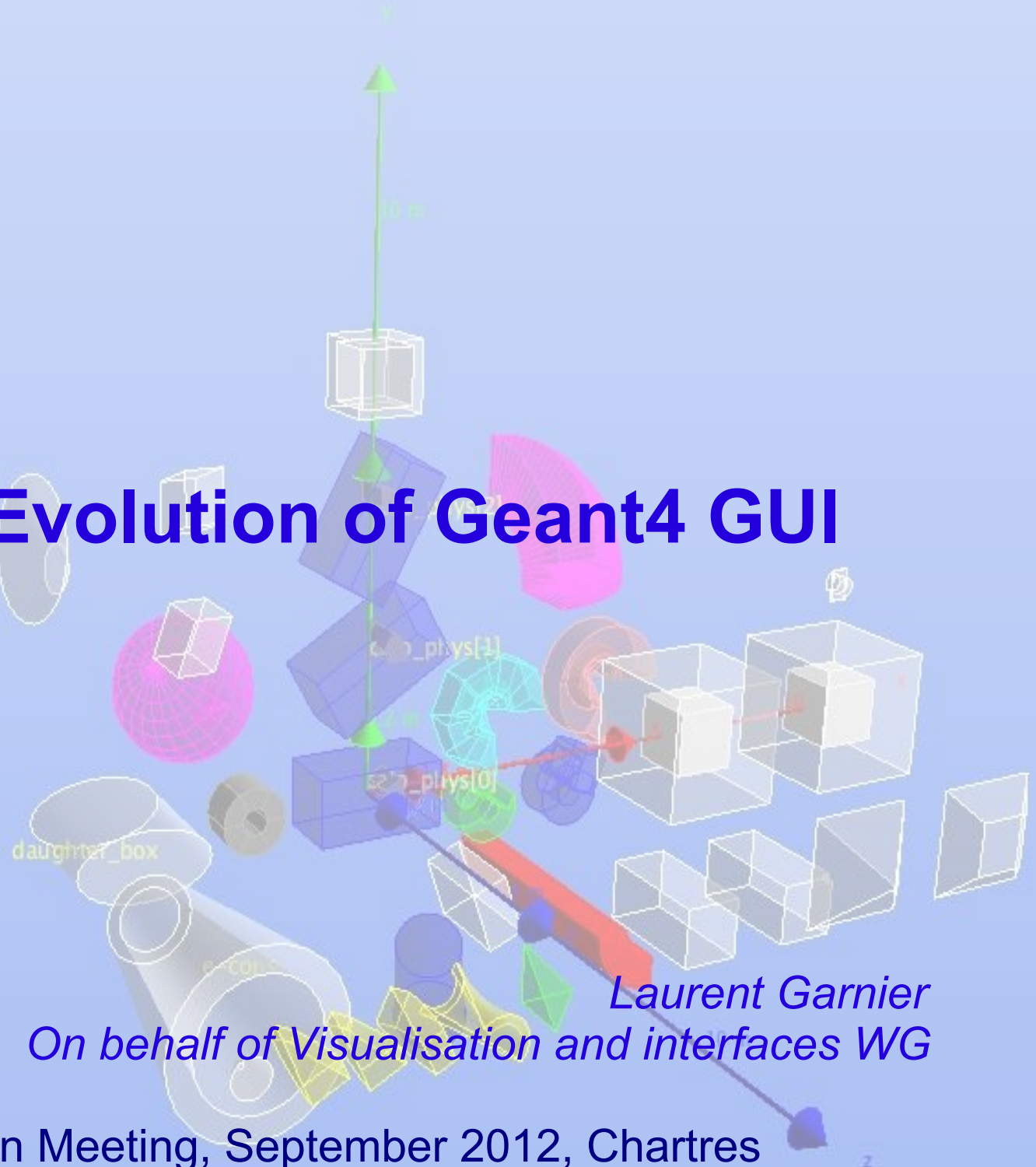
Status and Evolution of Geant4 GUI



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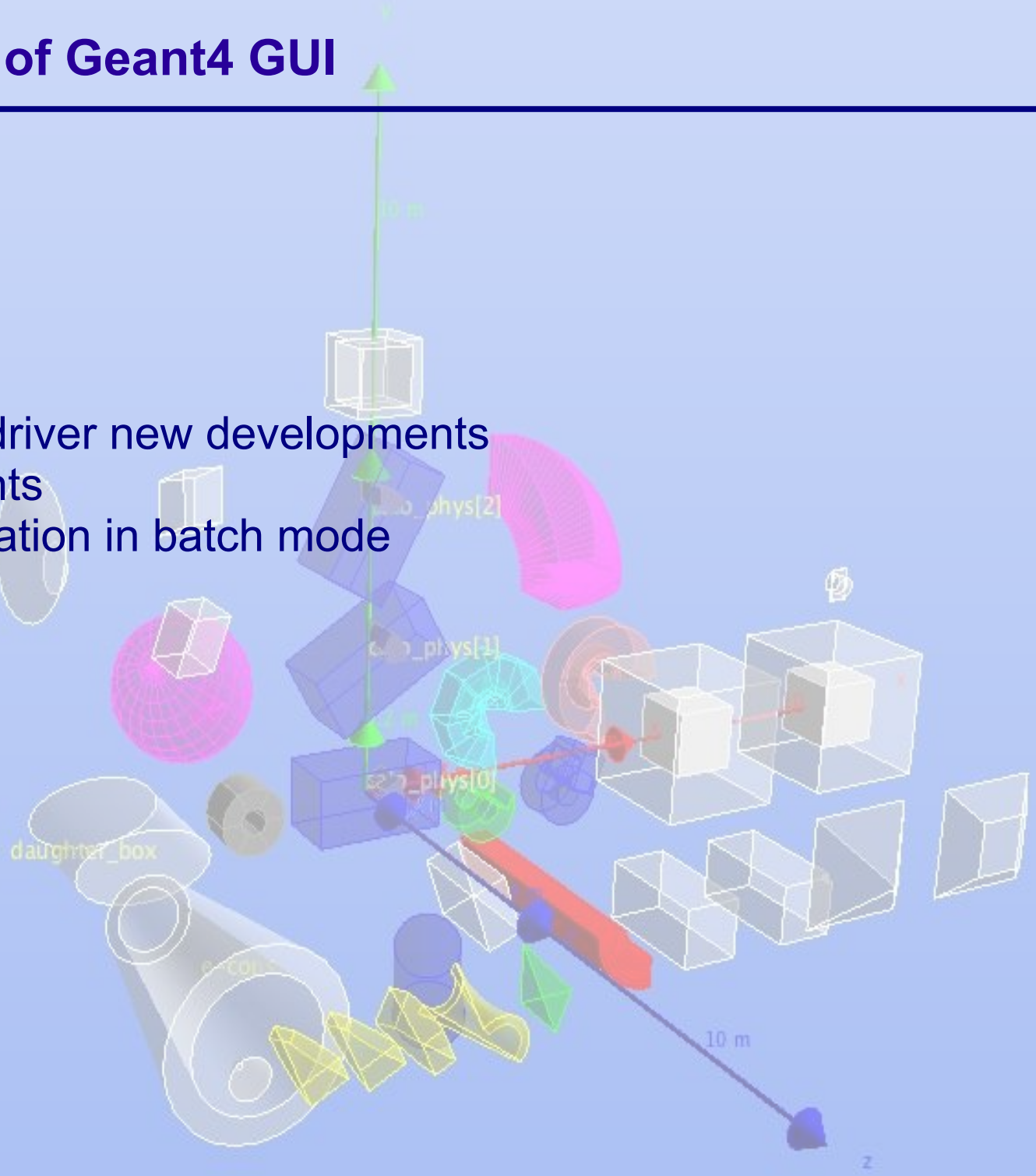
On behalf of Visualisation and interfaces WG

