#### Operating systems and programming environments. MS DOS. Shell programs Norton Commander, Far Manager.

Shells are the programs created for simplification of work with the difficult programmatic systems, such, for example, as DOS. They will transform an uncomfortable command user interface in a friendly graphic interface or interface of type of "menu". Shells give comfortable access to the files and vast service services to the user.

\* FAR is a text-mode shell for Windows 9x/NT which replaces/competes with Norton Commander and similar programs. FAR provides greater functionality than Norton Commander and other programs combined with easier use and significantly improved capability as well as a much lower price.

	C:\				C:\SHELLS	S/NC		22 08
C:∔ Wma	<b>Vima</b>	<b>Vr</b> na	C:↓ Vma		<b>V</b> ma		<b>V</b> ma	
BP	Msdos 🛛 🖄 sys	Videorombin			ncff	exe	wpb2dib	exe
INPRISE	autoexec bat	Suhdlog 🖉	nc	cfg	nclabel	exe	wpv2wmf	exe
EWB5PRO	Bootlog Stxt	Msdos 8	nc_exit	com	ncmain	exe	wpview	exe
ФАЙЛЫУ"1	Bootlog #prv	command com	telemax	dat	ncnet	exe	nc	ext
RECYCLED	window~1 bmk	Io sys	nc_exit	doc	ncsf	exe	nc	fil
PROGRA~1	win386 swp		123view	exe	ncsi	exe	ncpscrip	hdr
WINDOWS	comment dbw		arcview	exe	nczip	exe	nc	hlp
CONFIG	autoexec 0		bitmap	exe	packer	exe	ncff	hlp
FOXPRO	Setuplogätzt		clp2dib	exe	paraview	exe	telemax	hlp
ZZZ	netlog txt		dbview	exe	pct2dib	exe	nc	100
TEMP	Detlog @txt		dr aw2wmf	exe	playwave	exe	nc	in\$
ARC	Detlog @old		drw2wmf	exe	q&aview	ехе	nc	ini
ANTI	Suhdlog @dat		ico2dib	exe	rbview	exe	ncclean	ini
UT	System #1st		msp2dib	exe	refview	exe	norton	ini
SHELLS	msdos bak		nc	exe	saver	exe	telemax	ini
МОИДОК~1	Setuplogold		ncclean	exe	telemax	exe	nc	msg
scandisk log	Suhdlog @bak		nedd	exe	tif2dib	exe	nedd	msg
config sys	pdoxusrs net		ncedit	exe	vector	exe	ncedit	msg
0.000	-	00 00 0.14			HATAGOE			
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11 amount 28 Mag	в Зчтение ин	авка Колия	Allore and 7	OB	at 84gag-	91	HID STUR	0.0 %
in or iom b 20013 0	о пение ни	равка в попия	CHO DATA A	no b n	a i ganan -	2		маод

## \* The basic features of FAR include:

- Common file and folder functions: view, edit, copy, move and rename, create, delete
- \* Easy to use, menu driven, one-touch interface with mouse support
- \*• Drag and drop facility for copy and move operations
- \* Easily configurable options: internal/external file viewer and text editor, file operation associations for certain file types, panel view and file sorting modes
- \* Long file name support
- \* Tunable configuration, color scheme customization
- \* Inline help
- \*• User menu
- \* Clipboard functions
- \* File descriptions support
- \* Clock, simple screen saver
- \* Task list and control
- \* Windows registered types usage



One panel is current (active) and second is passive; switchable with the **Tab** key.

# Tree panel should work in three modes:

The default mode

Quick view mode

Information mode The default mode: The cursor can be moved independently and does not affect the opposite panel. Pressing Enter opens the directory under the cursor in the opposite panel. Copy and Move operations from the opposite panel are targeted to the current directory on the tree

**Quick view mode** Switchable with Ctrl-Q. This mode is similar to the behavior of Windows Explorer movement of the cursor opens the directory under the cursor in the opposite window. Mostly used for quick traversing of the directory tree in a mode similar to quick view with directories opening as we move the cursor

**Information mode** (Ctrl-L). Similar to quick view mode. But in this case the movement of the cursor on the tree panel opens not a listing of files in the directory but the information window should be shown that calculated statistics for the directory (number of the files, total size, number of subfolders, attributes, owners, etc) Heading of one of panels is distinguished by a celadon. It means that exactly this disk and this catalogue are current for MS DOS (i.e. by workers)

