

Stack vs Heap Pros and Cons

So how do the two structures fair against each other? The trick is to know where to appropriately use them. This lesson lists the pros and cons for both.

Stack	Heap
very fast access	(relatively) slower access
local variables only	variables can be accessed globally
limit on stack size (OS-dependent)	no limit on memory size
variables cannot be resized	variables can be resized using <code>realloc()</code>
don't have to explicitly de-allocate variables	you must manage memory (you're in charge of allocating and freeing variables)
space is managed efficiently by CPU, memory will not become fragmented	no guaranteed efficient use of space, memory may become fragmented over time as blocks of memory are allocated, then freed

With the theory out of the way, let's take a look at how the Stack and Heap work in code.