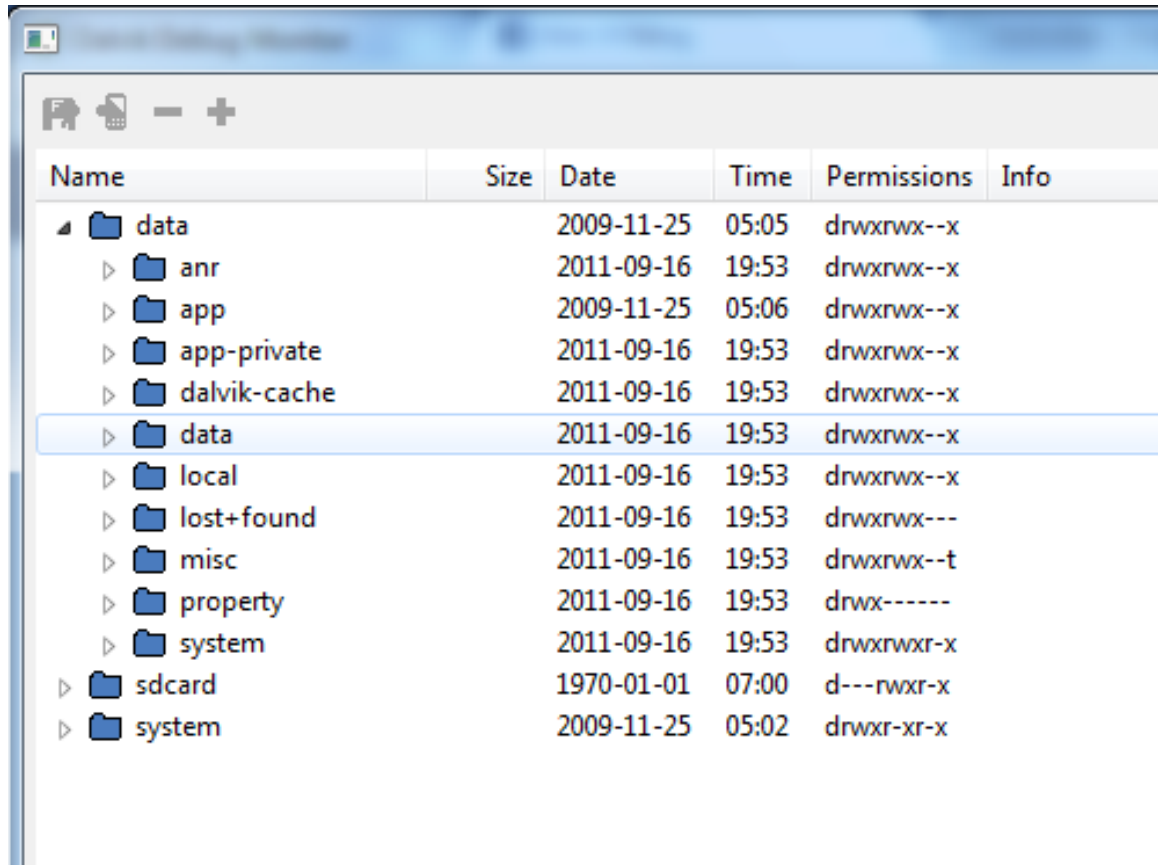


The background features a dark gray upper half and a white lower half, separated by a horizontal orange line. On the left side, there are several concentric circles in shades of gray, some of which are partially cut off by the left edge. The text "FOLDER - FILE" is centered in the white area.

