

go files Cheat Sheet

by cizixs (cizixs) via cheatography.com/43449/cs/12942/

Basic Operation	ns
create empty file	<pre>newFile, err := os.Create("test.txt")</pre>
truncate a file	err := os.Truncate("test.txt", 100)
get file info	<pre>fileInfo, err := os.State("test.txt")</pre>
rename a file	err := os.Rename(oldPath, newPath)
delete a file	err := os.Remove("test.txt")
open a file for reading	<pre>file, err := os.Open("test.txt")</pre>
open a file	<pre>file, err := os.Open("test.txt", os.O_APPEND, 0600)</pre>
close a file	err := file.Close()
change file permision	err := os.Chmod("test.txt", 0777)
change file ownership	<pre>err := os.Chown("test.txt", os.Getuid(), os.Getgid())</pre>
change file timestamps	<pre>err := os.Chtimes("test.txt", lastAccessTime, lastModifyTime)</pre>

file open flag	
os.O_RDONLY	open the file read only
os.O_WRONLY	open the file write only
os.O_RDWR	open the file read write
os.O_APPEND	append data to the file when writing
os.O_CREATE	create a new file if none exists
os.O_EXCL	used with O_CREATE, file must not exist
os.O_SYNC	open for synchronous I/O
O_TRUNC	if possible, truncate file when opened
When opening file withos.OpenFile, flags control how the file behaves.	

Hard Link & Symbol Link	
err := os.Link("test.txt",	
test_copy.txt")	
err := os.Symlink("test.txt",	
test_sym.txt")	
fileInfo, err :=	
os.Lstat("test_sym.txt")	
err := os.Lchown("test_sym.txt", uid,	
yid)	
dest, err :=	
os.ReadLink("link_file.txt")	

A hard link creates a new pointer to the same place. A file will only be deleted from disk after all links are removed. Hard links only work on the same file system. A hard link is what you might consider a 'normal' link.

A symbolic link, or soft link, only reference other files by name. They can point to files on different filesystems. Not all systems support symlinks.

Read and Write	
write bytes to file	<pre>n, err := file.Write([]byte("hello,</pre>
	world!\n"))
write string to	<pre>n, err := file.WriteString("Hello,</pre>
file	world!\n")
write at offset	<pre>n, err := file.WriteAt([]byte("Hello"),</pre>
	10)
read to byte	<pre>n, err := file.Read(byteSlice)</pre>
read exactly n bytes	<pre>n, err := io.ReadFull(file, byteSlice)</pre>
read at least n	n, err := io.ReadAtLeast(file,
bytes	<pre>byteSlice, minBytes)</pre>
read all bytes of a file	<pre>byteSlice, err := ioutil.ReadAll(file)</pre>
read from offset	n, err := file.ReadAt(byteSlice, 10)



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Work with directories	
create a directory	err := os.Mkdir("myDir", 0600)
recursively create a directory	<pre>err := os.MkdirAll("dir/subdir/myDir", 0600)</pre>
delete a directory recursively	err := os.RemoveAll("dir/")
list directory files	<pre>fileInfo, err := ioutil.ReadDir(".")</pre>

Shortcuts	
quick read from file	<pre>byteSlice, err := ioutil.ReadFile("test.txt")</pre>
quick write to file	<pre>err := ioutil.WriteFile("test.txt", []byte("Hello"), 0666)</pre>
copy file	n, err := io.Copy(newFile, originFile)
write string to file	<pre>io.WriteString(file, "Hello, world")</pre>

Temporary files and directories	
create temp dir	<pre>ioutil.TempDir(dir, prefix string) (name string, err error)</pre>
create temp file	<pre>ioutil.TempFile(dir, prefix string) (f *os.File, err error)</pre>

References
Working with Files in Go
golang os standard library
golang ioutil standard library
golang iou standard library



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