

Windows 10 - Create Folders and Set File Permissions.

This presentation uses the command line to create folders and set file permissions. The presentation does use the graphical interface to copy files.

Operating System: Windows 10 Anniversary Update

Preuss

9/23/2016



Recycle Bin

The presentation logs on to Windows 10.

Command Prompt

```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\preuss>cd Documents

C:\Users\preuss\Documents>_
```

The presentation opens the command prompt as shown. The "cd Documents" command makes life a bit easier.

Sometimes the screen is very different. The complete command sequence to your Documents folder follows.

```
C:
cd %HOMEPATH%\Documents
```

Command Prompt

— □ ×

```
Microsoft Windows [Version 10.0.14393]  
R(c) 2016 Microsoft Corporation. All rights reserved.
```

```
C:\Users\preuss>cd Documents
```

```
C:\Users\preuss\Documents>md examples
```

```
C:\Users\preuss\Documents>cd examples
```

```
C:\Users\preuss\Documents\examples>_
```

The presentation makes life easier by creating another folder for this exercise as shown. Other names are possible for this folder. The important part is the name is not already in use.

C:\ Command Prompt

— □ ×

```
C:\Users\preuss>cd Documents
C:\Users\preuss\Documents>md examples
C:\Users\preuss\Documents>cd examples
C:\Users\preuss\Documents\examples>md csci1110-1
C:\Users\preuss\Documents\examples>md csci1110-2
C:\Users\preuss\Documents\examples>dir
Volume in drive C has no label.
Volume Serial Number is BEB1-3CC0

Directory of C:\Users\preuss\Documents\examples

09/23/2016  08:44 AM    <DIR>          .
09/23/2016  08:44 AM    <DIR>          ..
09/23/2016  08:44 AM    <DIR>          csci1110-1
09/23/2016  08:44 AM    <DIR>          csci1110-2
                0 File(s)        0 bytes
                4 Dir(s)  47,764,463,616 bytes free

C:\Users\preuss\Documents\examples>
```

The presentation enters the newly created folder. The presentation creates two folders and shows both folders now exist.



File Explorer

File Home Share View

Quick access

Search Quick access

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- cptr1104
- Word Module 1
- Word Module 2
- Word Module 3

OneDrive

This PC

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)

Frequent folders (8)

- Desktop This PC
- Downloads This PC
- Documents This PC
- cptr1104 This PC\Documents
- Word Module 2 This PC\Docu...\Word 2016

Recent files (20)

1104_PPT.pdf	This PC\Documents\cptr1104
1104_AC.pdf	This PC\Documents\cptr1104
1104_EX.pdf	This PC\Documents\cptr1104
1104_WD.pdf	This PC\Documents\cptr1104
PPT 4-WISP.pptx	This PC\Documents\cptr...\PowerPoint Module 4
DDT 3-RID.pdf	This PC\Documents\cptr... \PowerPoint Module 3

28 items | 1 item selected

The presentation opens the "Documents" folder.



C:\Users\preuss\Documents\examples\csci1110-1

File Home Share View

← → ↕ ↑ > This PC > Documents > examples > csci1110-1 Search csci1110-1

Name	Date modified	Type	Size
firewall_list01.txt	9/13/2016 3:11 PM	Text Document	39 KB
grouplist01.txt	9/20/2016 11:29 AM	Text Document	1 KB
grouplist02.txt	9/20/2016 11:31 AM	Text Document	14 KB
preuss_documents.txt	9/15/2016 8:40 AM	Text Document	5 KB
preuss_home.txt	9/15/2016 8:42 AM	Text Document	887 KB
preuss_root.txt	9/15/2016 8:44 AM	Text Document	17,098 KB
Preuss-happy-note.pdf	8/29/2016 9:25 AM	PDF File	292 KB

7 items | 7 items selected 17.9 MB

The presentation finds a group of files to copy. The presentation selects all the files to copy and uses the ctrl + C key combination to copy.

As shown, the presentation copies the files to one of the newly made folders.



Recycle Bin

C:\Users\preuss\Documents\examples\csci1110-2

File Home Share View

← → ↕ ↑ > This PC > Documents > examples > csci1110-2 Search csci1110-2

Name	Date modified	Type	Size
firewall_list01.txt	9/13/2016 3:11 PM	Text Document	39 KB
grouplist01.txt	9/20/2016 11:29 AM	Text Document	1 KB
grouplist02.txt	9/20/2016 11:31 AM	Text Document	14 KB
preuss_documents.txt	9/15/2016 8:40 AM	Text Document	5 KB
preuss_home.txt	9/15/2016 8:42 AM	Text Document	887 KB
preuss_root.txt	9/15/2016 8:44 AM	Text Document	17,098 KB

6 items

The presentation finds a group of files to copy. The presentation selects all the files to copy and uses the ctrl + C key combination to copy.

