

Computer Security 101



A CRASH COURSE

a hackbloc initiative

Who is Hackbloc?

Our mission is to research, create and disseminate information, tools, and tactics that empower people to use technology in a way that is liberating. We support and strengthen our local communities through education and action. We strive to learn from each other and focus our skills toward creative goals, to explore and research positive hacktivism, and to defend a free internet and free society!

staff{at}hackbloc.org

exploit code not people



Setting Up A Security Process

♦ *Identify risks + adversaries*

Possible Risks:

- › Lawsuits
- › Smear campaigns
- › Jail time
- › Job/financial loss
- › Court orders/censorship
- › Excommunication
- › Physical harm
- › Death

Possible Adversaries:

- › A company
- › Your boss
- › The cops
- › The public
- › A group of other people
- › A hell-bent crazy person
- › The media



It's about information control

Security Theory

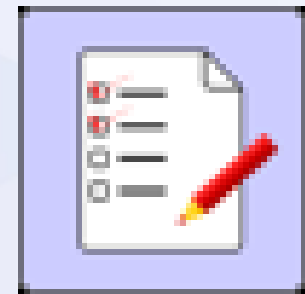
- *Security = (Time + Effort)/(A's Time + A's Effort)*
- *Security is insured by technology and trust*



only a fool believes they are secure

Rules of Thumb

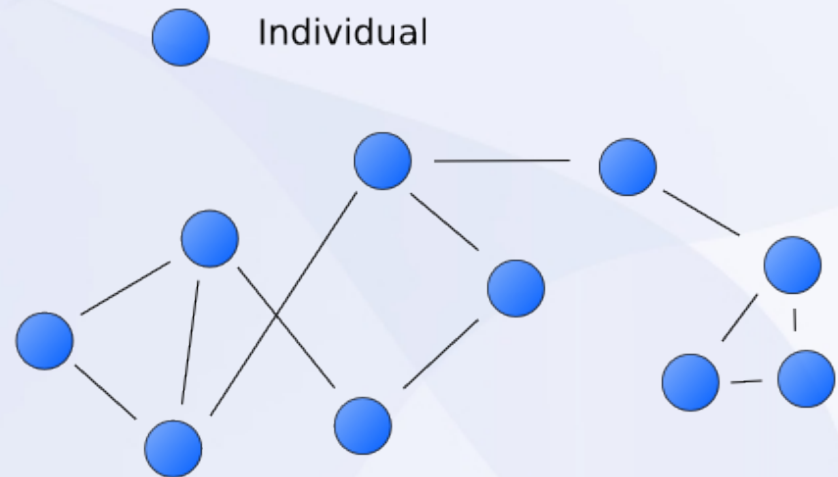
- ♦ *The house only has to win once*
- ♦ *Security always fails*
- ♦ *Security through obscurity isn't*
- ♦ *Defense in-depth*
- ♦ *As good as those who implement it*
- ♦ *Be realistic*
- ♦ *Security favors minimalism*
- ♦ *Use common sense*



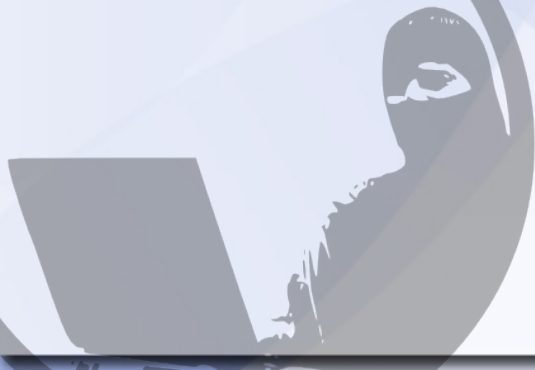
think for yourself

Security Culture

- ♦ *Is a set of social standards for protecting a social network from adversaries*
- ♦ *Controls information*
- ♦ *Is a lie*
- ♦ *Is a tool*

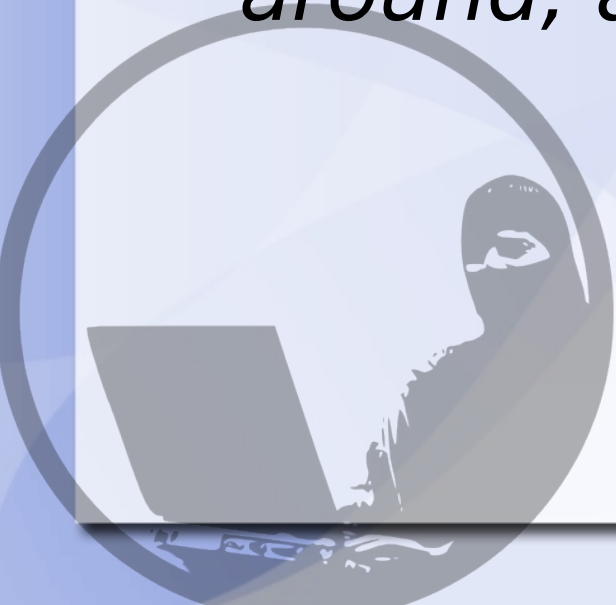


only a fool believes their friend is secure



Security Culture Cont

- *Do not share people's info without permission (phone # example)*
- *CC vs BCC on email*
- *Make a network map!*
- *Don't leave contact lists laying around, applies to mailing lists too*



only a fool believes their friend is secure

Implementing Security Process

- *Call out others, yourself*
- *Lead through example*
- *Mistakes shouldn't be embarrassing*
- *Be honest when you make a mistake*
- *Run audits*



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Personal Security

- *Make personal security policy*
- *The higher your risks, the lower your profile should be*
- *Don't be intimidated by surveillance*
- *Act as if raid is always coming*
- *Don't bottle up psychological effects of surveillance*

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Choosing Who to Work With

- *Do you need to be careful about who you ask?*
- *Gradually increase risk*
- *Consider their risk profile*
- *How to they handle stress? Are they reliable? Do they have an addiction?*
- *Why do they want to be involved? Will that reason change?*

Secure Communications

- *Be careful what you say over all mediums, especially electronic ones*
- *Check who is listening*
- *Don't use codewords*
- *Chatter & Network Analysis*
- *If they're not involved, they shouldn't be party to your conversation*

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Rumor Control

- ♦ *Verify stories and statements*
- ♦ *Don't spread information you don't know to be true*
- ♦ *Fight snitch jacking*



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Publishing Anonymously

- *Noise signatures, EXIF data*
- *Compromising formats (PDF, etc)*
- *Yellow dots*
- *Where are you publishing from?*
- *Who are you publishing to?*



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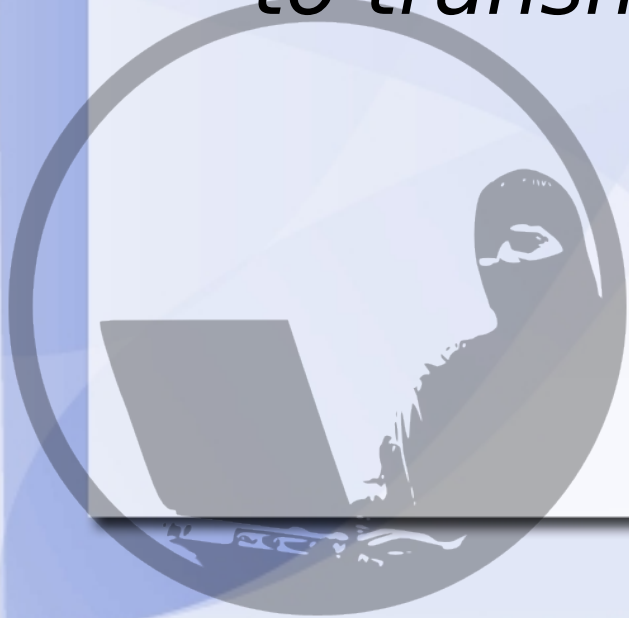
Dealing with Media

- *Plan out what they're going to ask*
- *Classic infiltration strategy, be wary of requests to meet “direct activists” or be “embedded”*
- *Research the interviewer, demand credentials*
- *No reason to use real name or be 100% truthful*



Bugs and Eavesdropping

- *Audio, laser, electronic, directional mics*
- *Design of bug tells you intent, ownership*
- *Bugs need a power source and way to transmit information*



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Things to look out for

- *Keep log of suspicious activity*
- *Delayed/opened mail*
- *Sudden influx of new members*
- *Quickly changing attitude/personality/behaviour*
- *Show-off/bragging behaviour*
- *Not all parts of state are working against you in synchronized fashion*



Preventing Infiltration

- *Get to know members personally*
- *Make cover stories expensive*
- *Infiltrators vs paid informants*
- *Not only militant groups targeted*
- *Inexperience doesn't = snitch*
- *Don't generate paranoia culture*



Do you have an infiltrator?