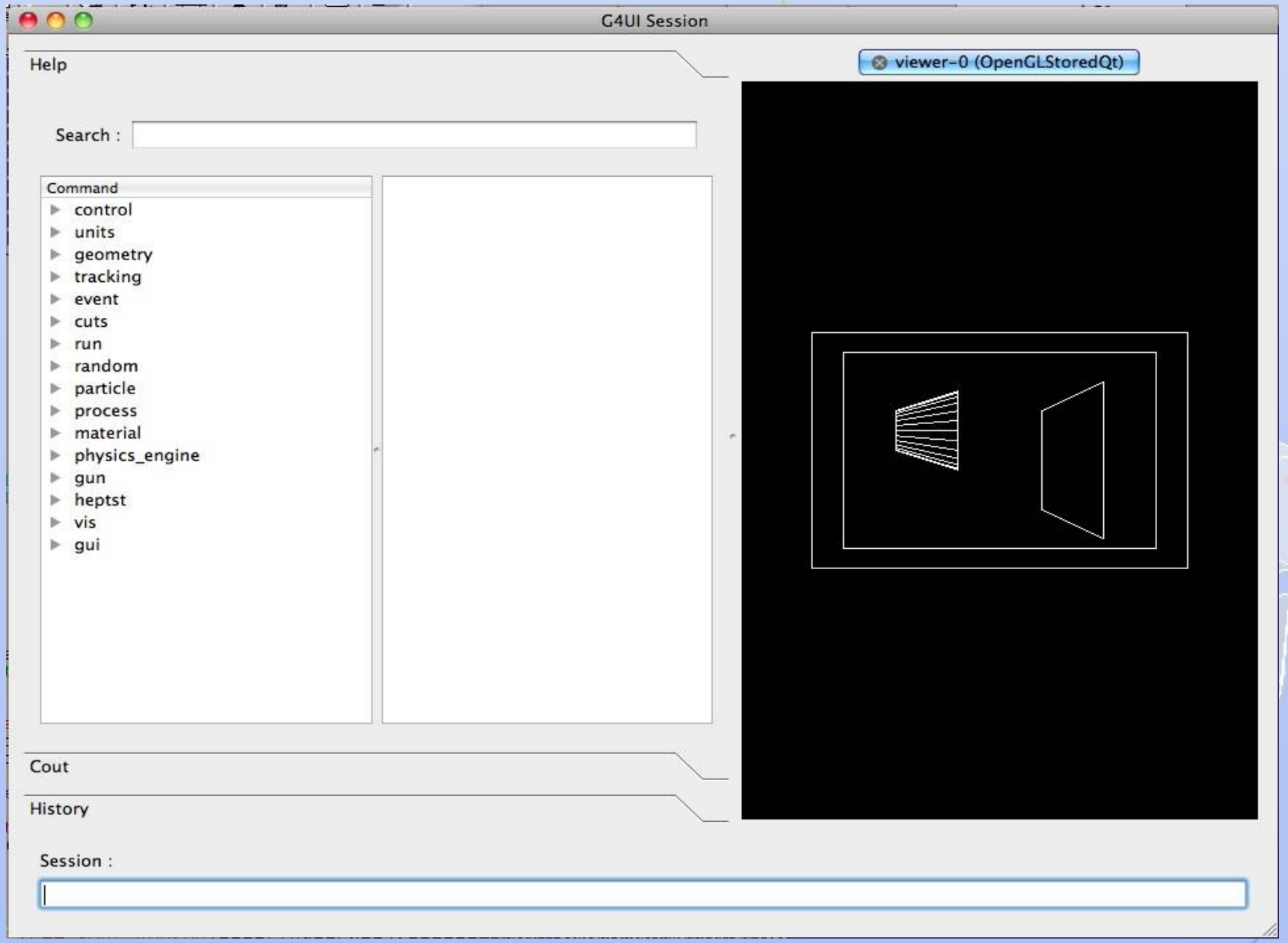
17th Geant4 Collaborattion Meeting, September 2012, Chartres

Status and Evolution of Geant4 GUI

- Qt visualization driver new developments
- Text improvements
- Running visualization in batch mode



Qt Visualisation Driver – geant4-09-05 version -



Qt Visualisation Driver – **geant4-09-06 version ? -**

Qt driver is originaly in two parts :

- User interface in « interface » package
- Viewers in « visualization » package

This modularity allow users to define their own user interface or to integrate only viewer in their own program.

Lots of functionalities are already there (command line, shortcuts, context menu), but users know only a few commands.

