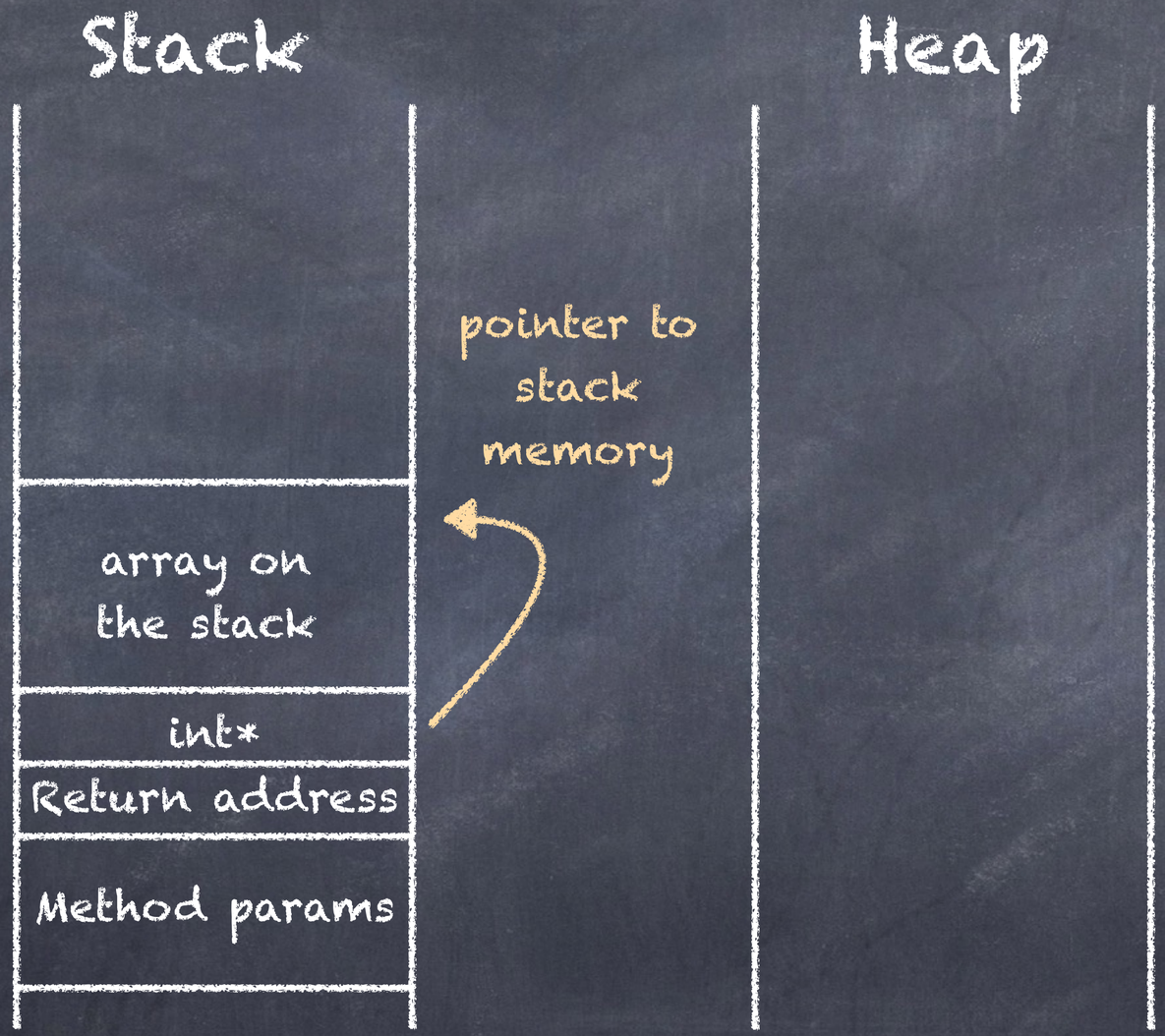
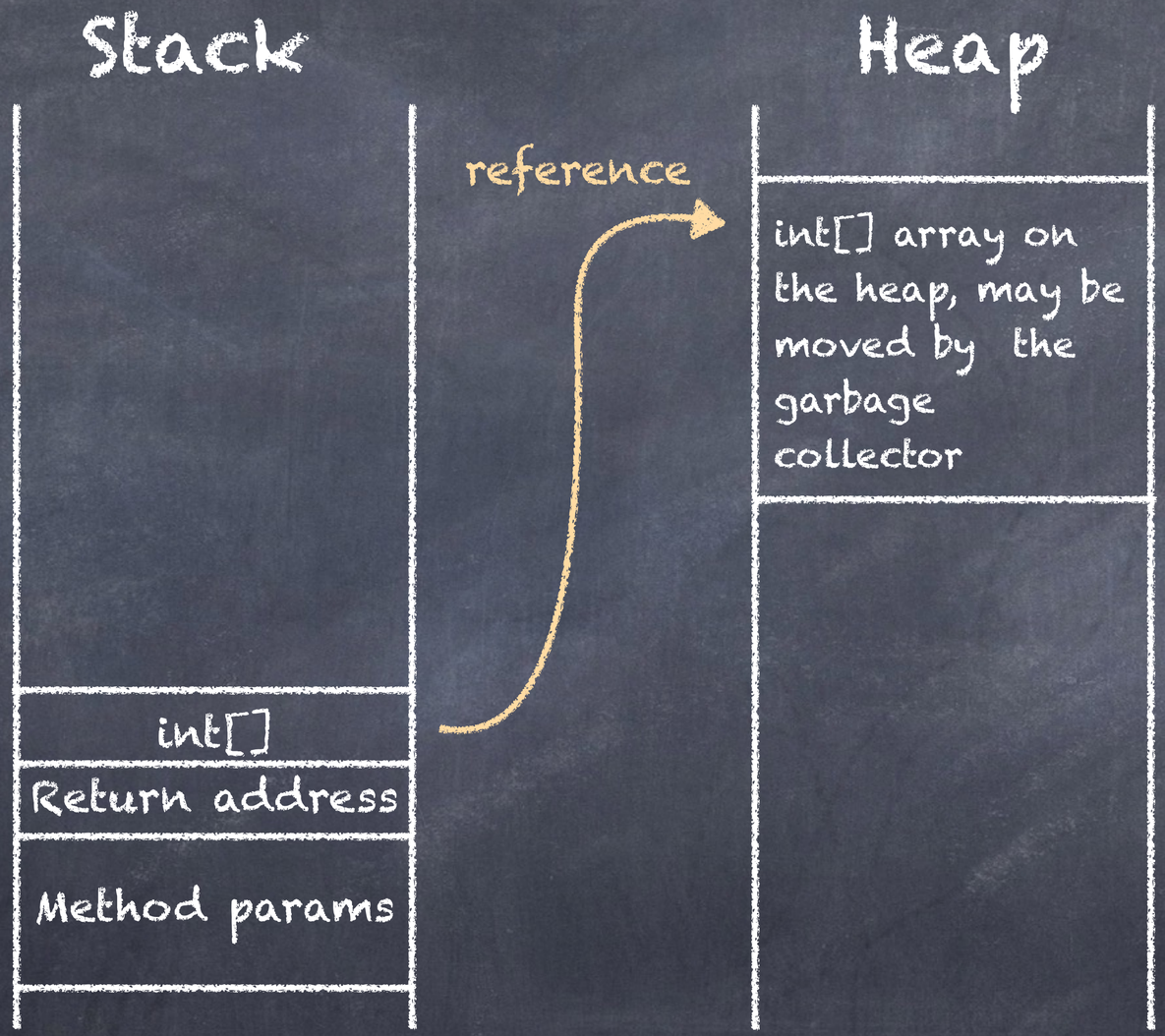
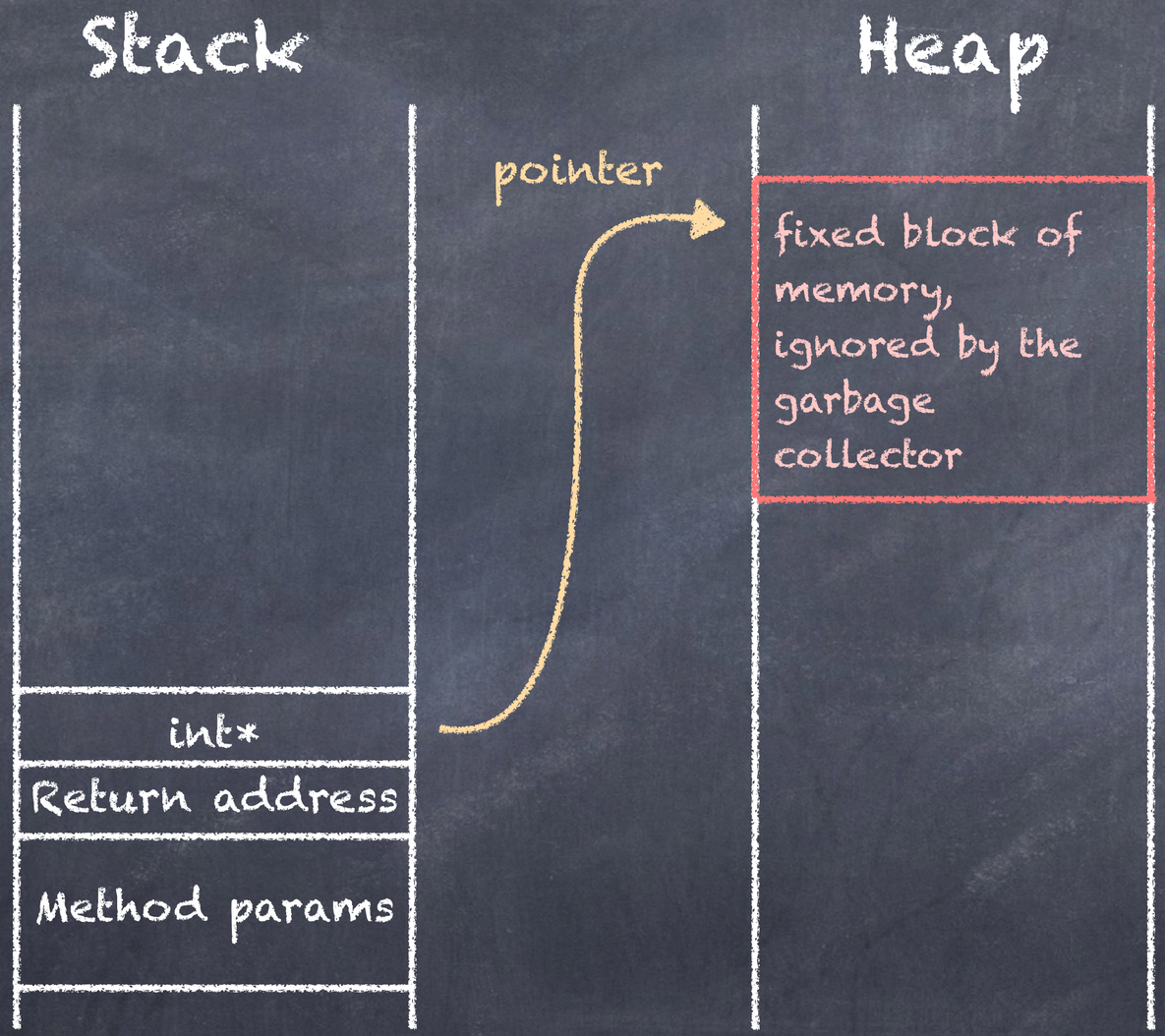
Arrays on the stack


Stack
Heap
pointer to stack memory
array on the stack
int*
Return address
Method params


Stack
Heap
reference
int[] array on the heap, may be moved by the garbage collector
int[]
Return address
Method params


Stack
Heap
pointer
fixed block of memory, ignored by the garbage collector
int*
Return address
Method params

Arrays on the stack

Don't use stack-based arrays to improve performance!

- Unreliable benefits, sometimes slower than native arrays
- Limited stack space available for data
- Results in unsafe code

Only use for interfacing with unmanaged code.