

Re: Vector Table

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.cpp/2004-12/0770.html

From: Howard (alicebt_at_hotmail.com)

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"kittykat" <f_ariakat@nospam.hotmail.com> wrote in message
news:7dbab6890c631f1d8cf2079a4a68f71a@localhost.talkaboutprogramming.com...

> *Do all the elements of a Vector Table? have to be of the same data type?*

> *for example, could it have rows with letters, and columns with integers?*

>

> 0 1 2 3 4 5 6

> A

> B

> C

> D

>

You're not making much sense here. What's a "Vector Table"? What you're showing above is a display of "headers" for columns and rows of some sort of data table. But there is no data displayed in any of the "cells". Your questions ask about two unrelated things.

"Do all elements have to be the same type?" Well, that depends upon what you mean by "type". You can store strings in the cells, and those strings can be numbers or letters or punctuation or whatever. Alternatively, you can have a vector of vectors (or an array of arrays, if you want to do things the hard way and not make use of the std classes). Then, each vector can hold a given type of data (such as integer, string, char, double). Or, you can store a base class object in every cell, and let polymorphism handle the details of what's in the cell and how to display it.

But none of that has anything to do with "rows" or "columns". That's all up to how you output the data (to a screen, for example). You merely write out the data however you want. Just because you have an array X[4][5] doesn't mean there are four "rows" and five "columns", or vice-versa. You're free to display those however you want.

And how you display the "headers" for those rows or columns is also completely up to you. You don't even have to store that information anywhere. When outputting the data, you can simply write the "column" index across the top of the page, and when writing each row out, you can simply add the "row" index to the value for the letter 'A' to generate the other

letters.

The important thing is really what you're trying to display as data in the actual cells, which you haven't said.

–Howard