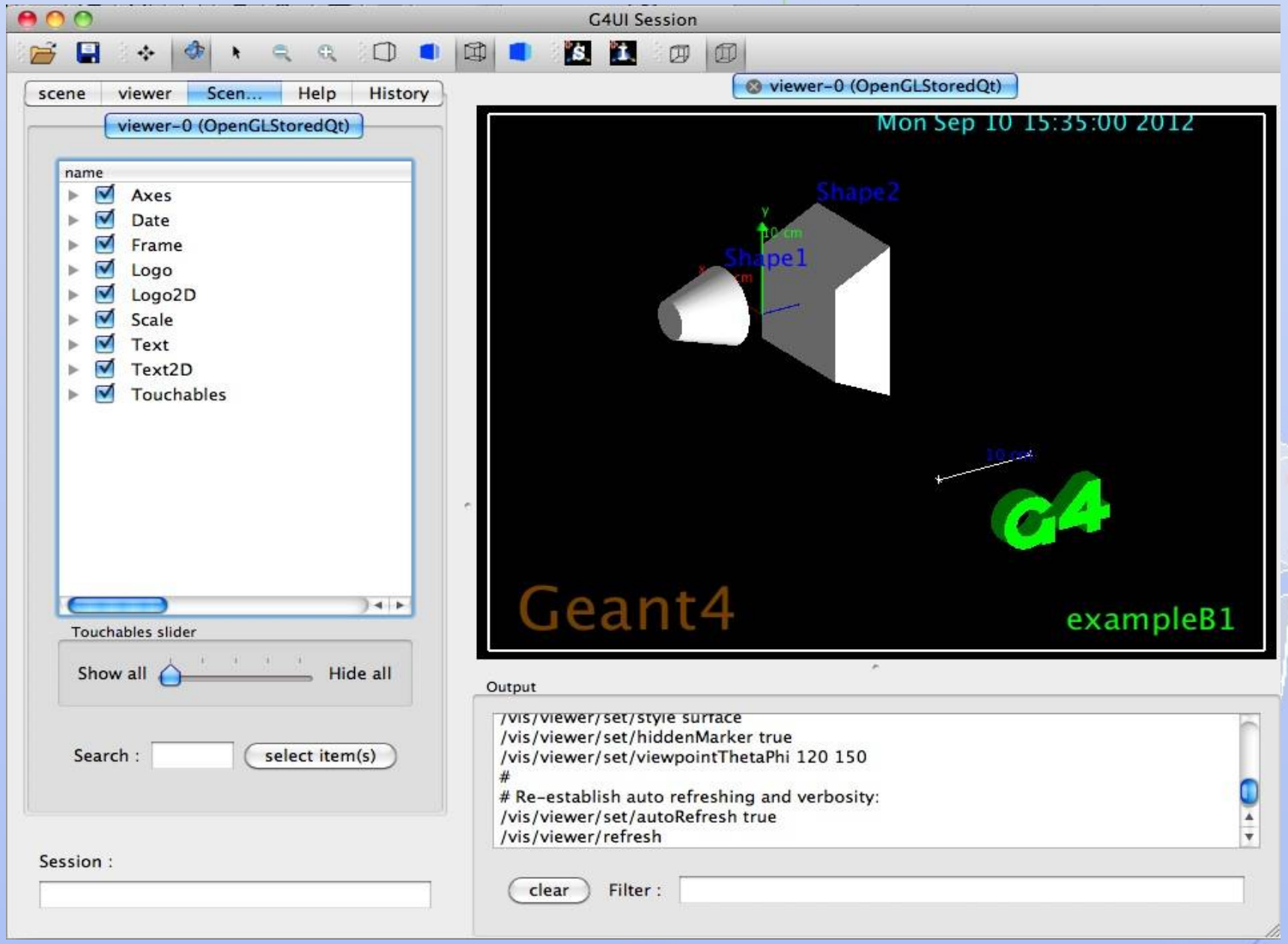
⇨ Try to redefine user interface to have lots of useful things in « one click » or « one shortcut »

⇨ Allow to see « outputs » all the time instead of switching between « history » « cout » « help » component

⇨ Add a scene tree browser where we could hide/see change color and transparency on volumes

Everything is still under development !

Qt Visualisation Driver – geant4-09-06 version ? -



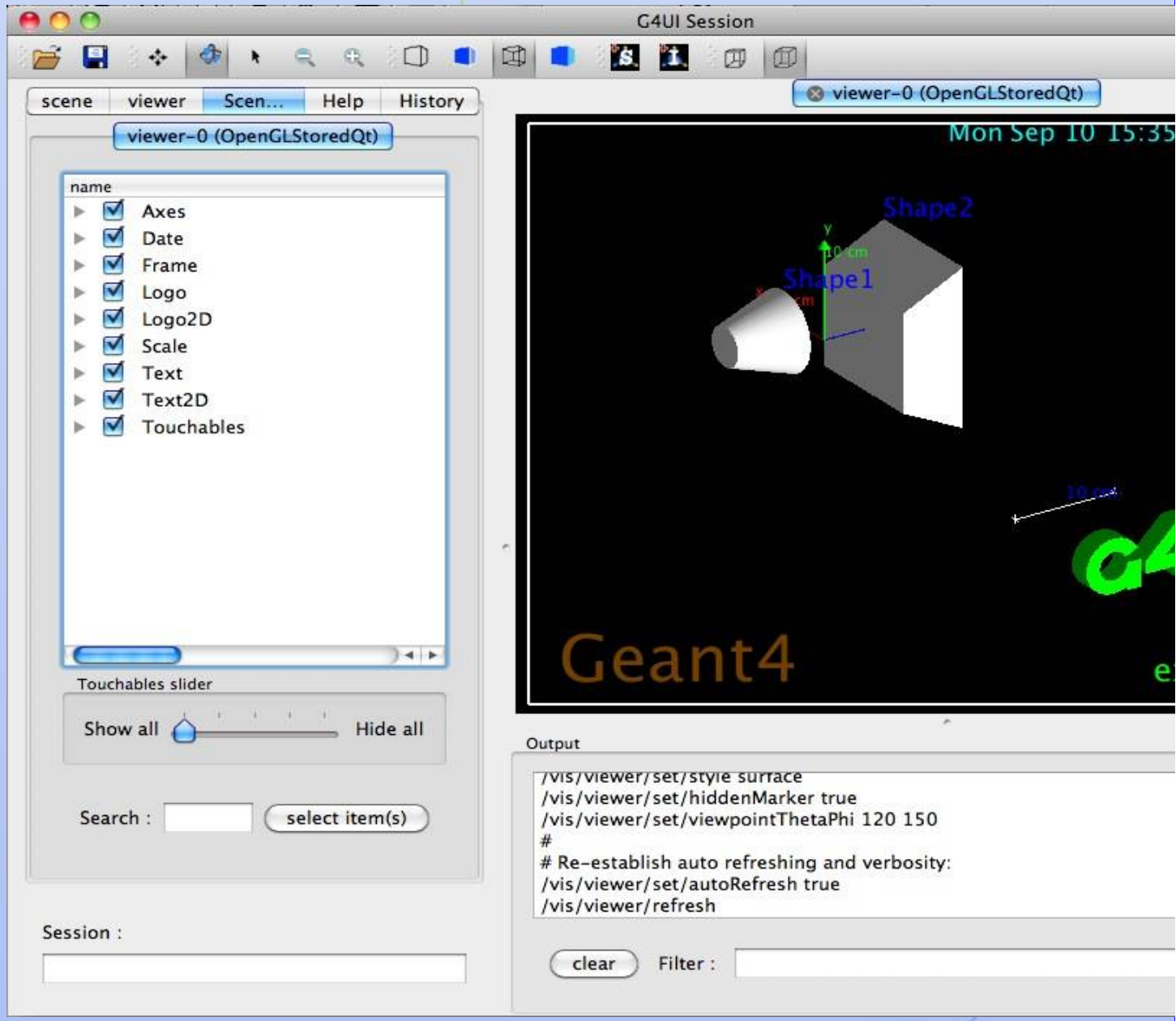
Qt Visualisation Driver – geant4-09-06 version ? -

