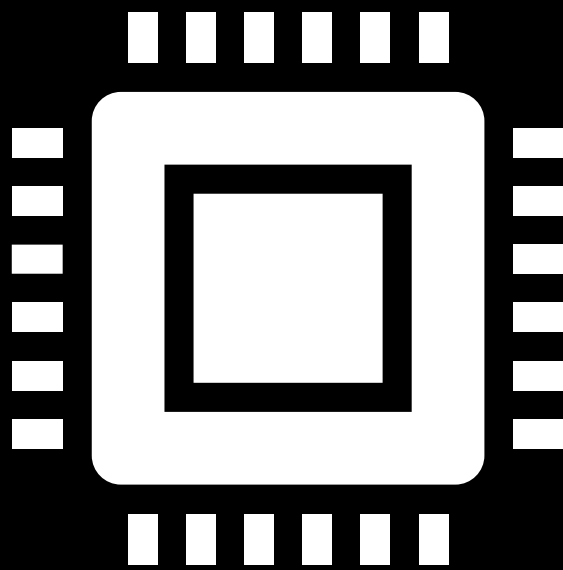


# **[KOS] System Operations Terminal**



**[User Manual]  
[Version 2.0]**

**Early Release**



## **[KOS] Terminal Version 2.0**

**This Program is an Early Release. Not all Planned features for the first release version have yet to be completed, this version offers limited use and is not representative of the final planned full release version.**

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## **I. Disclaimer:**

The author of the [KOS] Terminal program, Kurtis Stanistreet-Welsh, cannot guarantee that the software and the associated documentation are free from error. The author does not accept any responsibility for any loss or damage that may result from the use of this software. Any user that downloads this software accepts that they are solely responsible for any damage or loss that may result.

## **II. About [KOS] Terminal:**

[KOS] Terminal is part of the [KOS] System Operations family of software. This program is designed to help windows users use their systems more efficiently by allowing them to avoid using the windows operating system directly. Rather than using a mouse to click your way around your system, the [KOS] Terminal allows users to use a terminal interface, where users can enter commands rather than use the windows interface.

The ultimate goal for this program is to make the use of systems that have windows operating systems more efficient to use by their users.

### **III. Features List for [KOS] Terminal Version 9.5:**

#### Easy Installation:

- Easy download and installation. The program has an installation program to handle this aspect.
- Program is written in Python but no python is required as User version runs from an EXE file.

#### Easy Updating:

- Built-in updater allows users to easily upgrade their existing program versions to newer ones with relative ease.

#### User Assistance and Accessibility:

- Program uses tries to use intuitive commands that make it easy for newer terminal users to get a head start on using the terminal efficiently.
- In terminal help offered, users can see what commands are available and see brief summaries of what each command does.
- There is basic terminal customisation. allowing users to set terminal colours and the window size of the terminal easily.

#### [KOS] Open Software Integration:

- Ability to connect the terminal to other [KOS] Open Software programs, this feature will be heavily updated in the future.

#### Highly Functional:

- Ability to access other terminals from within the program window.
- Ability to create new Microsoft Office program documents, users can run word, excel and PowerPoint from within the program.
- Basic internet services provided, such as web searching and google searching.

## **IV. Planned Areas of Upgrade for Future Updates:**

### **[Internet Services]**

- Ability to save websites for easy user access later.
- More search options.

### **[Windows DIR Navigation Services]**

- Ability to navigate windows folders from within the [KOS] Terminal
- Advanced abilities to make folders, files, or office documents.
- Ability to save PATHs to the terminal.

### **[Office Assistant]**

- Ability to read documents without having to open them.
- Ability to write documents without having to use the Word interface.
- Advanced data handling by integrating with Excel.

### **[System Controls]**

- Ability to logoff, shutdown and restart system.
- Ability to manage programs that are running and other useful process controls.

### **[Internal Terminal Features]**

- Ability to make shortcuts for the terminal and other [KOS] Programs.
- Provide users with an exhaustive settings menu, which will give users unprecedented access to customisation and accessibility in using terminals.

