

How AmazeFileManager works

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LongClick

com/amaze/filemanager/adapters/RecyclerViewAdapter.java

a

```
public void onBindViewHolder(final RecyclerView.ViewHolder vholder, int p) {  
    ...  
        holder.rl.setOnLongClickListener(p1 -> {  
            // check if the item on which action is performed is not the first {goback}  
item            if (!isBackButton) {  
                toggleChecked(vholder.getAdapterPosition(),
```

```
holder.checkImageView);
```

```
...
```

folderSize

com/amaze/filemanager/utils/files/FileUtils.java

```
public static long[] getSpaces(HybridFile hFile, Context context, final
OnProgressUpdate<Long[]> updateState) {
...
if (hFile.isDirectory(context)) {
    fileSize = hFile.folderSize(context);
```

com/amaze/filemanager/asynchronous/asynctasks/CountItemsOrAndSizeTask.java

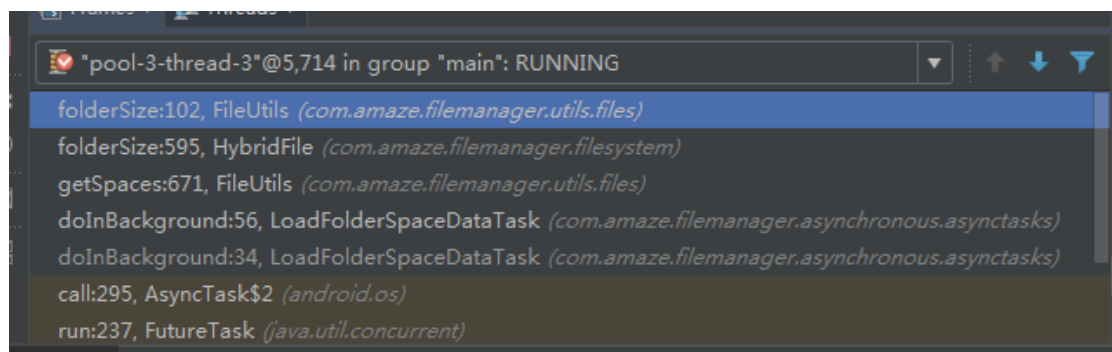
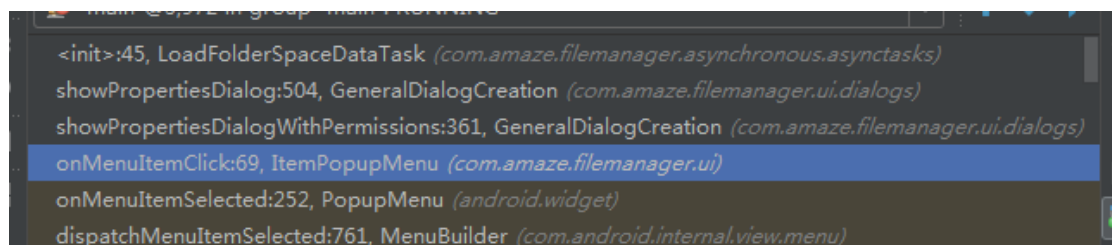
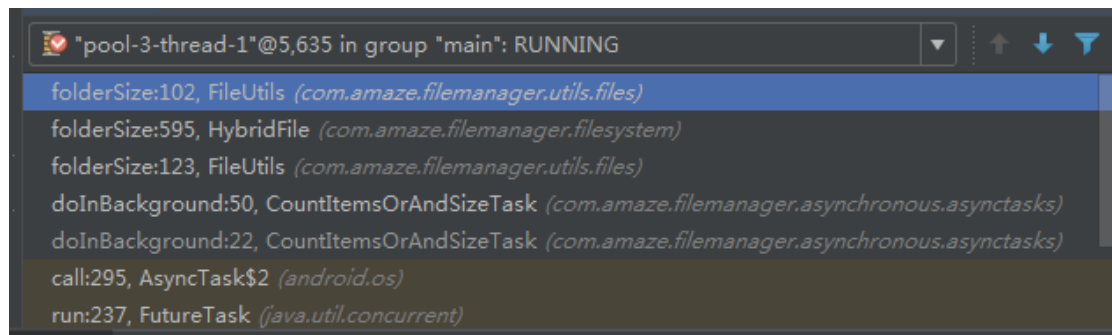
```
protected String doInBackground(Void[] params) {
...
    if(isStorage) {
        folderSize = file.getUsableSpace();
    } else {
        folderSize = FileUtils.folderSize(file, data -> publishProgress(new
Pair<>(folderLength, data)));
    }
```