As shown, the presentation copies the files to one of the newly made folders.



Command Prompt

```
C:\Users\preuss\Documents\examples>cd csci1110-1
```

```
C:\Users\preuss\Documents\examples\csci1110-1>
```

The presentation returns to the command line. The presentation enters one of the created folders.

```
C:\Users\preuss\Documents\examples\csci1110-1>icacls *
```

The icacls command lists the permission settings of the files and folders in the current folder.

```
group102.txt NT AUTHORITY\SYSTEM:(I)(F)
             BUILTIN\Administrators:(I)(F)
             WIN10-CPTR1104\preuss:(I)(F)

Preuss-happy-note.pdf NT AUTHORITY\SYSTEM:(I)(F)
                      BUILTIN\Administrators:(I)(F)
                      WIN10-CPTR1104\preuss:(I)(F)

preuss_documents.txt NT AUTHORITY\SYSTEM:(I)(F)
                     BUILTIN\Administrators:(I)(F)
                     WIN10-CPTR1104\preuss:(I)(F)

preuss_home.txt NT AUTHORITY\SYSTEM:(I)(F)
                BUILTIN\Administrators:(I)(F)
                WIN10-CPTR1104\preuss:(I)(F)

preuss_root.txt NT AUTHORITY\SYSTEM:(I)(F)
                BUILTIN\Administrators:(I)(F)
                WIN10-CPTR1104\preuss:(I)(F)

Successfully processed 7 files; Failed processing 0 files

C:\Users\preuss\Documents\examples\csci1110-1>
```

This is a partial listing of the "icacls \*" command.

Command Prompt

```
C:\Users\preuss\Documents\examples\csci1110-1>net user
```

```
User accounts for \\WIN10-CPTR1104
```

```
-----  
Administrator          DefaultAccount          Guest  
preuss                  tpreuss
```

```
The command completed successfully.
```

```
C:\Users\preuss\Documents\examples\csci1110-1>
```

The presentation obtains a list of logons for the local system. The presentation will set permission for the "guest" account.

```
C:\Users\preuss\Documents\examples\csci1110-1>icacls * /grant guest:(R,W)
processed file: firewall_list01.txt
processed file: grouplist01.txt
processed file: grouplist02.txt
processed file: Preuss-happy-note.pdf
processed file: preuss_documents.txt
processed file: preuss_home.txt
processed file: preuss_root.txt
Successfully processed 7 files; Failed processing 0 files
```

```
C:\Users\preuss\Documents\examples\csci1110-1>_
```

The icacls command will set permissions to be read only for guest, as shown.

```
C:\Users\preuss\Documents\examples\csci1110-1>icacls * /grant guest:(R,W)
processed file: firewall_list01.txt
processed file: grouplist01.txt
processed file: grouplist02.txt
processed file: Preuss-happy-note.pdf
processed file: preuss_documents.txt
processed file: preuss_home.txt
processed file: preuss_root.txt
Successfully processed 7 files; Failed processing 0 files
```

```
C:\Users\preuss\Documents\examples\csci1110-1>cd ..
```

```
C:\Users\preuss\Documents\examples>cd csci1110-2
```

```
C:\Users\preuss\Documents\examples\csci1110-2>
```

The presentation changes to the other newly created folder as shown.

```
C:\Users\preuss\Documents\examples\csci1110-1>icacls * /grant guest:(R,W)
processed file: firewall_list01.txt
processed file: grouplist01.txt
processed file: grouplist02.txt
processed file: Preuss-happy-note.pdf
processed file: preuss_documents.txt
processed file: preuss_home.txt
processed file: preuss_root.txt
Successfully processed 7 files; Failed processing 0 files

C:\Users\preuss\Documents\examples\csci1110-1>cd ..

C:\Users\preuss\Documents\examples>cd csci1110-2

C:\Users\preuss\Documents\examples\csci1110-2>icacls * /grant guest:(R)
```

The icacls command will set permissions to be read only for guest, as shown.

Should read and write be desired for guest, replace (R) with (R,W) .

