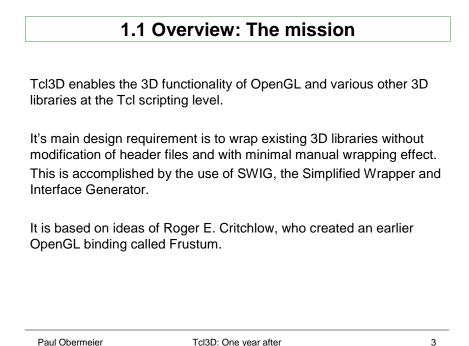


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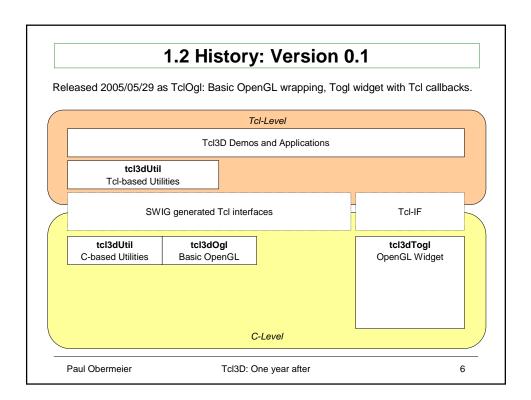
Tcl3D: One year after

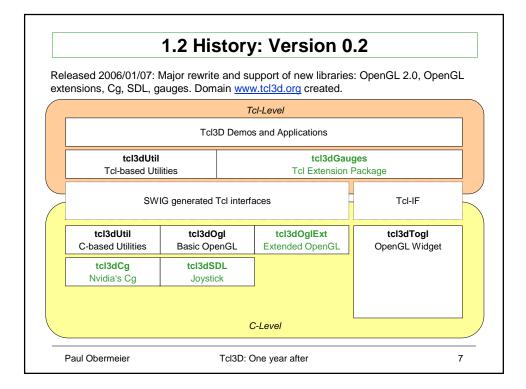
1.1 Overview: Design requirements		
		-
#	Requirement	Comment
1	Light-weight	Small code size, Tcl package.
2	License	Source code availability under BSD license.
3	High automation	No need to write lots of wrapper/glue code. Easy upgrade to newer versions of the 3D library.
4	Portable	Availability on many platforms.
5	C and Tcl IF	Ability to program the library in both C and Tcl. Easy interchange between Tcl and C code.
6	Up to date	Buildable with actual tools and operating systems.

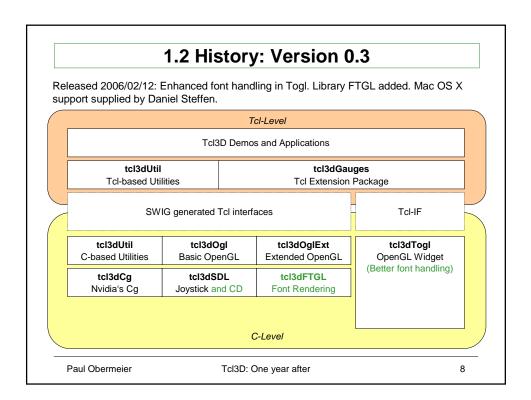
Paul Obermeier

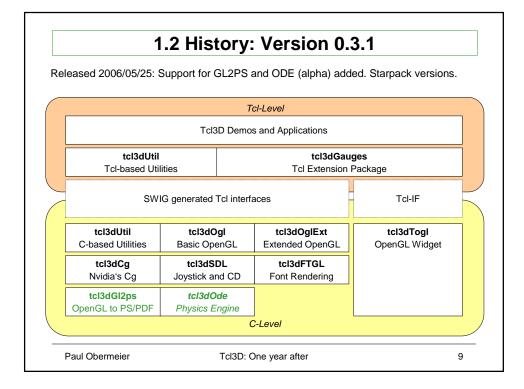
1.1 Overview: Available modules

tcl3dTogl	Enhanced Togl widget, a Tk widget for displaying OpenGL content.
tcl3dUtil	Tcl3D utility library (math functions, shapes, stop watch, et al).
tcl3dOgl	Wrapper for basic OpenGL functionality (GL Version 1.1, GLU Version 1.2).
tcl3dOglExt	Wrapper for enhanced OpenGL functionality (GL Version 1.2 through 2.0) and OpenGL extensions.
tcl3dCg	Wrapper for NVidia's Cg shading language.
tcl3dSDL	Wrapper for the Simple DirectMedia Library.
tcl3dFTGL	Wrapper for the OpenGL Font Rendering library.
tcl3dGl2ps	Wrapper for the OpenGL To Postscript library.
<u>tcl3dOde</u>	Wrapper for the Open Dynamics Engine (in work).
tcl3dGauges	Tcl3D package for displaying gauges.
Paul Obermei	er Tcl3D: One year after 5