AmazeFileManager\app\src\main\java\com\amaze\filemanager\asynchronous\asynctasks\LoadFolderSpaceDataTask.java

```
protected Pair<String, List<PieEntry>> doInBackground(Void... params) {
    long[] dataArray = FileUtils.getSpaces(file, context,
this::publishProgress);
```

com/amaze/filemanager/fragments/PropertiesSheet.java

```
public void setupDialog(Dialog dialog, int style) {  
    ...  
    mFileSizeTextView.setText(Formatter.formatFileSize(dialog.getContext(),  
    mFile.isDirectory() ? FileUtils.folderSize(new File(mFile.getPath()),  
    null) : mFile.getSize()));  
}
```



Show size

com/amaze/filemanager/fragments/MainFragment.jav

a

```
public void reloadListElements(boolean back, boolean results, boolean grid)
{
    ...
    if (adapter == null) {
        adapter = new RecyclerViewAdapter(getMainActivity(), ma, utilsProvider,
        sharedPref,
            listView, LIST_ELEMENTS, ma.getActivity());
    } else {
        adapter.setItems(listView, new ArrayList<>(LIST_ELEMENTS));
    }

    ...

    // method to add search result entry to the LIST_ELEMENT arrayList
    private LayoutElementParcelable addTo(HybridFileParcelable mFile) {
        ...
        if (mFile.isDirectory()) {
            size = "-1B";
        }
        /**
         * This loads a path into the MainFragment.
         * @param path the path to be loaded
         * @param back if we're coming back from any directory and want the scroll
         to be restored
         * @param openMode the mode in which the directory should be opened
         */
        public void loadlist(final String path, final boolean back, final OpenMode
        openMode) {
            ...
            loadFilesListTask = new LoadFilesListTask(ma.getActivity(), path, ma,
            openMode,
            ...
        }
    }
}
```

com/amaze/filemanager/asynchronous/asynctasks/LoadFilesListTask.java

```
protected Pair<OpenMode, ArrayList<LayoutElementParcelable>>
doInBackground(Void... p) {
    ...
    RootHelper.GetFiles(path, ma.getMainActivity().isRootExplorer(),
    showHiddenFiles,
        mode -> openmode = mode, file -> {
            LayoutElementParcelable elem = createListParcelables(file);
            if(elem != null) list.add(elem);
        });
    ...

private LayoutElementParcelable
createListParcelables(HybridFileParcelable baseFile) {
    ...
    if (baseFile.isDirectory()) {
        ma.folder_count++;
    }
}
```

com/amaze/filemanager/adapters/RecyclerAdapter.java

a

```
public void onBindViewHolder(final RecyclerView.ViewHolder vholder, int p)
{
    if (getBoolean(PREFERENCE_SHOW_LAST_MODIFIED)) {
        holder.date.setText(rowItem.date1);
    } else {
        holder.date.setVisibility(View.GONE);
    }
}

if (isBackButton) {
    holder.date.setText(rowItem.size);
    holder.txtDesc.setText("");
}
```

```
} else if (getBoolean(PREFERENCE_SHOW_FILE_SIZE)) {
    holder.txtDesc.setText(rowItem.size);
}
...
if (getBoolean(PREFERENCE_SHOW_PERMISSIONS))
    holder.perm.setText(rowItem.permissions);
    holder.date.setText(rowItem.date1+"lra1");
} else {
    holder.date.setVisibility(View.GONE);
    if (getBoolean(PREFERENCE_SHOW_LAST_MODIFIED)) {
    }

if (isBackButton) {
    holder.date.setText(rowItem.size+"lra2");
    holder.txtDesc.setText("lra3");
} else if (getBoolean(PREFERENCE_SHOW_FILE_SIZE)) {
    holder.txtDesc.setText(rowItem.size+"lra4");
}
...