Command Prompt

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```
C:\Users\preuss\Documents\examples\csci1110-1>icacls * /grant guest:(R,W)
```

```
processed file: firewall_list01.txt
```

```
processed file: grouplist01.txt
```

```
processed file: grouplist02.txt
```

```
processed file: Preuss-happy-note.pdf
```

```
processed file: preuss_documents.txt
```

```
processed file: preuss_home.txt
```

```
processed file: preuss_root.txt
```

```
Successfully processed 7 files; Failed processing 0 files
```

```
C:\Users\preuss\Documents\examples\csci1110-1>cd ..
```

```
C:\Users\preuss\Documents\examples>cd csci1110-2
```

```
C:\Users\preuss\Documents\examples\csci1110-2>icacls * /grant guest:(R)
```

```
processed file: firewall_list01.txt
```

```
processed file: grouplist01.txt
```

```
processed file: grouplist02.txt
```

```
processed file: preuss_documents.txt
```

```
processed file: preuss_home.txt
```

```
processed file: preuss_root.txt
```

```
Successfully processed 6 files; Failed processing 0 files
```

```
C:\Users\preuss\Documents\examples\csci1110-2>
```

The icacls command will set permissions to be read only for guest, as shown.



C:\ Command Prompt

— □ ×

```
processed file: grouplist01.txt
processed file: grouplist02.txt
processed file: Preuss-happy-note.pdf
processed file: preuss_documents.txt
processed file: preuss_home.txt
processed file: preuss_root.txt
Successfully processed 7 files; Failed processing 0 files
```

The presentation changes the default folder as shown.

```
C:\Users\preuss\Documents\examples\csci1110-1>cd ..
```

```
C:\Users\preuss\Documents\examples>cd csci1110-2
```

```
C:\Users\preuss\Documents\examples\csci1110-2>icacls * /grant guest:(R)
```

```
processed file: firewall_list01.txt
processed file: grouplist01.txt
processed file: grouplist02.txt
processed file: preuss_documents.txt
processed file: preuss_home.txt
processed file: preuss_root.txt
Successfully processed 6 files; Failed processing 0 files
```

```
C:\Users\preuss\Documents\examples\csci1110-2>cd ..
```

```
C:\Users\preuss\Documents\examples>
```



```
C:\Users\preuss\Documents\examples>icacls * /T /C >> perm_rpt01.txt_
```

The presentation uses the "icacls" command to report all the permission settings as shown.

The >> sends the output to a file named perm\_rpt01.txt. The name of the file may change. Ending the filename with .txt is recommended.

```
C:\Users\preuss\Documents\examples>icacls * /T /C >> perm_rpt01.txt
```

```
C:\Users\preuss\Documents\examples>notepad perm_rpt01.txt
```

The presentation uses the command shown to see the results in notepad.

C:\Users\preuss\Documents\examples>icacls \* /T /C >> perm\_rpt01.txt

```

perm_rpt01.txt - Notepad
File Edit Format View Help
csci1110-1 NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)          BUILTIN\Administrators:(I)(OI)(CI)(F)
WIN10-CPTR1104\preuss:(I)(OI)(CI)(F)csci1110-2 NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)          BUILTIN
\Administrators:(I)(OI)(CI)(F)          WIN10-CPTR1104\preuss:(I)(OI)(CI)(F)perm_rpt01.txt NT
AUTHORITY\SYSTEM:(I)(F)          BUILTIN\Administrators:(I)(F)          WIN10-
CPTR1104\preuss:(I)(F)csci1110-1\firewall_list01.txt WIN10-CPTR1104\Guest:(R,W)
NT AUTHORITY\SYSTEM:(I)(F)          BUILTIN\Administrators:(I)(F)
WIN10-CPTR1104\preuss:(I)(F)csci1110-1\grouplist01.txt WIN10-CPTR1104\Guest:(R,W)
F)          BUILTIN
WIN10-CPTR1104\preuss:(I)(F)csci1110-
NT AUTHORITY\SYSTEM:(I)(F)
WIN10-CPTR1104\preuss:
NT
104\Guest:(R,W)
BUILTIN\Administrators:(I)(F)
0-1\preuss_documents.txt WIN10-CPTR1104\Guest:(R,W)
NT AUTHORITY\SYSTEM:(I)(F)
WIN10-CPTR11
\Administrators:(I)(F)
1\preuss_home.txt WIN10-CPTR1104\Guest:(R,W)
BUILTIN\Administrators:(I)(F)
(I)(F)csci1110-1\preuss_root.txt WIN10-CPTR1104\Guest:(R,W)
\SYSTEM:(I)(F)          BUILTIN\Administrators:(I
WIN10-CPTR1104\preuss:(I)(F)csci1110-2\firewall_list01.txt WIN10-C
NT AUTHORITY\SYSTEM:(I)(F)
WIN10-CPTR1104\preuss:(I)(F)csci1110-2\gr
NT AUTHORITY\SYSTEM:(I)(F)
(R)

```

Find

Find what:

Direction  
 Up  Down

Match case

The icacls output is not formatted nicely, but is found.