>> a = 5

a =

 5

>> b=2

b =

 2

>> c=1.5

c =

 1.5000

>> c=a+b

c =

 7

>> c=b-a

c =

 -3

>> c=cos(a)

c =

 0.2837

>> cos(b)

ans =

 -0.4161

>> d=a\*b

d =

 10

>> d=a\*\*B

 d=a\*\*B

 ↑

Invalid use of operator.

>> d=a\*\*b

 d=a\*\*b

 ↑

Invalid use of operator.

>> d=a^b

d =

 25

>> a=[2 4 6 8]

a =

 2 4 6 8

>> type(a)

Error using type

Arguments must be character vectors or strings

>> b=[1 3; 2 4]

b =

 1 3

 2 4

>> z=zers(3,1)

Unrecognized function or variable 'zers'.

Did you mean:

>> z=zeros(3,1)

z =

 0

 0

 0

>> a

a =

 2 4 6 8

>> b

b =

 1 3

 2 4

>> b+3

ans =

 4 6

 5 7

>> tan(b)

ans =

 1.5574 -0.1425

 -2.1850 1.1578

>> a'

ans =

 2

 4

 6

 8

>> b'

ans =

 1 2

 3 4

>> b

b =

 1 3

 2 4

>> p=b\*b'

p =

 10 14

 14 20

>> p=b\*inv(b)

p =

 1 0

 0 1

>> format long

>> p=b\*inv(b)

p =

 1 0

 0 1

>> p=b\*2

p =

 2 6

 4 8

>> p=b.\*b

p =

 1 9

 4 16

>> b

b =

 1 3

 2 4

>> p=b\*b

p =

 7 15

 10 22

>> b.^4

ans =

 1 81

 16 256

>> B=[b,b]

B =

 1 3 1 3

 2 4 2 4

>> B=[b;b]

B =

 1 3

 2 4

 1 3

 2 4

>> sqrt(-1)

ans =

 0.000000000000000 + 1.000000000000000i

>> format short

>> sqrt(-1)

ans =

 0.0000 + 1.0000i

>> C=[1+i, 2-2i;3+3j,4-4j]

C =

 1.0000 + 1.0000i 2.0000 - 2.0000i

 3.0000 + 3.0000i 4.0000 - 4.0000i

>> A=[1 3 5 7 9, 0 2 4 6 8,11 13 15 17 19, 10 12 14 16 18]

A =

 Columns 1 through 7

 1 3 5 7 9 0 2

 Columns 8 through 14

 4 6 8 11 13 15 17

 Columns 15 through 20

 19 10 12 14 16 18

>> A=[1 3 5 7 9; 0 2 4 6 8;11 13 15 17 19; 10 12 14 16 18]

A =

 1 3 5 7 9

 0 2 4 6 8

 11 13 15 17 19

 10 12 14 16 18

>> A(3,4)

ans =

 17

>> A(4,3)-14

ans =

 0

>> A(1)

ans =

 1

>> A(6)

ans =

 2

>> A(5)

ans =

 3

>> A(3)

ans =

 11

>> t=A(6,6)

Index in position 1 exceeds array bounds (must

not exceed 4).

>> A(6,6)=30

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 0

 0 0 0 0 0 30

>> A(6,5)=30

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 0

 0 0 0 0 30 30

>> A(5,6)=30

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 30

 0 0 0 0 30 30

>> B=[1 2 3;4 5 6;7 8 9]

B =

 1 2 3

 4 5 6

 7 8 9

>> B(4,4)=10

B =

 1 2 3 0

 4 5 6 0

 7 8 9 0

 0 0 0 10

>> A(6,6)=A(6,5)=0

 A(6,6)=A(6,5)=0

 ↑

Incorrect use of '=' operator. Assign a value

to a variable using '=' and compare values for

equality using '=='.

>> A(6,6)=

 A(6,6)=

 ↑

Error: Invalid expression. Check for missing or

extra characters.

>> A(6,6)=0

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 30

 0 0 0 0 30 0

>> A(6,5)=0

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 30

 0 0 0 0 0 0

>> A

A =

 1 3 5 7 9 0

 0 2 4 6 8 0

 11 13 15 17 19 0

 10 12 14 16 18 0

 0 0 0 0 0 30

 0 0 0 0 0 0

>> B(1:3,3)

ans =

 3

 6

 9

>> B(2,:)

ans =

 4 5 6 0

>> C=0:3:30

C =

 Columns 1 through 7

 0 3 6 9 12 15 18

 Columns 8 through 11

 21 24 27 30

>> C=0:3:30

C =

 Columns 1 through 10

 0 3 6 9 12 15 18 21 24 27

 Column 11

 30

>> A=magic(3)

A =

 8 1 6

 3 5 7

 4 9 2

>> B=rand(1,2,3)

B(:,:,1) =

 0.6753 0.0067

B(:,:,2) =

 0.6022 0.3868

B(:,:,3) =

 0.9160 0.0012

>> B

B(:,:,1) =

 0.6753 0.0067

B(:,:,2) =

 0.6022 0.3868

B(:,:,3) =

 0.9160 0.0012

>> save myfile.mat

>> load myfile.mat

>> A

A =

 8 1 6

 3 5 7

 4 9 2

>> t="Hello world!"

t =

 "Hello world!"

>> t=""Hello "world!"""

 t=""Hello "world!"""

 ↑

Invalid expression. Check for missing multiplication operator,

missing or unbalanced delimiters, or other syntax error. To

construct matrices, use brackets instead of parentheses.

