Inserting and Viewing 3D Content in Adobe Acrobat

Welcome to the world of 3D with Right Hemisphere!

The aim of this tutorial is to learn how to use Deep Exploration to:

- Create a .u3d file using Deep Exploration 4.
- Insert and view the 3D content in a .pdf file using Adobe Acrobat Professional 7.0.

Assumptions

Certain assumptions have been made regarding this tutorial:

- You should be familiar with 3D concepts.
- You should be familiar in the use of Deep Exploration.
- You should be familiar in the use of Adobe Acrobat.
- Note that the display of the model on your computer during this tutorial may be different depending on the graphics card installed on your computer, the screen geometry, and the colors and placement of objects that you choose.

Features Covered

- Saving a 3D model in the .u3d format.
- Inserting and viewing a U3D file in a PDF document.

Requirements

The following software and files are required for this tutorial are:

- Deep Exploration 3.5.x or greater. Note that we use Deep Exploration version 4.0 for this tutorial.
- Adobe Acrobat Professional 7.0.
- A 3D file accessible to your computer.

Completion Time

This tutorial should take approximately ½ an hour to complete.

Before You Begin

- Adobe Acrobat Professional 7.0 is installed on your computer.
- Note that the display of the model on your computer during this tutorial may be different depending on the graphics card installed on your computer, the screen geometry, and the colors and placement of objects that you choose.

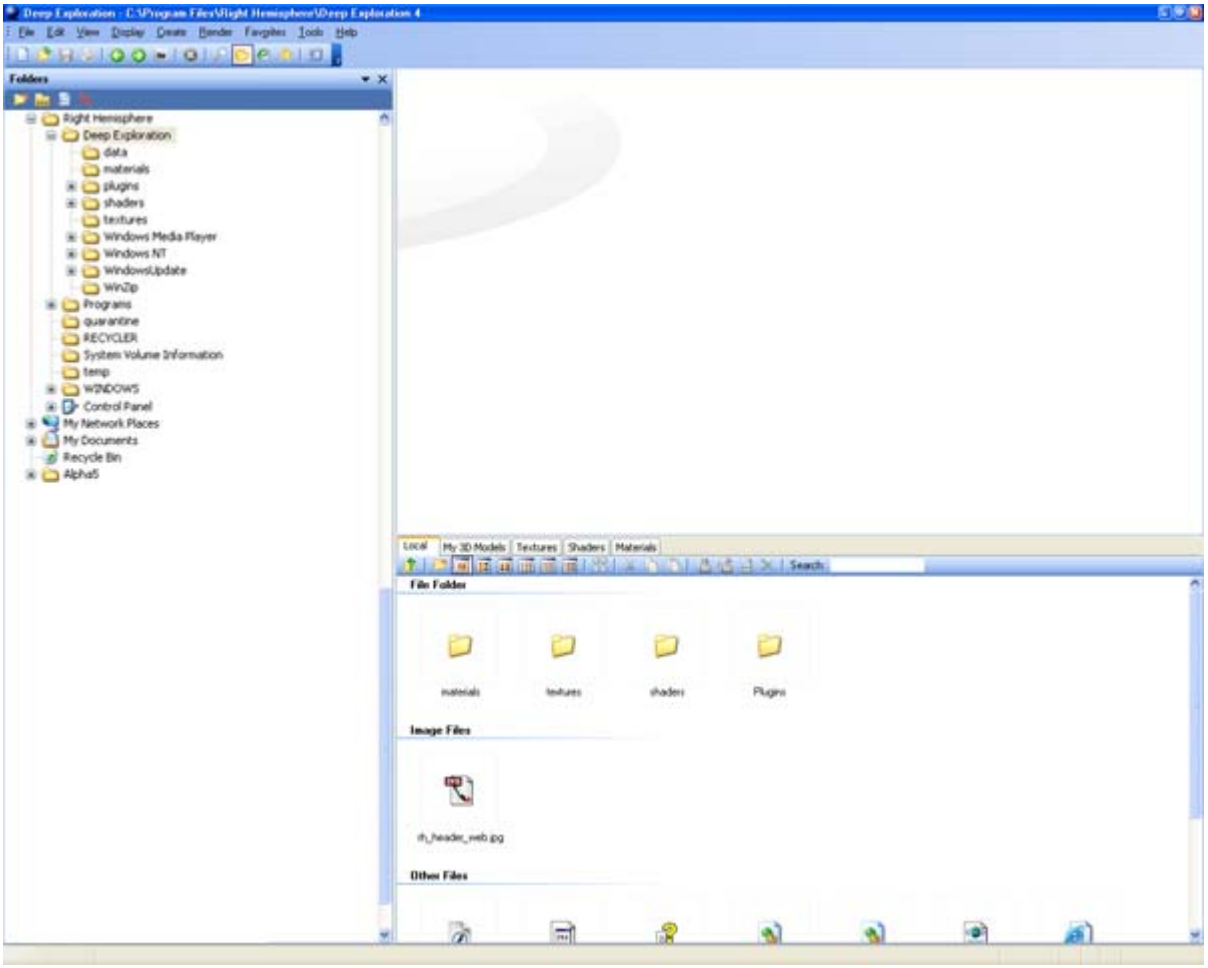
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Creating a U3D File

This procedure opens a 3D file and saves it into the .u3d file format using Deep Exploration.

Procedure: Creating a U3D File

1 Open Deep Exploration.



2 Do one of the following:

- Choose **File > Open** command on the menu bar.
- Click **Open**  on the Standard toolbar.

3 Navigate to, and select the file you want.

4 Click **Open**.

We now save the file into the .u3d format.

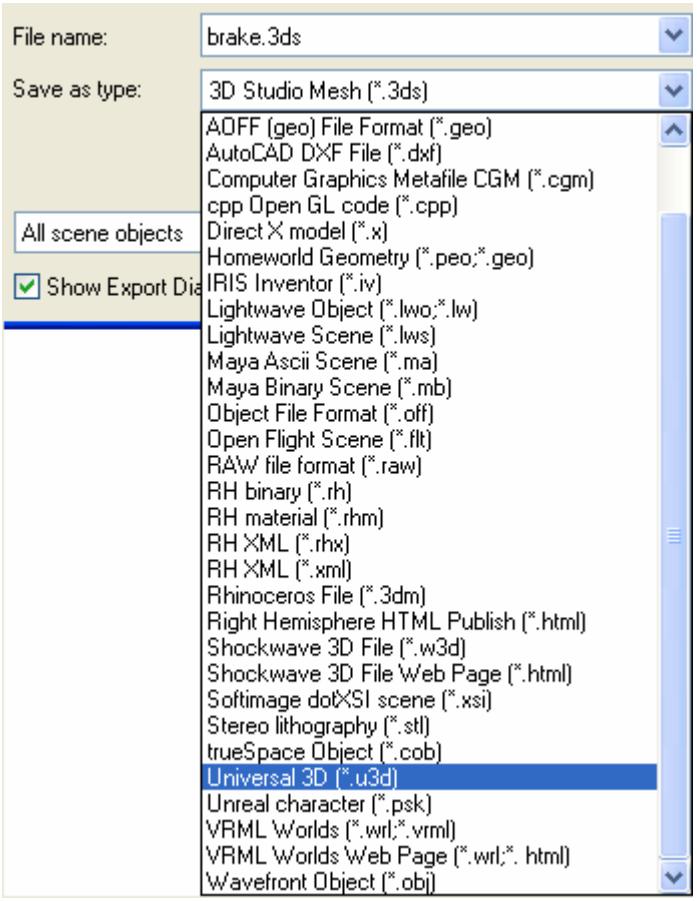
5 Choose **File > Save As** on the menu bar.

6 Navigate to, and select the directory where you want to save the file.

7 Enter a name for the file.

8 Select 'Universal 3D (.u3d)' format in the 'Save as type' field.

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9 Click **Save**.

You have just saved a file to the .u3d format. We now continue by inserting this file into a PDF document.

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Insert and View a U3D File in a PDF Document

This procedure inserts the .u3d file into an Acrobat document using Adobe Acrobat Professional 7.0.

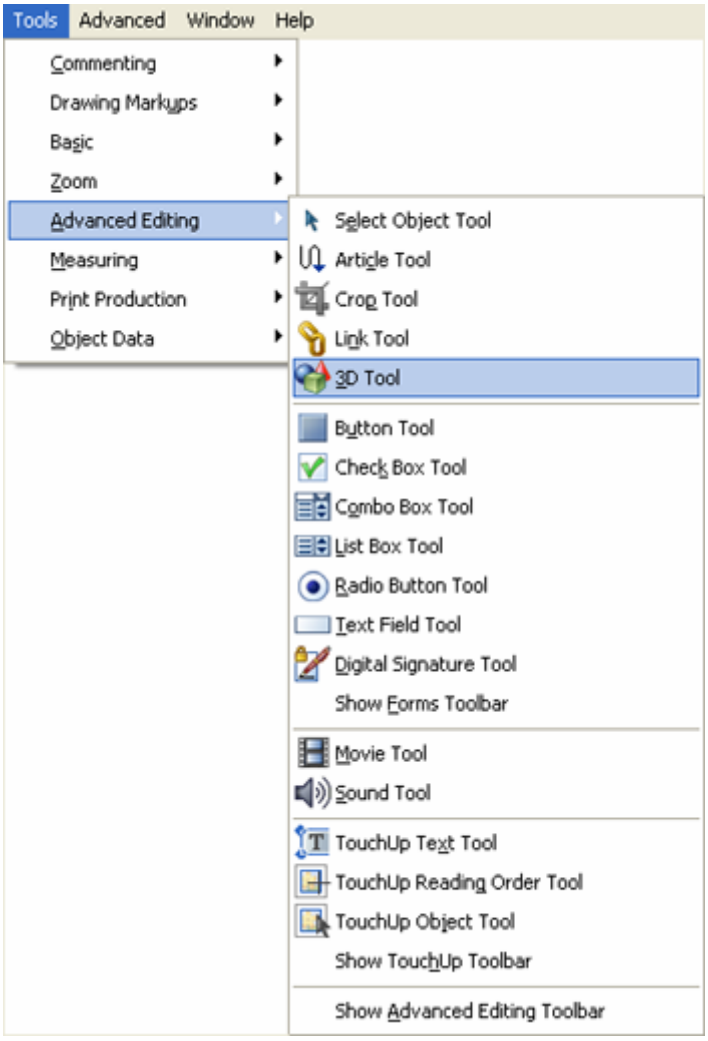
Procedure: Inserting a U3D File

1 Open Adobe Acrobat Professional 7.0.

2 Choose **File > Open** command on the menu bar.

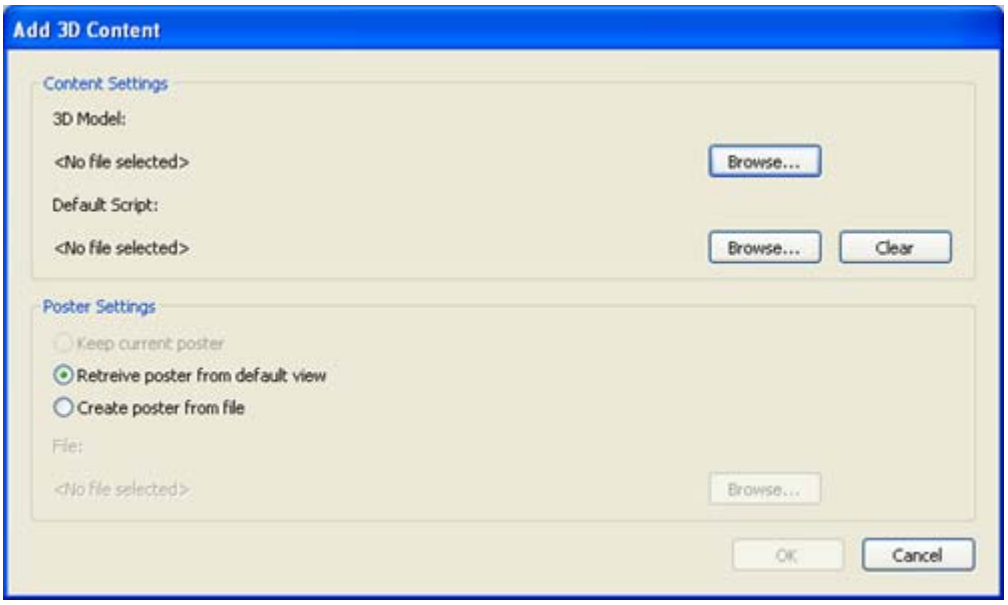
3 Navigate to the file you want and click **Open**.

4 Choose **Tools > Advanced Editing > 3D Tool**.



5 Drag an area in the document where you want the 3D scene to appear. The Add 3D Content dialog is displayed.

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6 Click **Browse**, navigate to and select the .u3d file.

Note: You do not need to select a default script to insert a 3D file.

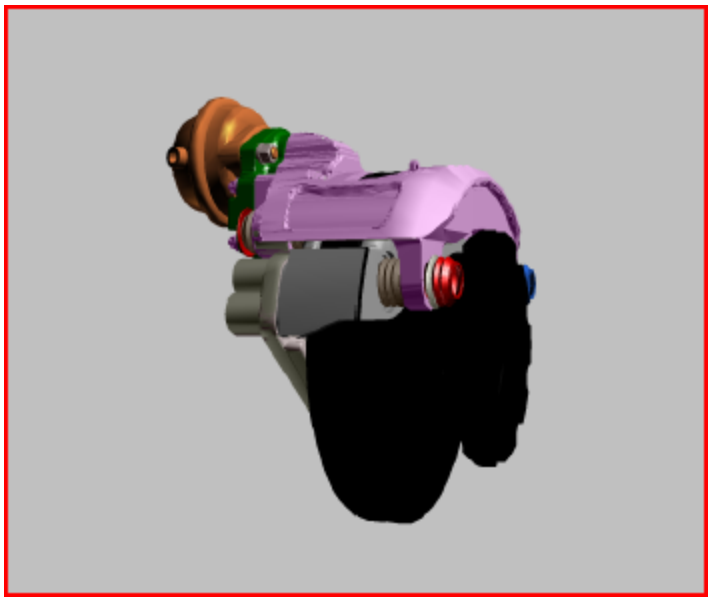
7 Do one of the following:

- Click **OK** to accept the default camera view in the 3D file for the poster image.
- Click **Browse**, navigate to and select the file to use as the poster image, and then click **OK**.

Congratulations! You have just inserted the U3D file into a PDF document.

Procedure: Viewing 3D Content in a PDF Document

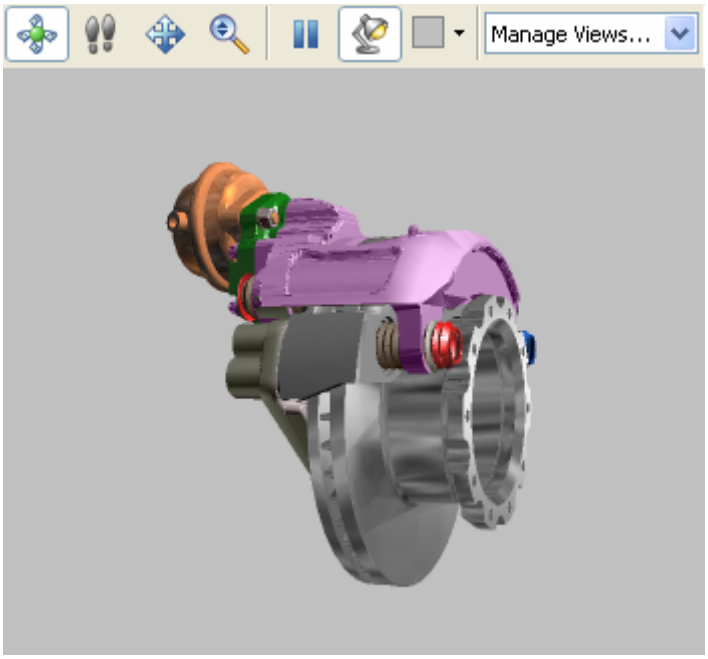
1 Notice that a red line surrounds the scene indicating that it is in 'edit' mode. If you move you cursor over the scene, handles appear that can be used to resize the scene.



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2 Click the Hand Tool  button on the Basic toolbar.

3 Click the 3D scene. The 3D toolbar is displayed.



You can now interact with the content using the 3D tools including rotation, navigation, zooming, and panning, playing any animation, enabling additional lighting, changing the background color, and creating new views.

For further information regarding 3D interactivity within PDF documents, please see the Adobe Acrobat Professional Help delivered with Adobe Acrobat 7.0.

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