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# Presentation

Theme: Types of interfaces: command line interface, text interface, graphic interface

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# Plan

- I. Introduction
- II. Main part
- III. Conclusion



# What is interface?

The interface is a common thread between two functional objects that define the requirements as defined by the standard; a combination of devices, methods, and relationships (control, supervision, etc.).



# Types of interface



Command line  
interface

Text interface

Graphic interface

# Command line interface

The CUI Interface (CUI) interface is an interface between a computer and a computer, which instructs the computer to access the keystrokes through the keyboard layout, which can be used in UNIX systems. It is also known as the console. The command line interfaces are contrasted with the programmable menu, as well as the realistic graphical interface.

The format of output information in the interface to the command line is not regulated; it is usually just a textual result, but maybe graphic, sound

```
[root@localhost ~]# ping -q fa.wikipedia.org
PING text.pmtpa.wikimedia.org (209.80.152.2) 56(84) bytes of data:
60
--- text.pmtpa.wikimedia.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 540.528/540.528/540.528/0.000 ms
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /var
[root@localhost var]# ls -la
total 72
dnwxr-xr-x. 18 root root 4096 Jul 30 22:43 .
dnwxr-xr-x. 23 root root 4096 Sep 14 20:42 ..
dnwxr-xr-x. 2 root root 4096 May 14 00:15 account
dnwxr-xr-x. 11 root root 4096 Jul 31 22:26 cache
dnwxr-xr-x. 3 root root 4096 May 18 16:03 db
dnwxr-xr-x. 3 root root 4096 May 18 16:03 empty
dnwxr-xr-x. 2 root root 4096 May 18 16:03 games
dnwxr-xr-x. 2 root gdm 4096 Jun 2 18:39 gdm
dnwxr-xr-x. 38 root root 4096 May 18 16:03 lib
dnwxr-xr-x. 2 root root 4096 May 18 16:03 local
lnwxrwxr-x. 1 root root 11 May 14 09:12 lock -> ../run/lock
dnwxr-xr-x. 14 root root 4096 Sep 14 20:42 log
lnwxrwxr-x. 1 root root 10 Jul 30 22:43 mail -> spool/mail
dnwxr-xr-x. 2 root root 4096 May 18 16:03 nis
dnwxr-xr-x. 2 root root 4096 May 18 16:03 opt
dnwxr-xr-x. 2 root root 4096 May 18 16:03 preserve
dnwxr-xr-x. 2 root root 4096 Jul 1 22:11 report
lnwxrwxr-x. 1 root root 6 May 14 09:12 run -> ../run
dnwxr-xr-x. 14 root root 4096 May 18 16:03 spool
dnwxrwxr-x. 4 root root 4096 Sep 12 23:50 tmp
dnwxr-xr-x. 2 root root 4096 May 18 16:03 yp
[root@localhost var]# yum search wiki
Loaded plugins: langpacks, presto, refresh-packagekit, remove-with-leaves
epifusion-free-updates | 2.7 kB | 00:00
epifusion-free-updates/primary_db | 206 kB | 00:04
epifusion-nonfree-updates | 2.7 kB | 00:00
updates/metalink | 5.9 kB | 00:00
updates | 4.7 kB | 00:00
updates/primary_db | 73% [#####] | 62 kB/s | 2.6 MB | 00:15 ETA
```

# Text interface

A Text-to-Interface Interface is a user-friendly interface that utilizes a unique set of symbols and symbols for pseudoglovers. This is a great deal of resources that require a lot of hardware and software to quickly and effectively retrieve information.

```
kar@kar:~$ pwd
/home/kar
kar@kar:~$ cd /usr/portage/app-shells/bash
kar@kar:~/usr/portage/app-shells/bash$ ls -al
total 136
drwxr-xr-x 3 portage portage 1824 Jul 25 18:06
drwxr-xr-x 33 portage portage 1824 Aug 7 22:39
-rw-r--r-- 1 root root 35988 Jul 25 18:06 ChangeLog
-rw-r--r-- 1 root root 27882 Jul 25 18:06 Manifest
-rw-r--r-- 1 portage portage 4645 Mar 23 21:37 bash-3.1_p17.ebuild
-rw-r--r-- 1 portage portage 5977 Mar 23 21:37 bash-3.2_p09.ebuild
-rw-r--r-- 1 portage portage 6151 Apr 5 14:37 bash-3.2_p48-r1.ebuild
-rw-r--r-- 1 portage portage 5988 Mar 23 21:37 bash-3.2_p48.ebuild
-rw-r--r-- 1 portage portage 5643 Apr 5 14:37 bash-4.0_p18-r1.ebuild
-rw-r--r-- 1 portage portage 6238 Apr 5 14:37 bash-4.0_p18.ebuild
-rw-r--r-- 1 portage portage 5648 Apr 14 05:52 bash-4.0_p17-r1.ebuild
-rw-r--r-- 1 portage portage 5532 Apr 8 18:21 bash-4.0_p17.ebuild
-rw-r--r-- 1 portage portage 5668 May 30 03:35 bash-4.0_p04.ebuild
-rw-r--r-- 1 root root 5668 Jul 25 09:43 bash-4.0_p08.ebuild
drwxr-xr-x 2 portage portage 2848 May 30 03:35 files
-rw-r--r-- 1 portage portage 460 Feb 9 04:35 metadata.xml
kar@kar:~/usr/portage/app-shells/bash$ cat metadata.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE pkgmetadata SYSTEM "http://www.gentoo.org/doc/metadata.dtd">
<pkgmetadata>
  <herd:base-symlink/>
  <use>
    <flag name="bashlogger">Log RLL commands typed into bash; should ONLY be
      used in restricted environments such as honeypots/</flag>
    <flag name="net">Enable /dev/tcp/host/port redirection/</flag>
    <flag name="plugins">Add support for loading builtins at runtime via
      'enable'/</flag>
  </use>
</pkgmetadata>
kar@kar:~/usr/portage/app-shells/bash$ sudo /etc/init.d/bluetooth status
Password:
* status: started
kar@kar:~/usr/portage/app-shells/bash$ ping -q -c1 en.wikipedia.org
PING rr.esaes.wikiaedia.org (91.198.174.2) 56:84 bytes of data:

--- rr.esaes.wikiaedia.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 2ms
rtt min/avg/max/mdev = 49.028/49.820/49.028/0.000 ms
kar@kar:~/usr/portage/app-shells/bash$ grep -l /dev/sda /etc/fstab | cut --fields=3
/dev/sda1 /boot
/dev/sda2 none
/dev/sda3 /
kar@kar:~/usr/portage/app-shells/bash$ date
Sat Aug 8 02:42:24 HST 2009
kar@kar:~/usr/portage/app-shells/bash$ lsof
Module Size Used by
rmdis_wlan 23424 0
rmdis_host 8696 1 rmdis_wlan
cdc_ether 5672 1 rmdis_host
usbnet 18688 3 rmdis_wlan,rmdis_host,cdc_ether
parport_pc 38424 0
fglrx 2388128 29
parport 39648 1 parport_pc
l100_udev 12272 0
l2c_l901 9398 0
kar@kar:~/usr/portage/app-shells/bash$
```