### **[User Influence]**

- Ability for users to create custom commands:
  - First will be low level commands.
  - Later updates will aim to allow users to add [KOS] custom code to their custom commands.

## 1.0 Installation Instructions:

### 1.1 Installing [KOS] Terminal Version 2.0: General Users:

After downloading the [KOS]TerminalV2.0\_User\_Installer from [kosopensoftware.wordpress.com](http://kosopensoftware.wordpress.com), simply click on the application. Next, you will need to tell the installer where to put the program files. Once this is done the installer will place all the files in the correct place. Then enter the folder download area, enter the [KOS]ProgramFiles DIR and click on the [KOS]Terminal.exe application (This is the main application EXE). This should be everything and the program should run without issues.

### 1.2 Installing [KOS] Terminal Version 2.0: Developers:

After downloading the [KOS]TerminalV2.0\_Developer\_Installer from [kosopensoftware.wordpress.com](http://kosopensoftware.wordpress.com), simply click on the application. Next, you will need to tell the installer where to put the program files. Once this is done the installer will place all the files in the correct place. Then enter the folder download area, enter the [KOS]ProgramFiles DIR and click on the [KOS]Terminal.exe application (This is the main application EXE). This should be everything and the program should run without issues.

To run the python version of the program, the developer will need to ensure that the following python packages are installed:

os | shutil | datetime | subprocess | time | docx | ctypes | sys | re | copy | msvcrt |  
win32com.client | pythoncom

The Main.py or the run\_py.bat script is capable of running the program. The Main.py script is the highest priority script for running the program. The setup.py script may also be useful for developers; this script will create a desktop and file area shortcut for the program. If developers have issues with downloading python files or if the full python version does not run, then it may be easier to contact the KOS developer at:

[www.kosopensoftware.wordpress.com](http://www.kosopensoftware.wordpress.com) or email: [kosopensoftware@gmail.com](mailto:kosopensoftware@gmail.com)  
[kosopensoftware@outlook.com](mailto:kosopensoftware@outlook.com)

## **2.0 General Information for First-Time Users:**

### **2.1 First Time Running:**

When launching the [KOS] Terminal Program for the first time it will ask the user whether they wish to enable Ubuntu Services. If you have Ubuntu installed on your system, you can answer "yes" and you will then be able to access Ubuntu related commands, otherwise users should answer "no" if they do not have Ubuntu.

The program will make two shortcuts automatically, the first will appear in the [KOS] Terminals main DIRs and is called "[KOS]TerminalLauncher", the other will appear on the user's Desktop and is called "[KOS]Terminal". Either of these shortcuts can be used to quickly run the terminal program. Alternatively, users may want to run the program from within the "[KOS]ProgramFiles", for the user version the [KOS]Terminal.exe application should be the application that is ran. For developers, they can choose between either the "[KOS]Terminal.exe" or the "Main.py" files.

Once launched the program will check whether updates are present in the [KOS]UpdateArea and then will present the Terminal Input line icon "<KOS>", ready for user command inputs.

### **2.2 Inputting Commands:**

To input commands users simply enter commands anywhere they see the terminal icon "<KOS>". In some place's menus will appear, here the user should enter the number or letter that relates to the option in the menu they wish to be executed. Lastly, in some places the program will ask users questions or ask for inputs to be written, users should then input the information being requested or answer yes-no questions accordingly.

### **2.3 Viewing Available Commands:**

To see the full list of available and active commands, the user can enter "commands" into the terminal to view the full list. Alternatively, the user can enter "help" and this will list the commands and a brief summary of what each command will do. For detailed lists of commands and information on what each command does, users should refer to the appropriate areas of this manual.



## 2.4 Two Available Modes:

At the moment the terminal program can be ran in two different modes. By default, the terminal runs in "nmode", which stands for "Normal mode", this mode is a more traditional experience where only one string/command is entered into the terminal command line at a time. This mode tends to have less flexibility in how commands are executed and commands which require additional information from users will tend to ask for this after the users has first entered the correct command phrase. For example, to google search, first the user would enter "os/web", then pick the google option from the menu and finally then enter the string they wish to be searched. The difference in efficiency comes to light when using the "fmode". The "fmode" stands for "Fluid Mode" and is accessed by entering the "fmode" command into the command line. Users will know when they are in "fmode" as the normal "<KOS>" terminal input icon changes to "[f]<KOS>".

