Hex Display Widget

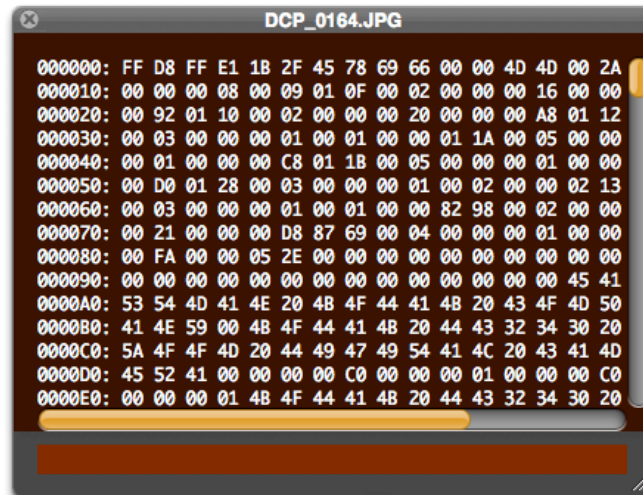Version 1.0.1   5 August 2009

Summary

The Hex Display Widget is a cross-platform Widget which can display the contents of (binary) files as hexadecimal coded bytes. It also demonstrates the use of the embedded binary file input/output functions which are available for use in other Widgets.
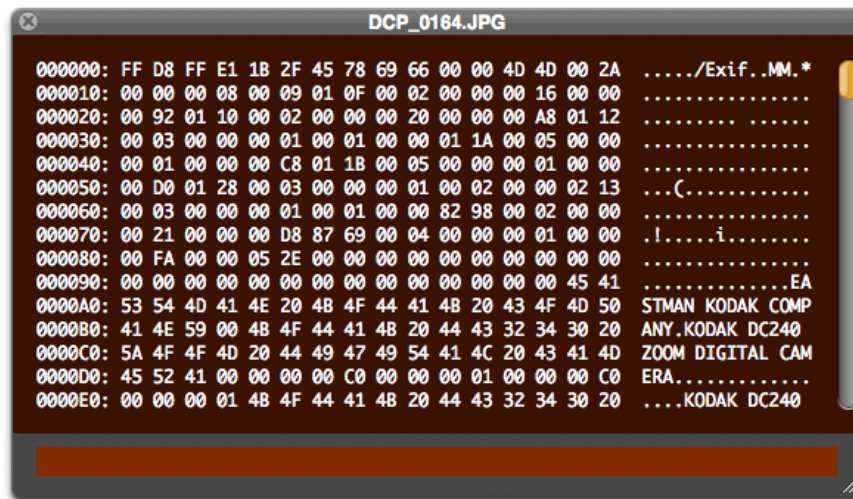
Description

When first opened, it displays a window which looks like this:

To display a (binary) file, drag it onto the window.

The window can be made wider to show the equivalent characters.

```
000000: FF D8 FF E1 1B 2F 45 78 69 66 00 00 4D 4D 00 2A  ...../Exif..MM.*
000010: 00 00 00 08 00 09 01 0F 00 02 00 00 00 16 00 00  ................
000020: 00 92 01 10 00 02 00 00 00 20 00 00 00 A8 01 12  ......... ......
000030: 00 03 00 00 00 01 00 01 00 00 01 1A 00 05 00 00  ................
000040: 00 01 00 00 00 C8 01 1B 00 05 00 00 00 01 00 00  ................
000050: 00 D0 01 28 00 03 00 00 00 01 00 02 00 00 02 13  ...(............
000060: 00 03 00 00 00 01 00 01 00 00 82 98 00 02 00 00  ................
000070: 00 21 00 00 00 D8 87 69 00 04 00 00 00 01 00 00  .!.....i........
000080: 00 FA 00 00 05 2E 00 00 00 00 00 00 00 00 00 00  ................
000090: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 45 41  ..............EA
0000A0: 53 54 4D 41 4E 20 4B 4F 44 41 4B 20 43 4F 4D 50  STMAN KODAK COMP
0000B0: 41 4E 59 00 4B 4F 44 41 4B 20 44 43 32 34 30 20  ANY.KODAK DC240
0000C0: 5A 4F 4F 4D 20 44 49 47 49 54 41 4C 20 43 41 4D  ZOOM DIGITAL CAM
0000D0: 45 52 41 00 00 00 00 C0 00 00 00 01 00 00 00 C0  ERA.............
0000E0: 00 00 00 01 4B 4F 44 41 4B 20 44 43 32 34 30 20  ....KODAK DC240
```

The window shows a maximum of 2048 (0x800) bytes at a time. There are keyboard and menu controls to move forwards and backwards through the file, and to perform other operations.
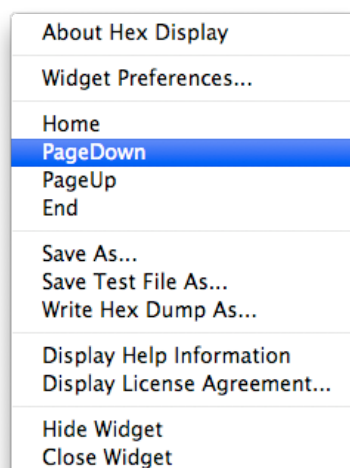
Keyboard Commands

Commands may be typed into the lower text area.

command	action
h[ome]	display the first block of (up to) 2048 bytes of the file.
d[own]	move down to the next block of (up to) 2048 bytes.
u[p]	move back to previous block of (up to) 2048 bytes.
e[nd]	move to the last block of (up to) 2048 bytes.
+ <hex value>	move forward by (up to) <hex value> bytes.
-<hex value>	move backward by (up to) <hex value> bytes.
<hex value>	display from address <hex value> in the file.
	hex values/addresses are rounded to multiples of 16.
f[ind]	<hex string> find the first instance (in the current block) of a string of one or more two digit hexadecimal coded bytes, which may be space separated.
g[et next]	find the next instance in the current block.
s	save a copy of the file to disk.
t	save a small test file to disk.
w	write the contents of the current display to disk.

The keyboard Home, PageDown, PageUp and End keys may also be used.

Menu Controls

The context (right-click) menu has four items which allow the user to move forwards and backwards through the file. There are three items which allow the user to save a copy of the file, to save a small test file, or to save the contents of the current display.

Version History

1.0   - Initial Release.

1.0.1   - Menu commands moved into the context menu.

Credits

Main window frame by John Riddle.
About and license windows by Ricky Romero.
Binary file I/O by Laurent Cozic and Harry Whitfield.
Other code by Harry Whitfield.

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Hex Display Widget - A widget to display (binary) files in hexadecimal format.

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