

In conjunction with Moore Educational
 FOR LEGO Education supplies and support



CREATING YOUR OWN GRAPHICS (.rso) file for the NXT LCD screen

LEGO has made available a simple graphics drawing program (similar to MS Paint) for NXT on their web site .

Download, un-zip and save the file on your computer. Put a shortcut to this utility on the desktop. Create your graphics and click "save as " and add a name. This utility usually (on a stand-alone, un-networked computer) automatically saves your graphic into the NXT programs ENGINE, PICTURES folder where the file is saved as a .ric file and will appear in your pull down graphics menu in the NXT software graphics configuration bar.


Now that you have created your graphics you can use it in your NXT robots program and show it on the NXT LCD screen

DOWNLOAD LINK

http://www.legoengineering.com/component/option,com_docman/task,cat_view/gid,42/Itemid,69

. [nxtRICredit](#) is a free download













NXT LCD Image Editor (PC Only) *hot!* ⓘ 08.06.2006

This application allows users to create custom images to use in the NXT Software that will display on the LCD screen. Add them to the Pictures folder inside the engine folder of your NXT Software installation.

Un Zip and extract

WinZip (Evaluation Version) - nxtRICredit(2).zip

File Actions Options Help

Name	Modified	Size	Ratio	Packed	Path
<input type="checkbox"/> nxtRICredit.exe	22-Apr-06 10:54 PM	769,536	50%	383,781	

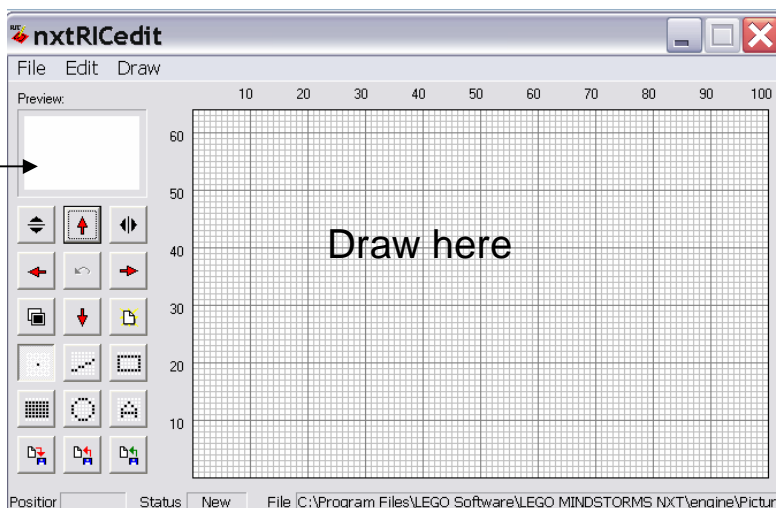
Create a shortcut to this application for easy access.



Launch the application and start drawing.

The graph paper area is exactly the right size for the NXT LCD screen draw in this area

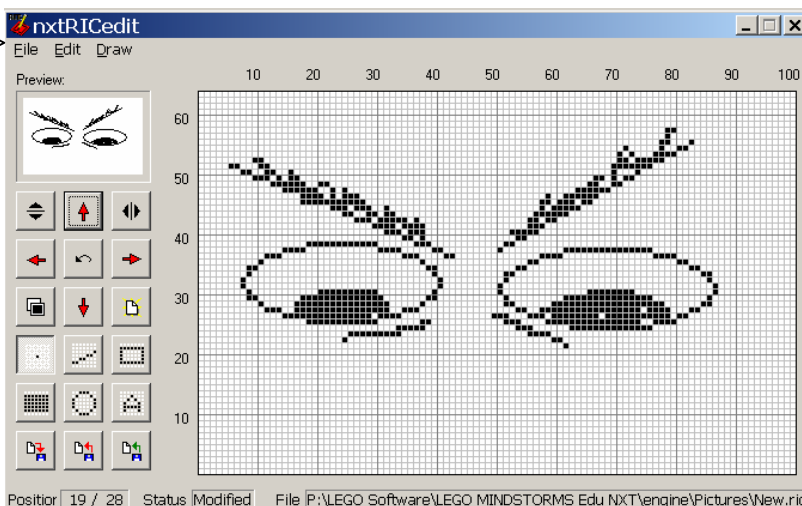
This window shows how your artwork will look on the NXT LCD panel



Create your graphics and save it where you can find it again as the program will ask you to type in the name and location of your file. The file is saved as a .rso file

File → Save as

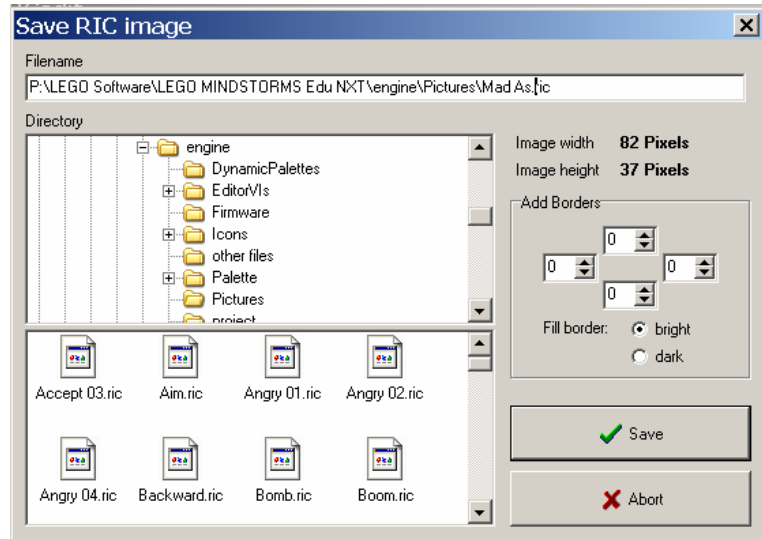
Now that you have created your graphics you can use it in your NXT robots program and show it on the NXT LCD screen (Note – the current LCD screen shows a black line against a green background, not colour)



Save your creation

Click SAVE AS from the FILE pull down menu. LEGO has made it easy, the program will locate the NXT program graphics folder on your hard drive and automatically create the correct file path. You will have to add your own name to the end. The file is saved as a ,ric file and will appear in your pull down graphics menu in the NXT software graphics configuration bar.

