### NAME

chmod - change mode of file

#### SYNOPSIS

chmod mode file ...

## DESCRIPTION

The mode of each named *file* is changed according to *mode*, which may be absolute or symbolic. An absolute *mode* is an octal number constructed from the OR of the following modes:

4000 set user ID on execution

2000 set group ID on execution

1000 sticky bit, see *chmod*(2)

0400 read by owner

0200 write by owner

0100 execute (search in directory) by owner

0070 read, write, execute (search) by group

0007 read, write, execute (search) by others

A symbolic mode has the form:

[who] op permission [ op permission ]

The *who* part is a combination of the letters  $\mathbf{u}$  (for user's permissions),  $\mathbf{g}$  (group) and  $\mathbf{o}$  (other). The letter  $\mathbf{a}$  stands for  $\mathbf{ugo}$ , the default if *who* is omitted.

Op can be + to add *permission* to the file's mode, - to take away *permission* and = to assign *permission* absolutely (all other bits will be reset).

*Permission* is any combination of the letters r (read), w (write), x (execute), s (set owner or group id) and t (save text - sticky). U, g or o indicate that *permission* is to be taken from the current mode. Omitting *permission* is only useful with = to take away all permissions.

Multiple symbolic modes separated by commas may be given. Operations are performed in the order specified. The letter s is only useful with u or g and t only works with u.

Only the owner of a file (or the super-user) may change its mode.

### EXAMPLES

The first example denies write permission to others, the second makes a file executable:

chmod o-w file

chmod +x file

# SEE ALSO

ls(1), chmod(2), umask(2)