**FOLDER - FILE**

# FOLDER TREE

## ■ Cấu trúc thư mục



The image shows a screenshot of a file manager window, likely from an Android device, displaying a folder tree. The window has a title bar and a toolbar with icons for file operations. The main area is a table with columns for Name, Size, Date, Time, Permissions, and Info. The folders are listed in a tree structure, with the 'data' folder expanded to show its subfolders. The 'data' folder is highlighted with a blue selection bar.

| Name         | Size | Date       | Time  | Permissions | Info |
|--------------|------|------------|-------|-------------|------|
| data         |      | 2009-11-25 | 05:05 | drwxrwx--x  |      |
| anr          |      | 2011-09-16 | 19:53 | drwxrwx--x  |      |
| app          |      | 2009-11-25 | 05:06 | drwxrwx--x  |      |
| app-private  |      | 2011-09-16 | 19:53 | drwxrwx--x  |      |
| dalvik-cache |      | 2011-09-16 | 19:53 | drwxrwx--x  |      |
| data         |      | 2011-09-16 | 19:53 | drwxrwx--x  |      |
| local        |      | 2011-09-16 | 19:53 | drwxrwx--x  |      |
| lost+found   |      | 2011-09-16 | 19:53 | drwxrwx---  |      |
| misc         |      | 2011-09-16 | 19:53 | drwxrwx--t  |      |
| property     |      | 2011-09-16 | 19:53 | drwx-----   |      |
| system       |      | 2011-09-16 | 19:53 | drwxrwxr-x  |      |
| sdcard       |      | 1970-01-01 | 07:00 | d---rwxr-x  |      |
| system       |      | 2009-11-25 | 05:02 | drwxr-xr-x  |      |

# PHÂN LOẠI

- Cache folder

*/data/data/org.android.lib/cache*

*getCacheDir()*

- Internal folder

*/data/data/org.android.lib/files*

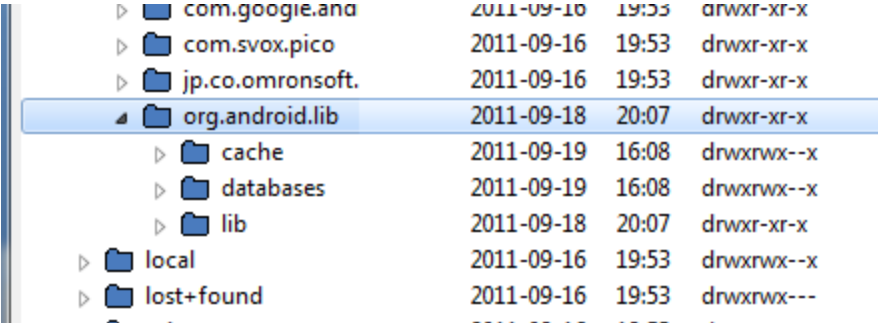
*getFileDir()*

- Cache Download Foldder */cache - Environment.getDownloadCacheDirectory()*

- Data Folder */data - Environment.getDataDirectory()*

- Root folder */system - Environment.getRootDirectory()*

- External Folder */sdcard - Environment.getExternalStorageDirectory()*



|   |                  |            |       |            |
|---|------------------|------------|-------|------------|
| ▷ | com.google.ana   | 2011-09-10 | 19:55 | drwxr-xr-x |
| ▷ | com.svox.pico    | 2011-09-16 | 19:53 | drwxr-xr-x |
| ▷ | jp.co.omronsoft. | 2011-09-16 | 19:53 | drwxr-xr-x |
| ▷ | org.android.lib  | 2011-09-18 | 20:07 | drwxr-xr-x |
| ▷ | cache            | 2011-09-19 | 16:08 | drwxrwx--x |
| ▷ | databases        | 2011-09-19 | 16:08 | drwxrwx--x |
| ▷ | lib              | 2011-09-18 | 20:07 | drwxr-xr-x |
| ▷ | local            | 2011-09-16 | 19:53 | drwxrwx--x |
| ▷ | lost+found       | 2011-09-16 | 19:53 | drwxrwx--- |

# LÀM VIỆC VỚI FILE

- Cách đọc ghi file (File, FileOutputStream, FileInputStream ...) – tương tự như trong java

- Cache File

*Các file được lưu trong thư mục /data/data/package-name/cache*

- Internal File

*Các file được lưu trong thư mục /data/data/package-name/files*

- External File

*Các file được lưu trong thư mục /sdcard*

*Để ghi được external file cần cấp quyền WRITE\_EXTERNAL\_STORAGE cho ứng dụng*

- Chú ý : cache file và internal file sẽ được xóa khi ứng dụng bị xóa khỏi điện thoại