- *Campaign problems, moves anticipated*
- *Opponent's history/resources*
- *Inconsistent stories*
- *Attempts to get information*
- *Internal disruption*



Gathering evidence

- *Talk to a lawyer*
- *Do damage control*
- *Keep notes*
- *Probe suspect + check references*
- *Consider surveillance + searches*
- *Setup opportunities for self-incrimination*



Final Steps

- ♦ *Pics or it didn't happen*
- ♦ *Present the accusation w/ evidence*
- ♦ *Keep end goal in mind*
- ♦ *Who needs to know?*
- ♦ *Discuss incident w/ group*
- ♦ *Stress people not become paranoid*
- ♦ *Revise security policies*

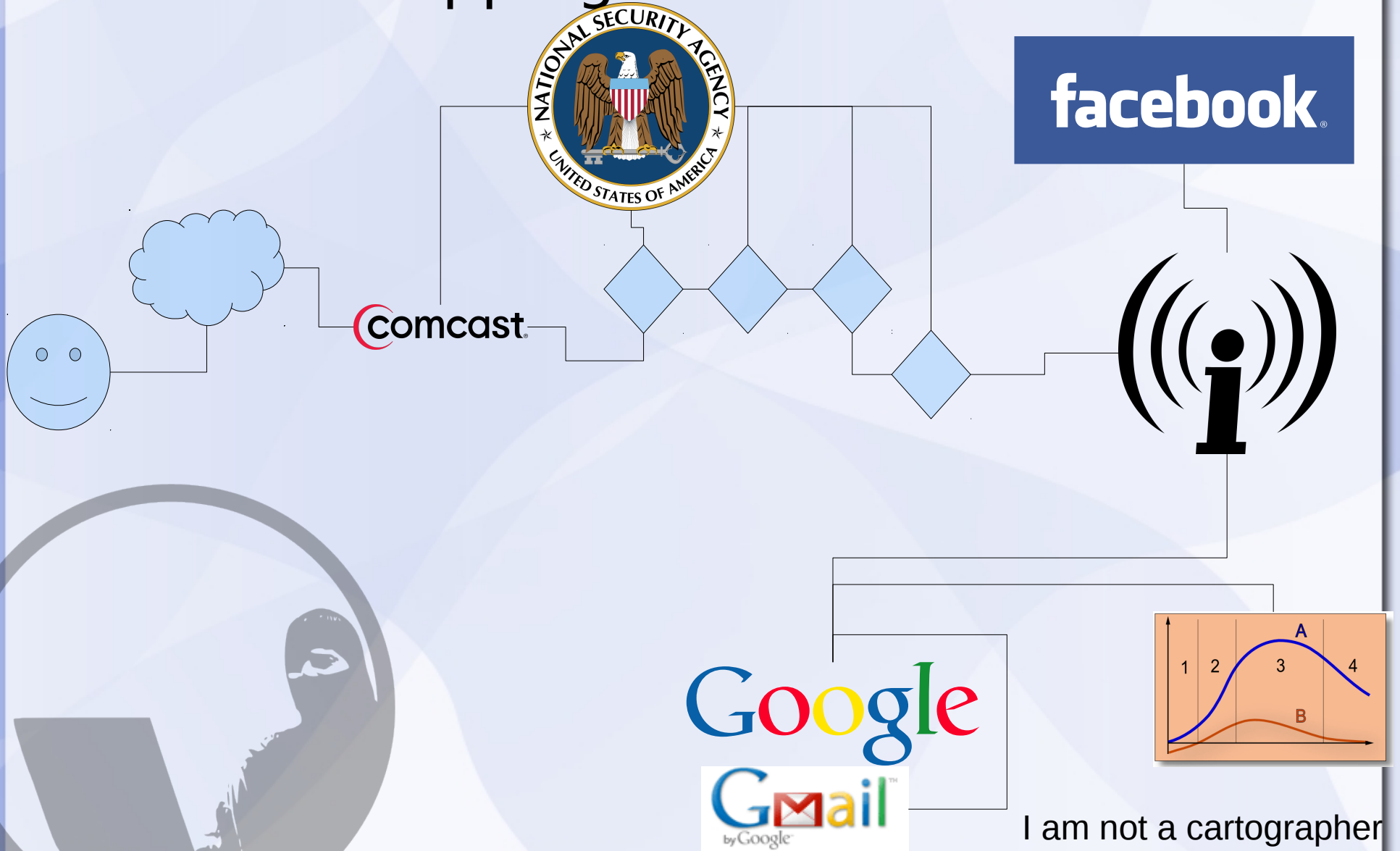


Post-Action Analysis

- *Look for separation/special treatment*
- *Look for police citing specific evidence*
- *Make arrest policy clear*
- *Support arrestees as security culture*



Mapping Data Transfer





Long Haul 2008

The Long Haul Infoshop, a community center/library in Berkeley was raided by the FBI and local police. Over a dozen computers were seized in addition to check-out logs because a threatening email was supposedly sent from there.

Wikileaks 2008

Had domain name shut down by a federal judge for leaking documents detailing tax evasion in the Cayman Islands by major US political celebrities. Injunction lifted after much protest

New York Times Aug 8, 2008

“WASHINGTON – The Federal Bureau of Investigation said Friday that it has improperly obtained the phone records of reporters for the New York Times and Washington Post in the Newspapers' Indonesia Bureaus in 2004.”

An initial report by the inspector general found that the FBI had violated its own policies in tens of thousands of cases

Josh Wolf 2006

Wolf served 226 days in prison at the Dublin FCI (California) for refusing to divulge source material. This made him the longest-imprisoned journalists for refusing to do so in US history.

FBI Raids Indymedia

On October 7, 2004 the FBI seized the servers used by a number of IMCs and hosted by US-based Rackspace Managed Hosting. Indymedia was not notified prior to the raid and over 50 websites were taken offline as a result.

Echelon, Carnivore



STATUS

NO CLIENT DATA

NETWORK VOLUME: 6 PACKETS/SEC

1 20

LIMIT OUTPUT TO: 6 PACKETS/SEC

INPUT

SNIFFING: AIRPORT (EN1)

SKIP UDP PACKETS

OUTPUT

SEND PACKETS IN ASCII

SEND PACKETS IN HEX

SEND HEADERS ONLY

SECURITY

ALLOW CLIENTS FROM OTHER COMPUTERS

```

:CarnivorePE:15:44:21 213.165.65.100.80 >
192.168.178.23.49868 == YX`A
:CarnivorePE:15:44:21 213.165.65.211.80 >
192.168.178.23.49870 ==
:CarnivorePE:15:44:21 213.165.65.211.80 >
192.168.178.23.49870 == HTTP/1.0 302
Moved Content-Location: http://
images.gmx.net/images/bs/23842/topscout-
homes.gif Location: http://images.gmx.net/
images/bs/23842/topscout-homes.gif Server:
GMX Banner V1.9 Connection: close Date: Sun,
25 Sep 2005 13:42:18 GMT Last-Modified: Sun,
25 Sep 2005 13:42:17 GMT
:CarnivorePE:15:44:21 192.168.178.23.49870 >
213.165.65.211.80 ==
:CarnivorePE:15:44:21 213.165.65.211.80 >
192.168.178.23.49870 ==
:CarnivorePE:15:44:21 192.168.178.23.49870 >
213.165.65.211.80 ==
:CarnivorePE:15:44:21 213.165.65.211.80 >
192.168.178.23.49869 ==
:CarnivorePE:15:44:21 213.165.65.211.80 >
192.168.178.23.49870 == 5
:CarnivorePE:15:44:22 213.165.65.100.80 >
192.168.178.23.49851 ==
:CarnivorePE:15:44:22 213.165.65.100.80 >
192.168.178.23.49850 ==
                    
```

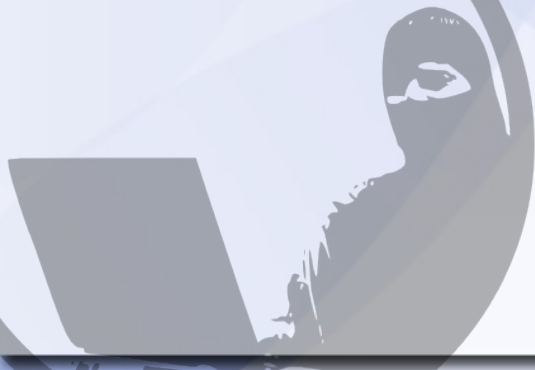
Nothing to see here

Identity

- *What you are known as*
- *Complex*
- *Often un-authenticated*
- *Anonymity v pseudonymity*

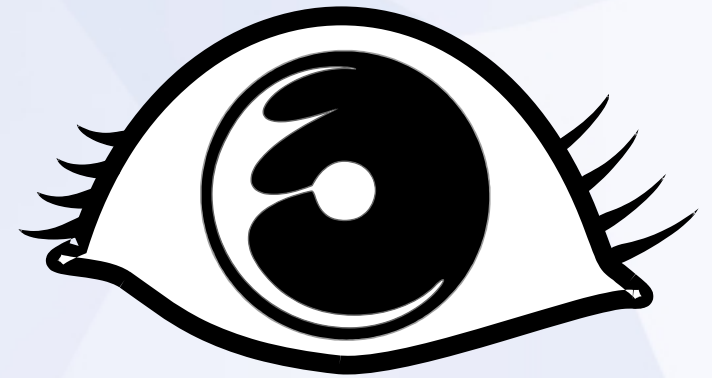


we all have one



Keeping an Eye on Your Data

- *Who wants access to your information? Why?*
- *Who do you want to have access? Why?*
- *Think about cops, private investigators, marketers, creeps, and others*



Nothing to see here



Firefox

- ♦ *Free software*
- ♦ *Cool plugins*
- ♦ *Cross-platform*

Firefox

Internet Explorer



9

days of risk

284

days of risk



Anti-Malware Software

- *How it works*
- *Who needs it?*
- *AVG Free Edition*
- *Malwarebytes Anti-Malware*
- *Not worth paying for*



Secure File Deletion

- *Delete vs Wipe*
- *Eraser, srm/wipe, OS X ctrl-click*
- *Will not clear swap, logs, filesystem data, temp files, etc*
- *DBAN for entire drive*
- *Recovering after wiping?*
- *Avoid wiping by encrypting first!*



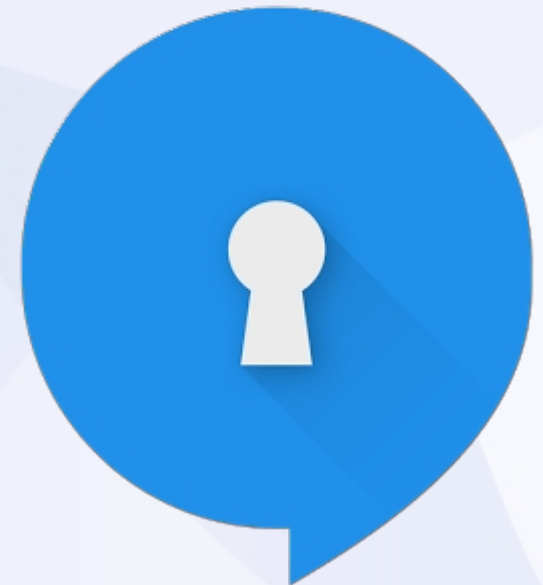
General Warning on Phones

- ♦ *Security Patches*
- ♦ *Backdoors and closed-source*
- ♦ *Monitoring by telcos, location info*
- ♦ *Some security > none*



What is Signal?

