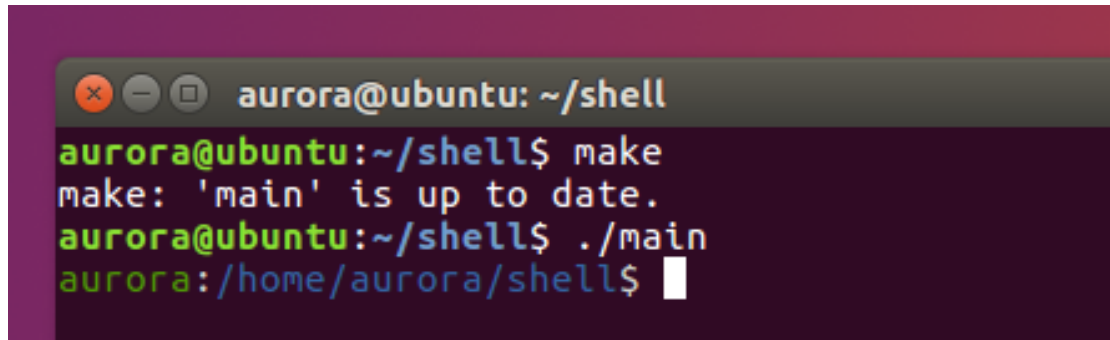


Linux 类 shell 用户手册

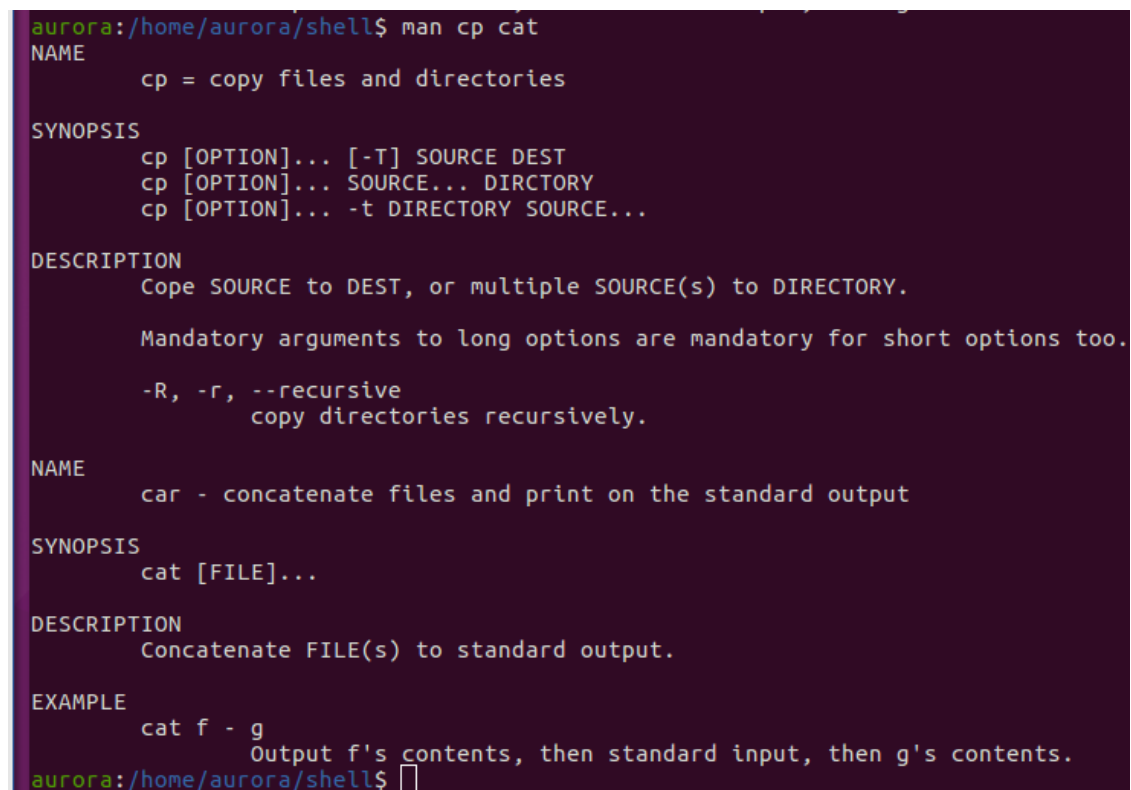
用户界面

A terminal window titled 'aurora@ubuntu: ~/shell'. The prompt is 'aurora@ubuntu:~/shell\$'. The user enters 'make', and the output is 'make: 'main' is up to date.'. The user then enters './main', and the prompt changes to 'aurora:/home/aurora/shell\$' with a cursor at the end.

```
aurora@ubuntu: ~/shell
aurora@ubuntu:~/shell$ make
make: 'main' is up to date.
aurora@ubuntu:~/shell$ ./main
aurora:/home/aurora/shell$
```

进入界面后，显示用户名（绿色）与现在所在路径（蓝色），等待用户输入。

man [command...]

