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Printable version Permanent link Cite this page aguages	Orthogonal projection  For example, the function which maps the point (x, y, z) in three-dimensional space R <sup>3</sup> to the pipane. This function is represented by the matrix		[edit] -y
Aguar Deutsch Español Suomi Français annay Interlingua Polisti Syenska DD	$P = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix}.$ The action of this matrix on an arbitrary vector is $P\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} x \\ y \\ 0 \end{pmatrix}$ and $P^2\begin{pmatrix} x \\ y \\ z \end{pmatrix} - P\begin{pmatrix} x \\ y \\ 0 \end{pmatrix} = \begin{pmatrix} x \\ y \\ 0 \end{pmatrix};$		
	therefore $P=P_{\alpha}^{2}$ proming that $P$ is indeed a projection. Oblique projection $An \text{ example of a simple non-enthogonal (oblique) projection (for definition see below) is P = \begin{bmatrix} 0 & 0 \\ \alpha & 1 \end{bmatrix}. It is easy to see that P^{2} = \begin{bmatrix} 0 & 0 \\ \alpha & 1 \end{bmatrix} \begin{bmatrix} 0 & 0 \\ \alpha & 1 \end{bmatrix} = \begin{bmatrix} 0 & 0 \\ \alpha & 1 \end{bmatrix} = P. proving that P is sinked a projection. The provision of the orthogonal A and only if a = 0.$	1	[edit]









































































































