- *Developed by Whisper Systems*
- *Encrypts texts in transit*
- *Supports media texts*
- *Saves you if on limited text plan*
- *Android + iOS*
- *Encrypted phone calls*



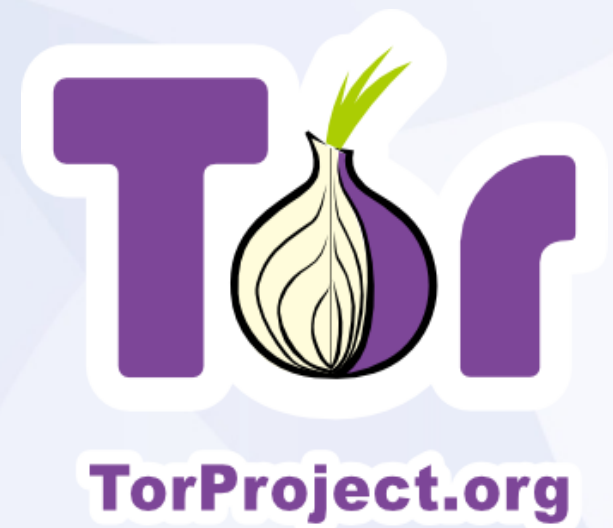
What does it not protect against?

- *Somebody knowing who you're talking to*
- *People without signal*
- *Phone seizure*



What is Tor?

- *Originally developed by the Navy*
- *High degree of anonymity*
- *For web and other traffic*
- *Allows hosting of hidden services*



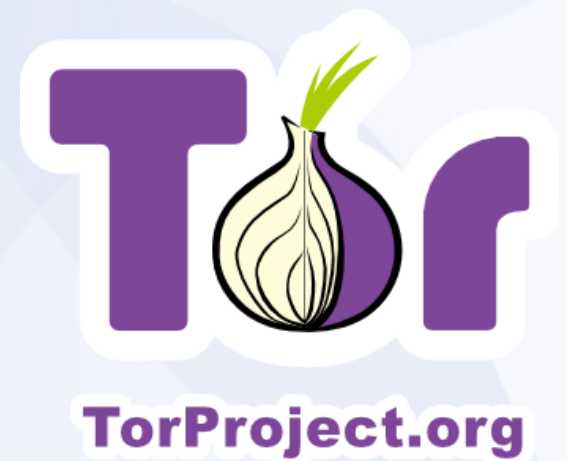
Tor's Protections

- *Protects you from people knowing who you communicate with or what you say to them*
- *Provides online anonymity*
- *Protects you from filtering*






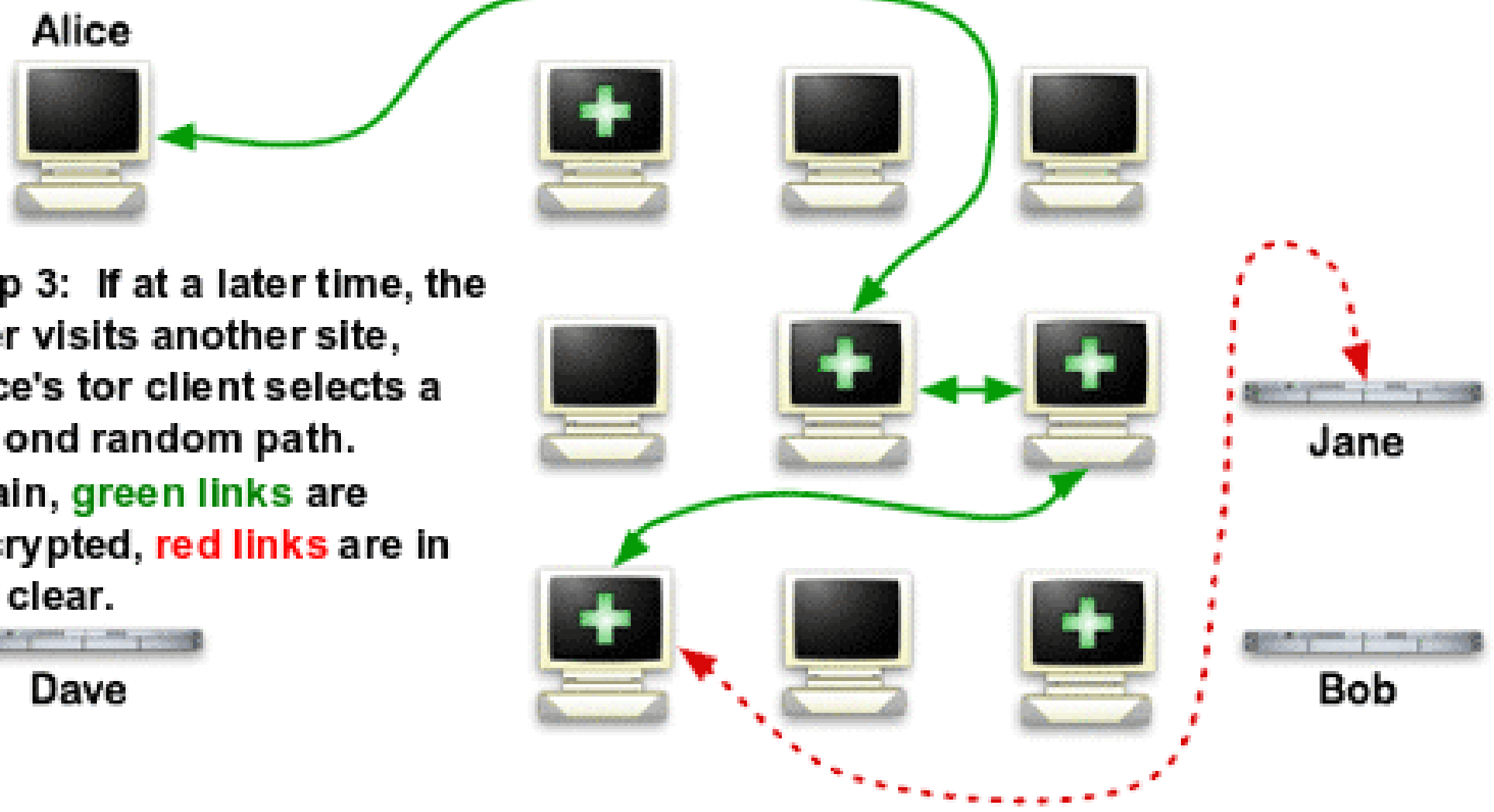
Tor's Weaknesses

- *Physical seizure*
- *Misplaced trust in hardware/software*
- *Global adversary/node timing*
- *Insecure physical surroundings*
- *User error/writing analysis*
- *External files*



How Tor Works: 3

-  Tor node
-  unencrypted link
-  encrypted link



Step 3: If at a later time, the user visits another site, Alice's tor client selects a second random path. Again, green links are encrypted, red links are in the clear.

Dave

Jane

Bob

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Guest, do not forget to login ([Register](#))

[Top](#) > [Forums](#)

User ID: Password: [Log In](#)

Administration

	Forum	Topics	Replies	Last Post Info
	How To Post!!	0		
	Announcements anything and every administrative	26	40	>> Aug 17, 2008, 9:39 am in: ideas by: Guest
	Policies Site Policies	1	7	>> Aug 9, 2008, 10:26 am in: Policy overview by: Guest

The onionforum

	Forum	Topics	Replies	Last Post Info
	TOR Anything and everything about tor	294	1424	>> Aug 17, 2008, 1:54 pm in: Onion Weed by: theoutsider
	News Talk about the news and current events	94	111	>> Aug 13, 2008, 1:41 am in: Incognito CD by: Guest
	Sports and Games computer games, board games, and sports games	5	19	>> Jul 24, 2008, 7:29 pm in: The death of content by: Guest
	Politics	21	97	>> Aug 13, 2008, 1:43 am in: Gun for hire



Download Volunteer Donate

Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.



Download Tor

- ▶ Tor prevents anyone from learning your location or browsing habits.
- ▶ Tor is for web browsers, instant messaging clients, remote logins, and more.
- ▶ Tor is free and open source for Windows, Mac, Linux/Unix, and Android

Who Uses Tor?