A terminal window showing the output of the 'man cp cat' command. The output is formatted with section headers in all caps. The 'cp' section includes NAME, SYNOPSIS, and DESCRIPTION. The 'cat' section includes NAME, SYNOPSIS, and DESCRIPTION. The prompt is 'aurora:/home/aurora/shell\$' with a cursor at the end.

```
aurora:/home/aurora/shell$ man cp cat
NAME
    cp = copy files and directories

SYNOPSIS
    cp [OPTION]... [-T] SOURCE DEST
    cp [OPTION]... SOURCE... DIRECTORY
    cp [OPTION]... -t DIRECTORY SOURCE...

DESCRIPTION
    Cope SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY.

    Mandatory arguments to long options are mandatory for short options too.

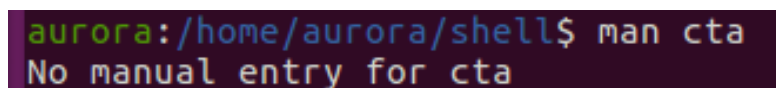
    -R, -r, --recursive
        copy directories recursively.

NAME
    car - concatenate files and print on the standard output

SYNOPSIS
    cat [FILE]...

DESCRIPTION
    Concatenate FILE(s) to standard output.

EXAMPLE
    cat f - g
        Output f's contents, then standard input, then g's contents.
aurora:/home/aurora/shell$
```

A terminal window showing the output of the 'man cta' command. The output is 'No manual entry for cta'. The prompt is 'aurora:/home/aurora/shell\$' with a cursor at the end.

```
aurora:/home/aurora/shell$ man cta
No manual entry for cta
```

显示命令说明，允许输入多个命令，按顺序输出用户手册，若不存在此命令，则报错。

cmp [file1] [file2]

```
aurora@ubuntu:~/shell$ ./main
aurora:/home/aurora/shell$ cmp t1 t11
aurora:/home/aurora/shell$ cmp t1 t2
t1 t2 differ: byte 10, line 1
aurora:/home/aurora/shell$ cmp t2 t2n
cmp: EOF on t2
aurora:/home/aurora/shell$ cmp t2 t3
cmp: t3: No such file or directory
aurora:/home/aurora/shell$ cmp t1 t11 t2
cmp: invalid --ignore-initial value 't2'
```

测试样例：

t1: this is t1

t11: this is t1

t2: this is t2

t2n: this is t2\n

t3: 不存在

逐字符比较 file1 和 file2. 若参数过多，则提示第一个多余参数；若两文件内容完全一样，则不做任何提示；若某一个字符不同，则输出第一个不同字符的位置；若某一文件长度较短，则提示此文件结束；若某一文件不存在，则提示此文件不存在。

cat [file...]

```
aurora:/home/aurora/shell$ cat t1 t3 t2
this is t1
cat: t3: No such file or directory
this is t2
```

测试样例：

t1: this is t1

t2: this is t2

t3: 不存在

按顺序输出文件，若文件不存在则提示不存在。

wc [mode...] [file...]

```
aurora:/home/aurora/shell$ wc
wc: missing file operand
aurora:/home/aurora/shell$ wc t1
 1   3  11 t1
aurora:/home/aurora/shell$ wc t1 t2 t2n t3
 1   3  11 t1
 1   3  11 t2
 2   3  12 t2n
wc: t3: No such file or directory
 4   9  34 total
aurora:/home/aurora/shell$ wc -r t1
wc: invalid option -- 'r'
aurora:/home/aurora/shell$ wc -w -l t1
 1   3 t1
aurora:/home/aurora/shell$ wc -w -l t1 t2
 1   3 t1
 1   3 t2
 2   6 total
aurora:/home/aurora/shell$ wc t
 0   0   0 t
```

