

# **DT\_MacPict2**

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**COLLABORATORS**

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**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## DT\_MacPict2

### 1.1 MacPict2 datatype

Macintosh PICT2 Datatype v40.2

Written by Erik Engdahl

This software is FREeware.

Copyright  
Introduction  
Requirements  
Installation  
Preferences  
Picture Notes  
Notes  
History  
To do  
Thanks

Wanted: Pictures in MacPICT format that the datatype can not handle.

### 1.2 legal

The program is FREeware and Copyright by Erik Engdahl 1997-98.  
Use it at your own risk. It may be freely distributed in its ORIGINAL,  
unmodified form.

The program can be included in (commercial) distributions without  
written permission. If the program is included in a commercial  
product it may NOT be a major part of the commercial product.  
In other words: The only restriction I make is that this program  
MAY NOT BE SOLD FOR PROFIT.

The source codes for the recognition part may be included in any  
collection of datatype recognitions (like dtmake). They might also  
be used as examples in any type of media (like magazines) for free

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without any special permission.

You may archive the files as long as they are unaltered after dearchieving.

Under NO CIRCUMSTANCES will the author be liable for any direct or indirect damage or data loss resulting from the use or misuse of this software.

If you have any questions contact me.

## 1.3 introduction

Starting with OS Release 3 the Amiga has the concept of 'datatypes', which allow reading and viewing files of different types and formats. The different datatypes may be viewed with programs like MultiView or used as objects in programs.

## 1.4 installation

Use the supplied installation script to install the datatype or use the hard way described below.

NOTE! If you have the MacPaint datatype installed the recognition have to be replaced with the supplied one.

Copy the file "macpict.datatype" into the "SYS:Classes/DataTypes" drawer. The "MacPICT2" and "MacPICT2.info" files should be placed in the "DEVS:DataTypes" drawer. In order to use the datatype you will need to reboot the machine.

The "Macintosh PICT2" datatype distribution should consist of the following files:

```

Macpaint (dir)
  desc_macpaint.c
  EEye.macp
  EEye.macp.info
  IMPORTANT.readme
  IMPORTANT.readme.info
  MacPaint
  MacPaint.info
  org_desc_macpaint.c
classes (dir)
  datatypes (dir)
    MacPict.datatype.000
    MacPict.datatype.040
    MacPict.datatype.020
devs (dir)
  datatypes (dir)
    MacPICT2
    MacPICT2.info
docs (dir)
  MacPict2-dtc.guide
  MacPict2-dtc.guide.info
  MacPict2-dtc.readme
  MacPict2-dtc.readme.info
extras (dir)

```

```
CrunchyNut.pict2          CrunchyNut.pict2.info
desc_MacPICT2.c          dt2macpict
dt2macpict.c             dt2macpict.info
jupiter.pict2           jupiter.pict2.info
MacPICT2.dtyp
docs.info                extras.info
Install                  Install.info
Macpaint.info
```

## 1.5 requirements

To use datatypes, you need at least Amiga OS Release 3.0 .  
Older versions will not be sufficient.

This datatype does not make use of any features in the  
picture.datatype v43 and v39 will do the job, but a update to v42 is  
recommended (can be found on AmiNet).

## 1.6 preferences

The preferences are stored as an environment variable,  
"ENV:datatypes/macpict2.prefs". If you like to save your preferences  
they must be copied to "ENVARC:datatypes/macpict2.prefs".

The options are:

```
GREY/S,GRAY/S           Render 16.7M color pictures as grayscaled.
```

## 1.7 macpaint

MacPaint pictures is black and white of the fixed size 576x720  
pixels and packed with the PackBits method. The maximum filesize are  
53072 bytes, including the 512 byte header and worst case packing.  
Some notes about this format can be found on Apples web-pages  
(Technote PT 24) and in the NetPBM archive.

```
Readme file for MacPaint datatype
Short:   Replacement for CBM's macpaint.datatype
Author:  TetiSoft@apg.lahn.de (Detlef Wuerkner)
Uploader: TetiSoft@apg.lahn.de (Detlef Wuerkner)
Version: 43.1
Type:    util/dtype
```

```
macpaint.datatype Version 43.1 (10-Jul-97)
```

It's a datatype for MacPaint picture format, based on the sources  
of Andreas R. Kleinert's samplePNM.datatype. MacPaint pictures are  
black & white, 720 \* 576 pixels.

---

Written to replace macpaint.datatype 42.1 from CBM  
(Aminet util/dtype/picdt\_42\_1.lha). I found two bugs in it:

- 1) The descriptor hook-function didn't recognize all MacPaint pictures, but declared a large number of other files as MacPaint pics. The new descriptor from Erik Engdahl (Aminet util/dtype/MacPict2\_dtc.lha) was better, but recognized also Compugraphic fonts as MacPaint. My descriptor checks deeper: It tests if the data is packed with the PackBits procedure.
- 2) With SetPatch 43.6 installed, the old macpaint.datatype produces completely black pictures (at least on my system). With SetPatch 40.16 it worked. My version doesn't have this problem.