Family & Friends

People like you and your family use Tor to protect themselves, their children, and their dignity while using the Internet.



Businesses

Businesses use Tor to research competition, keep business strategies confidential, and facilitate internal accountability.



Activists

Activists use Tor to anonymously report abuses from danger zones. Whistleblowers use Tor to safely report on corruption.



Media

Journalists and the media use Tor to

What is Tor?

Tor is free software and an open network that helps you defend against a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security known as traffic analysis

[Learn more about Tor](#)

Why Anonymity Matters


Tor protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location. Tor works with many of



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Want Tor to really work?

 You need to change some of your habits, as some things won't work exactly as you are used to. Please read the [full list of warnings](#) for details.

Tor Browser Bundle for Windows

Version 2.2.35-12 - Windows 7, Vista, and XP



BROWSER BUNDLE

Everything you need to safely browse the Internet. This package requires no installation. Just extract it and run. [Learn more »](#)

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[warnings](#) for details

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or donation options...

19% of 1 file - Downloads

tor-browser-2.2.35-12_en-US.exe

44 seconds remaining — 4.0 of 20.2 MB (376 KB/sec)

Clear List Search...

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Want Tor

You need to read the [warnings](#) for Tor.

Open Executable File?

"tor-browser-2.2.35-12_en-US.exe" is an executable file. Executable files may contain viruses or other malicious code that could harm your computer. Use caution when opening this file. Are you sure you want to launch "tor-browser-2.2.35-12_en-US.exe"?

Don't ask me this again

OK Cancel

Tor Browser Bundle

Version 2.2.35-12 - Windows

Everything you need to safely browse the Internet requires no installation. Just extract the files and run the browser.

Not Using Windows? Download Tor for Linux/Unix

Looking for more information? Visit our [FAQ](#)

Open File - Security Warning

The publisher could not be verified. Are you sure you want to run this software?

Name: tor-browser-2.2.35-12_en-US.exe
 Publisher: **Unknown Publisher**
 Type: Application
 From: C:\Documents and Settings\user\My Documents\Downloads\tor-browser-2.2.35-12_en-US.exe

Always ask before opening this file

This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. [How can I decide what software to run?](#)

Run Cancel

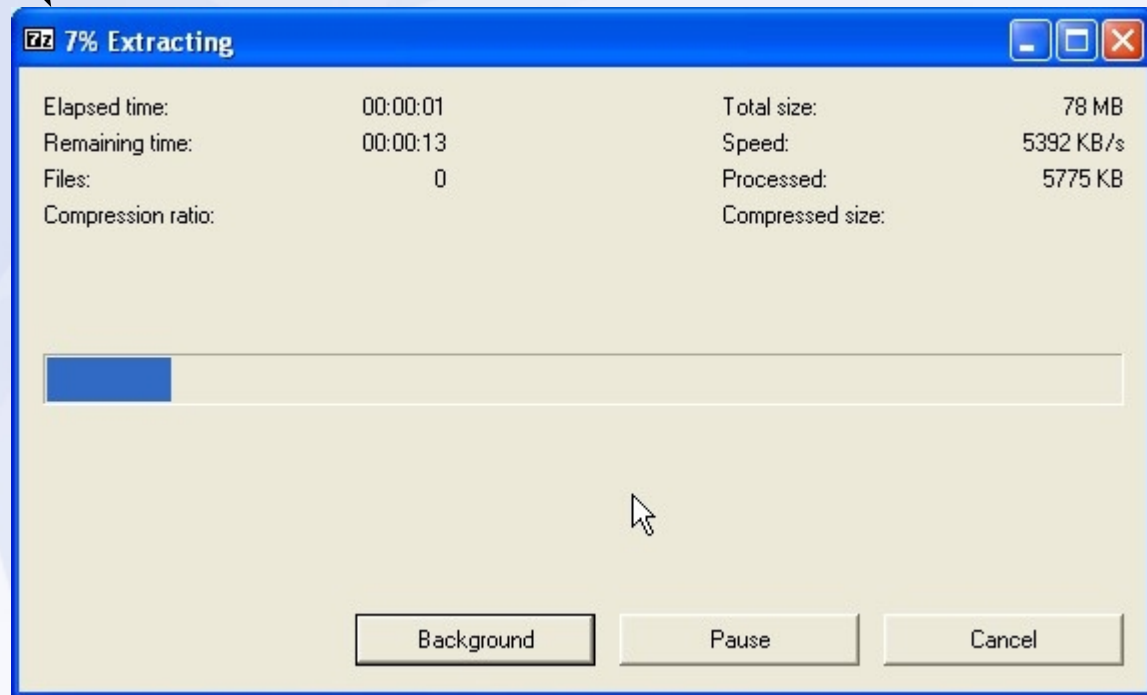
\$ 5

One-time Donation

Donate

[Other donation options...](#)

- Microsoft Windows
- Apple OS X
- Linux/Unix





Recycle Bin



Mozilla Firefox

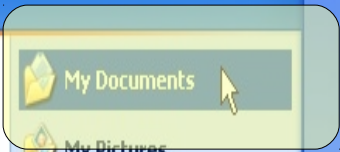
user

- Internet
Mozilla Firefox
- E-mail
Outlook Express
- Windows Update
- MSN
- Windows Media Player
- Windows Messenger
- Tour Windows XP
- Files and Settings Transfer Wizard

All Programs ▶

- My Documents
- My Pictures
- My Music
- My Computer
- Control Panel
- Set Program Access and Defaults
- Help and Support
- Search
- Run...

Log Off Turn Off Computer



Downloads

tor-browser-2.2.35-12_en-US.exe	2:14 PM
20.2 MB — torproject.org	

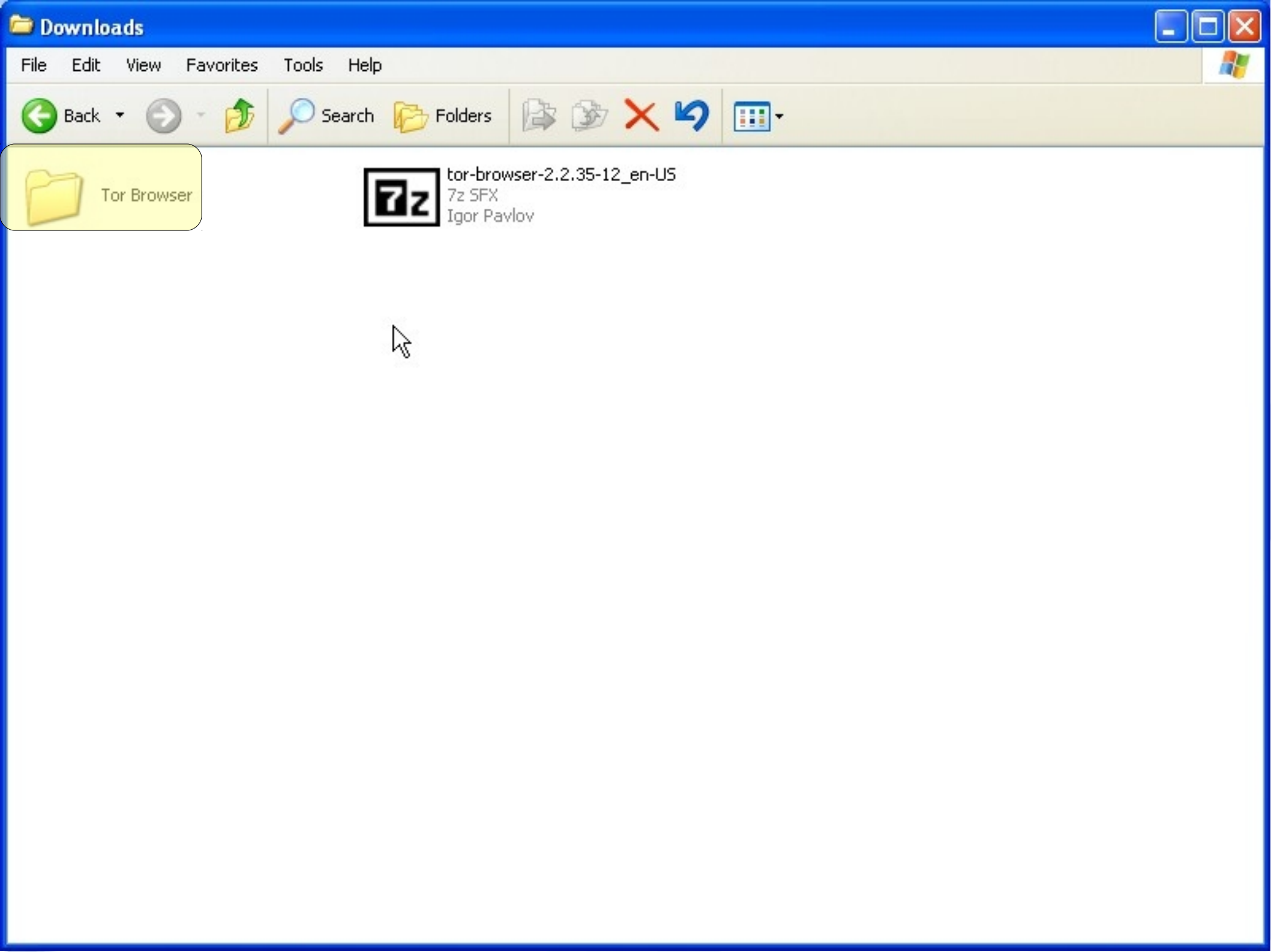
Search List Search...



screencaps

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Tor Browser

7z tor-browser-2.2.35-12_en-US
7z SFX
Igor Pavlov



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You need to change some of your habits, as some things won't work. [Warnings for details.](#)

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Version 2.2.35-12 - OS X

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(sig) [What's This?](#) English

Tor Browser Bundle for 64-Bit Mac

Version 2.2.35-12 - OS X (64-Bit)

Everything you need to safely browse the Internet. This package requires no installation. Just extract it and run. [Learn more »](#)



BROWSER BUNDLE

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Mac 64-bit

You have chosen to open

TorBrowser-2.2.35-12-osx-i386-en-US.zip
which is a: ZIP archive (32.2 MB)
from: <https://www.torproject.org>

What should Firefox do with this file?

