MATLAB - APPENDING VECTORS

http://www.tutorialspoint.com/matlab/matlab vector appending.htm

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MATLAB allows you to append vectors together to create new vectors.

If you have two row vectors r1 and r2 with n and m number of elements, to create a row vector r of n plus m elements, by appending these vectors, you write —

```
r = [r1, r2]
```

You can also create a matrix r by appending these two vectors, the vector r2, will be the second row of the matrix –

```
r = [r1;r2]
```

However, to do this, both the vectors should have same number of elements.

Similarly, you can append two column vectors c1 and c2 with n and m number of elements. To create a column vector c of n plus m elements, by appending these vectors, you write —

```
c = [c1; c2]
```

You can also create a matrix c by appending these two vectors; the vector c2 will be the second column of the matrix —

```
c = [c1, c2]
```

However, to do this, both the vectors should have same number of elements.

Example

Create a script file with the following code -

```
r1 = [ 1 2 3 4 ];

r2 = [5 6 7 8 ];

r = [r1,r2]

rMat = [r1;r2]

c1 = [ 1; 2; 3; 4 ];

c2 = [5; 6; 7; 8 ];

c = [c1; c2]

cMat = [c1,c2]
```

When you run the file, it displays the following result -

```
r =

Columns 1 through 7:

1 2 3 4 5 6 7

Column 8:

8

rMat =

1 2 3 4
5 6 7

c =
```

	1 2 3 4 5 6 7		
cMat =	1 2 3 4	5 6 7 8	