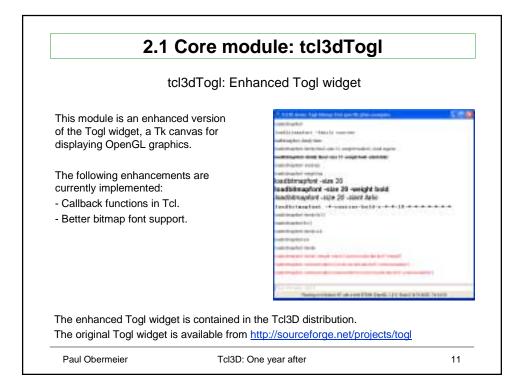


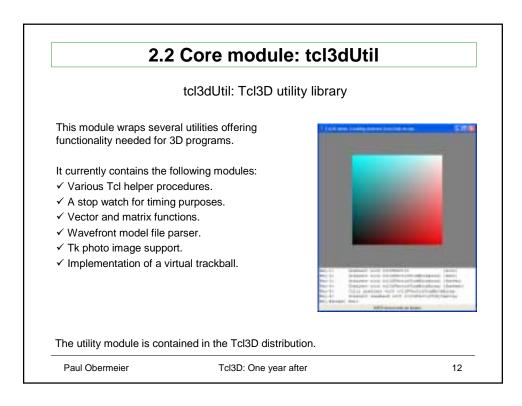


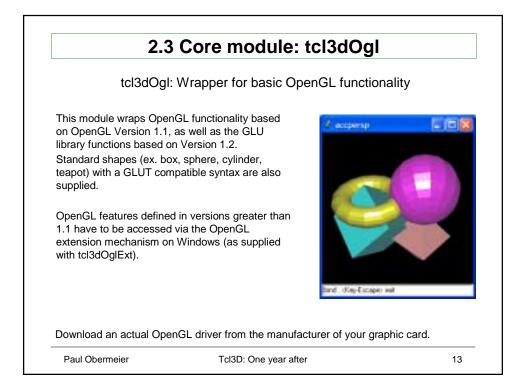


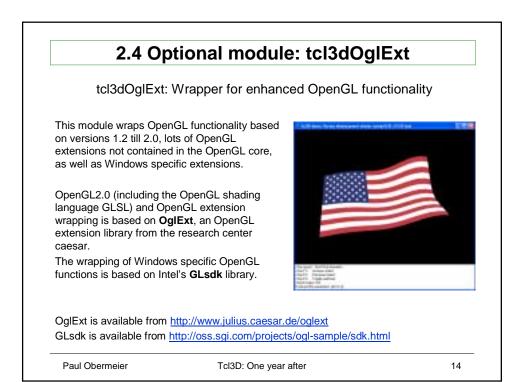


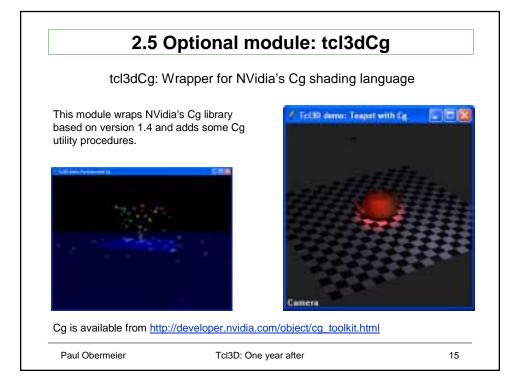
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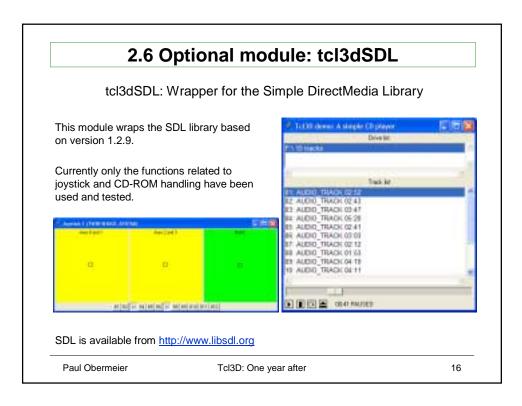