What's new ?

- Icon toolbar
- Left widget tabstack
- Scene tree browser

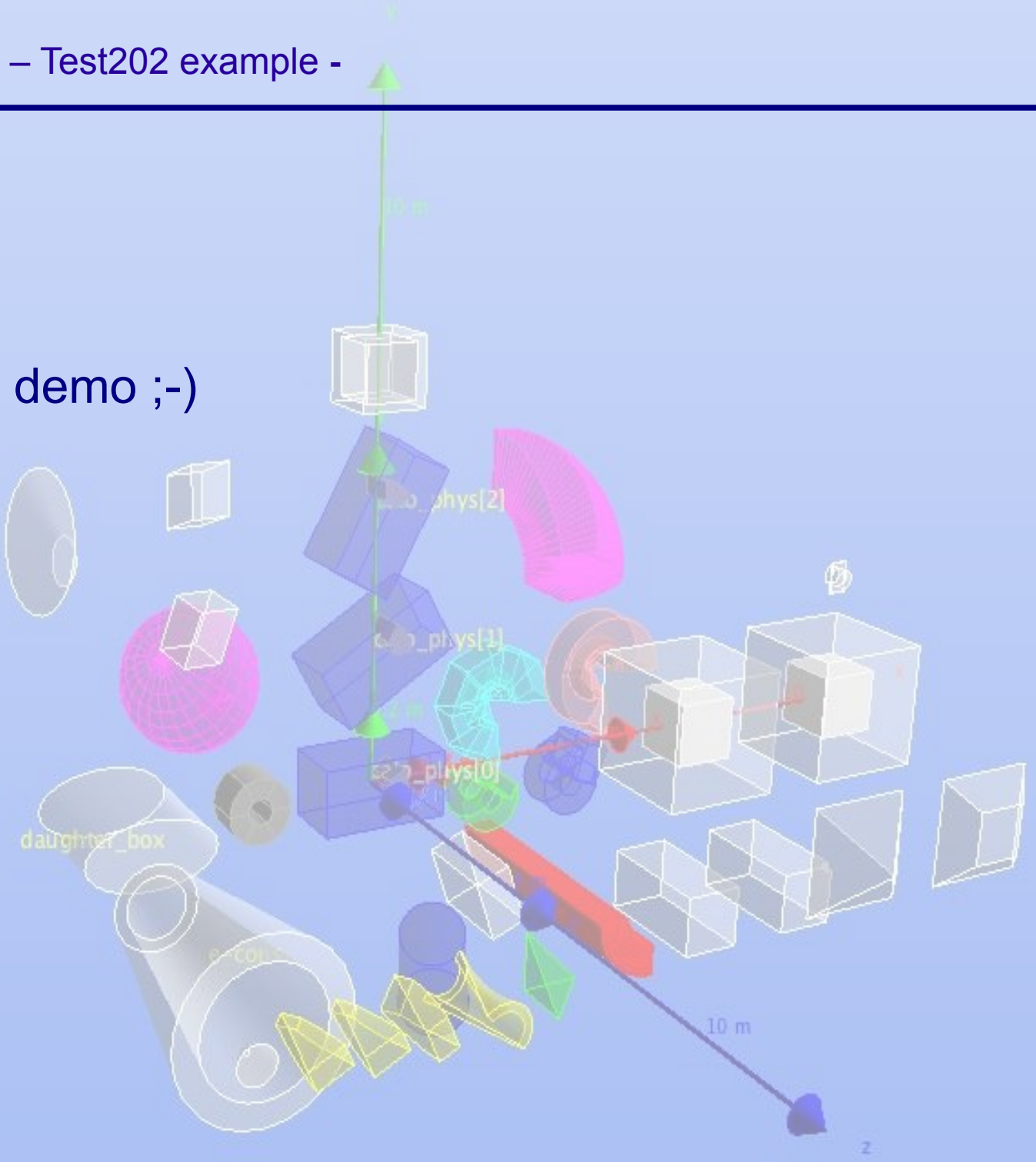
All previous components are still there :

- Help widget
- Output window
- History
- Viewers
- Session

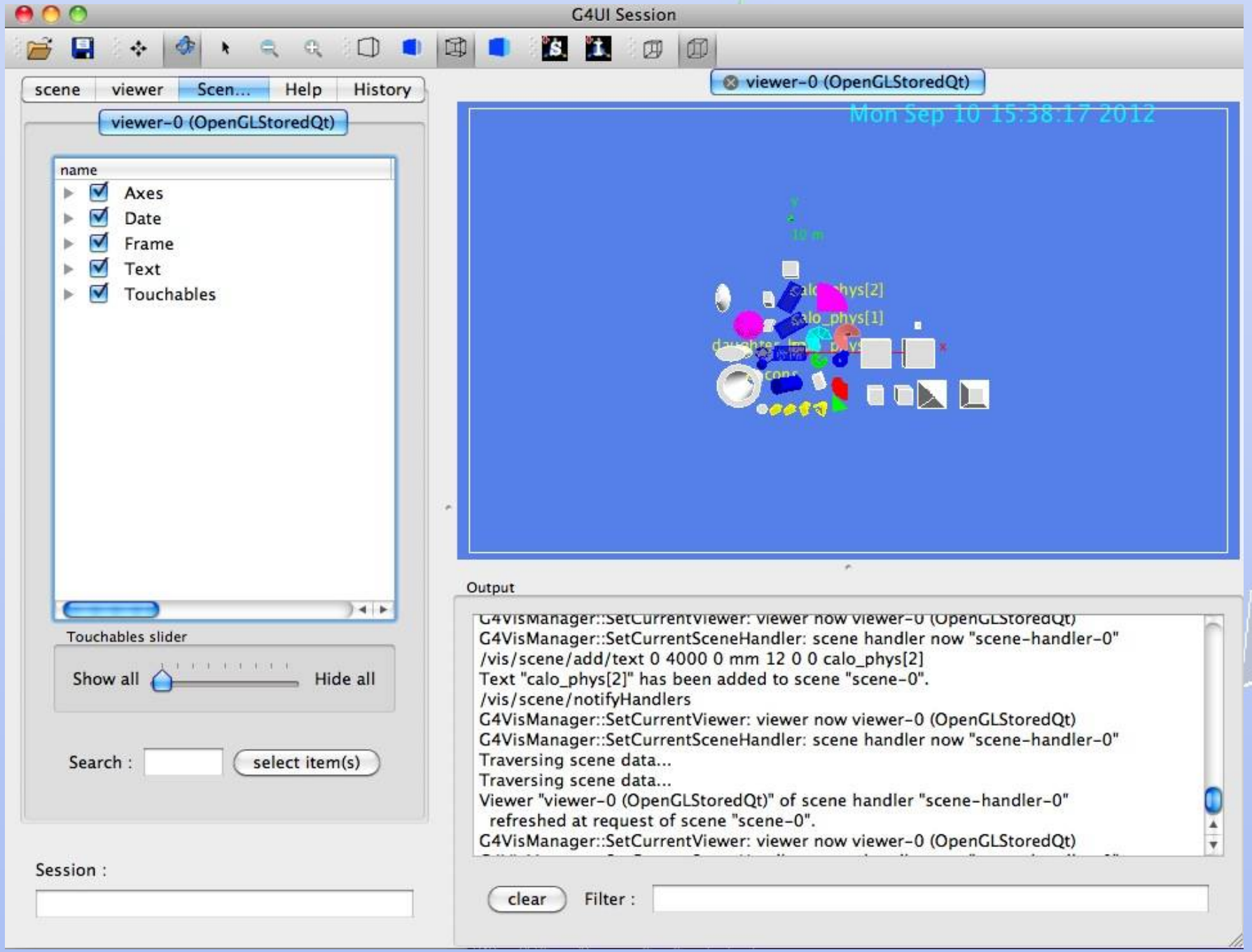


Qt Visualisation Driver – Test202 example -

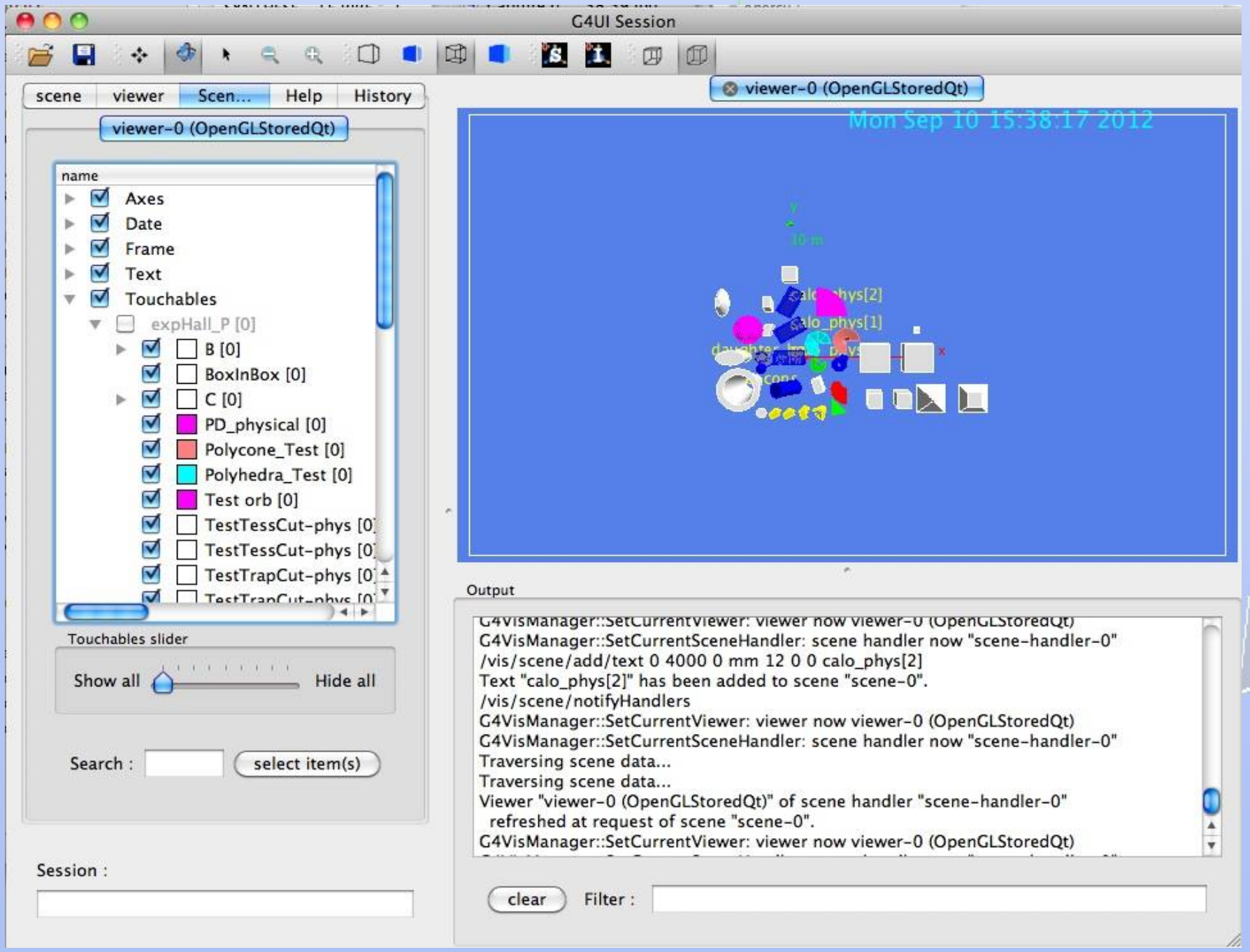
It's time for a demo ;-)



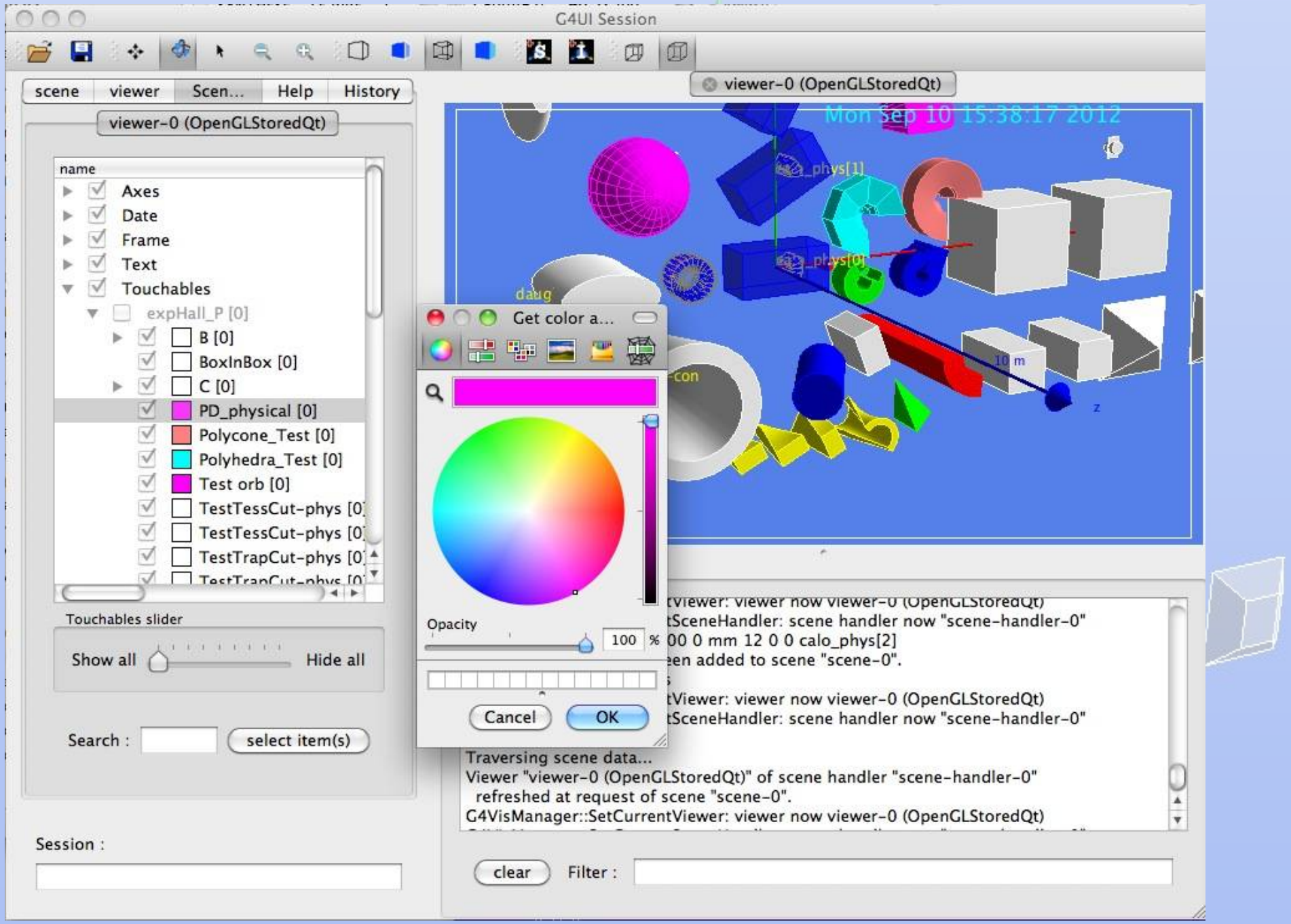
Qt Visualisation Driver – Test202 example -



