

Managing Multiple Values by Andrew Cain		
Act I: Set up the story		
The setting	Computers are unintelligent, but can process data quickly	
The protagonist	Developers need tools to make it possible to process lots of data	
The imbalance	Variables can store data, but lots of data?	
The balance	With the right tools processing lots of data is a simple loop away...	
The solution	Use arrays to store multiple values in a single variable	
Act II: Develop the action		
5-Minute Column	15-Minute Column	45-Minute Column
See how arrays can be used to store and retrieve multiple values	An array is a variable that stores multiple values	
	Assignment statements can be used to store values in arrays	
	You can read values from an array within an expression	
Define actions for <b>each</b> element of an array with little code using a <b>for</b> loop	The for loop can be used to process each element from the array	
	Arrays should be passed by reference... they are usually large	
	Strings are a good example of arrays, a string is an array of characters	
Put these concepts to practice by using arrays in your own programs	Create arrays to store multiple values	
	Use functions and procedure to manipulate these values	
	Use for loops to easily process each element of your array	
Turning point	Will you be able to process large amounts of data in your programs?	
Act III: Frame the resolution		
The crisis	Computers process data quickly, but plain variables need too much code...	
The solution	Use arrays to store multiple values in a single variable	
The climax	Arrays make processing lots of data a simple loop away	
The resolution	Start using arrays and for loops in your programs	