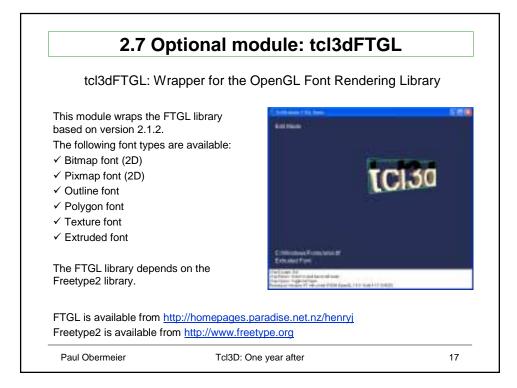


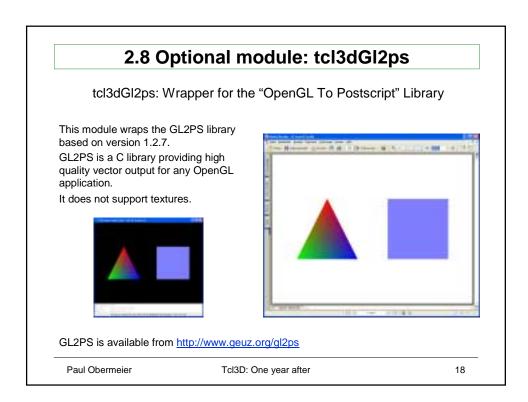


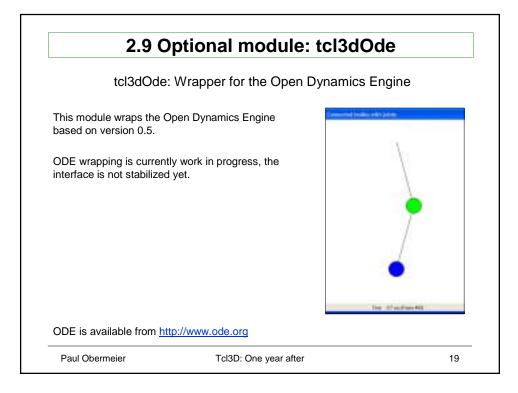


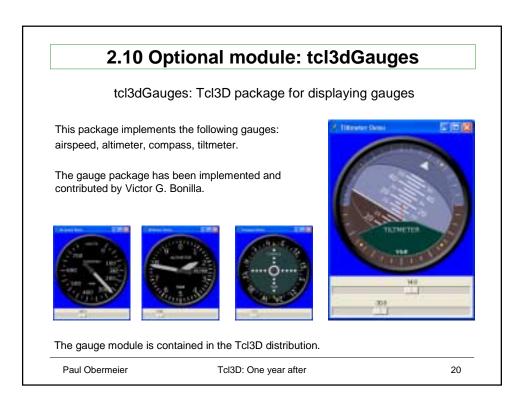








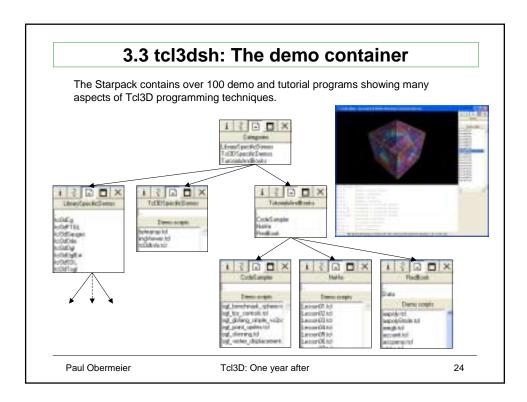


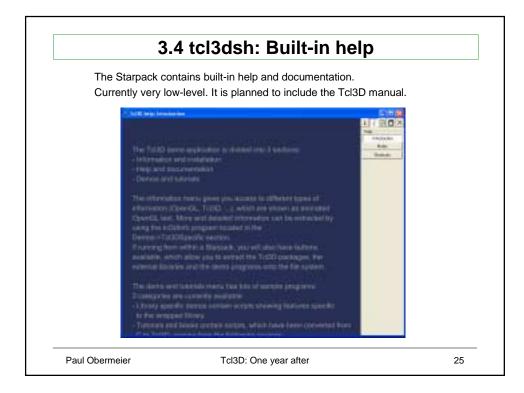


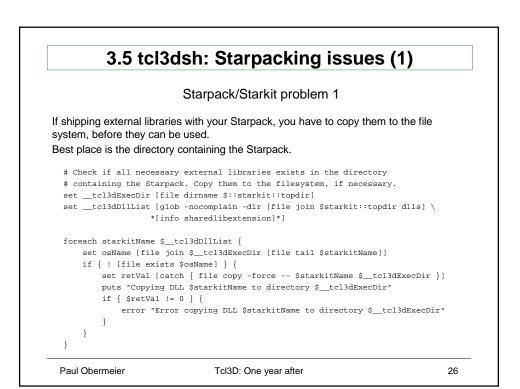
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The Starpack tcl3d	sh can be used as	1011130	100
 a standalone executable a test and presentation an installer for the Tcl3E 	program for Tcl3D		
Tidle Canada			100
The Edit			area de
Type "pres" to start TcI3D presenta into patchlevel 14.15 instrijoatckage namies] ing tot Mik4ci Tci Tki dde gouge go peg img pocking pinneng img proj date ing pocking pinneng img proj date ing pocking pinneng img proj starcksphere sound startet.tcl3rt.tcl opt icl3dual totbest tiffici vfs vfs. mid s	ugeBase64 http://ng.ibase.ing. Ing.ppm.ing.ps.mg.rawing 44s.mgbat.ptp.pgb1.pebriec deg.sc85tg1c13dgauges.tc840	ing ling sun ing tgaling tr han registry scripduc snack i g2pe tcl3dode tcl3dogi tcl3ds	filmg:wi nackogu

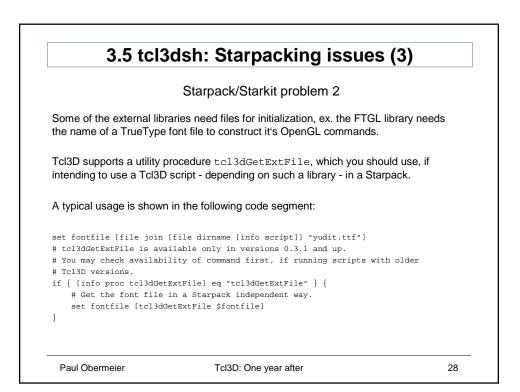








	Starpack/Starkit problem 1
This aforementioned solu the following two disadva	tion seems to be the best possible solution today, but has ntages:
Windows user will typical inflates the desktop with I	ly place the Starpack onto the desktop. Starting the Starpack lots of DLL's.
