



COMMAND LINE ARGUMENTS

Command Line Interface (CLI)



INTERACTIVE COMPUTER INTERFACES

GRAPHICAL USER INTERFACE (GUI)

- Windows supporting
 - a pointing device for selecting
 - icons, menus, buttons, etc.
 - a keyboard
 - text

COMMAND LINE INTERFACE (CLI)

- Command Prompt or shells
- Commands are entered as text or strings
- The processor reads the command
- Runs built-in commands or runs a program
- Converts string arguments to appropriate types



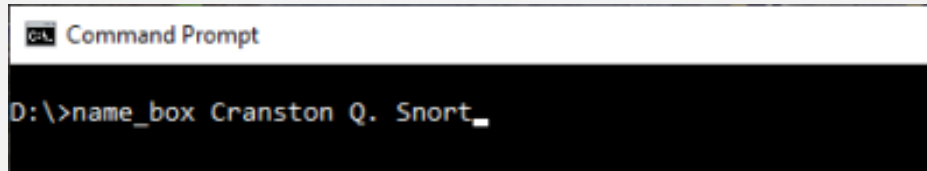
ARE CLI'S OBSOLETE?

- Perhaps for some end users
- CLIs are important for computer professionals
 - GUI icons are wrappers for CLI operations
 - Operating systems use a program's command line when they run it
 - Some programs do not have a GUI
 - Servers
 - Utilities



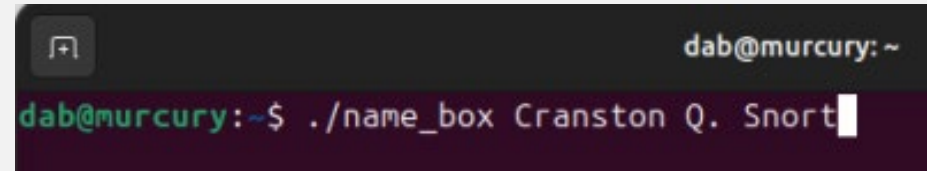
COMMAND LINE: USER SIDE

WINDOWS



```
C:\ Command Prompt
D:\>name_box Cranston Q. Snort_
```

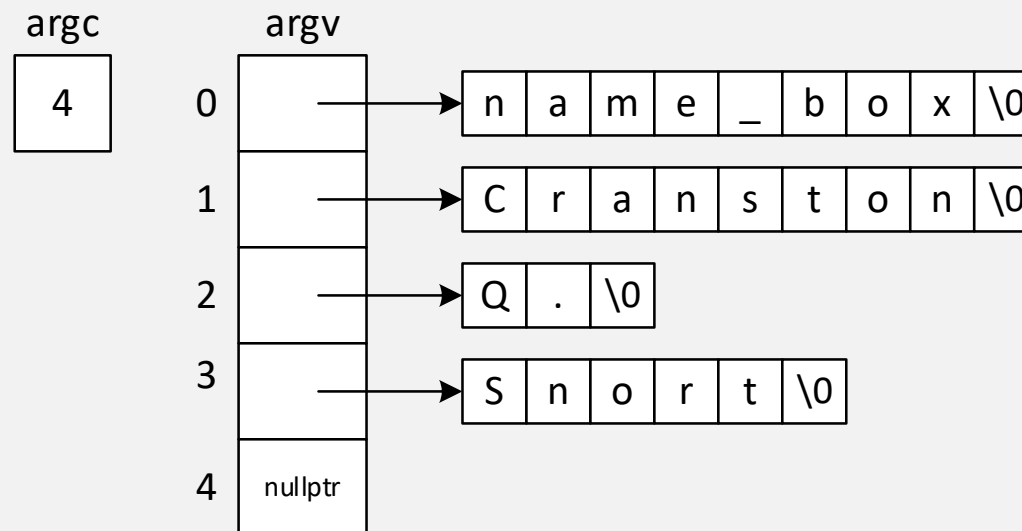
LINUX



```
dab@murcury: ~
dab@murcury:~$ ./name_box Cranston Q. Snort_
```

COMMAND LINE: SYSTEM SIDE

- D:\>name_box Cranston Q. Snort
- main(int argc, char* argv[])





PROCESSING COMMAND-LINE ARGUMENTS

```
#include <iostream>
using namespace std;

int main(int argc, char* argv[])
{
    cout << "argc is " << argc << endl;

    for (int i = 0; i < argc; i++)
        cout << "argv[" << i << "] is " << argv[i] << endl;

    return 0;
}
```