Open with Archive Utility (default)

Save File

Do this automatically for files like this from now on.

Cancel OK

Store

Donate

to Tor

Donate

[Other donation options...](#)

► Microsoft Windows

► Apple OS X

► Linux/Unix

► All Downloads

Having Trouble?

► [Read the fine manuals](#)



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You need to change some settings. [Learn more](#) for details.

Tor Browser

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Tor Browser Bundle for 64-Bit Mac

Version 2.2.35-12 - OS X (64-Bit)

Everything you need to safely browse the Internet. This package requires no installation. Just extract it and run. [Learn more](#) »



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Mac 64-bit

Having Trouble?

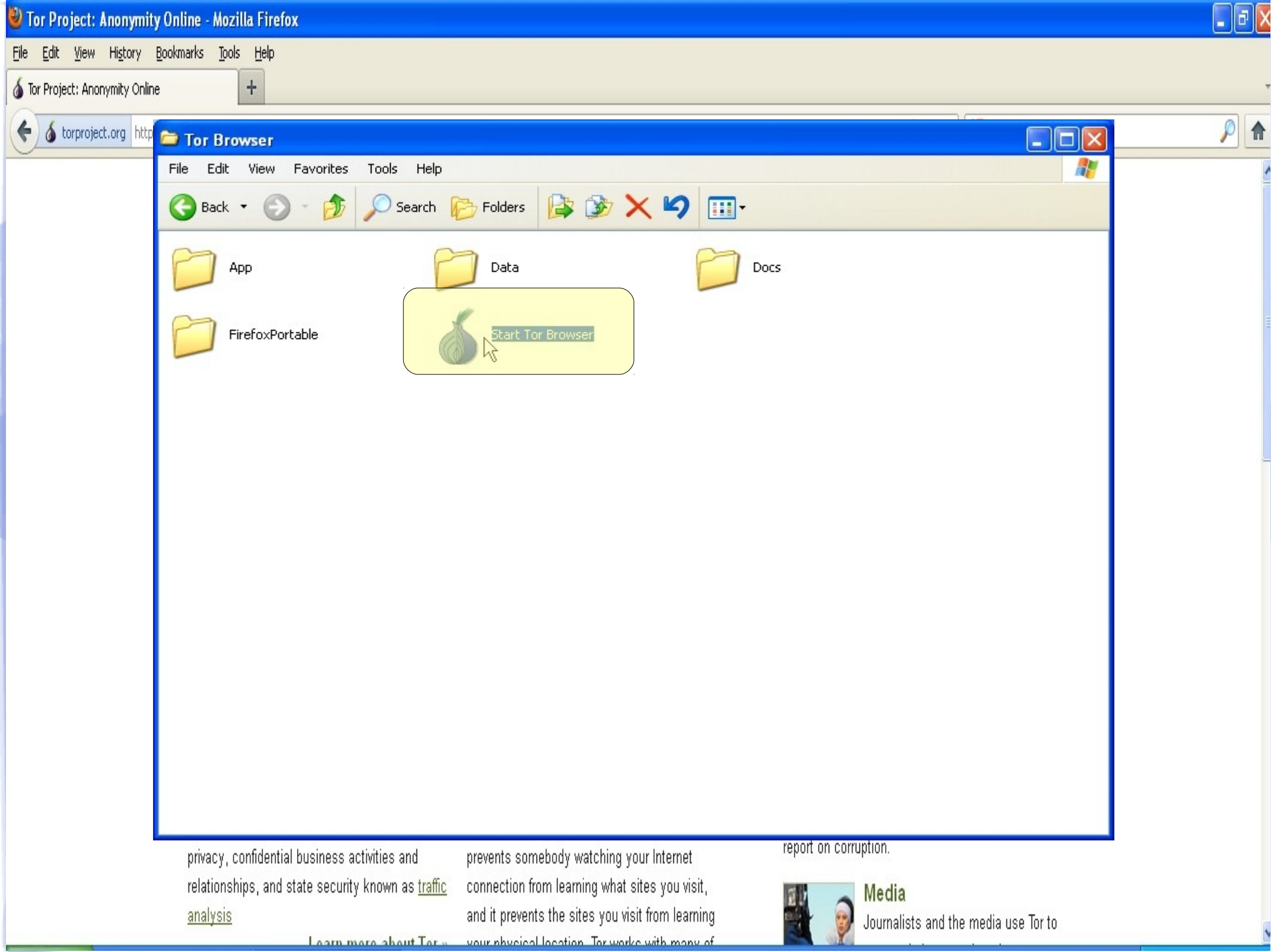
[Read the fine manuals](#)

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 - Casey
 - Applications
 - Documents
- SEARCH FOR
 - Today
 - Yesterday
 - Past Week
 - All Images
 - All Movies
 - All Documents

TorBrowser_en-US 2

2 items, 82.54 GB available



Tor Browser

File Edit View Favorites Tools Help

Back Search Folders

App Data Docs

FirefoxPortable

Start Tor Browser

privacy, confidential business activities and relationships, and state security known as [traffic analysis](#)

prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location. Tor works with many of

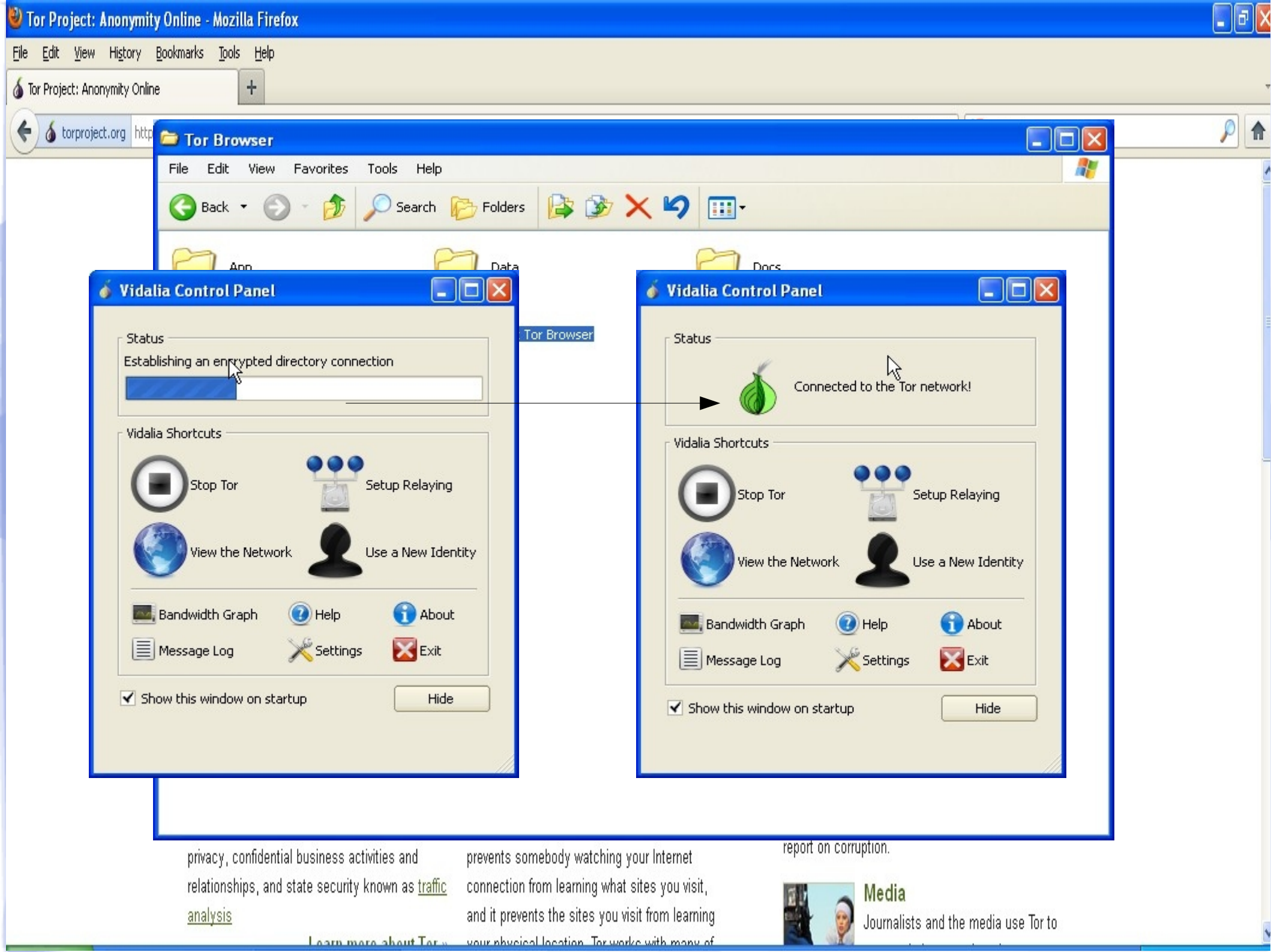
report on corruption.