	t directory typically is not included in the iable. So we need a separate shell script:
LD_LIBRARY_PATH vari	
LD_LIBRARY_PATH vari #!/bin/sh LD_LIBRARY_PATH=".:\$LD_L1	iable. So we need a separate shell script:
LD_LIBRARY_PATH vari #!/bin/sh LD_LIBRARY_PATH=".:\$LD_LJ LD_LIBRARYN32_PATH=".:\$LI	iable. So we need a separate shell script:
LD_LIBRARY_PATH vari #!/bin/sh LD_LIBRARY_PATH=".:\$LD_LJ LD_LIBRARYN32_PATH=".:\$LI export LD_LIBRARY_PATH	able. So we need a separate shell script: "BRARY_PATH" D_LIBRARYN32_PATH"
LD_LIBRARY_PATH vari #!/bin/sh LD_LIBRARY_PATH=".:\$LD_LJ LD_LIBRARYN32_PATH=".:\$LI export LD_LIBRARY_PATH	able. So we need a separate shell script: "BRARY_PATH" D_LIBRARYN32_PATH"
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4.1	Planned Tcl3D features	
The followin	ng items are on my personal ToDo list	
➤ Complete th	e ODE wrapper.	
Coordinate t	cl3dTogl changes with official Togl maintainer.	
Extend Togl	to support multisampling, Swap control and Pbuffers.	
Add more 3I	 Add more 3D file formats (at least 3ds). 	
 Implement TEA compliant build structure. 		
Make it a Sc	purceForge project. (??)	
Contributi	ons of any kind are welcome.	
bı	ug fixes	
te	sting	
ide	eas for libraries to be added	
de	emo programs	
pla	atform specific support	
Send ther	n to <u>info@tcl3d.org</u> .	
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