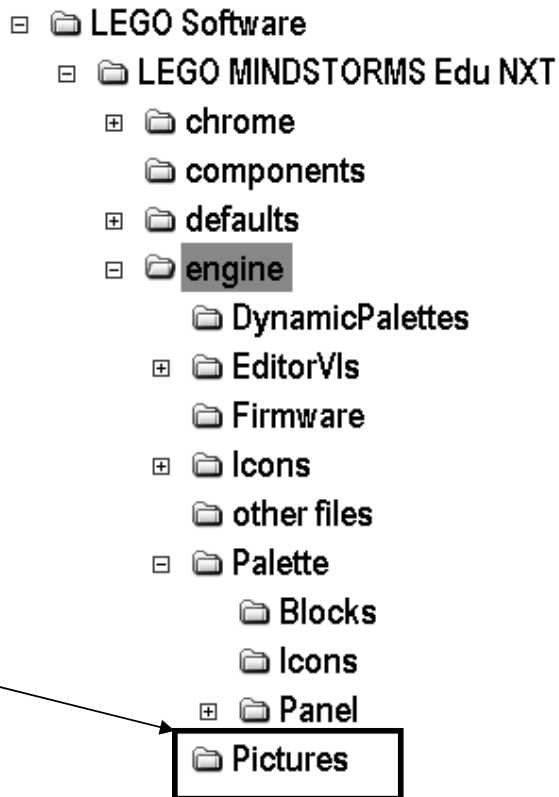
I didn't always find that this worked so you may need to locate the .ric file you created and manually copy and paste it into the LEGO NXT PICTURES file



The FILE SAVE AS from the FILE pull down menu for your graphics file is not designed for networked computers. For networked computers ask the students to save their created graphics in a specific folder. The teacher/systems administrator will have to manually move their graphics over to the NXT Software, ENGINE, PICTURES folder on your server. It can then be accessed by the students in the manner described above

On your hard drive go to –
LEGO Software

Engine



Pictures --- . Paste your picture here
And the next time you open the NXT software graphic configuration bar your file should appear in the menu here

To Use Your Graphic in your program



- 1- Create and save your graphic (as above)
- 2- In the NXT g programming software select the DISPLAY icon and then configure (select which graphic you want) from the configuration bar at the bottom left of your screen. The DISPLAY icon must be LIVE (blue outline) to enable you to adjust it.

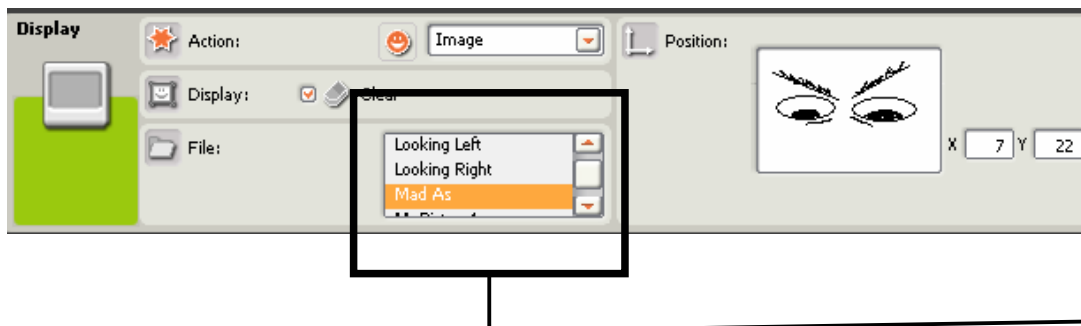


Live (configurable) **DISPLAY icon**

Configuration bar below



Select your graphic by file name here. If it doesn't show up in the list using the scroll bar use the  



The NXT Software – the file tree on your hard-drive

The LEGO MINDSTORMS NXT software installs by default on your hard-drive in C:/ , or elsewhere if you nominate another location

- [-] 📁 LEGO Software
 - [-] 📁 LEGO MINDSTORMS Edu NXT

- [-] 📁 LEGO Software
 - [-] 📁 LEGO MINDSTORMS Edu NXT
 - [-] 📁 chrome
 - [-] 📁 components
 - [-] 📁 defaults
 - [-] 📁 engine
 - [-] 📁 DynamicPalettes
 - [-] 📁 EditorVIs
 - [-] 📁 Firmware
 - [-] 📁 Icons
 - [-] 📁 other files
 - [-] 📁 Palette
 - [-] 📁 Pictures
 - [-] 📁 project
 - [-] 📁 resource
 - [-] 📁 Sounds
 - [-] 📁 TargettingVIs
 - [-] 📁 vi.lib
 - [-] 📁 plugins
 - [-] 📁 res

If you wish to insert graphics or sounds that you have created (or those included on this CD) you will need to have administrator access permission to the LEGO MINDSTORMS Edu NXT software on your computer. Specifically ENGINE-->Pictures --> and ENGINE->Sounds.

For networked / school security installations teachers will have to negotiate this issue with their systems administrator.