Media

Journalists and the media use Tor to

[Learn more about Tor](#)



Status

Establishing an encrypted directory connection

Status



Connected to the Tor network!

Vidalia Shortcuts

Vidalia Shortcuts



Stop Tor



Setup Relaying



View the Network



Use a New Identity



Stop Tor



Setup Relaying



View the Network



Use a New Identity



Bandwidth Graph



Help



About



Message Log



Settings



Exit



Bandwidth Graph



Help



About



Message Log



Settings



Exit

Show this window on startup

Hide

Show this window on startup

Hide

privacy, confidential business activities and relationships, and state security known as [traffic analysis](#)

prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location. Tor works with many of

report on corruption.



Media

Journalists and the media use Tor to

Congratulations. Your browser is configured to use Tor.

Please refer to the [Tor website](#) for further information about using Tor safely. You are now free to browse the Internet anonymously.

Your IP address appears to be: 77.247.181.162

This page is also available in the following languages:

[عربية \(Arabiya\)](#) [Burmese](#) [česky](#) [dansk](#) [Deutsch](#) [Ελληνικό \(Ellinika\)](#) [English](#) [español](#) [Estonian](#) [فارسی \(Fārsī\)](#) [suomi](#) [français](#) [Italiano](#) [日本語 \(Nihongo\)](#) [norsk \(bokmål\)](#) [Nederlands](#) [polski](#) [Portugués](#) [Portugués do Brasil](#) [română](#)
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IP CHICKEN Served fresh daily.

CURRENT IP SECURITY PORT SCAN HELP

Current IP Address

77.247.181.162

[Add to Favorites](#)

Advanced

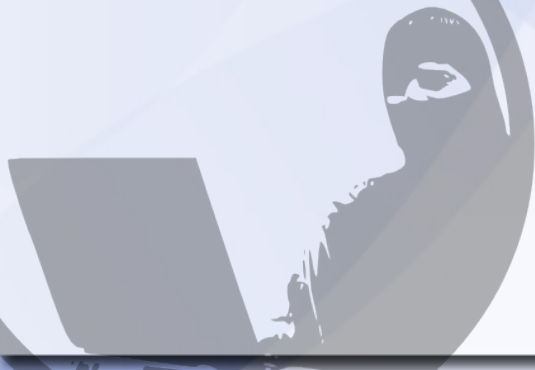
- Name Address: chomsky.torservers.net
- Remote Port: 46001
- Browser: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20100101 Firefox/5.0

Encrypting Online Chat

- *We will use Pidgin + Off-The-Record*
- *Similar weaknesses to Tor*
- *Private key compromise only compromises most recent conversation*
- *Only works for 1-on-1 conversations*



pidgin

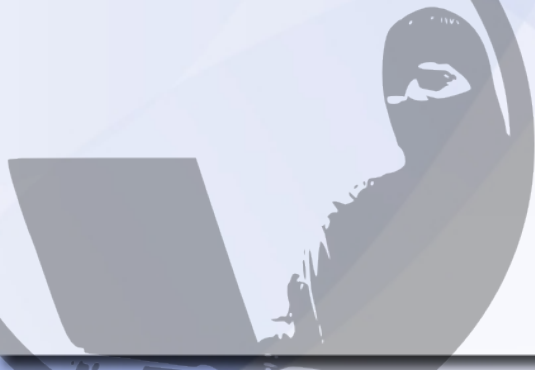


Pidgin+OTR Protections

- *Protects you from people knowing what you're saying*
- *Protects you by authenticating who you're talking to*
- *Does not protect you from people knowing who you are talking to*



pidgin





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pidgin 2.10.4

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sourceforge - Trusted for Open Source

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[ChangeLog](#)



IM all your friends in one place

Pidgin is an easy to use and free chat client used by millions. Connect to AIM, MSN, Yahoo, and more chat networks all at once.

Supported chat networks:

- AIM
- Google Talk
- IRC
- MySpaceIM
- Sametime
- Zephyr
- Bonjour
- Groupwise
- MSN
- SILC
- XMPP
- Gadu-Gadu
- ICQ
- Mxit
- SIMPLE
- Yahoo!

[Learn More](#)

Your Pidgin download will start shortly...

Opening pidgin-2.10.4.exe

You have chosen to open

- pidgin-2.10.4.exe**
which is a: Binary File (8.9 MB)
from: http://voxel.dl.sourceforge.net

Would you like to save this file?

Save File Cancel

41% of 1 file - Downloads

pidgin-2.10.4.exe

14 seconds remaining — 3.7 of 8.9 MB (365 KB/sec)

Clear List Search...

Downloads

pidgin-2.10.4.exe 2:22 PM

8.9 MB — sourceforge.net

Download Manager

Off-the-Record Messaging

[News](#)[Downloads](#)[Mailing Lists](#)[Documentation](#)[FAQ](#)[Press](#)[Software](#)[People](#)

Off-the-Record (OTR) Messaging allows you to have private conversations over instant messaging by providing:

⊙ Encryption

No one else can read your instant messages.

⊙ Authentication

You are assured the correspondent is who you think it is.

⊙ Deniability

The messages you send do *not* have digital signatures that are checkable by a third party. Anyone can forge messages after a conversation to make them look like they came from you. However, *during* a conversation, your correspondent is assured the messages he sees are authentic and unmodified.

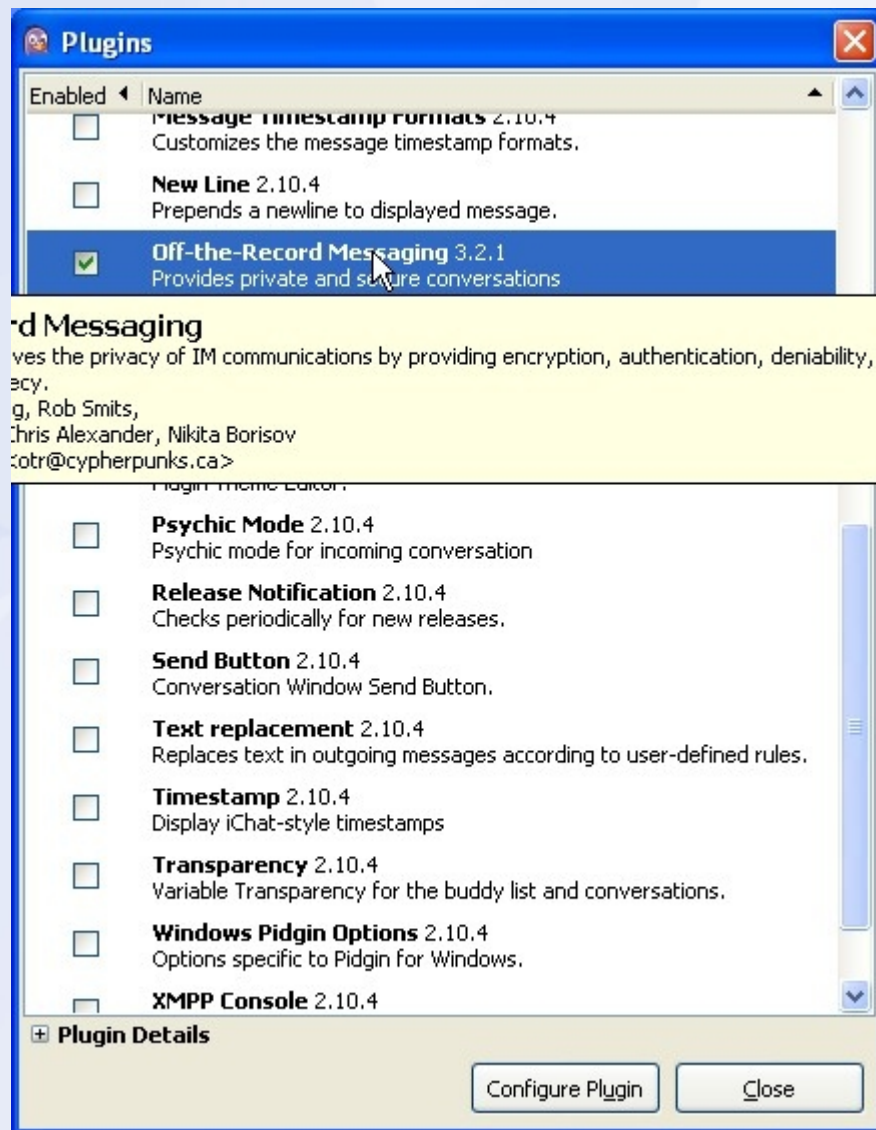
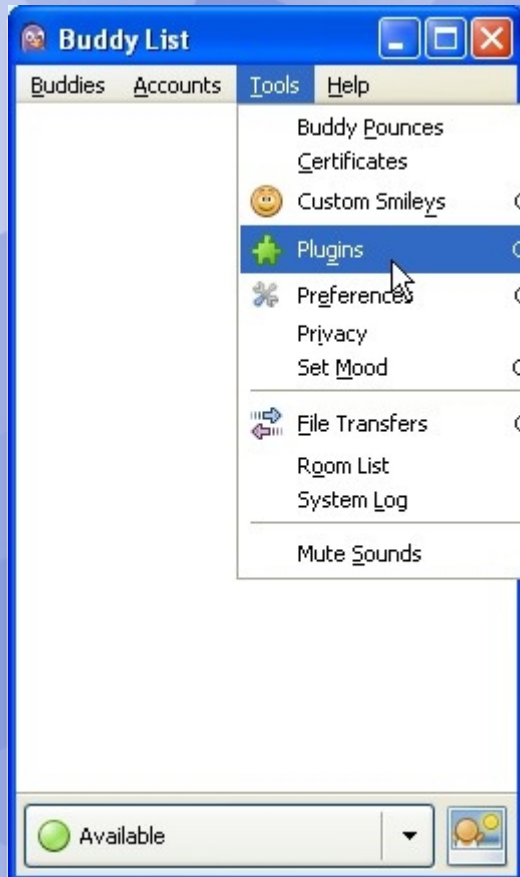
⊙ Perfect forward secrecy

If you lose control of your private keys, no previous conversation is compromised.

