

# Stegonagraph

€•, •f„...† •‡...<sup>^</sup> f% Š< ^f, €„ •ŠŽ „•, ...<sup>^</sup>f€•%•%<sub>00</sub>

Stegonagraph ' •' < %<sup>^</sup>f\$ " < % €f... " \$f% • " Ž ‡, ...—••€•%< < Ž („••€•%< < Ž) f%  
•... " €•' < < Ž (•' „••€•%< < Ž) —%† " Š• € ‡•‡€ " Ž, < ...— ~' •Š%„ •< f' †< ' , %—  
~' f•••~ ^f'™%< •™, %—ŠŠ < %†~' < > €< %•€• •™• ŽŠf% (LSB). ÝŠ•f, ...~ €•%< Š  
—•, ~%f...: BMP, PNG, JPEG (baseline \$ progressive) f% < ' ^f...^< ' < ...† PCM  
WAV. ‡•Š†< •••^f€‡< ' > ...—, €•%< < Ž AES<sub>i</sub>128/192/256.

^<••<Š ~•Φ " ...••^fŠ

€ Ý, ...—••€•%< < Ž „Š " „ —%† " Š• € , Š€< ...— „ •< f' †< ' , %—.

€ Ý•‡' , ' •< Š† , •€, %—€< • „ ~Š^f„ •^f\$ • " Ž „ •Φ< •™• —%† " %„ •< f' †< ' , %.

€ ‡ ...—, €•%< < Ž AES Š€ ‡%, • " ' ~ „ •, ...<sup>^</sup>f€•%•% (PKCS7<sub>i</sub>padding).

€ ¥€~Š<Š^f" Š€ C# 7.3 ' Ž' € Span/Range API.

€ WinForms<sub>i</sub>Š<f' , —' †^ Š€ Š< ...„ %f•, •~ ‡, •™, ' ^€.

¥...<sup>^</sup>f' ~<Š •...~•™...

€ Windows 7 SP1 %Ž• < ••\$> ' .

€ .NET Framework 4.8 (%Ž• .NET 6+).

€ 2<sub>i</sub>Š RAM, 100<sub>i</sub>©' •Š " < •™• ~Š•Ž < % •...^„ €.

‡ •...• „...† ^f%<sub>00</sub>, f

€ <sup>a</sup> %f...^<Šf" «Select container~ f% •Ž' , Šf" BMP/PNG/JPEG/WAV.

€ <sup>a</sup> %f...^<Šf" «Select data~ f% •••%†f' —%† " (...), Ž„Š ‡•f, ŠŽ< • ‡, ...—••%f...

€ -•Š~ „<Šf" «Encrypt~ Š ••' •Šf" ‡%, • " " (€% ‡•f, ' Ž...).

€ <sup>a</sup> %f...^<Šf" «Start~ Š •...Ž' , Šf" f' „€ €Ž' , ' Φ' < < Ž.

€ - , ' Φ...~Š «Unhide~ ...fŽ™<Šf" ‡, ...—••%< Š •%< Š.

<sup>a</sup> %„ " %•<Š •...f, %f...

€ Š " •Ž% " < ...† €%™• " ••• „ 10<sub>i</sub>' , % • " Ž „ •Φ< •™• —%† " %:

€ ® 1<sub>i</sub>' •••Φ...<... Š~' <Š + UTF<sub>i</sub>16LE Š~Ž (••510<sub>i</sub>');

€ ® 1<sub>i</sub>' •••Φ...<... , •€> ..., ' < < Ž + ASCII<sub>i</sub>, •€> ..., ' < < Ž;

€ ® 5<sub>i</sub>' •••Φ...<... f\$ " % + ^%~ —%† " .

€ ° " Ž ~% " ...— —%† " Š• •Š•^•f• „ < %„ " %•< ...— •...f, %f ŽŠ " " > ...†.

Ž~' Φ' < < Ž

€ JPEG ~•Φ' •' •• ‡•™Š, > €•%f... Ž„Š^f" •' , ' € ‡' , ' „••€•%< < Ž.

€ WAV ~%± Ž€f... 8<sub>i</sub> •... 16<sub>i</sub>ŽŠf<...~ PCM.

€ ©Š^f„Š^f" ≥ 1/8 •Š• ^..., •™• , •€~Š, € •%< ...—.

<sup>3</sup>Š•' < €ŠŽ

€ Stegonagraph ‡•> ..., ^±f" ^Ž €% " Š•' < €Š± ^ MIT.

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