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l i v e c o d e

Reading the Width and Height of a JPEG File

This is a script which reads the width and height in a given JPEG file. I was planing to enable some weblog cgi scripts I made to handle photos and set the width and height parameters in HTML so that the images even if they are slightly bigger they will fit into a given rectangle and be scaled proportionally. True scaling of images usually requires extra software present on a server.

Here's the script:

```
on mouseUp
  answer file "Pick a JPEG:"
  if it <> "" then
    put GetDimensions(it)
    -- puts <width>,<height>
  end if
end mouseUp

function GetDimensions pFilePath
  put url ("binfile:" & pFilePath) into rawFile
  put length(rawFile) into tLen
  put offset(numtochar("255") & numtochar("217"), rawFile) into eoj
  if (eoj+2) >= tLen then put 0 into tCount
  else put eoj into tCount
  repeat while tCount<tLen
    put offset(numtochar("255"), rawFile,tCount) into tOff
    put chartonum(char tCount+tOff+1 of rawFile) into tChar
    if tChar is among the items of "192,193,194,195" then
      put char (tCount+tOff+5) to (tCount+tOff+8) of rawFile into rawSize
      put baseconvert(chartonum(char 1 of rawSize),10,16) & baseconvert(chartonum(char 2 of rawSize),10,16) into hSize
      put baseconvert(chartonum(char 3 of rawSize),10,16)& baseconvert(chartonum(char 4 of rawSize),10,16) into wSize
      put "H=" & baseconvert(hSize,16,10) & "," & "W=" & baseconvert(wSize,16,10) into dimensions
      return dimensions
    end if
    add tOff to tCount
  end repeat
end mouseUp
```

I'm sure it can be optimized but my knowledge of binary data is less then minimal. One thing the script doesn't check is if the file is a true JPEG. A similar process can read/extract the thumbnail image if the JPEG has one and/or the exif data if it exists but I have a family to feed and my time for playing is over ;-).

Posted 12/20/2002 by Andu Novac to the MetaCard List   (See the complete post/thread)

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