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Most common among these is MATLAB ®, a high-level language and interactive development environment with prebuilt functions for scientific computing. For detail on solving specialized classes of problems, see the toolboxes for statistics, optimization, and parallel computing. Examples and How To Computational Mathematics Tutorial - Video

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Matlab can easily provide you with all elements of a matrix that meet a specified condition. In this example, the result of  $A > 10$  is a matrix, consisting of zeroes and ones, indicating which elements are greater than 10. The elements that meet the condition are identified by ones and those that do not meet the condition are identified by zeroes.

~~Introduction to Scientific Computing with Matlab~~

Scientific Computing with MATLAB and Octave Fourth Edition 123. Alfio Quarteroni MATHICSE-CMCS Ecole Polytechnique Fédérale de Lausanne Lausanne Switzerland Paola Gervasio DICATAM Università degli Studi di Brescia Brescia Italy Fausto Saleri (1965-2007) MOX - Politecnico di Milano Milano

~~Alfio Quarteroni Fausto Saleri Paola Gervasio Scientific c ...~~

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`zeros(3)` `zeros(3,4)` `diag([1 4 6 10])` You can use built in matrices and ranges to build up a bigger matrix by separating columns by a space and rows by a semicolon: `A = [zeros(3) ones(3)]` `A = [magic(3); ones(3)]` `A = [zeros(3) ones(3); magic(3) [1:3; 2:4; 3:5]]` 2.6.5 Matrix operations.

## ~~Introduction to Scientific Computing with MATLAB~~

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Scientific Computing using Matlab. By Prof. Mani Mehra, Prof. Vivek K. Aggarwal | IIT Delhi In the first week of this course, an introduction to Matlab is introduced with hands on Matlab software. In the subsequent weeks, topics will be introduced followed by hands on to write the Matlab code of the same topics.

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## ~~Torch | Scientific computing for LuaJIT.~~

Scientific Computing with MATLAB and Octave. Alfio Quarteroni, Fausto Saleri, Paola Gervasio. Springer Berlin Heidelberg, Jun 29, 2010 - Mathematics - 366 pages.

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Scientific Computing with MATLAB Author: Alfio Quarteroni, Fausto Saleri Published by Springer Berlin Heidelberg ISBN: 978-3-540-20837-2 DOI: 10.1007/978-3-642-59339-0 Table of Contents: What can't be ignored Nonlinear equations Approximation of functions and data Numerical differentiation and integration Linear systems Eigenvalues and eigenvectors

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