In fluid mode, users have more flexibility in how commands are executed, mostly because users can add the additional information that would normally be requested alongside the command. Returning to the google search example, in Fluid mode users can simply enter the "google" command followed by the set of strings they wish to be searched, no need for menus.

At the moment, there is little difference between the two modes, both modes will be developed into the future to offer the exact same features, but users will be able to choose between which mode they think is best for accessibility and efficiency. Although both modes will always offer the same features, they will likely start to drastically differ in how they go about delivering these features and how the program interacts with users.

## 3.0 [KOS] Commands:

### 3.1 [KOS] Terminal Specific Commands:(functionality and Accessibility)

These commands allow users to alter the terminal for accessibility or offer users functionality to the terminal.

**[help]:** This command will load up the help.data file. This file contains a brief summary of what each command does when executed. This file is useful when users know what each command does but have forgotten the exact command that needs to be entered. This command avoids having to refer to the user manual as often.

**[commands]:** This command will display a list of the available and active commands that users can use. These commands are listed in the commands.data file and are loaded into the terminal when the command is ran.

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**[fmode]:** This command will switch the terminal into "fmode", which stands for "Fluid Mode". This mode offers additional functionality in some cases and can increase efficiency for some users. To exit fmode, the user can enter "r" or "return" into the terminal input line. Alternatively, users can enter "q" to quit the program all together. An alternative way of exiting fmode would be to restart the terminal program.

**[cls (clear)]:** These commands will clear the terminal screen.

**[exit (quit, q, q!)]:** These commands will close the terminal program.

**[restart]:** This command will start a new instance of the terminal program but within the same terminal window, this saves time if a quick restart is required.

**[start (new)]:** These commands will instance a new terminal program in a new window and will close the current window that is open.

**[slim]:** This command changes the terminal window size, the terminal will appear as a thin bar.

**[norm]:** This command changes the terminal window size, the terminal will return to "normal", default size.

**[tiny]:** This command changes the terminal window size, the terminal will appear as a small box.

**[max]:** This command changes the terminal window size, the terminal will maximise to the full size of your computer size.

**[min]:** This command changes the terminal window size, the terminal will exit maximised mode by restarting the program which will return the terminal to a default window size.

**[os/colour]:** This command will bring up the terminal colour options menu. see 3.1.1 for further details on this menu.

#### 3.1.1 Terminal Colour Options Menu:

The user will be presented with a colour options menu. The user should type the colour options they wish to implement into the <KOS> input line. The first number/letter entered will determine the background colour of the terminal. The second number/letter entered will determine the colour of the onscreen text. Both the choice in background colour and onscreen text colour is to be entered at the same time when choosing options. For example, to set the background to white and the onscreen text to black, the user would enter "70".

### 3.2 Program Setting Commands:

#### Ubuntu Services:

Ubuntu is a program that allows windows users to operate a local Linux environment on their systems. If a user has this program downloaded then KOS can be linked up to this program and has some Ubuntu orientated commands that users can have access to, if these services are enabled. By default, the services are disabled, unless users enable them during the first time running of the terminal program.

**[settings/set/ubuntu=1]:** This command will enable Ubuntu services.

**[settings/set/ubuntu=0]:** This command will disable Ubuntu services.

### 3.3 Commands for System Operations:

These commands have not yet been added to this version of [KOS]Terminal. In future updates commands that allow users to log their systems off or shut them down will be added, along with other system controls.

### 3.4 Commands for Access to non-[KOS] Terminals:

If Ubuntu services are enabled, then users will be able to use Ubuntu related commands.

**[cmd]:** This command will run an instance of CMD.exe within the [KOS]Terminal window. Once users have finished their CMD related commands, they can enter "exit" and the CMD instance will close and users will be returned to the [KOS]Terminal interface.

