

super_picture ii

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Chapter 1

super_picture

1.1 Amiga-E MODULE: Super_Picture

```
** Super_Picture - Original By Fabio Rotondo **
         ** This Object is part of the Amiga Foundation Classes **
                       ** DOCUMENTATION GUIDE **
             Introduction
             Author Info
                 Amiga Foundation Classes
             History
               Requires: IFFParser , Bitmapper , Palette
          trueBitmap , resourceTracker
          AFC Tools / bitmap2true
Base: $0007000
COMMANDS
                                  BRIEF DESCRIPTION
             super_picture(pal=TRUE, resTracker)
             Class Constructor.
             bitmap()
             Returns picture's bitmap.
             bmhd()
             Returns the BitmapHeader.
             bmobj()
             Returns embedded bitmapper.
             check(filename)
             Checks IF the file is a valid ILBM.
             clear()
```

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```
Frees ALL memory.
cludge()
Converts a memory area into a picture.
depth()
Returns picture's depth.
dtload(fname, layers, rport, scr)
Loads a picture using DataTypes only.
dump()
Dumps a picture inside a file in raw format.
empty()
Checks against class emptyness.
height()
Returns picture's height.
image()
Creates AND returns picture's image structure.
load(fname, layers, rport, trap)
Loads up a picture.
loadraw(filename)
Loads a dumped file into memory.
modeid()
Returns picture's ModeID.
numcols()
Returns number of colours.
palette()
Returns the picture's palette class.
paltoscr(screen)
Set the screen palette.
rastport()
Returns the bitmap rastport.
remap(scr, mode=REMAP_SCREEN)
Remaps the bitmap TO a NEW palette.
trueBitmap()
Return embedded trueBitmap class.
trueconv()
Creates the trueBitmap
width()
Returns picture's width.
version()
```

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Returns class version AND revision.

Error Table

V1.00 - Inital release

1.2 Amiga Foundation Classes: Super_Picture / History

```
HISTORY
V2.20 - ADD: resourceTracker support
        ADD:
             trueBitamp()
             method.
V2.10 - ADD:
             empty()
             method.
V2.00 - ADD: *great* the NEW
             remap()
             method!
        ADD: *great* the NEW
             trueconv()
             method!
        ADD: now the palette is handled using the Palette Class
        ENH: now the
             palette()
             method returns the Palette Class pointer.
        ENH: now the
             load()
             method will remap the picture also under OS2.04+
             if you'll provide a valid screen pointer.
V1.50 - Add:
             dtload()
             method
        Enh: now datatype loading supports remapping
        Enh: Added an optional parameter to the
             load()
             method.
V1.40 - Add: image() method
V1.30 - Add: dump() method
V1.20 - Fix: small bug in decodebody() method
V1.10 - Add: cludge() method
```

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1.3 Author(s) Info

```
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                                                            (my home page)
               http://www.intercom.it/~fsoft/ablast.html (Amiga Blast Home ↔
                   Page)
```

1.4 Introduction

```
Super Picture Class - Introduction

This is a very useful class which interfaces the programmer with OS2.0 and OS3 \( \to \).0

features in loading pictures.

This class allows you to load any kind of picture (via DataTypes) without \( \to \) worrying

about interfacing with datatypes.library, because it does it all by itself.

The great thing is that is the class itself which knows if DataTypes are \( \to \) avaible

or not and, if not, the class will just handle standard ILBM IFF files, using \( \to \) a

very fast ILBM decoding routine built in: no need of iff.library or any other "non-standard Amiga" libraries.

