Grafică pe calculator

Lucian GHIRVU

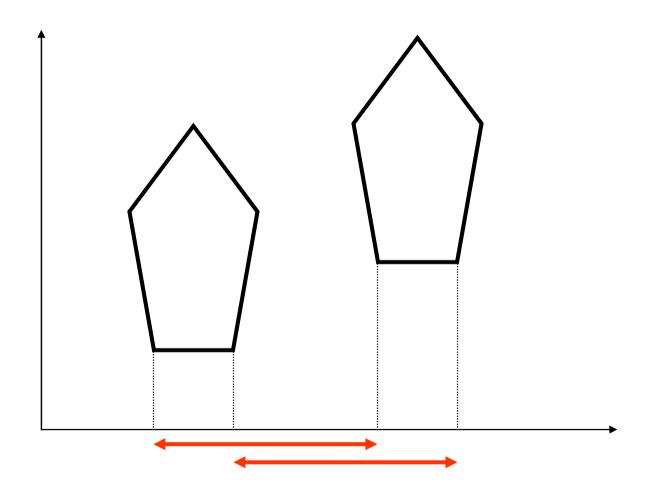
ghirvu@infoiasi.ro

www.infoiasi.ro/~ghirvu/gpc

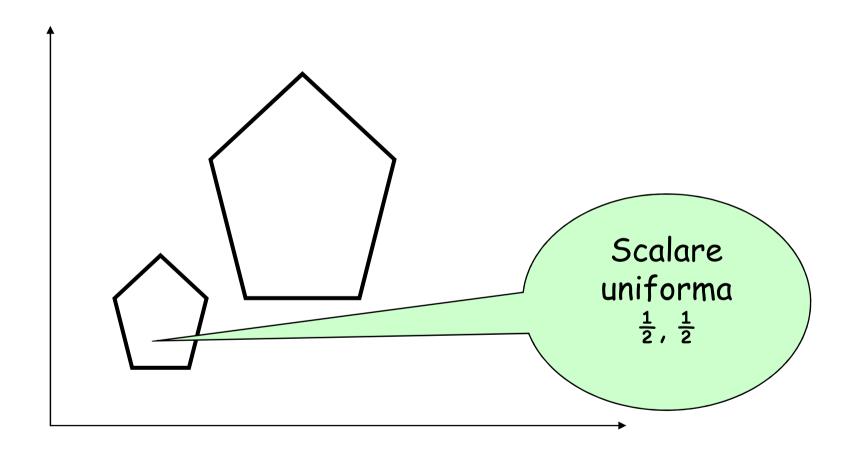
Transformări geometrice

- · Translatie
- Scalare
- Rotatie
- · Transformarea window-viewport
- Transformări ale sistemelor de coordonate