Primary download: [Win32 installer for pidgin-otr 3.2.1](#) [[other downloads](#)]

News

16 May
2012 | Security update: pidgin-otr version 3.2.1



Buddy List


Buddies Accounts Tools Help

- New Instant Message... Ctrl+M
- Join a Chat... Ctrl+C
- Get User Info... Ctrl+I
- View User Log... Ctrl+L
- Show ▶
- Sort Buddies ▶
- Add Buddy... Ctrl+B
- Add Chat...
- Add Group...
- Quit Ctrl+Q

Available

Join a Chat

Please enter the appropriate information about the chat you would like to join.

 Account: workshoptest2@irc.freenode.net (IRC)

Channel: #workshoptest10

Password:

Room List Cancel Join

#workshoptest10

Conversation Options Send To

#workshoptest10

(2:30:08 PM) mode (+ns) by zelazny.freenode.net

1 person in room

worksh

Font Insert Smile! Attention!

workshoptest2

Conversation Options Send To OTR

#workshoptest10 x workshoptest2 x

workshoptest2

Font Insert Smile! Attention! Not private OTR

workshoptest3

Conversation Options Send To OTR

#works... × #works... × worksh... × works... ×

workshoptest3

(2:31:21 PM) **Attempting to start a private conversation with workshoptest3...**

(2:31:23 PM) **workshoptest3 has not been authenticated yet. You should authenticate this buddy.**

 (2:31:23 PM) **Unverified conversation with workshoptest3 started.**

Font Insert Smile! Attention! Unverified

Refresh
End pr
Authen





workshoptest3



Conversation Options Send To OTR



#works... x #works... x worksh... x worksho... x

workshoptest3

(2:31:21 PM) **Attempting to start a private conversation with workshoptest3...**

(2:31:23 PM) **workshoptest3 has not been authenticated yet. You should authenticate this buddy.**

 (2:31:23 PM) **Unverified conversation with workshoptest3 started.**

 (2:33:39 PM) **The privacy status of the current conversation is now: Private**

Font + Insert Smile! Attention! Private

OTR

Introducing...Cryptocat

- *Protects you from people knowing what you're saying or who you're talking to (but not who you are)*
- *Cross-platform*
- *No installation/configuration required*
- *Available as a Tor hidden service*
- *Malicious server weakness*








Chat with privacy.

Converse with your friends, partners and co-workers in privately and securely, in an instant messaging environment that offers encryption without sacrificing accessibility.

Cryptocat is a new, free, open experiment that aims to let you do just that.

Watch the video!



-  **Cryptocat**
Access from any desktop or mobile browser, or set up your own server.
-  **Cryptocat for Chrome Best Option**
Integrates with Google Chrome for faster, safer instant messaging.
-  **Cryptocat for Android Under Development**
Use your Android device for quick, secure access to encrypted chat.

What is Cryptocat?

Cryptocat is free software that aims to provide an open, accessible Instant Messaging environment with a transparent layer of encryption that works right in your browser.

Aw fiddlesticks!

This video can't be played with your current setup.

Please switch to a browser that provides native H.264 support

Who Uses Cryptocat?



Friends & Family

Cryptocat means to be as accessible as any other web Instant Messaging platform, while also offering a transparent layer of security. This makes it an ideal alternative to invasive services for talking with friends and family.



Nonprofits

Nonprofit organizations regularly require private communications, but often deal with parties that

CRYPTOCAT

supersecretplace

enter

?

New to Cryptocat? Check out this cool video!



Cryptocat lets you instantly set up secure conversations. It's an open source encrypted, private alternative to other services such as Facebook chat.



Messages are encrypted inside your own browser using AES-256. Encrypted data is securely wiped after one hour of inactivity.



Cryptocat also runs as a Tor hidden service (<http://xdtfje3o46d2dnjd.onion>) and works on your iPhone, Android and BlackBerry.

CRYPTOCAT



Enter nickname

chatting as captainspy on <https://crypto.cat/?c=supersecretplace>

256

CRYPTOCAT



Type on your keyboard as
randomly as possible for a
few seconds:

chatting as captainspy on <https://crypto.cat/?c=supersecretplace>

256

CRYPTOCAT

For more information on how Cryptocat works and its limitations, please visit the project website.

> captainspy has arrived

captainspy lalalala I'm chatting to myself and this time... nobody has to know
BWAHAHAHAHAHA!

chatting as captainspy on https://crypto.cat/?c=supersecretplace

1 captainspy

256

CRYPTOCAT

For more information on how Cryptocat works and its limitations, please visit the project website.

> captainspy has arrived

captainspy lalalala I'm chatting to myself and this time... nobody has to know
BWAHAHAHAHAHA!

chatting as captainspy on https://crypto.cat/?c=supersecretplace

1 captainspy

@captainspy I'm sending you a private message

211

CRYPTOCAT

For more information on how Cryptocat works and its limitations, please visit the project website.

> captainspy has arrived

captainspy lalalala I'm chatting to myself and this time... nobody has to know
BWAHAHAHAHAHA!

captainspy > captainspy I'm sending you a private message

chatting as captainspy on https://crypto.cat/?c=supersecretplace

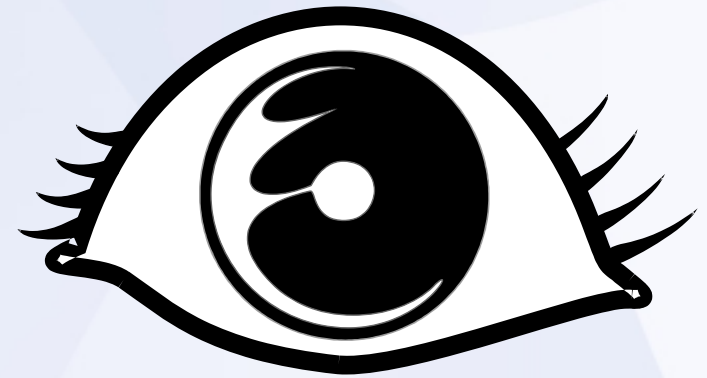
1 captainspy

I

256

What is Encryption Anyways?

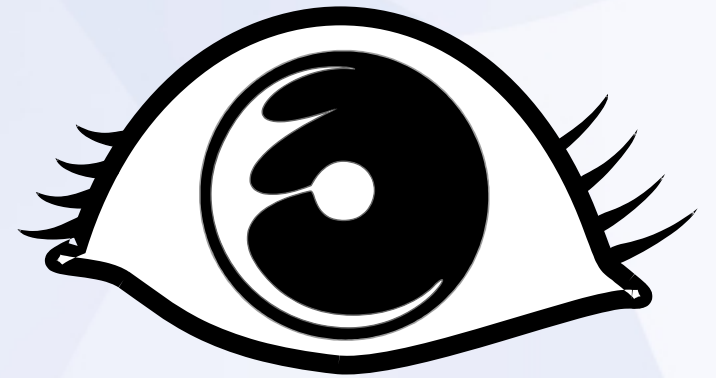
- *A way of encoding information*
- *Makes eavesdropping much more difficult*
- *Generally prevents your adversary from knowing what you're saying but not who you're saying it to.*



Nothing to see here

Examples of Encryption

- *Code Words*
- *Caesar Cipher (Shared key)*
- *WWII Enigma Machines*
- *HTTPS/SSL (Public Key)*
- *PGP (Public Key)*



Nothing to see here

Caesar Cipher

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	A
T	H	I	S	I	S	A	S	E	C	R	E	T	M	E	S	S	A	G	E				
U	I	J	T	J	T	B	T	F	D	S	F	U	N	F	T	T	B	H	F				

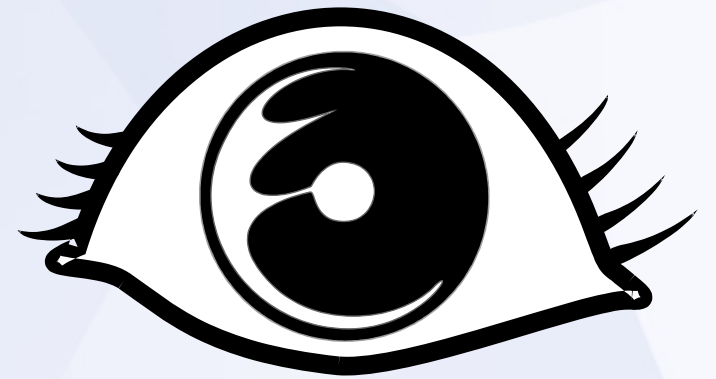
Example: Shift up to encrypt
Shift down to decrypt
Shared secret system