测试样例：

t: 空文件

t1: this is t1

t2: this is t2

t2n: this is t2\n

t3: 不存在

对文件进行计数，按顺序输出要求的数据。若参数数目不对，则报错；若无模式参数，则按序输出文件行数、词数、字节数；若模式参数不对，则报错；若有模式参数，则按要求，仍依照上述顺序输出；若文件不存在，则报错；若有两个及以上文件参数，则在最后一行按模式要求，输出总行数、词数、字节数。

pwd

```
aurora:/home/aurora/shell$ pwd  
/home/aurora/shell
```

输出所在路径。

cp [file1] [file2]

cp [file...] [directory]

```
aurora:/home/aurora/shell$ cp t1 t1  
cp: 't1' and 't1' are the same file  
aurora:/home/aurora/shell$ cp t2 t11  
aurora:/home/aurora/shell$ cp t11 t3  
aurora:/home/aurora/shell$ cp main m  
aurora:/home/aurora/shell$ exit  
aurora@ubuntu:~/shell$ ./m  
aurora:/home/aurora/shell$ cp t1 t2 /home/aurora  
aurora:/home/aurora/shell$ cp t1 t2 t3  
cp: target 't3' is not a directory
```

测试样例：

执行命令后：

main: 本项目的二进制文件

main: 本项目的二进制文件

t1: this is t1

t1: this is t1

t11: this is t1

t11: this is t2

t2: this is t2

t2: this is t2

/home/aurora/t1: 不存在

/home/aurora/t1: this is t1

/home/aurora/t2: 不存在

/home/aurora/t2: this is t2

t3: 不存在

t3: this is t2

m: 不存在

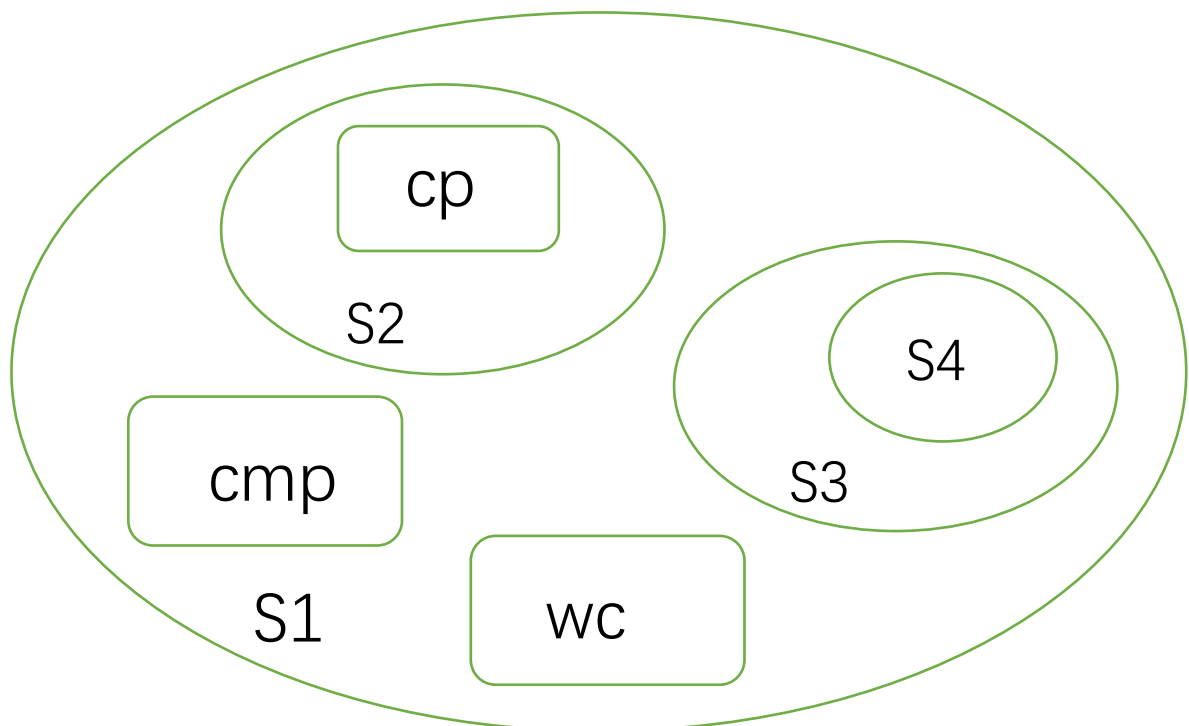
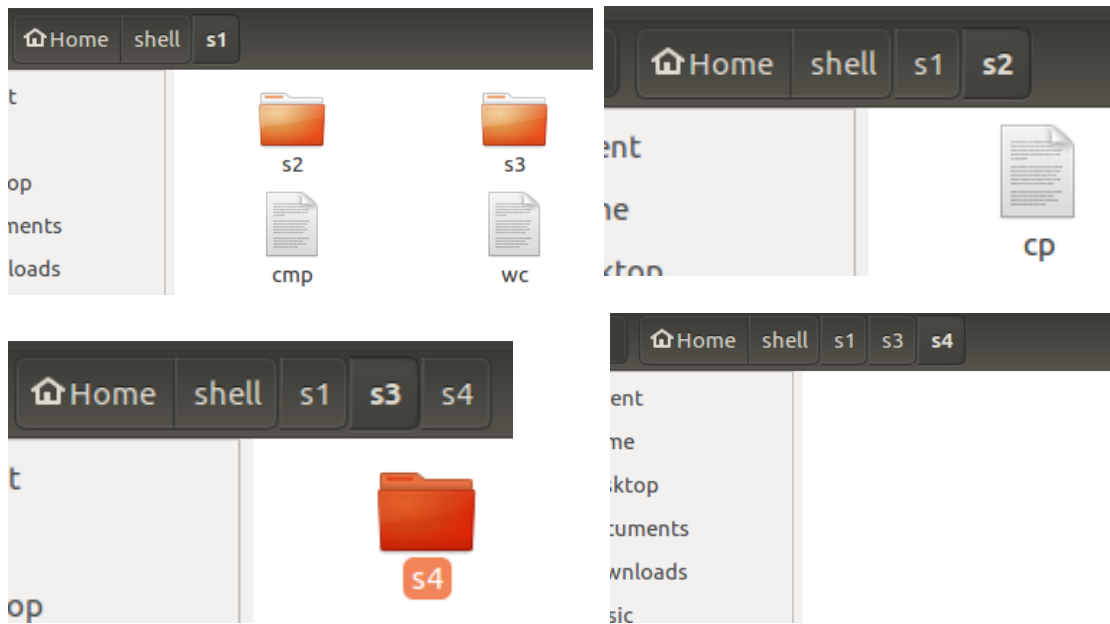
m: 与 main 执行效果相同

