample projects:

- glow.fx
- uber\_mats.fxcomposer
- waves.fxcomposer
- fire.fxcomposer
- alien\_gooch.fxcomposer

### Some known issues & sticky bits:

- Use mouse pointer to dock panels
- · Careful which properties you're editing!

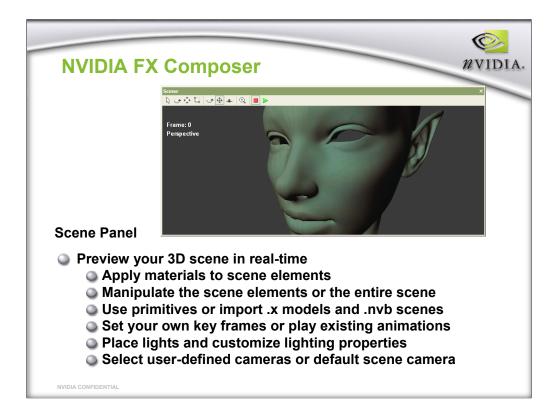


Technique, pass and vertex/pixel options updated automatically from your HLSL code

Performance analysis features supported on all GeForceFX and QuadroFX GPU's.

Simulate performance on the entire family without changing your graphics board!

GPU selection for pixel shader performance analysis only



### Placing & connecting additional lights in the scene

- Right-click in Scene Panel and select Create->Point Light
- Click on "lightDir" (grayed out) in the Properties Panel
- · Select the newly created light
- · Note the updated display of the parameter in the dialog
  - · Choose 'rotate object', and spin the light.

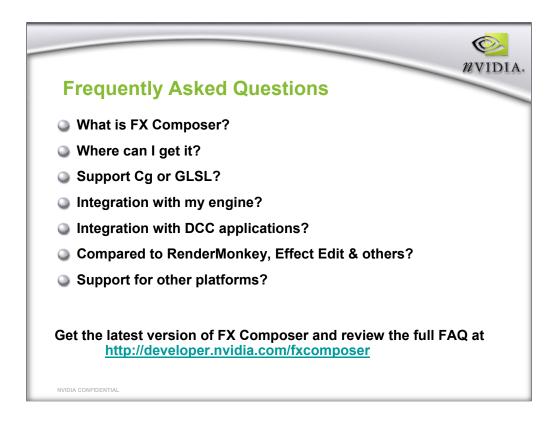
Note: It's a direction-only entry in the material, so the position of the directional light is unimportant, just it's orientation.

### Support for multiple, user-defined cameras and camera path animation

### Animation

Best results = import your animation from a DCC application In FX Composer, just set the frame (F9/F10) and position your scene elements

Note: No way to delete key frames yet ...



#### What is FX Composer?

FX Composer is an integrated development environment that provides developers with the features they need to create high performance HLSL shaders.

FX Composer empowers developers to create high performance shaders in an integrated development environment with real-time preview & optimization features available only from NVIDIA.

#### Support Cg or GLSL?

FX Composer was created to support the large number of developers using HLSL. We currently have no plans to add support for Cg or GLSL, but would like to hear from developers for whom this would be valuable.

#### Integration with my engine?

Developers can use FX Composer to create .FX files that can be used directly in their applications. NVIDIA is preparing an FX Composer SDK that will allow developers to import their own geometry and much more.

#### Integration with DCC applications?

NVIDIA works closely with Microsoft to define DirectX features, including standard semantics and annotations that will enable you to share shaders between FX Composer and DCC applications. We will also work with DCC application vendors to ensure FX Composer works well with their products.

#### Compared to RenderMonkey, Effect Edit & others?

With FX Composer you work directly with .FX files and have access to detailed performance analysis & optimization features that help you create compelling, high performance content for real-time applications.

#### Support for other platforms?

FX Composer was written from the ground up to be a Windows application; however the performance analysis module of FX Composer may be available on other platforms in the future. We currently have no plans to create MacOS X or Linux ports, but would like to hear from developers for whom this would be valuable.