

PicXtras v1.3

PicXtras is a REALbasic plugin that adds several useful methods to the standard Picture and FolderItem classes. PicXtras is a FAT plugin, this means that works both on 68K and PPC Macs. 68K only plugins work also on PPC Mac, but by being PPC native, time consuming picture functions of PicXtras are accelerated on a PowerMac.

PicXtras works only on 2.0 or greater REALbasic versions.

PicXtras extends the Picture class to perform the following:

- FlipH (mirror the picture horizontally).
- FlipV (mirror the picture vertically).
- RotateRight (rotate the picture 90° to the right).
- RotateLeft (rotate the picture 90° to the left).
- Rotate (rotate the picture by a number of degrees).
- Brightness and Contrast the picture.
- Adjust Color Balance of the picture.
- Adjust Hue and Saturation of the picture.

And the FolderItem class to:

- Create a File's custom icon with a picture.
- Get a File's Large and Small icon. (FREE!!)

Installing PicXtras

To install PicXtras drop the plugin in a folder called "Plugins" that resides in the same folder as the REALbasic application.

PicXtras will work in demo mode until it is registered. Pictures altered with PicXtras will have the "DEMO" word on them.

Once you have your registration keys you must call the **UnlockPicXtras** method.

UnlockPicXtras(aRef as string, aKey as string) as Boolean

Where **aRef** and **aKey** are the registration key codes that you receive when you register PicXtras.

This method will return true if the registration keys are correct.

A good place to call this method is in the **Open()** event of your window or your Application object.

Note that UnlockPicXtras is not a method of the Picture class.

All the picture extensions of PicXtras return the modified picture leaving the original untouched. If you want to modify the original simply assign the resulting picture to itself. Picture manipulations need a lot of memory, if PicXtras has not enough will return **nil**.

Examples:

- Original Untouch

```
Dim Pic1,Pic2 as Picture
```

```
Pic1=NewPicture(100,100,8)
```

```
Pic2=Pic1.FlipH
```

- Modify Original

```
Dim Pic1 as Picture
```

```
Pic1=NewPicture(100,100,8)
```

```
Pic1=Pic1.FlipH
```

Note: The current version of PicXtras always returns 32 bit Pictures.

aPicture.**FlipH()** as Picture

Mirrors the picture Horizontally.



aPicture.**FlipV()** as Picture

Mirrors the picture Vertically.



aPicture.**RotateRight()** as Picture

Rotates the picture 90° degrees to the right.



aPicture.**RotateLeft()** as Picture

Rotates the picture 90° degrees to the left.



aPicture.**Rotate(degrees as integer)** as Picture

Rotates the picture the specified number of degrees.



aPicture.**BrightnessContrast**(brightness as integer, contrast as integer) as Picture

Increases or decreases the brightness and contrast of the picture.

For brightness and contrast specify values from -100% to 100%, where 0% leaves the original picture untouched.

aPicture.**ColorBalance**(red as integer, green as integer, blue as integer) as Picture

Increases or decreases red, green and blue color intensities of the picture. Specify values from -100% to 100% for each component, where 0% leaves the original picture untouched.

aPicture.HueSaturation(aHue as integer, aSat as integer) as Picture

Increases or decreases the hue and saturation of the picture.
For hue specify values from -180° to 180° , where 0° leaves the original picture untouched. For saturation specify values from -100% to 100% , where 0% leaves the original picture untouched.

PicXtras FolderItem Extensions

aFolderItem.CreateCustomIcon(aPicture as Picture)

Creates a custom icon with the Picture for the specified file. You can specify any kind of file, not necessary a picture file.



aFolderItem.GetLargeIcon(transform as integer) as Picture

















aFolderItem.GetSmallIcon(transform as integer) as Picture

Returns the FolderItem icon displayed by the “Finder” as a Picture. You may specify a transformation constant that will affect the resulting picture. (See table below)

	ttNone	ttDisabled	ttOffline	ttOpen	ttSelected	ttSelected +	ttSelected +	ttSelected +
Small								
Large								

All the constants on the table are defined in the PicXtras plugin. Additionally you may add the ttLabel constant. To use the ttLabel constant you must specify a number of label, where ttLabel(0) means no Label.

RBFolderItem.**GetLargeIcon(ttNone+ttLabel(7))**

	ttNone	ttDisabled	ttOffline	ttOpen	ttSelected	ttSelected +	ttSelected +	ttSelected +	
Small									
Large									

Version History

8 October 1999, v1.0

First Release.

13 October 1999, v1.1

Added Brighness and Contrast Method.

20 October 1999, v1.2

Added Color Balance Method.

26 October 1999, v1.3

Added HueSaturation Method to picture class.

CreateCustomIcon is now a extension to the FolderItem class.

New GetLarge/Small icons in FolderItem class. (this methods are Free).