
Arrays and ArrayLists

CS 1110/1111 – Introduction to Programming
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Some slides courtesy Addison-Wesley / Tony Gaddis

Two-Dimensional Arrays

- A two-dimensional array is an array of arrays.
- It can be thought of as having rows and columns.

	column 0	column 1	column 2	column 3
row 0				
row 1				
row 2				
row 3				

Two-Dimensional Arrays

- Declaring a two-dimensional array requires two sets of brackets and two size declarators
 - The first one is for the number of rows
 - The second one is for the number of columns.

```
double[][] scores = new double[3][4];
```

two dimensional array

rows

columns

- The two sets of brackets in the data type indicate that the scores variable will reference a two-dimensional array.
- Notice that each size declarator is enclosed in its own set of brackets.