	6:/			-	C:\SHELLS	S/NC		22 08
C:↓ Wma	Vina	Vma	C:∔ Vma		Ита		<b>Vr</b> ia	
BP	Msdos 🛛 🔅 sys	Videorombin			ncff	exe	wpb2dib	exe
INPRISE	autoexec bat	Suhdlog 🖉	nc	efg	nclabel	exe	wpv2wmf	exe
EWB5PRO	Bootlog Stat	Msdos 8	nc_exit	com	ncmain	exe	wpview	exe
ФАЙЛЫУ"1	Bootlog prv	command com	telemax	dat	ncnet	exe	nc	ext
RECYCLED	window"1 bmk	Io Sys	nc_exit	doc	ncsf	exe	nc	fil
PROGRA~1	win386 swp		123view	exe	ncsi	exe	ncpscrip	hdr
WINDOWS	comment dbw		arcview	exe	nczip	exe	nc	hlp
CONFIG	autoexec 0		bitmap	exe	packer	exe	ncff	hlp
FOXPRO	Setuplog txt		clp2dib	exe	paraview	exe	telemax	hlp
222	netlog txt		dbview	exe	pct2dib	exe	nc	ico
TEMP	Detlog 🦉txt		draw2wmf	exe	playwave	exe	NC	in\$
ARC	Detlog gold		drw2wmf	exe	q&aview	exe	nc	ini
ANTI	Suhdlog @dat		ico2dib	exe	rbview	exe	ncclean	ini
UT	System 1st		msp2dib	exe	refview	exe	norton	ini
SHELLS	msdos bak		nc	exe	saver	exe	telemax	ini
МОИДОК~1	Setuplogoold		ncclean	exe	telemax	exe	NC	msg
scandisk log	Suhdlog @bak		nedd	exe	tif2dib	exe	nedd	msg
config sys	pdoxusrs net		ncedit	exe	vector	exe	ncedit	msg
SHELLS	PKHTHIIUT 4 13	.UZ.U3 U:41			PRH THILUT	13	02.03	V:41
Помощь 28ызов Зчтение 4Правка 5Копия 6Новитя 7Новкат 8Удал-е 9Неню 10Выход								
ARC ANTI UT SHELLS config sys SHELLS Itomout 2Bustor	Detlog old Suhdlog dat System 1st msdos bak Setuplog old Suhdlog bak pdoxusrs net ≻КАТАЛОГ∢ 13	.02.03 0:41 равка <mark>5</mark> Копия	drw2wmf ico2dib msp2dib nc ncclean ncdd ncedit 	exe exe exe exe exe exe	q&aview rbview refview saver telemax tif2dib vector ≻KATANOF	exe exe exe exe exe exe 13	nc ncclean norton telemax nc ncdd ncedit .02.03	ini ini ini msg msg D:41

For changing of logical disk of the left panel it is necessary to press the keys [Alt]-[F1], and for changing of disk of right panel - key [Alt]-[F2]. A dialog box will appear is a menu from the names of logical disks that is accessible to the computer. A cursor scope it is necessary to move to the necessary name to press [Enter] or it is simple to press the key with the image of corresponding letter. If you changed mind to change a disk, it is necessary to press [Esc]. Changing a disk is possible in any panel - in working and non-working.



#### functions key assignments are:

functions key	the value of keys		
F1	help		
F2	user menu		
F3	file view		
F4	file edit		
F5	file copy		
F6	file move/tree move		
F7	make a directory		
F8	file delete		
F9	top menu		
F10	exit		

Often these function key assignments are shown in the bottom line of FAR as buttons are clickable with the mouse.

#### The most commonly used keyboard shortcuts for FAR Manager

ALT+F1	Change left drive
ALT+F2	Change right drive
ALT+F7	Find files
ALT+F10	Open a dialog box with the current directory tree
CTRL+F1	Hide/show left file panel
CTRL+F2	Hide/show right file panel
CTRL+\	Move to the root directory of the current drive
CTRL+ENTER	Insert current file name into the command line
SHIFT+F4	Create a new file and edit it
SHIFT+ENTER	Execute the file or open the directory in Windows Explorer
CTRL+L	Get information on available memory and HDD resources
CTRL+Q	Show quick view panel
CTRL+U	Exchange left and right file panels
CTRL+T	Show directory tree panel
ALT+F1	Change left drive

### Students' individual work

\* Open the program FAR

\* Create in your group folder a new folder named by your name.

\* Copy some of the files from "My Documents" to this folder.

\* **Rename** one or two files.

\* Create a new folder inside your folder. Move some of the files that you have copied to this folder. Make sure NOT to move the files that do not belong to you.

\* Delete several files from your folder. Make sure NOT to delete the files which do not belong to you.

\* Create a new text file with SHIFT+F4. Write down some information into this file using the built-in editor.

#### Searching files

\* Press ALT-F7 to activate the search window. Type in there a file mask to find the files with the extension ".bmp". Start the search. When the search is finished, scroll the list of found files. What you see in this list will vary, depending on what programs have been installed on your computer. Display the files on a separate file panel.

\* Select any 5 files from the list and copy it to your folder.