将 file1 复制到 file2, 若 file1 不存在则报错；若两文件相同则报错；若已存在 file2 则清除其内容，再进行复制；当最后一个参数是目录时，将在目录下建立同名的相同文件，此时允许同时操作

多个文件；若最后一个参数不是目录，文件参数大于二，则报错。

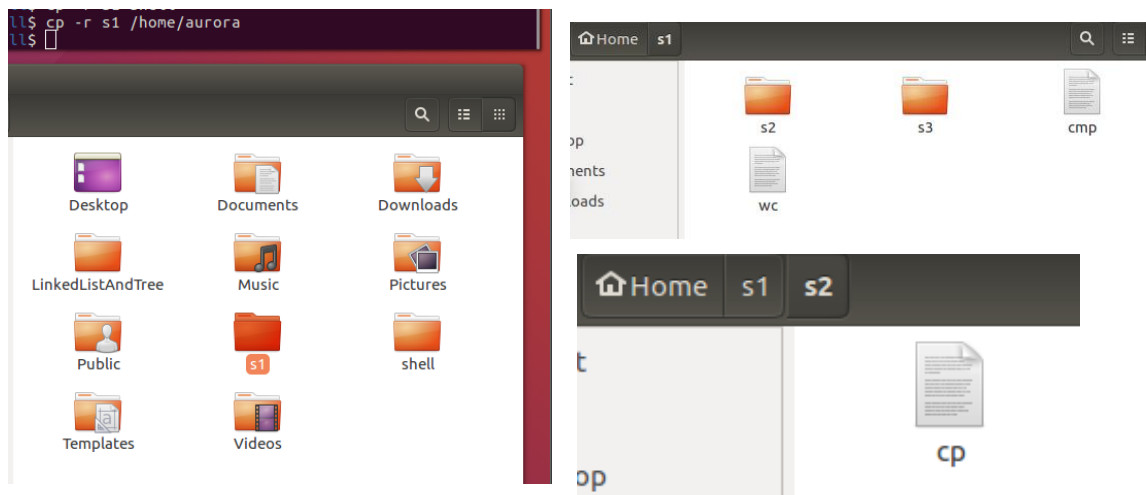
`copy -r [directory1] [directory2]`

测试样例：



执行命令后：

在相应路径下建立同名目录。



递归复制相应目录。

exit



退出。