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Subject: Re: Geom cleanup - what do you use?  
Posted by [Oblivion](#) on Mon, 17 Jun 2024 08:23:24 GMT  
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Hi

As I wrote in my previous message, there is a light-weight XForm3D package I had written some time ago. You can find it attached.

- 1) It is a single header file.
- 2) It contains Point3D, Point4D, Matrix3D and Matrix4D classes (API is very similar to XForm2D).
- 3) These classes are aliases for templates that accept floating point types. So it allows for both single and double precision points (classes are templated)
- 4) It has an IsEqual() function for fuzzy comparing of matrices.

If you find it useful enough, feel free to review and/or adopt it.

P.s. There is also a simple demo app, rendering the famous 3D teapot model, using Upp::Painter with this XForm3D. I will also upload that (but first I need to clean-up its code).

Best regards,  
Oblivion

#### File Attachments

- 1) [Xform3D.h](#), downloaded 146 times
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