



COMMAND LINE TOOLS

PYTHON
PROGRAMMING



What will learn in this video

- What is CLI (command line interface) tool
- Advantages of CLI tools
- Examples of CLI Tools
- How to build CLI tool by python
- In the end I will create a sample tool in python

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```
C:\Windows\system32\cmd.exe

C:\Users\HP\Desktop\ShotsInfo>python shotsInfo.py -h
usage:

                        Usage:
                        Pass shots data in json format
                        and this will rerun the value from the query key.

                        -----
                        Description:
                        This tool will display shots information
                        -----

positional arguments:
  SHOT ID          Enter shot id. for example: sh001

optional arguments:
  -h, --help          show this help message and exit
  --key KEY, -k KEY   Optional: Enter query key for search information. for
                        example: status

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C:\Users\HP\Desktop\ShotsInfo>
```

Example

Command Line Interface Tools

A scary tools for very end users(Artists) because there is no user interface.

A computer program where user interact with lines of text commands.

CLI tools can be run in command prompt(Window) and Terminal(Linux, mac)

CLI tools are designed to be perform specific task by provide arguments by users.

Generally, System Admins and Technical Directors use these tools in workflow.

Anyone can use CLI tools with help and instructions provided (-h or --Help)

Advantages of Command Line Interface Tools

Very useful when you want to automate task by scripting.

Lightweight because no user interface library involved.

Can execute CLI tools in a schedules time (for example backup, or notifications)

No Human interaction required (No mouse clicks or keyboard inputs)

Using less RAM, CPU, GPU

Can run multiple instances of CLI tools on Threads

Examples of Command Line Interface Tools

ROBOCOPY

RSYNC

IPCONFIG (win) IFCONFIG(linux)

CP

MV

DATE

TIME

How to Build Command Line Interface Tools by Python

Option 01 - Using sys.argv

This is not a python package. This will return all arguments provided by use in list format.

Option 02 - Using argparse

Argparse is a python module and automatically generates help and usage messages and issues errors when users give the program invalid arguments

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