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Tools

COURSE HOME	The flash animations were developed by Jean-Michel Claus (with voiceover by Gilbert Strang). We are grateful! Funding was provided by a grant from the The d'Arbeloff Fund for Excellence in MIT Education as part of The d'Arbeloff Interactive Mathematics Project (d'A I M P).
SYLLABUS	Matrix Multiplication An interactive demo (with voiceover explanation) on Matrix Multiplication, $A = LU$, and $PA = LU$
CALENDAR	Eigenvalue Demonstrations
READINGS	The demonstrations below employ Java® applets with voice-over narration to show some Eigenvalue concepts. <u>Demo 1</u> - This 3-minute demo shows eigenvectors of 2 by 2 matrices
ASSIGNMENTS	The demo is also broken into 7 independent pieces: • Part 1
EXAMS	 Part 2 Part 3 Part 4
STUDY MATERIALS	 Part 5 Part 6
TOOLS	Part 7 Demo 2 - Powers A ⁿ V lead toward the top eigenvalue/eigenvector
RELATED RESOURCES	Mini-lectures on Eigenvalues
VIDEO LECTURES	The mini-lectures with voice-over narration below help to explain some key Eigenvalue concepts. Full Lecture (all eight together)
	Or view individually (about 2 minutes each) • det(A-\lambda I)=0 • Eigenvectors and Trace • Powers • Diagonalization • Differential Equations • Symmetry • Positive Definite

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