Edited from:

For The Macintosh

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writing.

PICT file

What is Stego?

Stego is a tool that enables you

belong to the government. It is believed that email to the key's owner, who then uses his or the NSA, the secret U.S. spy agency, was her second, 'private key' to decrypt the message. responsible for protecting classified information, and for decoding foreign communications. However, in the late '60s, IBM established a PGP

www.fallt.com/primer/code/colossus

belong to the g the NSA, the se responsible for p and for decodin However, in the

What is Encry

Encryption is the communications is encrypted, it o recipient. The re the message, to data back into it all but the simpl mathematical for this to happen. (military, today e by businesses, t individuals who protected from p true on the Inter routed around o around the wor destinations. W messages are lik mail, easily read see it. With end in contact with except by the inte it.

A Brief History

Encryption actua long history: Ac Codebreakers, th occurred around have been using ever since to dis In fact Thomas elaborate code s father of U.S. cr encryption). Cry issue when the was heavily pur War, when digit crack codes. (Ma not have won th unbreakable coo to be nothing his simply of Navajo in their native la right to create a belong to the g the NSA, the se responsible for p and for decodin However, in the

In cryptography, encryption is the process of transforming information (referred to as

the range of possible colors Unstea

Announcing Stego 1.0a2 - available in that image. Unsteg becomes enabled when The First Steganography Tool For example, in an 8 bit a PICT file is open. It asks you computer graphics image, each to specify an output file, and pixel's color is determined by unsteas the data in the least Originally published: 11/28/93 a sequence of 8 bits. The first significant bits of the PICT file. bit in the sequence is called the It will produce an output file What is Steganography? 'most significant bit', because even if nothing's been Steganography is a method by it affects the pixel value the previously stegged into the file.

which a message can be most, and the last bit in the disguised by making it appear sequence is called the 'least Change File Info to be something else. It derives significant bit' (LSB), because This function allows you to from two Greek roots: 'stego' it affects the pixel value the change the file type and creator meaning 'roof', or 'cover' and least. Stego hides data by of any file, and is enabled when 'graphy' meaning writing. reading your data file one bit no PICT file is currently open.

'Steganography' means covert at a time, and copying each bit. You may need to change the to the least significant bit of file type and creator of your each pixel value as it scans data file back to what they were across the image. before your file was stegged, because Stego does not save to embed data in, and retrieve Stego Tips file type and creator.

data from, Macintosh PICT Stego can hide data in 8, 16, format files, without changing and 32 bit Macintosh PICT files. The default output file of Stego the appearance or size of the Stego can hide data from the is a TeachText file, with a file data file first.

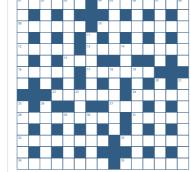
'envelope' to hide a previously encrypted data file in a PICT Open to be detected.

graphics image is made up of an array of tiny dots of color, Steg

called pixels. The color of each Steg ecomes enabled when a type and creator information.) pixel is determined by its pixel PICT file is open. It allows you value, a number. In a computer, to choose any type of file to all numbers, and all data are steg, and informs you if the file expressed by sequences of bits. has resources, or if it will not The number of hits used to fit in the PICT file express the pixel value indicates

PICT file. Though its effect is data fork of Macintosh files type of 'TEXT' and a file creator visually undetectable, do not only. If you need to steg of 'ttxt', so that if you doubleexpect cryptographic security something that has resources, click on a Stego output file, from Stego. Be aware that use a utility like BinHex, or an TeachText will launch and anyone with a copy of Stego encryption or compression display it. If you're in doubt can retrieve your data from your utility, to convert it to a binary whether you need this function, you can experiment by using the Change File Info command Stego can be used as an Stego Commands to look at the file type and creator of your data file before you steg your data file, then file, making it much less likely Open will only display PICT unstegging to an output file, files. When you select a file, closing the PICT file, and using Stego displays it with an info the Change File Info command How does Stego work? window across the top that to set the file type and creator Stego works by slightly altering tells you how much data can back to what they were pixel values. Every computer be stegged into the file. originally. (UsingBinHex on the file, as described under 'Stego

Tins' above will also preserve



Across			use this tool to core an apple (9)	07.	Boat that should be able to suit anyone (6)	
01.	A stage company (6)	31.	Once used for unofficial	08.	Gear (6)	
04.	The direct route preferred		currency (5)	11.	Business with the end in	
	by the roundheads (two	32.	Lame Dogs	sigh	t (6)	
	words - 5,3)	33.	Racing	14.	The right sort of a woman	
09.	One of the evergreens (6)	34.	Silencer		to start a dame school (3)	
10.	Scented (8)	35.	An illumination	18.	"The War" (anag) (6)	
12.	Course with an apt	functioning (6)		19.	When hammering	
	finish (5)				take care to hit this (two	
13.	Much that could be got				words - 5,4)	
	from a timber merchant	Down		20.	Making sound as a	
	(two words - 5,4)	_			bell (8)	
15.	We have nothing and	01.	Official instruction not	21.	Half a fortnight of old (8)	
	are in debt (3)		to forget the servants (8)	23.	Bird, dish of coin (3)	
16.	Pretend (5)	02.	Said to be a remedy for	25.	This sign of the Zodiac	
17.	Is this town ready for		a burn (two words - 5,3)		has no connection with	
	a flood? (6)	03.	Kind of alias (9)		the Fishes (6)	
22.	The little fellow has some	05.	A disagreeable	26.	A preservative of teeth (6)	
	beer: it makes me lose		company (5)	29.	Famous sculptor (5)	
	colour, I say (6)	06.	Debtors may have to	30.	This part of the	
24.	Fashion of a famous		this money for their debts	loco	motive engine would	
French family (5)			unless of course their		sound familiar to the	
27. Tree (3)			creditors do it to the	golf	er (5)	
28.	One might of course		debts (5)			

The Daily Telegraph crossword used as a test to recruit new codebreakers during the Second World War (solution is provided in this issue in microdot form).