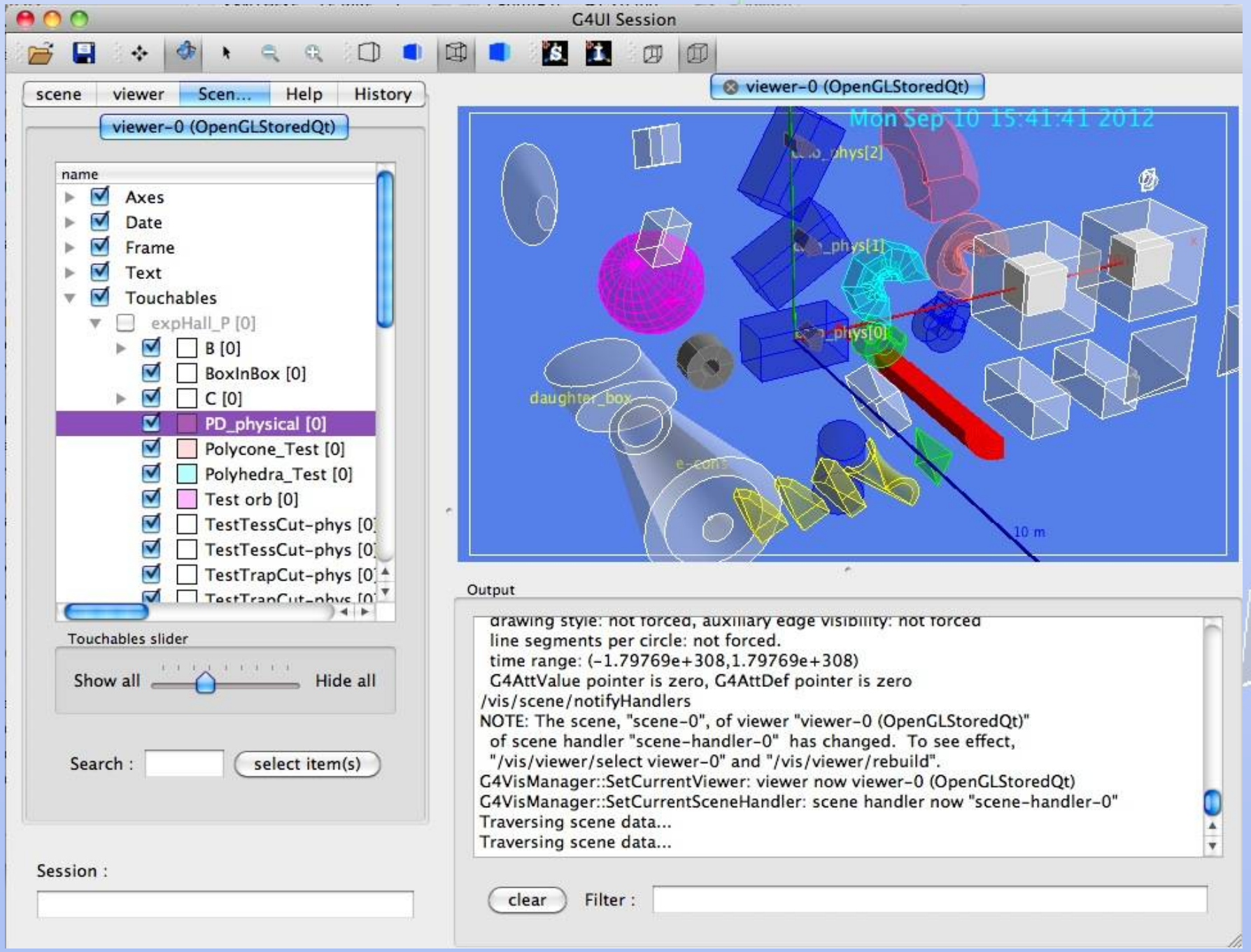
Qt Visualisation Driver – Test202 example – **scene tree**



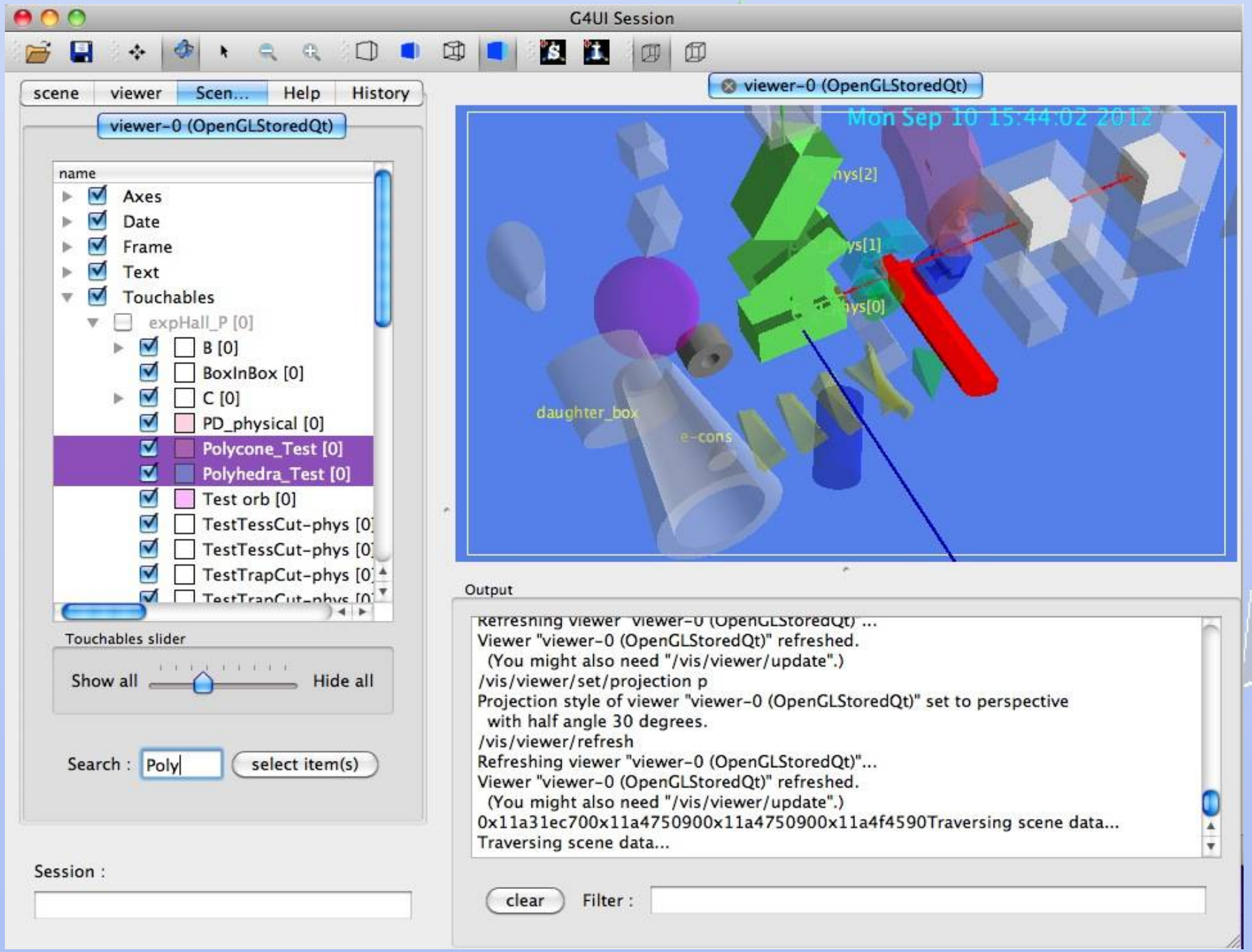
Qt Visualisation Driver – Test202 example – **changing color and transparency**