I hope you will enjoy this class.
```

Fabio Rotondo

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NOTE: many thanks to Alfred P. Schwarz, who elped me in writing the image() $\ \leftarrow$ method.

1.5 Super_Picture / Error Table

```
EXPORT ENUM SPERR_NOMEMORY=SUPERPIC_BASE, SPERR_DTLIB, SPERR_OBJCRE, ← SPERR_DOMETHOD, SPERR_SAVEFILE, SPERR_BMHD, SPERR_CMAP, SPERR_BODY
```

VALUE CONSTANT NAME		DESCRIPTION
+	-+-	
\$0000 SPERR_NOMEMORY		No Memory
\$0001 SPERR_DTLIB		Could not open 'datatypes.library'
\$0002 SPERR_OBJCRE		Could not create datatype OBJECT
\$0003 SPERR_DOMETHOD		DoMethod() call failed
\$0004 SPERR_SAVEFILE		Could not save file
\$0005 SPERR_OPENSAVEFILE		Could not open file FOR saving
\$0006 SPERR_BMHD		BitMapHeader Chunk not found
\$0007 SPERR_CMAP		ColorMap chunk not found
\$0008 SPERR_BODY		Body Chunk not found

1.6 Amiga Foundation Classes: Super_Picture/Super_Picture()

1.7 Amiga Foundation Classes: Super_Picture/clear()

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NAME: clear()

DESCRIPTION: This method will free all allocated resources inside a

super_picture class.

INPUT: NONE.

RESULTS: Memory will be freed.

NOTE: It is safe to call this method also if the class has not been

used yet.

SEE ALSO: bitmapper / clear()

1.8 Amiga Foundation Classes: Super_Picture/load()

NAME: load(fname: PTR TO CHAR, layers=FALSE, rastport= \leftarrow FALSE, trap=TRUE, scr=NIL)

DESCRIPTION: This is the biggy. This method will try to load a picture in memory. If the user has OS3.0+, also all picture formats supported by datatypes can be loaded. Under OS2.0+ only ILBM

IFF files will be supported.

INPUT: fname — The file name of the picture you wish to $\ensuremath{\hookleftarrow}$ load.

layers - (DEFAULT: FALSE) If you want to create a $\ensuremath{\hookleftarrow}$ layer

related to the picture you are loading,

set this to TRUE.

rastport - (DEFAULT: FALSE) If you want to create a rastport to the picture you are loading,

set this to TRUE.

trap - (DEFAULT: TRUE) If the picture does not

exists (i.e. "File not found"), then the class WILL NOT return raise any error, but you will get the error number as a return code (you can also ignore it,

if you want.)

If it is set to FALSE, then the class $% \left(1\right) =\left(1\right) \left(1\right) \left$

will raise an exception.

scr - (DEFAULT: NIL) You can provide a screen from where the palette will be used to

remap the picture during loading.

RESULTS: if trap is TRUE and an error occurred, you will have as a

result the error value.

SEE ALSO:

dtload()

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```
Bitmapper / allocbitmap()
IFFParser / load()
```

1.9 Amiga Foundation Classes: Super_Picture/check()

NAME: check (filename : PTR TO CHAR)

DESCRIPTION: This method checks the given file and says if it is a valid

IFF ILBM file or not.

INPUT: filename - Name of the file to check

RESULTS: TRUE - It is a valid IFF ILBM file

FALSE - It is not a valid IFF ILBM file

NOTE: Usually, you should not use this method, because the

load()

method will do this check for you.

SEE ALSO: IFFParser / getheader()

1.10 Amiga Foundation Classes: Super_Picture/paltoscr()

NAME: paltoscr(scr:PTR TO screen, view=FALSE)

DESCRIPTION: This method sets up the palette of a screen accordingly to the

picture palette.

NOTE: starting from V2.0, you can also pass a viewport

as a parameter.

INPUT: scr - A *valid* screen pointer.

(or a *valid* viewport pointer)

view - (Optional) Set this to TRUE if

you are providing a viewport pointer

instead of a screen pointer.

RESULTS: NONE.

SEE ALSO: setPal()

1.11 Amiga Foundation Classes: Super_Picture/bmhd()

NAME: bmhd()

DESCRIPTION: This method returns the current BitMapHeader.

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```
INPUT: NONE.

RESULTS: A pointer to a valid BitMapHeader structure.

