## Memory Management

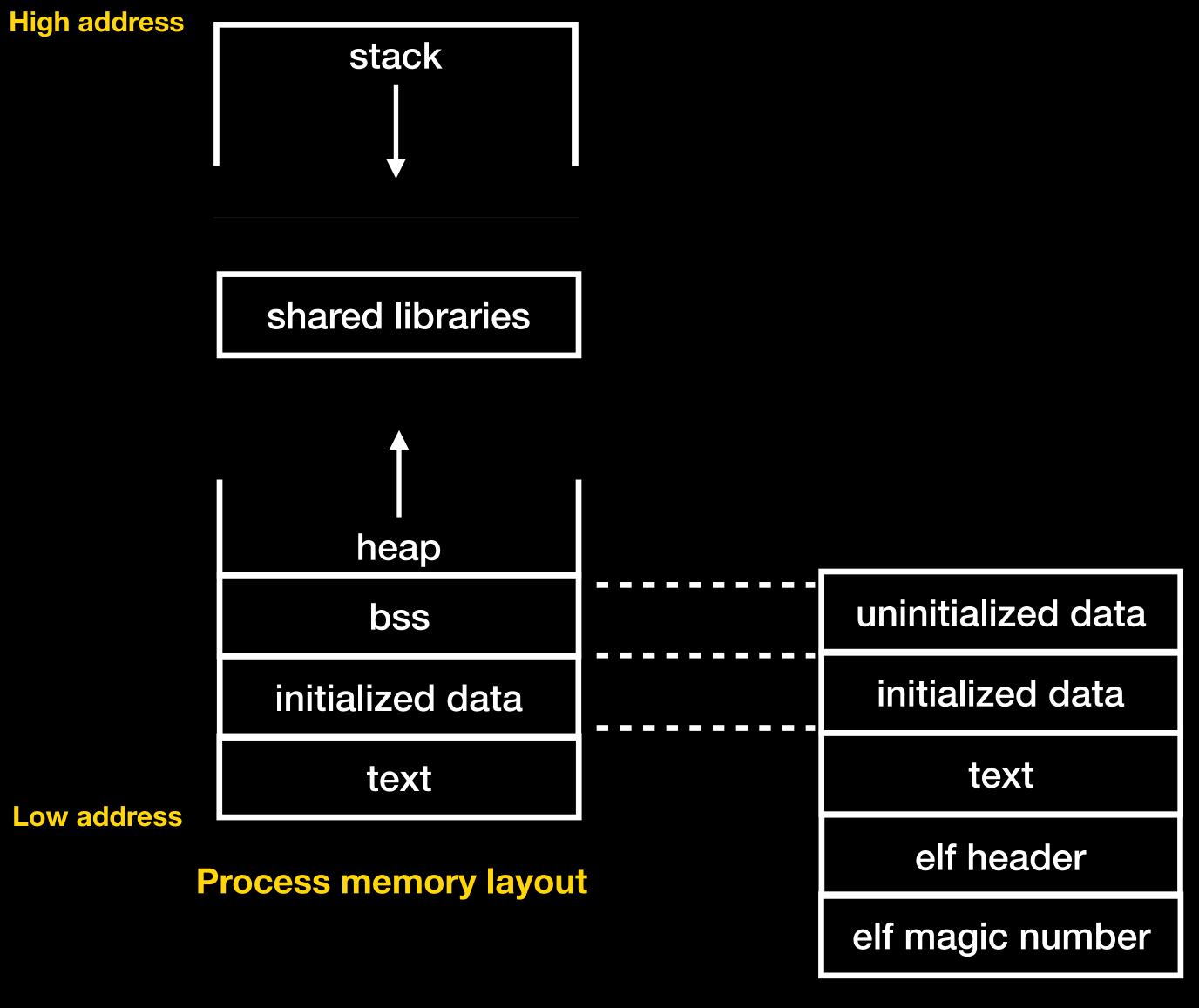
uninitialized data

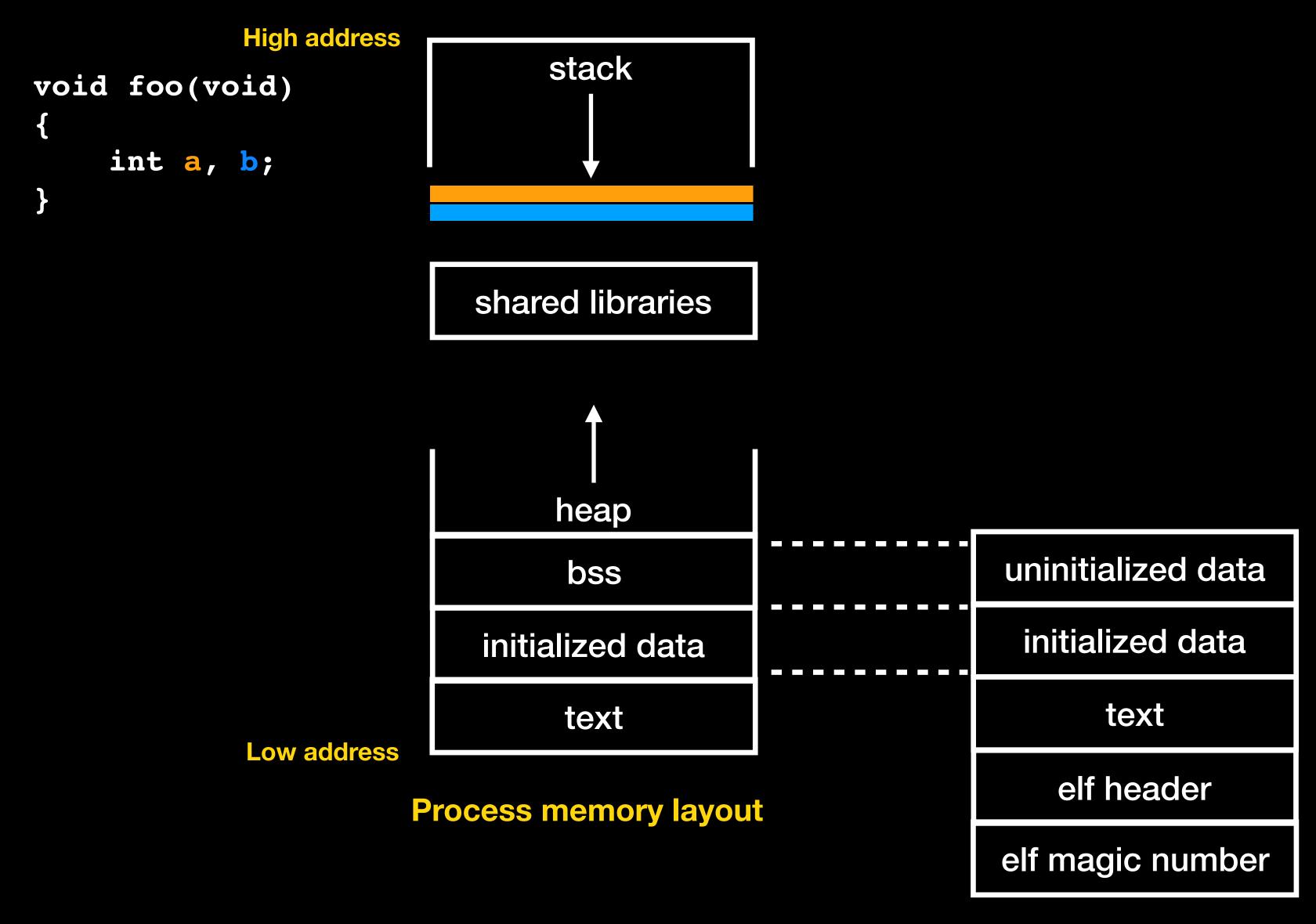
initialized data

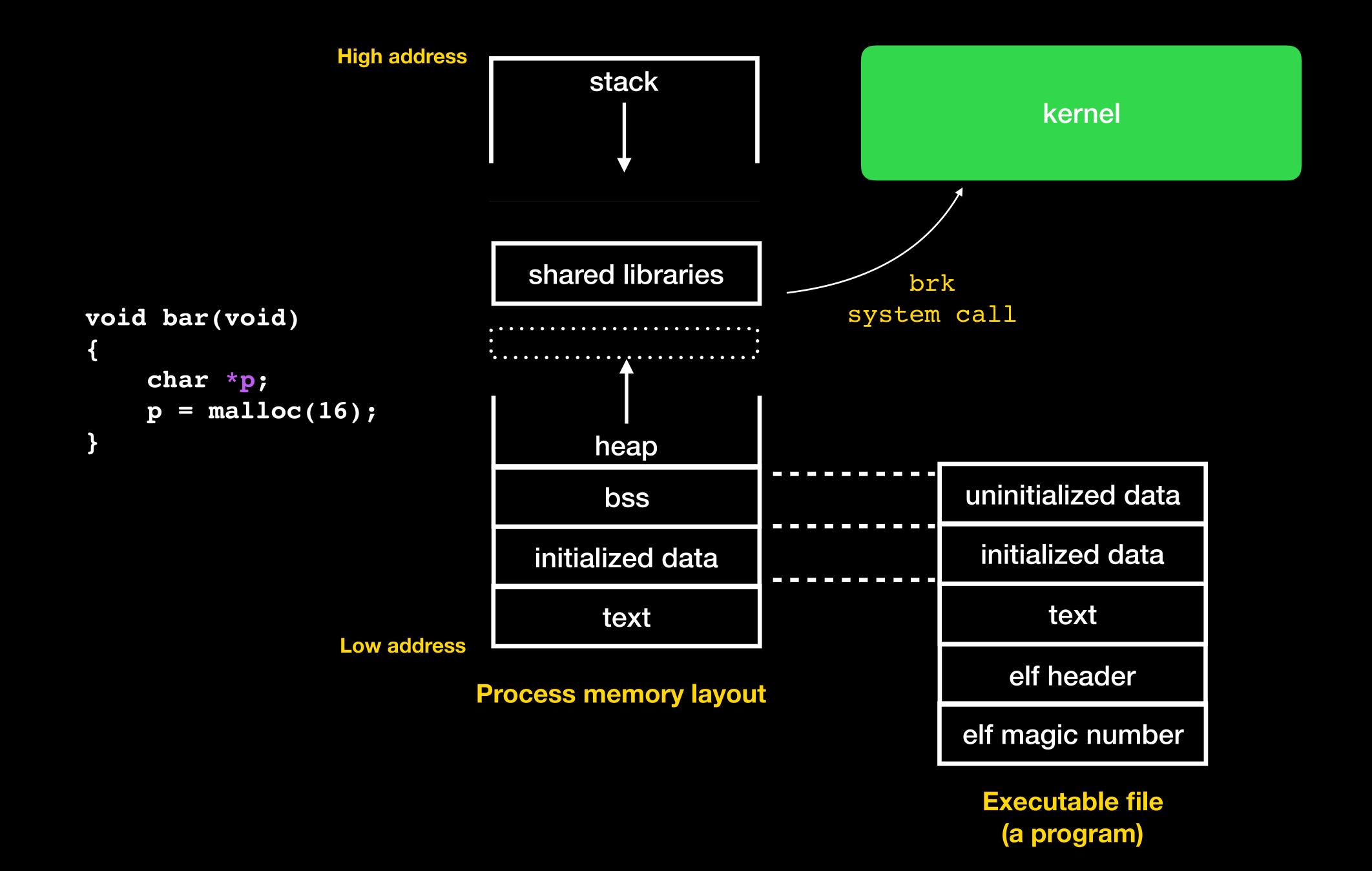
text