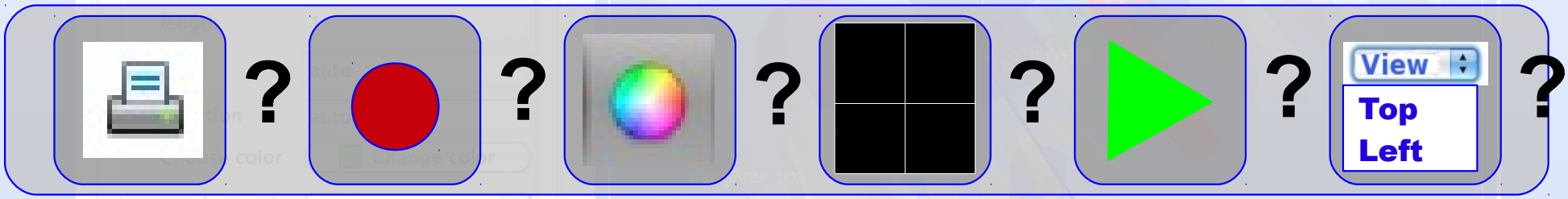
Qt Visualisation Driver – Test202 example – **touchables slider**



Qt Visualisation Driver – Test202 example – **looking for a volume**



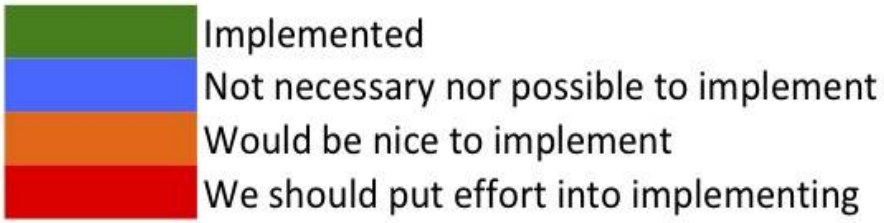
Qt Visualisation Driver – What next ? –



Print **Record movie ?** **Changing background color** **Table Viewers** **Run** **Save Restore Viewpoints**

Text improvements

Driver	Variant	Geometry	Text	Text 2D	Text Layout	Other 2D
OpenGL	X					
	Xm					
	Qt					
	Win32					
	printEPS					
Open Inventor	Xt					
	Win32					
DAWN & DAWNFILE						
VRML1/2 & VRML1/2FILE						
HepRep						
HepRepFile						
gMocren						
Ray Tracer						

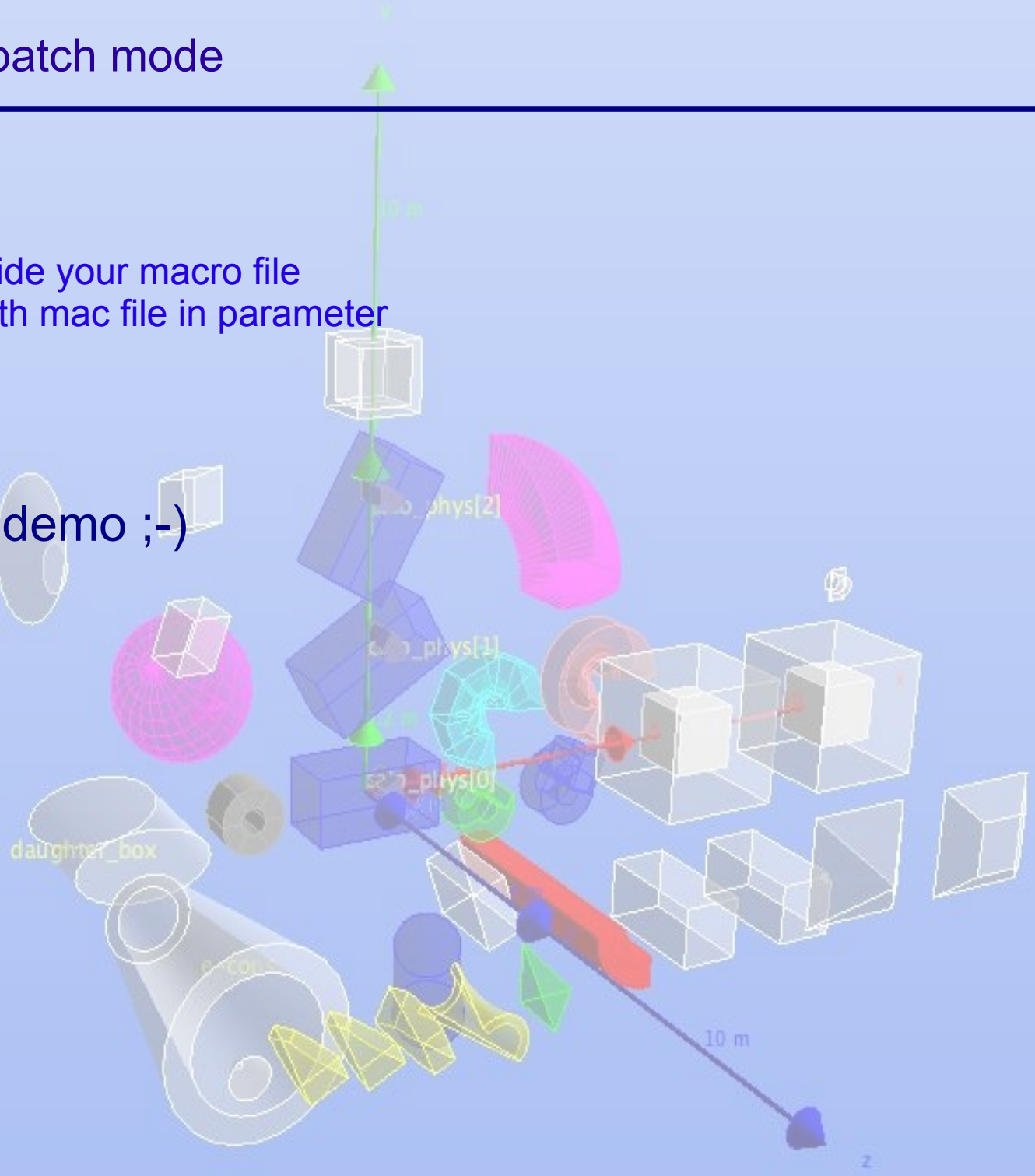


Running visualization in batch mode

Nothing to do !

- add some print command inside your macro file
- Run your favorite example with mac file in parameter
- That's all...

It's time for a demo ;-)



Qt Visualisation Driver – Questions –

Questions ?