

2-D arrays

rows array.length

columns array[0].length

to construct array m rows n cols
double[][] array = new double[m][n];

loop - old

```
for (int r = 0; r < array.length; r++)  
    for (int c = 0; c < array[0].length;  
        c++)
```

:

loop - enhanced:

```
for (double[] r : array)  
    for (double d : r)  
        (element is d)
```