About the old MacPaint datatype

The old MacPaint datatype can be found on the NDU3.1 disks, but the recognition identifies PICT files as MacPaint files. To use both datatypes the original MacPaint descriptor have to be replaced with the included.

## 1.8 picnotes

This datatype supports all Macintosh PICT2 256 colors pictures. '.pic', '.pict', '.pict2' and '.pct' are some of the extensions I've seen, but the extension does not guarantee that it is a PICT2 file.

PICT2 files with 16.7M colors can be viewed either as greyscaled pictures or in 256 colors (quantized). See preferences.

The pictures exported from the old RastLink-package seems to be broken. They (incorrectly) use a byte instead of a word to tell the length of each row. I've unsuccessfully tried to import them on a SGI-workstation using the imtools-package v3.0 from San Diego Supercomputer Center.

## 1.9 notes

Please read the notes about MacPaint.

Read about other useful tools here.

Different CPU versions

If you have a 68060 processor then I recommend installing the 68040 version of the datatype. If you are unsure always choose the plain 68000 version.

About this datatype

The datatype is based on the example by Andreas R. Kleinert (Aminet:dev/c/C\_V43-DT.lha) and on the NDU3.1 documents.

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To make the recognition file I used dtwrite by MSI Software. It can be found on Aminet (util/dtyp/dtmake).  
The recognition code is based on the documentation by David Junod and is essentially done with a function (the source code is supplied).

## 1.10 How to contact me

Got any bugs to report or any comments, just send me a message.

NOTE! In bug reports please include version numbers of the following programs:  
datatypes.library  
picture.datatype  
macpict.datatype

Erik Engdahl  
E-mail: vac.eren@memo.volvo.se

Snail mail:  
Erik Engdahl  
Skaraborgsgatan 14  
565 31 MULLSJOE  
SWEDEN

## 1.11 history

v40.2  
Corrected bugs in the dispatcher. The bugs made pictures appeared blank in Multiview.  
Updated the documentation and the installer.

v40.1  
Files with 16.7M colors can be reduced to 256 colors or viewed as greyscaled pictures.  
Reduced chip-memory usage.  
Added preferences.  
Added separate program to convert (datatypes) pictures to macpict2 format.  
Increased internal error-checking.

v40.0  
Files with 16.7M colors can (only) be viewed as greyscaled pictures.  
Added support for 4 additional function codes.  
If the datatype finds an unsupported function then it shows what it could do so far.  
Reorganised the source code.  
Some changes in the installer.  
Enhanced the documentation.

v39.1  
Updated the datatype with the essential changes in C\_V43-DT which follows

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the specifications of datatype.library v45.  
Some changes in the installer.  
Enhanced the documentation and included a test-picture in MacPICT2 format.  
Included special CPU versions (for 020+ and 000).

v39.0  
First release.

## 1.12 todo

Support more types of pictures and more functions.  
Add support for v43 picture.datatype.  
Implement the save method for PICT2 format.  
Allow RAM to be the data-source.  
Add dithering.

## 1.13 thanks

The following persons must have a big "thank you" for their feedback and suggestions.

Dirk Neubauer (who also supplied testpictures for 24bpl pictures)

Jarmo Piippo

## 1.14 mactips

Different filetypes and tools for files transfered from Mac:s

Here are some of the extensions on files that I found on the 'net and successfully managed to view.

file extension	tool to unpack
.hqx	BinHex (7bit ascii text)
.sit	unsit (can be found in cd0:c/ on AmigaFormat CD-roms)
.bin	MacWhack

It's not unusual to have to pass the data trough more than one program.  
If the file doesn't make any sense then try to convert it with MacWhack  
FIRST.

## 1.15 macwhack

Snip from the readme file:

Short: MacBinary header remover v1.0

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Author: Tp12a@freenet.fsu.edu (Philip C. Tsao)  
Uploader: Tp12a@freenet.fsu.edu (Philip C. Tsao)  
Version: 1.0  
Type: util/conv

Removes MacBinary headers from files that have been transferred from a Macintosh computer and makes them (possibly) readable on other (non-Mac) computers. Might come in handy for Shapeshifter users...?

## 1.16 binhex

The readme file:

Short: BinHex 4.0 (Hqx7) encoder/decoder  
Author: Nik Soggia <nsoggia@telnetwork.it>  
Uploader: nsoggia@telnetwork.it  
Version: 37.04  
Type: util/arc  
Replaces: util/arc/binhex373a.lha

BHD 37.04 (12.12.96) added break signal support  
BHE 37.04 (12.12.96) added break signal support  
guide 37.10 (30.11.96) same as last release

These two programs are able to decode and encode the #?.Hqx files (TEXT/BNHQ) and the MIME "application/mac-binhex40" Content-Type.

## 1.17 MacPICT2 datatype Index

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