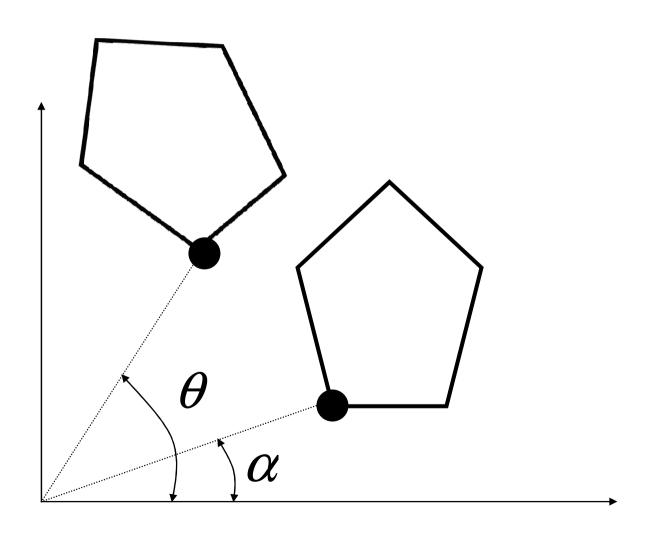
Translatie



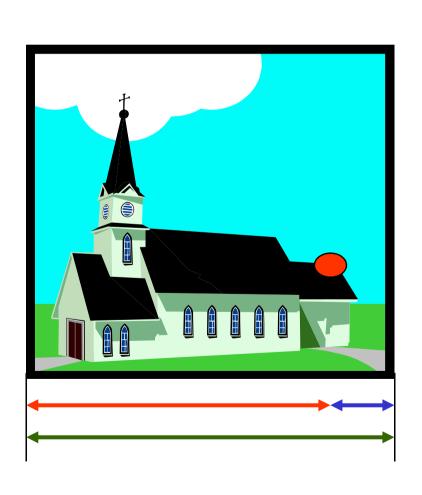
Scalare



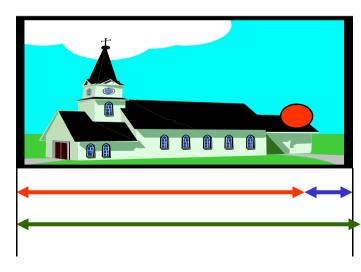
Rotatie



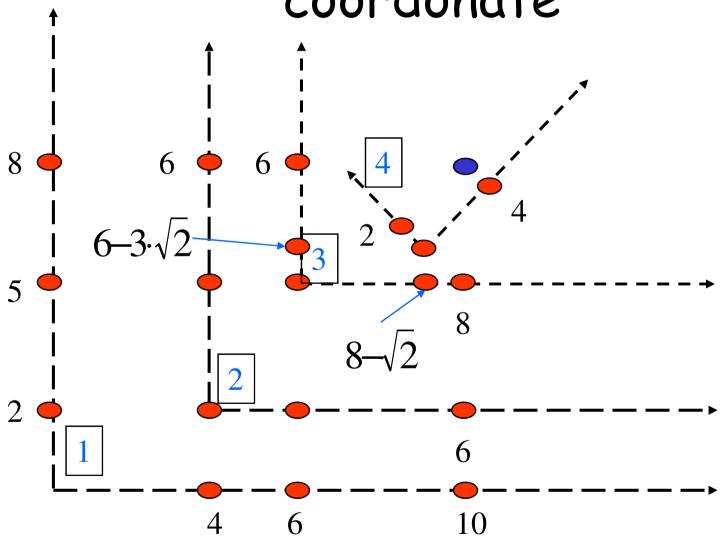
Transformarea windowviewport