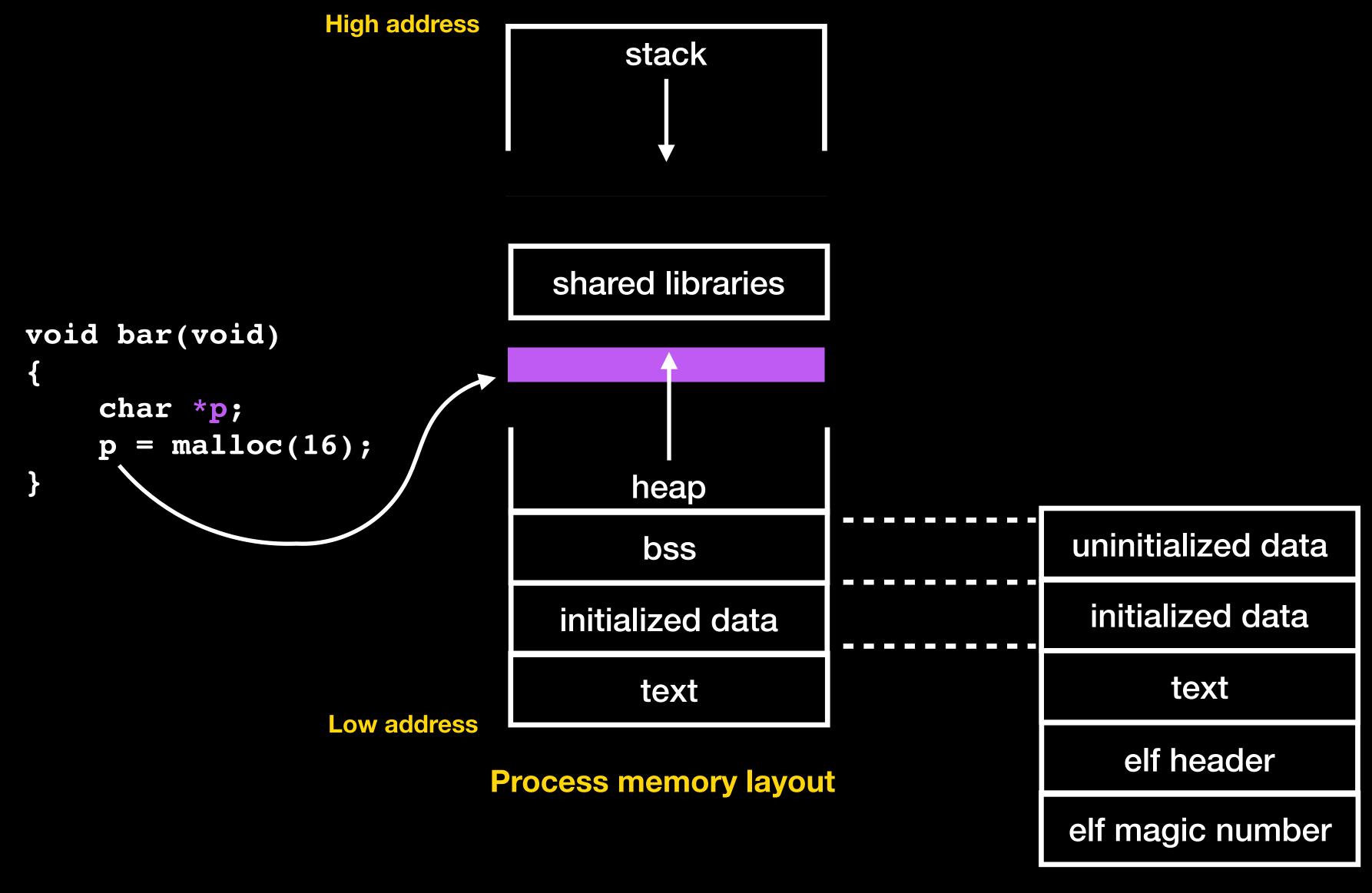
elf header

elf magic number

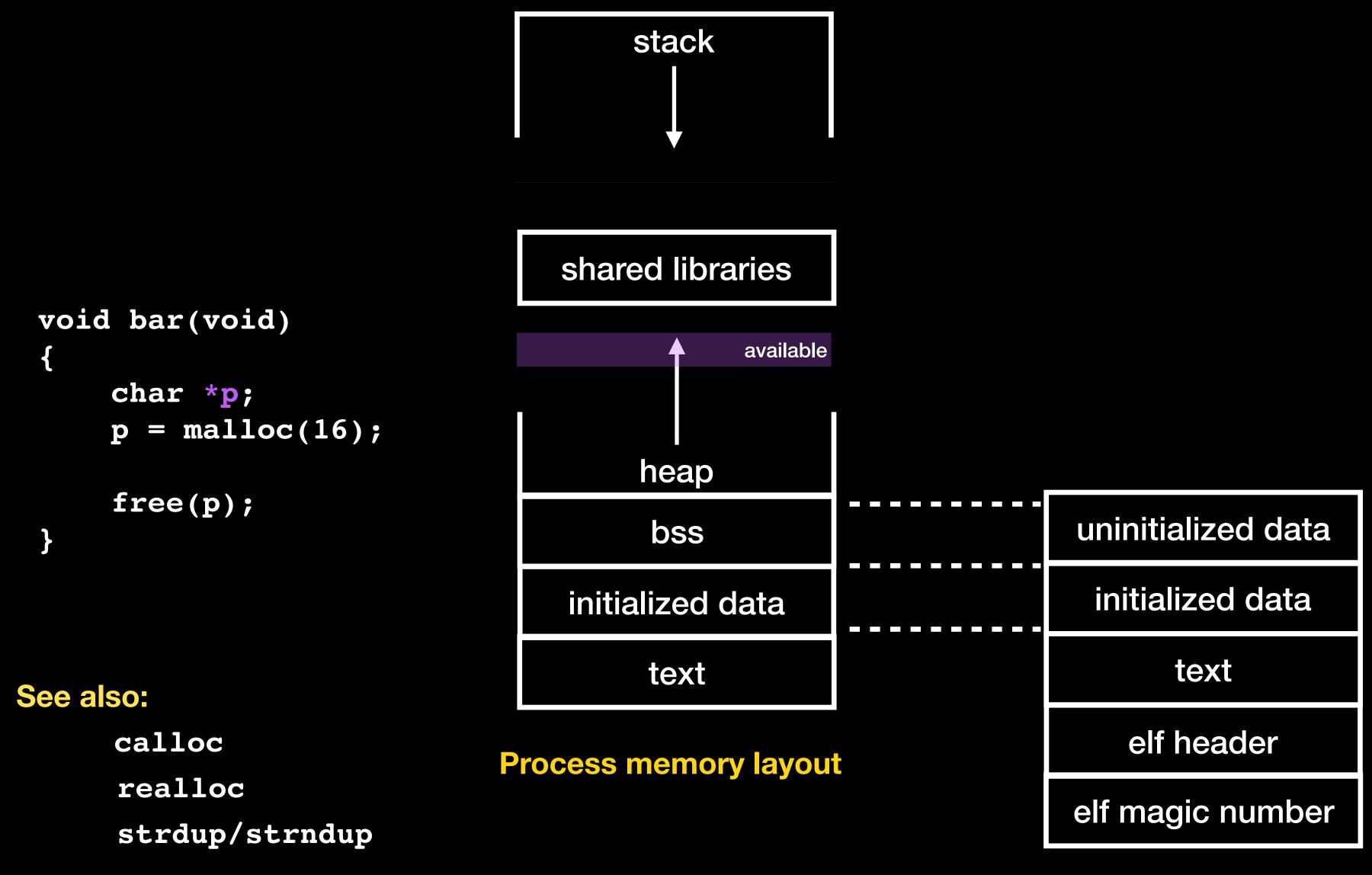


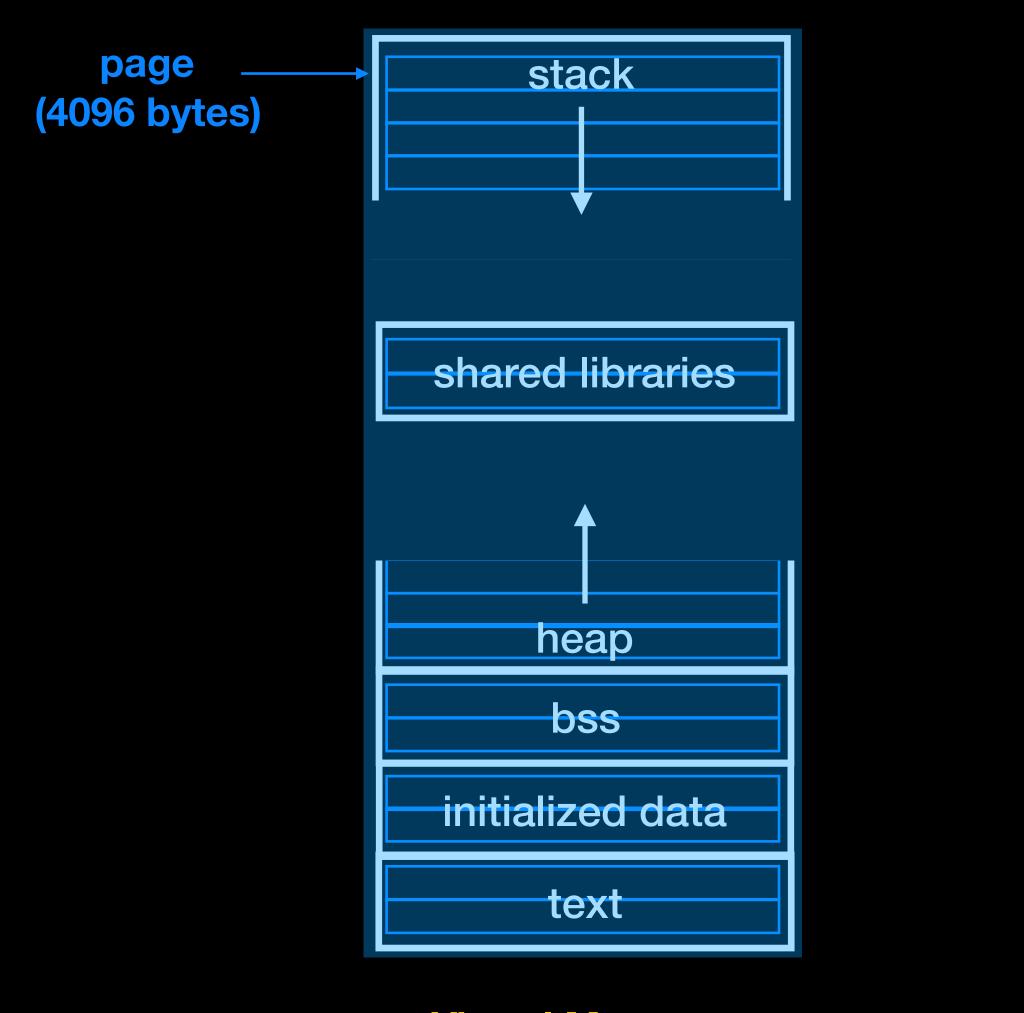






```
stack
                                 shared libraries
void bar(void)
                                             available
    char *p;
    p = malloc(16);
                                      heap
    free(p);
                                                                  uninitialized data
                                       bss
                                                                   initialized data
                                  initialized data
                                                                         text
                                       text
                                                                      elf header
                             Process memory layout
                                                                  elf magic number
```





Virtual Memory



**Physical Memory** 

