Goblin XNA Installation Guide

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Note: If you have any difficulty with these installation steps, please contact the developer, Ohan Oda (ohan@cs.columbia.edu)

Step 1: Download and install either (a) Microsoft Visual Studio 2008 Professional Edition [preferred] or (b) Microsoft Visual C# 2008 Express Edition. Do either step a or step b.

- (a) Download Microsoft Visual Studio 2008 Professional Edition. Once you have installed it, *please be sure to get Service Pack 1 from the Microsoft webpage*. OR
- (b) Alternatively, if you do not have access to Visual Studio 2008 Professional Edition, you can use Microsoft Visual C# 2008 Express Edition, which is free. Download Microsoft Visual Studio 2008 C# Express Edition for free from http://www.microsoft.com/eXPress/download/#webInstall and install it. You will have to register the product in order to use it for more than 30 days. Registration is free, but you will need a Microsoft .NET Passport account (also free) to register the product.

Step 2: Download and Install XNA Game Studio 3.0.

Download XNA Game Studio 3.0 from http://www.microsoft.com/downloads/details.aspx?familyid=7d70d6ed-1edd-4852-9883-9a33c0ad8fee&displaylang=en and install it.

Step 3: Download all necessary packages needed to compile Goblin XNA. (These are not included with Goblin XNA because the package owners required that they be downloaded from their sites.)

- Download the Lidgren-network library from http://code.google.com/p/lidgren-network/. Unzip it, then compile the Lidgren.Network project and copy the Lidgren.Network.dll from the lidgren.Network/bin/Release directory to the GoblinXNA/bin directory. (Make sure to build the project in the "Release" configuration instead of the default "Debug" configuration.)
- Download the DirectShow.NET package from http://www.codeproject.com/cs/media/DirXVidStrm.asp?df=100&forumid=73014&exp=0&select=1780522. (You will need to login to the codeproject website to get this package. The registration is free if you do not have an account with codeproject yet.) Unzip it and open the CaptureTest.sln with Visual Studio 2008.

Build the projects with "Release" mode (instead of the default "Debug" mode). The DirectShow.NET project has a reference issue, which you should fix by following these steps:

- 1. Right-click on the "DShowNET" project in the solution explorer and select "Build". Make sure the "Build succeeded" message appears on the status bar
- 2. Expand the "Reference" section under the "DirectX.Capture" project. You will see "DShowNET" with an exclamation mark, which indicates the reference can not be found.
- 3. Right-click on this "DShowNET" reference and select "Remove" to remove it.
- 4. Right-click on the "Reference" section and select "Add reference...". You will see a pop-up window. The default selected tab should be the "Browse" tab, but if it is not selected, select the "Browse" tab in the pop-up window.
- 5. Locate the DShowNET.dll file under the *DShowNET/bin/Release* directory.
- 6. Select the DShowNET.dll and press the "OK" button. Now you should see the "DShowNET" reference added back under the "Reference" section.
- 7. Finally, right-click on the "DirectX.Capture" project and select "Build".

 Make sure that the "Build succeeded" message appears on the status bar.

Now copy the DirectX.Capture.dll and DShowNET.dll from the DirectX.Capture/bin/Release directory to the *GoblinXNA/bin* directory.

- Download TaoFramework (version 2.1.0) from http://www.taoframework.com/Home . Unzip it and copy Tao.OpenGL.dll and Tao.FreeGlut.dll from /bin, and freeglut.dll from /lib to the GoblinXNA/bin directory.
- Download the ARTag marker-based tracking library from http://www.artag.net/sdk download/artag sdk download.php. (You need to purchase a copy of Mark Fiala's book to get the library.) Unzip it and, then unzip the CSharp_ARTagWrapper.zip in /lib. Copy the ARTagWrapper.dll to the GoblinXNA/bin/ directory.

Now, you are ready to compile the Goblin XNA library. Open the Goblin XNA.sln file under *src* and build the solution. If you have all of the necessary files, it should build successfully, and the Goblin XNA.dll will be generated under the *Goblin XNA/bin* directory.