**[cmd/new]:** This command will run an instance of CMD.exe outside the [KOS]Terminal window. Will run a CMD terminal in its own window. This feature allows users to have access to both a CMD terminal window and a [KOS] terminal at the same time.

**[os/terminal]:** This command will bring up the Terminal menu. This menu allows users to choose a terminal run options without entering commands. See x.x for further details on the options available in this menu.

#### Ubuntu Related Commands:

**[linux] or [ubuntu]:** This command will run an instance of Ubuntu.exe within the [KOS]Terminal window. Once users have finished their Linux related commands, they can enter "exit" and the Linux instance will close and users will be returned to the [KOS]Terminal interface.

**[linux/new]** or **[ubuntu/new]**: This command will run an instance of Ubuntu.exe outside the [KOS]Terminal window. Will run a Ubuntu terminal in its own window. This feature allows users to have access to both a Ubuntu terminal window and a [KOS] terminal at the same time.

### 3.5 Commands for [KOS] Packages:

**[os/packages]**: This command will load the Packages.data file. This file contains information on which packages have been connected/added to the [KOS]Terminal program.

**[os/addpackage]**: This command allows users to add path links to other [KOS] programs. When users enter this command, the program will bring up a menu for the current [KOS] programs that can be linked. The options will vary depending on the version of the [KOS]Terminal program you have. The user can then pick the option of the program they wish to link, and the program will then ask the user to provide a PATH to the program. This path the user provides should also include the programs name as well. For example, to add a path for the [KOS]LitMan.exe program, users can should add the directory path:

"C:\Users\JoBloggs\KOS\[KOS]LitMan\_V9.4\_U\ProgramFiles\" but should also include on the end of the directory path the name of the EXE application that should be ran. The total path that should be added is then as follows:

"C:\Users\JoBloggs\KOS\[KOS]LitMan\_V9.4\_U\ProgramFiles\[KOS]LitMan.exe".

In this program version, there is support to add links for:

[KOS]LitMan.exe

### 3.6 Commands for Web Services:

**[os/web]**: This command presents user with a web services menu. See 3.6.1 for details on menu options.

**[fmode]**: The following commands are only applicable in fmode.

**[google] + "user search"**: This command allows user to google search information in a single command line. The user should first type the "google" command, then users should enter the search strings.

#### 3.6.1 Web Services Menu:

After entering "os/web" the user is presented with menu options:

[1] This option allows users to enter the name of a website.

[2] This option allows users to enter a search string.

To exit the menu, users should enter "q".

### 3.7 Commands for Microsoft Office Programs:

**[os/office]:** This option presents the user with a office services menu. See 3.7.1 for details on options available.

**[Word (word)]:** This command runs the Word.exe program.

**[Excel (excel)]:** This command runs the Excel.exe program.

**[Powerpoint (Powerpoint)]:** This command runs the Powerpoint.exe program.

#### 3.7.1 Office Services Menu:

[1] This option runs the Word.exe program.

[2] This option runs the Powerpoint.exe program.

[3] This option runs the Excel.exe program.

To exit the menu, users should enter "q".

### 3.8 Commands for System Programs:

**[notepad]:** This command will launch the notepad.exe program.

**[notepad+]:** This command will launch the motepad+.exe program if it is installed on the user's system.

### 3.9 Command Summaries:

[help] - loads the commands Help.data file.

[commands] - loads the Commands.data file.

[fmode] - switches terminal to "Fluid Mode". Enter [r] or [return] to exit fmode.

[nmode] - switches terminal to "Normal Mode".

[cmd] - switches to CMD.exe terminal within the program.

[cmd/new] - runs a new CMD.exe terminal window.

[linux (ubuntu)] - switches to a Ubnuntu.exe terminal within the program.

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[linux/new (ubuntu/new)] - runs a new Ubuntu.exe terminal window.

[os/terminal] - brings up the terminal option menu.

[os/office] - brings up the office option menu.

[os/web] - brings up the web services menu.