```



LTE 1:16

/storage/emulated/0/Alarms

1 folders and 1 files

Folders



1

Oct 29lra1 lra4



Files



1.txt

Oct 29lra1 2.00 Blra4



```

public void createHeaders(boolean invalidate, List<IconDataParcelable>
uris) {

private void setItems(RecyclerView recyclerView,
ArrayList<LayoutElementParcelable> arrayList, boolean invalidate) {

```

PropertiesDialog

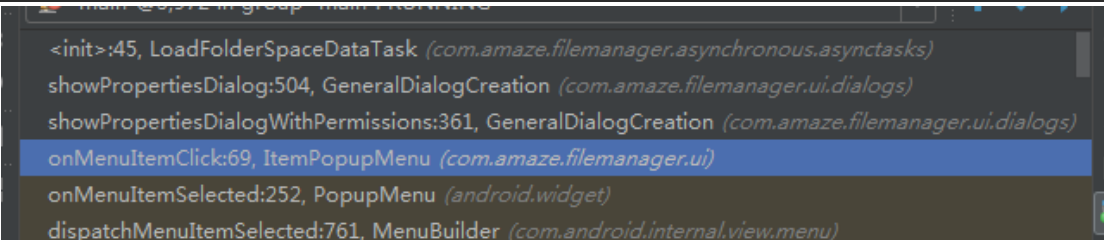
com/amaze/filemanager/ui/ItemPopupMenu.java

```

public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
        case R.id.about:

GeneralDialogCreation.showPropertiesDialogWithPermissions((rowItem).gene
rateBaseFile(),
                    rowItem.permissions, (ThemedActivity)
mainFragment.getActivity(),
                    mainActivity.isRootExplorer(),
utilitiesProvider.getAppTheme());
...

```



```

main @0.0.0:main group main (android.os.Bundle)
<init>:45, LoadFolderSpaceDataTask (com.amaze.filemanager.asynchronous.asyncTasks)
showPropertiesDialog:504, GeneralDialogCreation (com.amaze.filemanager.ui.dialogs)
showPropertiesDialogWithPermissions:361, GeneralDialogCreation (com.amaze.filemanager.ui.dialogs)
onMenuItemClick:69, ItemPopupMenu (com.amaze.filemanager.ui)
onMenuItemSelected:252, PopupMenu (android.widget)
dispatchMenuItemSelected:761, MenuBuilder (com.android.internal.view.menu)

```


Sort

com/amaze/filemanager/activities/MainActivity.java

```
case R.id.sort:
    Fragment fragment = getFragmentManager();
    if (fragment instanceof AppsListFragment) {
        GeneralDialogCreation.showSortDialog((AppsListFragment) fragment,
getAppTheme());
    }
    break;
case R.id.sortby:
    if (ma != null)
        GeneralDialogCreation.showSortDialog(ma, getAppTheme(),
getPrefs());
    break;
case R.id.dsor:
    if (ma == null) return super.onOptionsItemSelected(item);
    String[] sort =
getResources().getStringArray(R.array.directorysortmode);
    MaterialDialog.Builder builder = new
MaterialDialog.Builder(mainActivity);
```

com/amaze/filemanager/ui/dialogs/GeneralDialogCreation.java

```
private static void onSortTypeSelected(MainFragment m, SharedPreferences
sharedPref, Set<String> onlyThisFloders, MaterialDialog dialog, boolean
desc) {
```

com/amaze/filemanager/fragments/MainFragment.java

```
/**
 * This loads a path into the MainFragment.
 * @param path the path to be loaded
```

```

    * @param back if we're coming back from any directory and want the scroll
    to be restored
    * @param openMode the mode in which the directory should be opened
    */
    public void loadlist(final String path, final boolean back, final OpenMode
    openMode) {
    ...
    loadFilesListTask.executeOnExecutor(AsyncTask.THREAD_POOL_EXECUTOR);

    ...

    public void onSearchCompleted(final String query) {
    ...
        Collections.sort(LIST_ELEMENTS, new FileListSorter(dsor
    tby, asc));
    }
    }

```

com/amaze/filemanager/asynchronous/asynctasks/LoadFilesListTask.java

```

protected Pair<OpenMode, ArrayList<LayoutElementParcelable>>
doInBackground(Void... p) {
    ...
    Collections.sort(list, new FileListSorter(ma.dsor
    tby, asc));
}

```

com/amaze/filemanager/utils/files/FileListSorter.java

```

public int compare(LayoutElementParcelable file1, LayoutElementParcelable
file2) {

```