
Subject: Re: Dockable toolbars

Posted by [mdelfede](#) on Tue, 27 Jul 2010 23:16:42 GMT

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mrjt wrote on Tue, 27 July 2010 12:06I might be up for it, an interesting project is always good. I've never even used a CAD program but I know GL very well and have a strong interest in GUI design.

Maybe I could look at those dockable toolbars, I've attempted it at least once before after all

Hi mrjt

The thing can be interesting.... I was thinking starting with a good 2d drafting part, it's the most needed one.

This would be opencascade based, so that the extension to 3d world should be trivial.

What I want to do first is a "small" base to well define the interface, I'd like to have it most autocad-like as possible, as many people is used to it.

There are some opencascade-based projects out there, but all of them lacks a comfortable 2d drafting part, which is the base for a good cad application. Most of them start directly from 3d, and some has some small 2d extensions, but mostly unusable.

So, to draw some baseline....

1) The cad should have a command line. Often is quite faster to give short commands with it, and it's absolutely necessary to enter points coordinates in quick way.

2) Customizable toolbars, driven by a (xml, maybe) CUI file.

The toolbars buttons should send strings to the command line control (a lineedit derived, I guess), so you could mix menu and command-line driven commands. This would also ease a central handling of menus and toolbars.

3) TabBarCtrl based interface for multiple documents and multiple view of a single document. This one is easy, I've got already some working code there based on opencascade viewer.

4) I'd like (later on) to embed a scripting language, I was thinking about squirrel-lang which is c-like and quite well coded.

5) a *VERY* well defined api and an even better commented code.

The only thing I really miss on UPP is the poorly commented source code....

BTW, OpenCascade has already all the stuff needed to implement e doc/view engine, which interfaces directly with our GLCtrl very easy.

Ciao

Max