[notepad] - runs the notepad.exe program.

[notepad+] - runs the notepad++.exe program if installed.

[Word (Word)] - runs the Word.exe program.

[excel (Excel)] - runs the Excel.exe program.

[powerpoint (Powerpoint)] - runs the Powerpoint.exe program.

[cls (Clear)] - Clears the terminal screen.

[exit (quit, q, q!)] - exits the terminal.

[restart] - Restarts the terminal within the same window.

[start (new)] - Runs a new terminal and closes the current.

[slim] - changes the terminal size to "Slim".

[norm] - changes the terminal size to "Normal".

[tiny] - changes the terminal size to "Tiny".

[max] - changes the terminal size to maximum size.

[min] - exits the max size mode.

[os/colour] - allows user to choose terminal colours.

[settings/set/ubuntu=1] - Enables Ubuntu Services if ubuntu.

[settings/set/ubuntu=0] - Disables Ubuntu Services if ubuntu.

[os/packages] - Loads the package.data file to show which packages are connected to the terminal.

[os/addpackage] - Allows user to add a package to the terminal.

fmode only:

[google + "user search"] - will run a google search on the strings entered after the "google" command.

---

### 3.10 Command List:

help

commands

fmode

cmd

cmd/new

linux (ubuntu)

linux/new (ubuntu/new)

os/terminal

os/office

os/web

notepad

notepad+

Word (Word)

excel (Excel)

powerpoint (Powerpoint)

cls (Clear)

exit (quit, q, q!)

restart

start (new)

slim

norm

tiny

max

min

os/colour

settings/set/ubuntu=1

settings/set/ubuntu=0

os/packages

os/addpackage

fmode only:

google + "user search"

---

## **4.0 Updating your Current Program Download to a Newer Version:**

### **4.1: Updating vs Downloading New Versions:**

If you have not downloaded or used any version of [KOS] Terminal, then you are advised to download the newest version available. For current users who have downloaded the program already, downloading newer versions may be useful if a user wishes to add [KOS] Terminal to a new system. For most users who already have a version of the program downloaded, they should resort to using updates to achieve new versions of the program. Updating will not affect any of the data you may have produced during your current use of the program. This makes updating the best option for current users who have an already downloaded version of [KOS]Terminal.

### **4.2: How to Obtain New Updates:**

New updates can be downloaded from [kosopensoftware.wordpress.com](https://kosopensoftware.wordpress.com). Simply search for the latest update package and follow the updater instructions to update your current version to the newest version.

### **4.3: Using the Built-in Updater:**

Before downloading new updates, users should check that their [KOS]UpdateArea folder (located in the current [KOS] Terminal directory) is empty. There should be no files or folders in this [KOS]UpdateArea DIR by default. If files exist in this folder then they could impact on the update and lead to errors.

After downloading an update-package from [kosopensoftware.wordpress.com](https://kosopensoftware.wordpress.com), users should extract the contents of the package to their [KOS]UpdateArea folder. Inside the



[KOS]UpdateArea folder there should be two important files: An UpdateID file and a Update.exe application. These files are essential for the update to work.

Some other files could also be provided in the package such as: An update manual, additional files that are required for the update and sometimes CMD batch files.

Once these files are in the UpdateArea DIR, the user should run their current [KOS] Terminal program version as normal. If correctly extracted, the program should then automatically detect an update package is present in the [KOS]UpdateArea DIR and will prompt the user to run the built-in updater.

Most updates will finish by emptying the [KOS]UpdateArea folder ready for the next update; if this fails, the next time you use your [KOS] Terminal program, it will detect files in the UpdateArea and will prompt the user to initiate a clean, the user should accept the programs prompt to clean so as to avoid messages every time you run the program. Alternatively, users could check that their UpdateArea folder is empty after each update is installed to ensure that it is ready for future updates.

**[End of Manual]**





## **[KOS] Terminal Version 2.0**

**This Program is an Early Release. Not all Planned features for the first release version have yet to be completed, this version offers limited use and is not representative of the final planned full release version.**

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