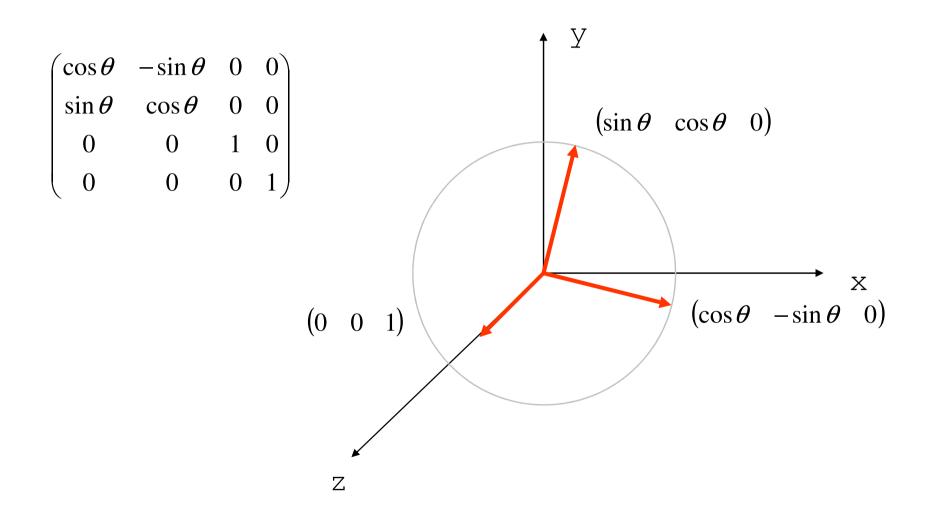


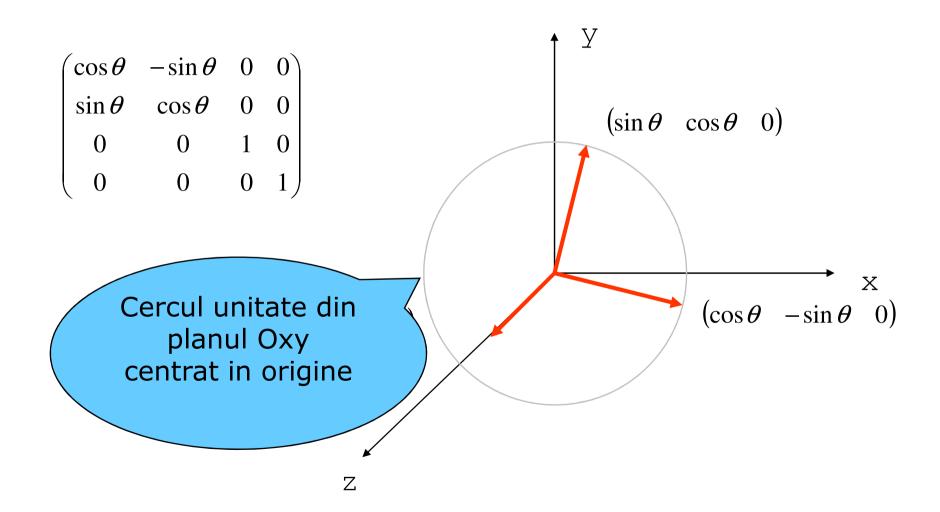


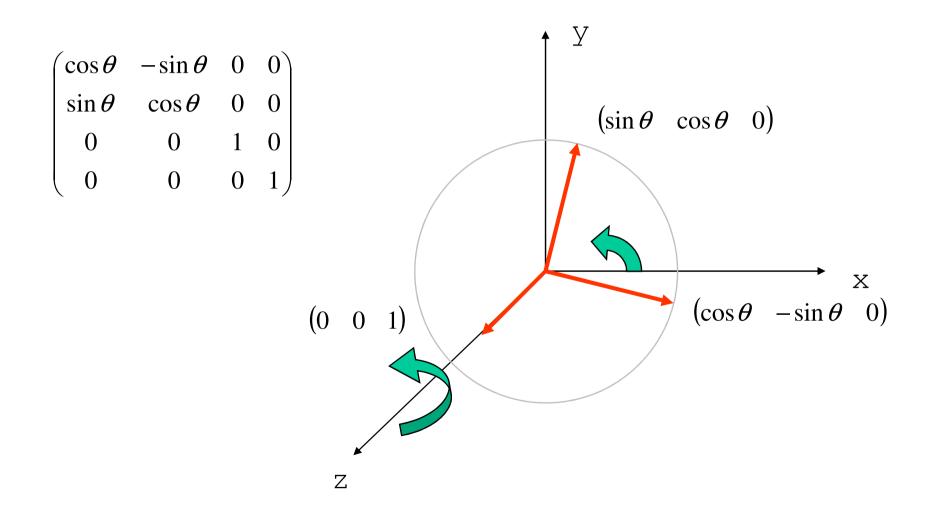


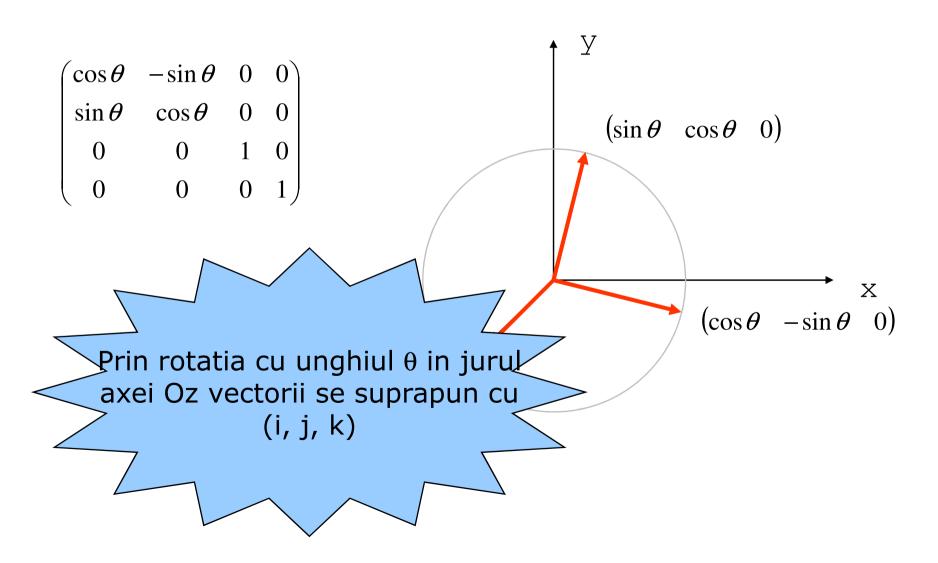
Transformări ale sistemelor de coordonate

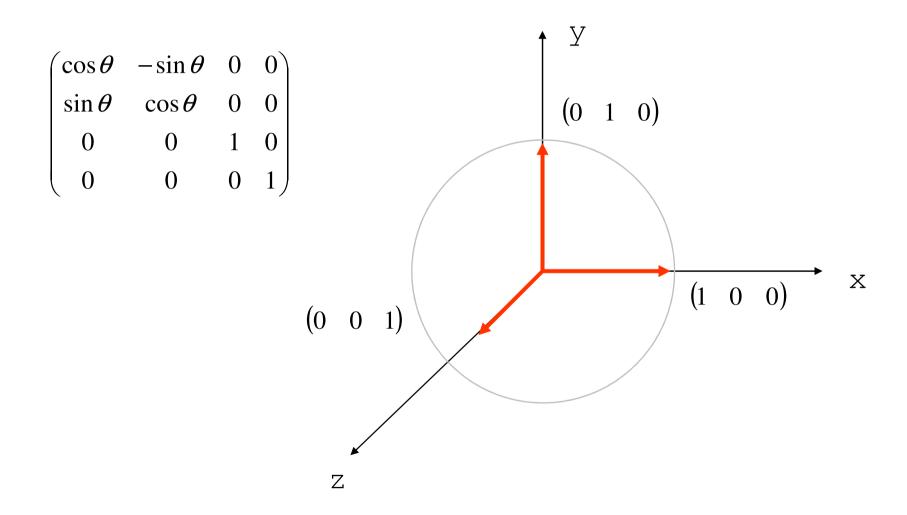


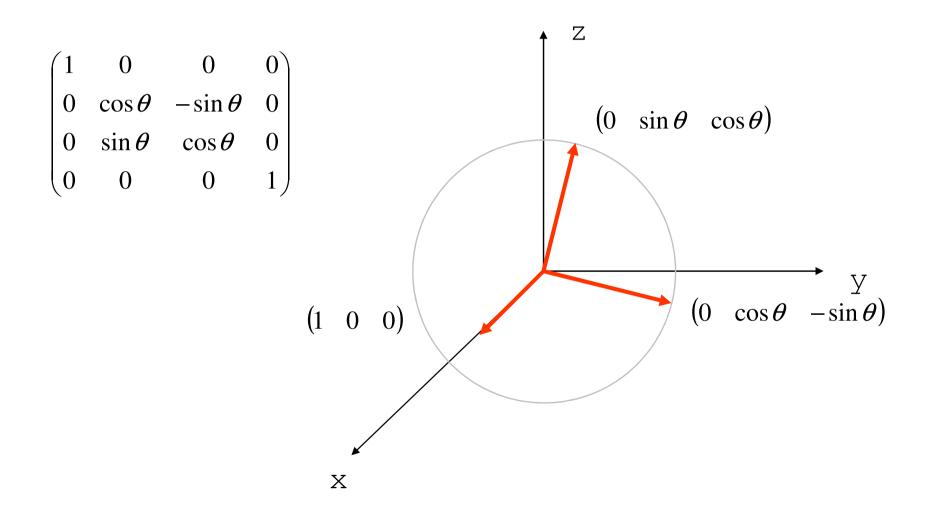


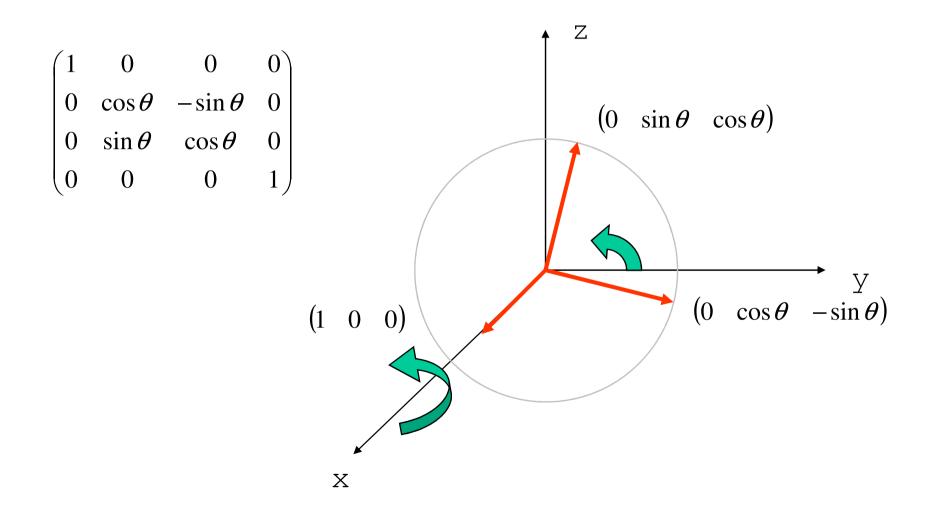


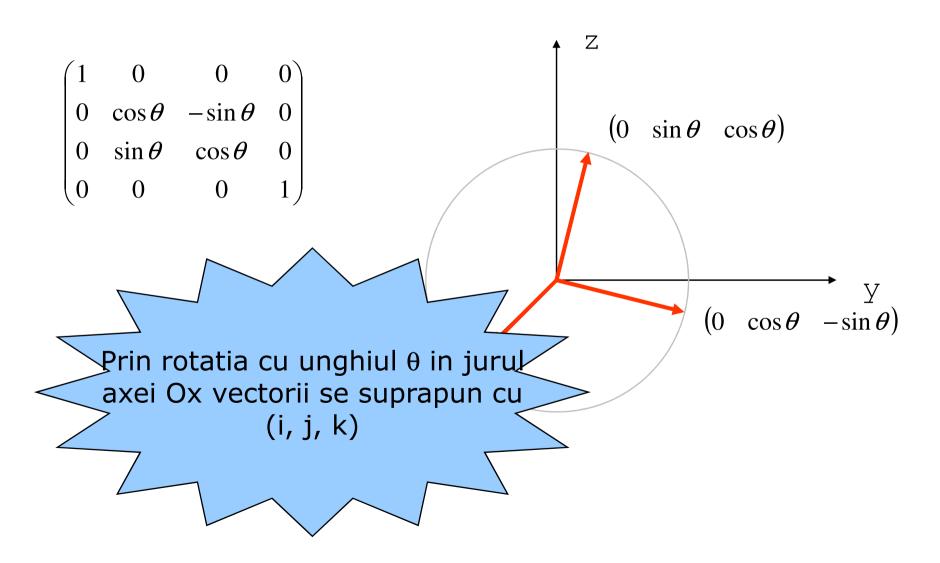


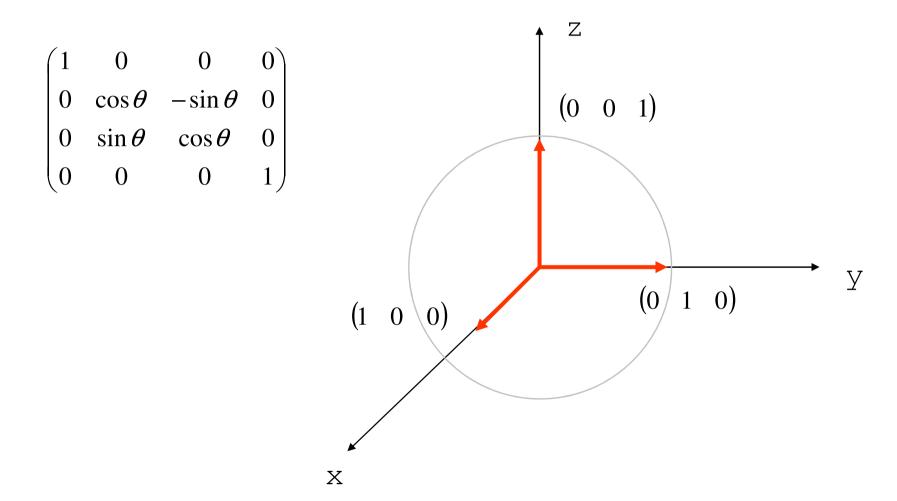




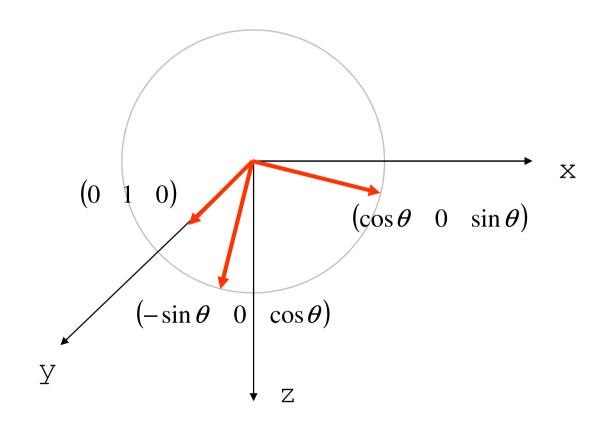