# Graphic interface

A Graphical User Interface is a user-friendly interface that includes interface elements (menus, buttons, icons, spices, etc.), represented by the user in the graphic illustration used in graphics.

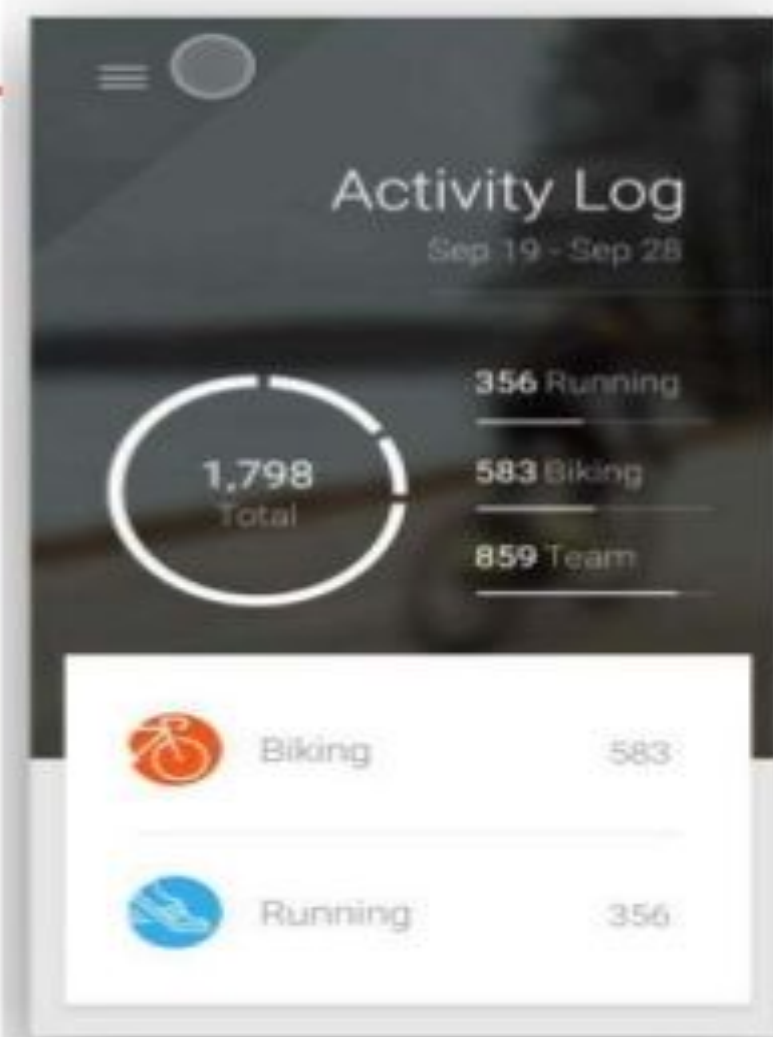
In addition to the command line interface, the GUI user has access to the built-in object (with the help of keyboard, mouse, joystick, etc.) visible to the screen object and performs unobstructed manipulation. The interface elements in the GUI are realistic and metaphorically reflected in the user interface, which implies understanding and enforceability of the program with non-configured users



# What is UI?

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- User Interface
- How people interact with other products / services
- Used in Web & Mobile Applications
- A bridge between a human being and a system.





# Интерфейсы ПК



shared

# Used literature

- <http://www.interface.com/US/en-US/global>
- <https://ru.wikipedia.org/wiki/Интерфейс>
- <https://docs.oracle.com/javase/tutorial/java/concepts/interface.html>
- <https://www.typescriptlang.org/docs/handbook/interfaces.html>

