

File system

Windows programming

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Working with drive

- ❑ **GetLogicalDrives**, return an integer (drive bit map)
 - 11100 : We have drives E, D and C but no B, no A
- ❑ **GetLogicalDriveStrings**, return a string with double zero terminated
 - "C:\\0D:\\0E:\\0\\0"
- ❑ GetDiskFreeSpaceEx
- ❑ GetDriveType DRIVE_FIXED | DRIVE_REMOVABLE
- ❑ GetVolumeInformation

Quiz

How to get dynamic size from bytes?

- 1.5 GB
- 426.13 MB
- 7 KB

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Iterate through all files

```
WIN32_FIND_DATA fd;  
HANDLE hFile = FindFirstFileW(path, &fd);  
BOOL bFound = true;  
while (bFound) {  
    if ((fd.dwFileAttributes & FILE_ATTRIBUTE_DIRECTORY)  
        && (StrCmp(fd.cFileName, L".") != 0) &&  
            (StrCmp(fd.cFileName, L"..") != 0) )  
    {  
        bFound = FALSE;  
    }  
    else  
        bFound = FindNextFileW(hFile, &fd);  
}
```

Working with folder

- CreateDirectory
- RemoveDirectory
- MoveFile

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CreateDirectory(path, **NULL**);

RemoveDirectory(path);

MoveFile(path, **L"D:\\NEWNEW"**); com

Working with files

- CopyFile
- DeleteFile
- MoveFile
- FindFirstFile
- FindNextFile
- SHFileOperation!**
- CreateFile
- ReadFile
- WriteFile

Examples

```
CopyFile(L"d:\\new\\test.cpp", L"d:\\test.cpp"),  
        FALSE);
```

```
DeleteFile(L"d:\\test.cpp");
```

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```
ReadFile(hFile, &inBuffer, nBytesToRead,  
        &nBytesRead, NULL)
```

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- GetFileAttributes
- SetFileAttributes
- GetFileSize
- GetFileType
- GetFileTime
- GetTempFileName

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File time

```
FILETIME ftCreate, ftAccess, ftWrite, ftLocal;
```

```
SYSTEMTIME stCreate;
```

```
if(!GetFileTime(hFile, &ftCreate, &ftAccess, &ftWrite))
```

```
    return FALSE;
```

```
FileTimeToSystemTime(& ftCreate, &stCreate);
```

```
wsprintf(lpszString, "%02d/%02d/%d %02d:%02d",  
    stCreate.wDay, stCreate.wMonth, stCreate.wYear,  
    stCreate.wHour, stCreate.wMinute);
```