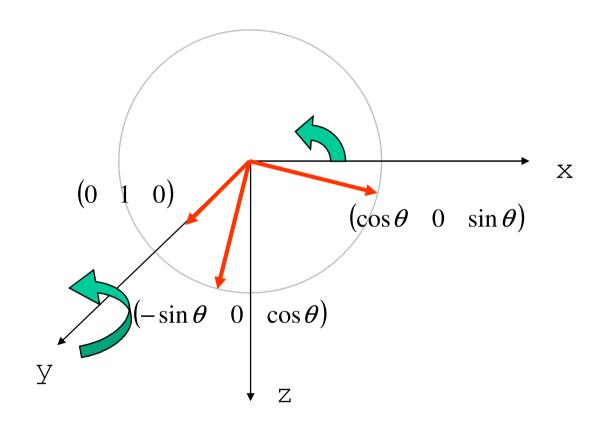


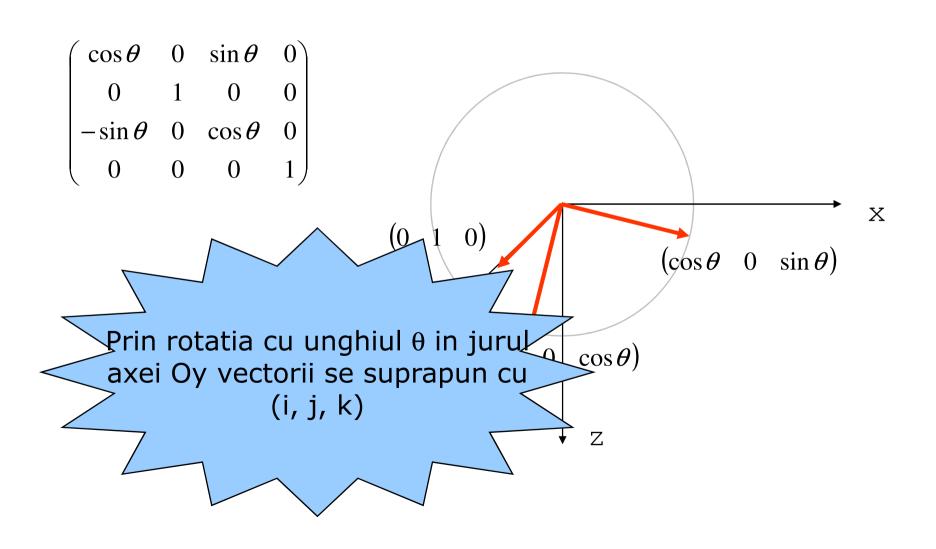


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0 & 1 & 0 & 0 \\
-\sin\theta & 0 & \cos\theta & 0 \\
0 & 0 & 0 & 1
\end{pmatrix}$$



$$\begin{pmatrix}
\cos\theta & 0 & \sin\theta & 0 \\
0 & 1 & 0 & 0 \\
-\sin\theta & 0 & \cos\theta & 0 \\
0 & 0 & 0 & 1
\end{pmatrix}$$





$$\begin{pmatrix}
\cos\theta & 0 & \sin\theta & 0 \\
0 & 1 & 0 & 0 \\
-\sin\theta & 0 & \cos\theta & 0 \\
0 & 0 & 0 & 1
\end{pmatrix}$$