SEE ALSO:
```

1.12 Amiga Foundation Classes: Super_Picture/bitmap()

```
NAME: bitmap()

DESCRIPTION: This method returns a pointer to the current bitmap structure.

INPUT: NONE.

RESULTS: a pointer to a Bitmap structure. It may be NIL.

SEE ALSO: bitmapper / bitmap()
```

1.13 Amiga Foundation Classes: Super_Picture/numcols()

```
NAME: numcols()

DESCRIPTION: This method returns the number of colours of the loaded picture.

INPUT: NONE.

RESULTS: number of colours of the picture. It may be 0.

SEE ALSO:
```

1.14 Amiga Foundation Classes: Super_Picture/modeid()

```
NAME: modeid()

DESCRIPTION: This method returns the default modeid of the picture.

The ModeID is the standard monitor value for displaying the picture.

INPUT: NONE.

RESULTS: a LONG value, containing the ModeID.

SEE ALSO:
```

1.15 Amiga Foundation Classes: Super_Picture/width()

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```
NAME: width()

DESCRIPTION: This method returns picture's width.

INPUT: NONE.

RESULTS: a INT containing picture's width. It may be 0.

SEE ALSO:

height()

depth()
```

1.16 Amiga Foundation Classes: Super_Picture/height()

```
NAME: height()

DESCRIPTION: This method return picture's height.

INPUT: NONE.

RESULTS: a INT value containing the picture's height. It may be 0.

SEE ALSO:

width()

depth()
```

1.17 Amiga Foundation Classes: Super_Picture/depth()

```
NAME: depth()

DESCRIPTION: This method returns the picture's depth.

INPUT: NONE.

RESULTS: a BYTE value containing the picture depth. It may be 0.

SEE ALSO:

width()

height()
```

1.18 Amiga Foundation Classes: Super_Picture/Super_Picture()

```
NAME: rastport()

DESCRIPTION: This method returns a pointer to the picture's rastport.
```

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```
INPUT: NONE

RESULTS: a ptr to the picture's rastport. It may be NIL.

SEE ALSO: bitmapper / rastport()
```

1.19 Amiga Foundation Classes: Super_Picture/bmobj()()

```
NAME: bmobj()

DESCRIPTION: This method returns a pointer to the embedded bitmapper class.

INPUT: NONE.

RESULTS: a ptr to the embedded bitmapper class: USE IT AT YOUR OWN RISK!

SEE ALSO: bitmapper
```

1.20 Amiga Foundation Classes: Super_Picture/palette()

```
NAME: palette()

DESCRIPTION: This method returns picture's palette class.

INPUT: NONE.

RESULTS: this method has sligtly changed since V1.x of Super_Picture class, since now it returns a pointer to the hidden Palette class and not the palette anymore.

SEE ALSO: Palette Class
```

1.21 Amiga Foundation Classes: Super_Picture/version()

```
NAME: version()

DESCRIPTION: This method returns class version and revision.

INPUT: NONE.

RESULTS: This method returns TWO values, version and revision.

SEE ALSO:
```

1.22 Amiga Foundation Classes: Super_Picture/cludge()

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```
NAME: cludge(mem:PTR TO CHAR)

DESCRIPTION: This method converts a memory area into a bitmap.

INPUT: mem - PTR to the starting memory area.

RESULTS:

NOTE: this MUST be a _valid_ memory area created using the dump() method.

SEE ALSO: dump() bitmapper / cludge()
```

1.23 Amiga Foundation Classes: Super_Picture/Super_Picture()

1.24 Amiga Foundation Classes: Super_Picture/loadraw()

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> dump() bitmapper / loadraw()

1.25 Amiga Foundation Classes: Super Picture/image()

NAME: image()

DESCRIPTION: Sometimes, it is usefull to obtain picture Image structure, the $\,\,\,\,\,\,\,\,\,\,\,\,\,$

one

used by Ituition gadgets. Using this method, you can obtain this

Image structure.

INPUT: NONE

RESULTS: a pointer to a valid Image structure.

