



UT Model Importing from Milkshape 3d

The latest version of Milkshape 3D can be found here:

<http://www.swissquake.ch/chumbalum-soft/>

Purpose:

This tutorial is specific to Milkshape 3d and is to instruct those who wish to use Milkshape to make models and then import them into Unreal Tournament. This tutorial describes only one way to do it, but a way in which I am familiar with and have found to work well. It will not however teach on the methods of making or animating of a model, as that is another tutorial altogether.

Glossary:

Mesh - A mesh simply a 3D model.(usually without a texture)

Texture - A 2D image. This can refer to textures external to UnrealEd, such as .pcx or .bmp files, or to textures imported into one of your packages.

* The height and width of your textures need to be "powers of 2." In other words, both the height and the width need to be one of these numbers: 1, 2, 4, 8, 16, 32, 64, 128, or 256. You can go higher (512, 1024, etc), but that doesn't seem to be typical when using the Unreal engine (yet). The height and width do not need to be the same, so a 64 x 32 image is fine, even a 256 x 2 is allowed if you need it.

Vertex - A single point in 3D space. These are comprised of 3 informational factors: the X, Y, and Z co-ordinates.

Polygon - In the Unreal engine, this describes three vertices (points) that are "connected" in a particular order to make triangles. These triangles form the solid part of your model (the part that you actually see). A triangle is the simplest type of polygon. In Milkshape these are considered as "faces".

Surface - A group of polygons in your mesh that can be referenced as one and can have a set of UV texture mapping coordinates associated with them. In MilkShape, each Group that you create will end up being a surface.

UV Coordinates (a.k.a. Texture Mapping Coordinates) - A set of 2D coordinates that refer to a row and column position on a texture image. In the Unreal engine, every polygon is a triangle made up of three 3D points. Every polygon in a surface can also be associated with three 2D points that refer to a triangle-shaped region of a texture. These 2D points are called UV coordinates. The "U" refers to the column position and the "V" refers to the row position. It's called UV instead of XY so that it's not confused with X, Y, and Z when talking about 3D coordinates.

1. Create a kickass model

Once you have successfully created your mesh, including texturing and animation, you're ready to go on. If you want to create a generic mesh that can be used multiple times with different textures (skins), you'll still need to assign texture coordinates (UV coordinates) to your mesh using reference textures.

2. Export your mesh to Unreal format

In order to get your model into unreal you must first set up for it. This entails creating a package which we will talk about later.

First off, you need to set up your folders so unreal will know where to look when we do make our package. This is done as so:

Under your UnrealTournament folder, create a new folder with the name of your package(or what it will be). Then, under your package folder place new folders with the following names: Classes, Models, Textures, and optionally Sounds(if you want to create and import .wav files for new sounds).

Your next step will be to export your model from Milkshape in the UT format and save them in your package's Models folder.

Upon export from milkshape you'll end up with a pair of files ending with .3d. One will end with _a.3d and the other with _d.3d. You will also get a pre-generated .uc file which is pretty generic. We'll get into that later, but you'll probably end up needing to edit at least one .uc file.

You'll also want to convert all of your textures to .pcx or .bmp format if necessary. Note that only 256-color (8-bit) textures are supported by the Unreal engine. This isn't as bad as it may sound, since each image can have its own palette.

mesh (that could have been imported seperately in another .uc file).

```
class weedplant extends Decoration;

defaultproperties
{
bCanBeBase=True
ItemName="Cannabis Sativa"
Mesh=LodMesh'MyPackage.weedplant'
CollisionRadius=18.790000
CollisionHeight=6.750000
Mass=10.000000
Buoyancy=15.000000
}
```

6. Import it into the game!

When you have your .uc files, your .3d model files, and your .pcx texture files in place, you're ready to actually import your mesh into your package, so that it's ready to use in Unreal. If you've ever compiled a package with "ucc make" then you already know how to do this step. Delete your .u package file(if it already exists) from the \UnrealTournament\System folder and in a command prompt (MS-DOS prompt) in the \UnrealTournament\System directory type in "ucc make".(or under your start menu, choose "run" and type "C:\UnrealTournament\System\ucc make"). If you've done everything right, and you recieve no errors or warnings, your mesh is ready to go. Fire up UnrealEd and enjoy.

Oh yeah, you may need to delete your .u package file and adjust the alignment in your .uc file then re-compile quite a few times to get it right so don't be discouraged, it will come to you.

(To align your weapon's first person view, just add the line PlayerViewOffset in default properties and give a value for each of the X, Y, and Z co-ordinates. Z being up and down in unreal. And remember, playerviewoffset manipulates YOUR PERSPECTIVE of the weapon, NOT THE ACTUAL WEAPON!)



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