ASCIL

The origins of microdot and microfiche	by decades microfiche a primitive form of truly 'hardware'	is the perfect means of getting vast quantities of data into
Microdot and microtext - text stored at extremely small sizes	compression is the perfect means of getting stati quantities.	incedbly unall spaces.
- has been used for years in libraries throughout the worl and	of data into introdibly small spaces.	
alluded to in endless James Rond films. The perfect means		Possibilities are endies: using the zoom tool built into
for compressing varie quantities of information into incredibly	Possibilities are endiess: using the zoom tool built into	Acoba/PDF an article only readable in online format with a
tiny spaces. Pre-dating software compression by decades	Acobst/PDF an article only wadable in online format with a	provine" attached. Pre-dating suffware compression by decades.
microfiche a primitive form of truly 'hardware' compression	provind" attached. Pre-during software compression by decades	microliche a primitive form of truly 'hardware' compression
is the perfect means of getting vast quantities of data into	microfiche a primitive form of truly 'hardware' compression	is the perfect means of getting vast quantities of data into
incedbly unall spaces.	is the perfect means of getting vast quantities of data into	incedbly unall spaces. Possibilities are endless: using the
	incredibly small spaces.	zoon tool built into Acrobat/904 an article only readable in
Possibilities are endies: using the zoom tasi built into		online format with a provint' attached. Pe-dating software
Acobst/FDF an article only readable in online format with a	Meeder and microsort - two good at ectemels small sizes	compression by decades microfiche a primitive form of truly

Primer

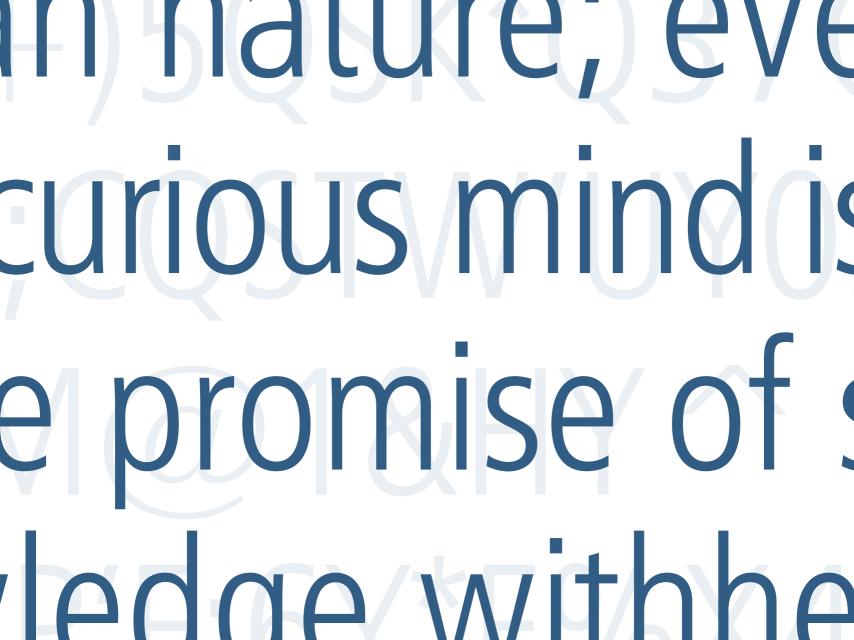
Published quarterly, Primer a

of themes. Produced in a uni can be kept as a poster or tri

cron-marks and bound with

The urge to discover secrets is deeply ingrained in C/ human nature; even the least curious mind is roused by the promise of sharing knowledge withheld \$2 ⁺ from others. Some are / P(fortunate enough to find a ⁻ job which consists in the solution of mysteries, PNB + but most of us are driven + to sublimate this urge by

iluman hature, even-me least curious mind is roused by the promise of sharing knowledge withheld \$2 * from others. Some are/P fortunate enough to find a job which consists in the solution of mysteries DN2





Across		Down	
01.	Troupe	01.	Tipstaff
04.	Short cut	02.	Olive oil
09.	Privet	03.	Pseodonym
10.	Aromatic	05.	Horde
12.	Trend	06.	Remit
13.	Great deal	07.	Cutter
15.	Owe	08.	Tackle
16.	Feign	11.	Agenda
17.	Newark	14.	Ada
22.	Impale	18.	Wreath
24.	Guise	19.	Right nail
27.	Ash	20.	Tinkling
28.	Centre bit	21.	Sennight
31.	Token	23.	Pie
32.	Lame Dogs	25.	Scales
33.	Racing	26.	Enamel
34.	Silencer	29.	Rodin
35.	Alight	30.	Bogie