>> t="Something and ""another"" something"

t =

 "Something and "another" something"

>> whos t

 Name Size Bytes Class Attributes

 t 1x1 214 string

>> C=27

C =

 27

>> K=C+273

K =

 300

>> temptext= "Temperature is "+K+"K

 temptext= "Temperature is "+K+"K

 ↑

Error: String is not terminated properly.

>> temptext= "Temperature is " +K+ "K"

temptext =

 "Temperature is 300K"

>> temptext= "Temperature is "+K+"K"

temptext =

 "Temperature is 300K"

>> A=["a","bbb","ccccc"]

A =

 1×3 string array

 "a" "bbb" "ccccc"

>> strlength(A)

ans =

 1 3 5

>> seq='ABCDEFGHIJK':

 seq='ABCDEFGHIJK':

 ↑

Error: Invalid expression. Check for missing or extra

characters.

>> seq='ABCDEFGHIJK';

>> whos seq

 Name Size Bytes Class Attributes

 seq 1x11 22 char

>> seq(5)

ans =

 'E'

>> seq2=[seq 'LMNOPQRSTUVWXYZ']

seq2 =

 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'>> A=[2 4 6 8]

A =

 2 4 6 8

>> max(A)

ans =

 8

>> B=[1 3 5 7];

>> max(A,B)

ans =

 2 4 6 8

>> B=[7 5 3 1]

B =

 7 5 3 1

>> max(A,B)

ans =

 7 5 6 8

>> maxA=Max(A)

Unrecognized function or variable 'Max'.

Did you mean:

>> maxA=max(A)

maxA =

 8

>> [maxA,location]=max(A)

maxA =

 8

location =

 4

>> disp('Hello world!')

Hello world!

>>clc

>> x=0:pi/50:2\*pi;

>> y=cos(x);

>> plot(x,y)

>> xlabel('x')

>> ylabel('cos(x)')

>> title('PLot of the Cosine Function')

>> plot(x,y,r-)

 plot(x,y,r-)

 ↑

Invalid expression. When calling a function or indexing a

variable, use parentheses. Otherwise, check for mismatched

delimiters.

>> plot(x,y,r--)

 plot(x,y,r--)

 ↑

Invalid expression. When calling a function or indexing a

variable, use parentheses. Otherwise, check for mismatched

delimiters.

>> plot(x,y,'r--')

>> plot(x,y,'r--')

>> title('Plot of the Cosine Function')

>> xlabel('x')

>> ylabel('cos(x)')



>> x=0:pi/50:2\*pi;

>> y=sin(x);

>> plot (x,y)

>> hold on

>> y2=cos(x);

>> plot(x,y2,':')

>> legend('sin','cos')

>> hold off



>> [X,Y]=meshgrid(-2:.2:2);

>> Z=X.\*exp(-X.^2-Y.^2);

>> surf(X,Y,Z)



>> t=0:pi/5:2\*pi;

>> [X,Y,Z]=cylinder(3\*sin(t));

>> subplot(2,2,1); mesh(X); title('X');

>> subplot(2,2,2); mesh(Y); title('Y');

>> subplot(2,2,3); mesh(Z); title('Z');

>> subplot(2,2,4); mesh(X,Y,Z); title('X,Y,Z');



>> edit mysphere

 [x,y,z]=sphere;

r=2;

surf(x\*r,y\*r,z\*r)

axis equal

A=4\*pi\*r^2;

V=(4/3)\*pi\*r^3;

>> mysphere



>> edit newfile.mlx

 N=100;

f(1)=1;

f(2)=1;

for n=3:N

 f(n)=f(n-1)+f(n-2);

end

f(1:12)

>> newfile

ans =

 Columns 1 through 10

 1 1 2 3 5 8 13 21 34 55

 Columns 11 through 12

 89 144

 num=randi(100)

if num<34

 sz='low'

elseif num<67

 sz='medium'

else

 sz='high'

end

>> newfile

num =

 47

sz =

 'medium'

>> newfile

num =

 43

sz =

 'medium'

>> newfile

num =

 47

sz =

 'medium'

>> newfile

num =

 78

sz =

 'high'

>> doc mean

>> mean(

 mean(

 ↑

Invalid expression. When calling a function or indexing a

variable, use parentheses. Otherwise, check for mismatched

delimiters.

Did you mean:

>> help mean

 mean Average or mean value.

 S = mean(X) is the mean value of the elements in X if X is a vector.

 For matrices, S is a row vector containing the mean value of each

 column.

 For N-D arrays, S is the mean value of the elements along the first

 array dimension whose size does not equal 1.

 mean(X,'all') is the mean of all elements in X.

 mean(X,DIM) takes the mean along the dimension DIM of X.

 mean(X,VECDIM) operates on the dimensions specified in the vector

 VECDIM. For example, mean(X,[1 2]) operates on the elements contained

 in the first and second dimensions of X.

 S = mean(...,OUTTYPE) specifies the type in which the mean is performed,

 and the type of S. Available options are:

 'double' - S has class double for any input X

 'native' - S has the same class as X

 'default' - If X is floating point, that is double or single,

 S has the same class as X. If X is not floating point,

 S has class double.

 S = mean(...,NANFLAG) specifies how NaN (Not-A-Number) values are

 treated. The default is 'includenan':

 'includenan' - the mean of a vector containing NaN values is also NaN.

 'omitnan' - the mean of a vector containing NaN values is the mean

 of all its non-NaN elements. If all elements are NaN,

 the result is NaN.

 Example:

 X = [1 2 3; 3 3 6; 4 6 8; 4 7 7]

 mean(X,1)

 mean(X,2)

 Class support for input X:

 float: double, single

 integer: uint8, int8, uint16, int16, uint32,

 int32, uint64, int64

 See also median, std, min, max, var, cov, mode.

 Documentation for mean

 Other functions named mean