PANORAMIC FOR ANDROID

1.   Panoramic for Android

Panoramic for Android is available by the executable **panoramic.apk** which can be installed on all equipment with Android greater than or equal to 4.1.

It is an interpreter executing text sources created from scratch or modified, or downloaded from a computer.

It is still in development and some features do not work normally.

The syntax is the same as Panoramic for Windows: the cross-platform development between Windows and Android is my target.

2.   Installation procedure

2.1. Pre-requisite

To install panoramic.apk on an Android equipment (called Phone), you must have:
- a USB cable between Computer and Android equipment,
- a Computer able to browse Phone by an installed driver.

2.2. Installation of panoramic.apk

- on Phone, starts « Setting »,

- in « Developer Options », authorize « Debug mode when USB is connected » in USB debugging,

- connect Phone to Computer PC with USB cable,

- on Computer, with Windows Explorer, find the Phone directory Download,

- transfer panoramic.apk to Download directory,

- on Phone, with « File Commander » or « Android File Manager » or other File Browser, find panoramic.apk in Download directory,

- tap the file panoramic.apk : the installation process starts, authorize it,

- that's all : Panoramic for Android is installed.
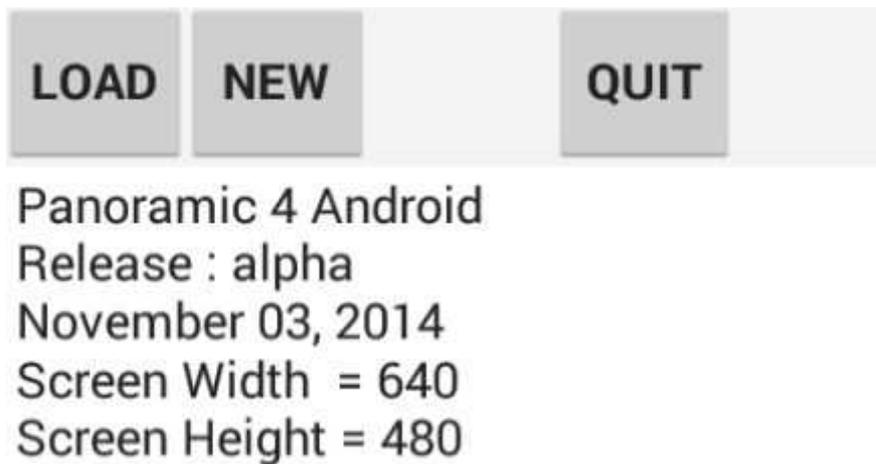
Its icon can be seen on Phone :

3.   How to use Panoramic for Android

3.1. Main Page

Touch PA icon: Panoramic starts and the main page is displayed.

Main Page has 3 buttons: **LOAD**, **NEW**, **QUIT** and some information are displayed:

    Name
    Version
    Generation date
    Screen size in pixels

3.2. Button QUIT

Button **QUIT** displays a confirmation message with 2 buttons **YES** and **NO**.

YES stops Panoramic, **NO** comes back to Main Page.

3.3. Button LOAD

Button **LOAD** lists available source files in Phone Download directory.

Example files are set into this directory and can be used to get familiar with Panoramic.

By touching one of these files, its content is displayed, and a button **RUN** is displayed for execution.

When the file content is displayed, it is possible :
- to alter it by the virtual keyboard of android then to run it (**RUN**) or to save it (**SAVE),**
- to run it directly by button **RUN**.

Example of proposed example file:


```
LOAD    RUN    SAVE    QUIT

LABEL CLIC

BUTTON 1
TOP 1,10:LEFT 1,20
WIDTH 1,250:HEIGHT 1,50
CAPTION 1,"Click on me"
ON_CLICK 1,CLIC
END

CLIC:
CAPTION 1,"Made with Panoramic"
RETURN
```

3.4. Button NEW

Button **NEW** of Main Page starts file edition with a blank page. A new source can be edited with Android means (virtual keyboard, select and paste):


```
LOAD    RUN    SAVE    QUIT
```

3.5. Button SAVE

Button **SAVE** is used to save modified sources (created from scratch by **NEW**, or get by **LOAD** then modified). Name of file must be given:

4.   Source files

4.1. Source file format

Source files are in text format.

Two extensions are possible: **BAS** or **TXT.** Panoramic uses BAS or TXT.

A source file can be generated by an Android word processing, provided that you save it in text format (ANSI option).

4.2. Source file from Computer to Phone

It is more easy to edit a source file in a Computer.

A source file can be transferred from Computer to Phone by a USB cable:

- connect Phone to Computer PC with USB cable,

- on Computer, with Windows Explorer, find the directory Download of Phone,

- transfer source file (.bas or .txt) to Phone Download directory,

Button **LOAD** of Main Page will then display the file.

5.   Differences between Windows and Android

Change your habits !

With Android, there is:
     No mouse,
     No menu (then no **MAIN_MENU** and no **SUB_MENU**),
     No objects to browse directories (then no **OPEN_DIALOG** and no
     SAVE_DIALOG),

To simplify the development, I remove (for the moment) objects **SCENE2D** and **SCENE3D**. I will develop them in the future.

6.   The cross-platform development

Panoramic for Windows and Panoramic for Android have the same syntax.

There are a lot of common key-words, so if your application runs on Windows, it runs on Android and vice versa.

The cross-platform development is the base Panoramic for Android.

7.   Objects used by Panoramic for Android

Today, the following objects can be used by Panoramic for Android:

     BUTTON
     EDIT
     MEMO
     COMBO
     ALPHA
     LIST
     PICTURE
     CHECK
     OPTION
     SOUND
     TRACK_BAR
     SCROLL_BAR
     PROGRESS_BAR
     GRID
     CONTAINER
     DLIST
     TIMER
     PANEL
     IMAGE

Specific Phone objects are planned:

     Camera,
     GPS,
     Compass,
     Gyroscope, …