NOTE: This method is *slow* the first time you call it, because it has to create the Image structure and picture. Then, it will be

fastlighting, until you don't load another picture in the class.

SEE ALSO: Bitmapper / image()

1.26 Amiga Foundation Classes: Super Picture/dtload()

NAME: dtload(fname: PTR TO CHAR, layers=FALSE, rastport \leftarrow =FALSE, scr=NIL:PTR TO screen)

DESCRIPTION: This is a lower level method than the

load() one.

Using this method you will load a picture using DataTypes ONLY.

This means that you can use this only on OS3.0+.

This method is faster than the

load()

one because

it does not perform the usual "format checking" before trying to $\ensuremath{\hookleftarrow}$

load the picture.

INPUT: fname - The file name of the picture you wish to $\, \hookleftarrow \,$ dtload.

layers - (DEFAULT: FALSE) If you want to create a $\ensuremath{\hookleftarrow}$

layer

related to the picture you are dtloading,

set this to TRUE.

- (DEFAULT: FALSE) If you want to create a rastport

rastport to the picture you are dtloading,

set this to TRUE.

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- (DEFAULT: NIL) You can provide a pointer to scr a screen as the last parameter. If a screen pointer is passed, then the \leftrightarrow picture will be remapped accordingly to the palette attatched to the provided screen. NOTE: This method CANNOT be trapped. If an error occurred, it will \leftrightarrow raise an error. RESULTS: NOTHING. SEE ALSO: load() Bitmapper / allocbitmap() IFFParser / dtload()

1.27 Amiga Foundation Classes: Super Picture/remap()

NAME: remap(scr:PTR TO screen, mode=REMAP_SCREEN) DESCRIPTION: this method is used to remap the picture currently in memory to fit inside a new screen with a different palette. The remap use a quite smart routine :) INPUT: scr - Pointer to a _valid_ screen or viewport or palette class. mode - (OPTIONAL) Use it to describe the remap method. You *must* provide the right value if you are passing a pointer to a viewport or a palette class. Avaible values are: REMAP_SCREEN - If you passed a pointer to a screen. REMAP_VIEWPORT - If you passed a pointer to a viewport \leftarrow REMAP_PALETTE - If you passed a pointer to a palette $\,\,\,\,\,\,\,\,\,\,\,\,$ class. NOTE: In both REMAP_SCREEN and REMAP_VIEWPORT mode, the remap() method

will test the destination screen/viewport depth and will arrange the bitmap to fit the destination depth.

In the REMAP_PALETTE mode, the current depth is assumed.

After a remap, you should *not* perform another remap on the same bitmap, because palette RGB values are wrong.

The remap() method could use the blitter.

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```
The remap() method could allocate a new bitmap.

RESULTS: the bitmap will be ready to be blitted on the new screen/viewport ←

.

SEE ALSO: Palette Class
Bitmapper/assign()
```

1.28 Amiga Foundation Classes: Super_Picture/trueconv()

```
NAME: trueconv()

DESCRIPTION: this method will return a pointer to a new trueBitmap class containing the current picture in the super_picture class.

INPUT: NONE

RESULTS: a pointer to a trueBitmap class.

It may be NIL.

SEE ALSO: trueBitmap()
```

1.29 Amiga Foundation Classes: Super_Picture/empty()

```
NAME: empty()

DESCRIPTION: use this method to check against class emptyness.

INPUT: NONE

RESULTS: a boolean value. FALSE means that something is inside the class: the bitmap, the palette or the trueBitmap.

SEE ALSO: Bitmapper / empty()
Palette / empty()
trueBitmap / empty()
```

1.30 Amiga Foundation Classes: Super_Picture/trueBitmap()

```
NAME: trueBitmap()

DESCRIPTION: this method will return a pointer to a _valid_

trueBitamp
class embedded in
the super_picture class.
```

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INPUT: NONE

RESULTS: a pointer to a valid

trueBitmap
class.

It may be NIL.

SEE ALSO: