

| | X | Y | Z |
|---|-------------------------------------|--|--|
| separator | | | |
| .' (transpose) / permute | rot90 | system | full |
| for | repmat | repelem (run-length decoding) | blanks |
| # specify outputs | display stack (debug) | sound, soundsc, audiowrite | fopen, fwrite, fclose |
| \$ specify inputs | | char(vpa(...)) | fopen, fread, fclose |
| % comment | class | cast | typecast |
| & alternative default input/output spec | intersect | and | bitand |
| Not used. String delimiter | | run-length encoding | now / clock |
| () assignment indexing / split | { } assignment indexing | () assignment ind. with final : / split | () assignment ind. with initial : / split |
| () reference indexing | { } reference indexing | () reference ind. with final : | () reference ind. with initial : |
| * Cartesian product | kron | matrix product | Cartesian product |
| + conv2(..., 'same') | | conv2 | conv2(..., 'same') |
| - tan | cos | sin | |
| - setdiff | setdiff | deconv | |
| break | continue | pause | bitget |
| / angle | | matrix / | unwrap |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | predefined literals | |
| Not used | predefined literals | | |
| Not used | predefined literals | | |
| : | colon (range) | comma-separated list | bitset |
| acos | | asin | atan2 |
| < cummin | min | cummin | |
| == isequal | isequal | strcmp | |
| > cummax | max | cummax | |
| ? why | if | why | sparse |
| @ push "for" value / "while" index | push "for" index | perms | randperm |
| all | all(..., 1) | dec2base. Larger base, any symbols | base2dec. Larger base, any symbols |
| B logical(dec2bin(...)'0') | bin2dec(char(...'0')) | dec2bin | bin2dec |
| C histcounts | | im2col | im2col(..., 'distinct') |
| D disp(num2str(..., ...)) / mat2str | disp(num2str(...)) | sprintf / fprintf | disp |
| E multiply by 2 | replace elements in array | | |
| F Not used. False (literal) | | exponents of prime factorization | |
| G Paste from clipboard G (user-input) | plot | imwrite / imagesc / image / imshow | appearance of graphics / format |
| H Paste from clipboard H | Copy to clipboard H | | |
| I Paste from clipboard I | Copy to clipboard I | col2im | |
| J Paste from clipboard J | Copy to clipboard J | | |
| K Paste from clipboard K | Copy to clipboard K | | |
| L Paste from clipboard L (multi-level) | Copy to clipboard L (multi-level) | gallery | |
| M Paste from clipboard M (function-input) | mode | | |
| N stack size | nchoosek (array) | NaN | isnan |
| O zeros | datestr | datenum | datevec |
| P flip | flipud | pi | pdist2 |
| Q increment by 1 | accumarray | | polyval / roots / polyfit |
| R triu | triu(...,1) / build matrix | tril | tril(...,-1) / build matrix |
| S sort | sortrows | circshift | sign |
| T Not used. True (literal) | | toeplitz | |
| U str2num / string to array / square | str2double | | |
| V num2str | | | |
| W 2 raised to input | | | |
| X Not used | regexp | regexprep | |
| Y Not used | | inf | isinf |
| Z Not used | | | |
| [Not used. Array delimiter | ind2sub | | |
| mod | mod(...-1)+1 | matrix \ | divisors |
|] end (loops or conditional branches) | sub2ind | | |
| .^ | sqrt | matrix ^ | Cartesian power |
| - unary minus | | | |
| do...while | while | tic | toc |
| a any | any(..., 1) | padarray / unpad array | base2base |
| b bubble | | strsplit | |
| c char (also for cell array) | cat | strcat | strjoin |
| d diff | diag / spdiags | blkdiag | gcd |
| e reshape / squeeze | | | exp |
| f find | strfind | factor | |
| g logical / cell2mat | ndgrid | gamma / gammaln / betainc | gammaln / betaln |
| h horzcat | {...; ...} | hankel | hypergeom |
| i input | urlread | imread | |
| j input(...,'s') | real | imag | conj / real and imag |
| k lower / floor | upper / ceil | closest values | |
| l ones | clamp (limit to a range) | log. With two inputs, specifies base | log2 |
| m ismember | ismember(...,'rows') | mean | lcm |
| n numel / size | nchoosek (numbers) / multinomial c. | poly / interp1 | |
| o double / cell array to numeric / parity | int64 | round / change case | fix |
| p prod | prod(..., 1, ...) | cumprod | isprime / totient function |
| q decrement by 1 | quantile | n-th prime / next prime | primes |
| r rand | randn | randi | randsample |
| s sum | sum(..., 1, ...) | cumsum | std / cov |
| t duplicate elements | | | strrep |
| u unique | unique(...,'rows') | | strjust |
| v vertcat | | eig / svd / strtrim | deblank / symmetric range |
| w swap | | | |
| x delete from stack | clc | | |
| y duplicate element | eye | hypot | size |
| z nnz | nonzeros / remove whitespace | | |
| { Not used. Cell array delimiter | num2cell | mat2cell | mat2cell(x,ones(size(x,1),1),size(x,2)) |
| abs / norm / determinant | union | or | bitor |
| else / finally | | | split array |
| ~ Not | setxor | xor | bitxor |