Nothing to see here



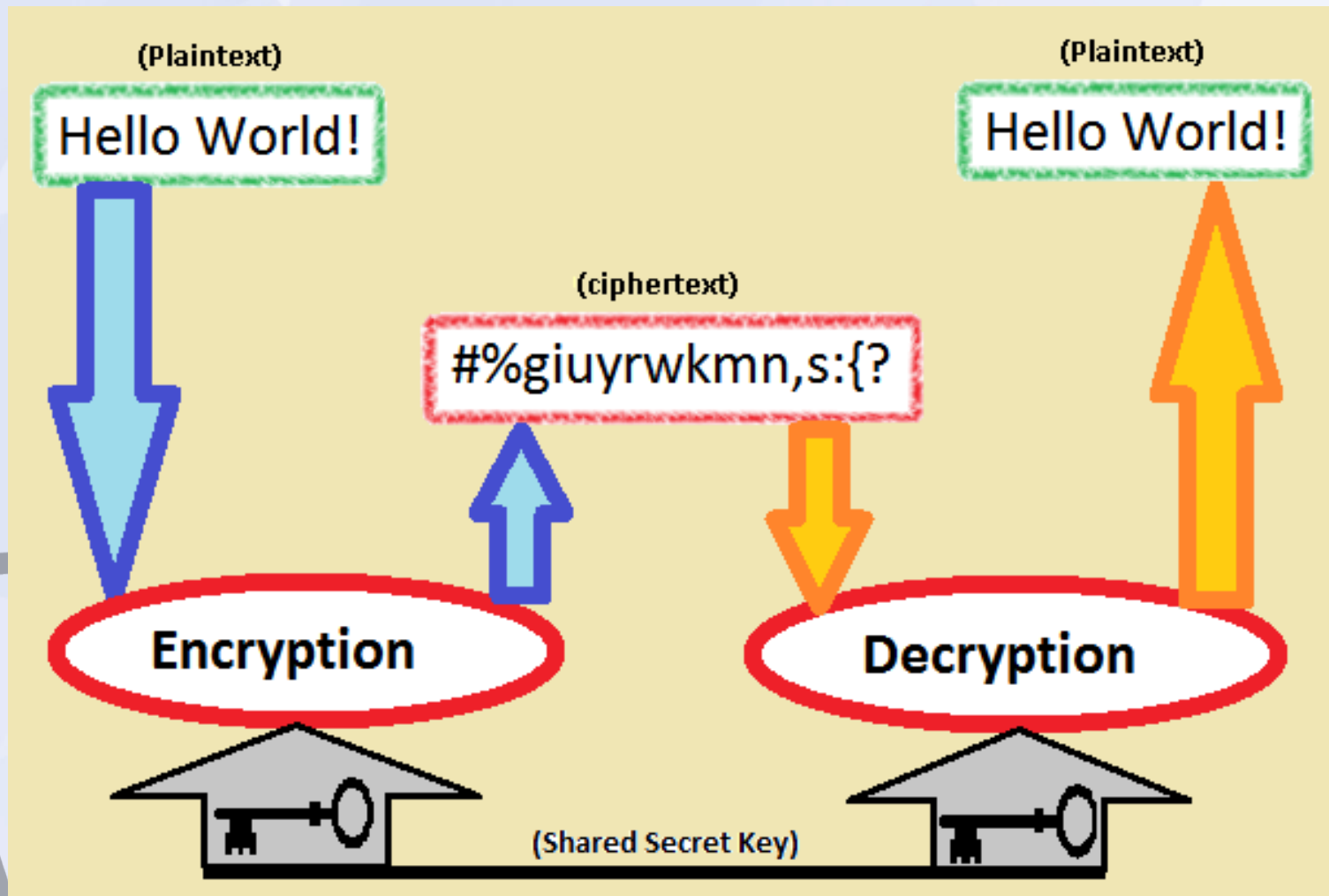
What Does it Protect Me From?

- *Seizure of information*
- *Interception of communications*
- *Un-authenticated communications*
- *Is not foolproof and is always better to not store the information in the first place!*



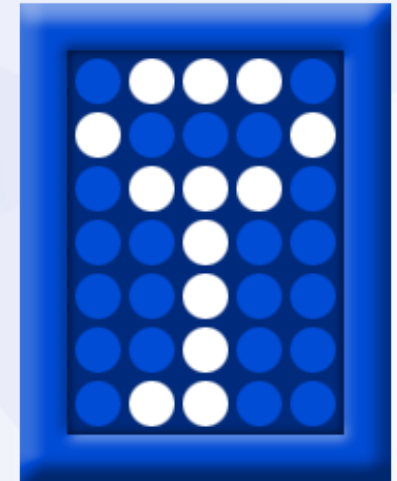
Nothing to see here

So what does it look like?



TrueCrypt & VeraCrypt

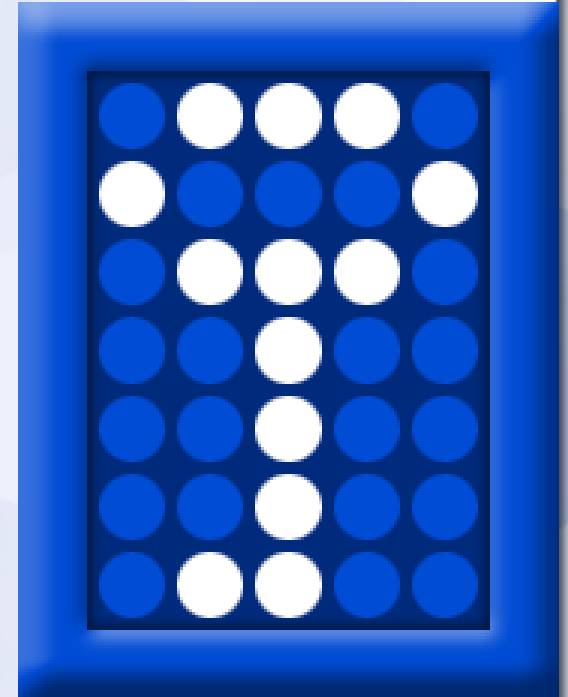
- *Makes encrypted “volumes” from files and drives.*
- *Transparent & plausibly deniable*
- *Open source & cross-platform*
- *Offers full disk encryption (Windows), “hidden volumes”*



way better than FalseCrypt

Does Not Protect Against

- ◆ *Misplaced trust*
- ◆ *Evil maid attacks*
- ◆ *User error*
- ◆ *Swap/cold boot attacks*
- ◆ *Rubber-hose attack*

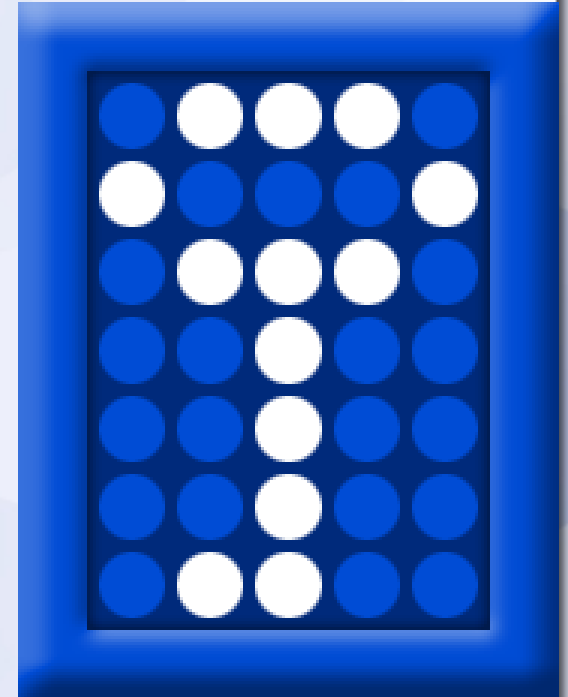


way better than FalseCrypt



“Full-disk Encryption”

- *Immune to swap/recovery attacks*
- *Overall much more secure*
- *Slightly slower than folder encryption*



way better than FalseCrypt



TRUECRYPT

FREE OPEN-SOURCE ON-THE-FLY ENCRYPTION

[Home](#) [Documentation](#) [Downloads](#) [News](#) [Future](#) [History](#) [Screenshots](#) [Donations](#) [FAQ](#) [Forum](#) [Contact](#)

TrueCrypt

Free open-source disk encryption software for Windows 7/Vista/XP, Mac OS X, and Linux

News

• 2012-02-07
TrueCrypt 7.1a
Released

• 2011-09-01
TrueCrypt 7.1
Released

• 2010-09-06
TrueCrypt 7.0a
Released

• 2010-07-19
TrueCrypt 7.0
Released

• 2009-11-23
TrueCrypt 6.3a
Released

[\[News Archive\]](#)

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Main Features:

- Creates a **virtual encrypted disk** within a file and mounts it as a real disk.
- Encrypts an **entire partition or storage device** such as USB flash drive or hard drive.
- Encrypts a **partition or drive where Windows is installed** (pre-boot authentication).
- Encryption is **automatic, real-time** (on-the-fly) and **transparent**.

[List of supported versions of operating systems](#) • [Legal notices](#)

Windows 7/Vista/XP/2000

[Download](#) TrueCrypt Setup 7.1a.exe (3.3 MB) [PGP Signature](#)

Mac OS X

[Download](#) .dmg package [PGP Signature](#)

Linux

(Select a package) .targz containing an executable setup file [PGP Signature](#)

[What are PGP signatures?](#)

More Downloads

[Source code, language packs, past versions, public key](#)

TrueCrypt Setup 7.1a



Wizard Mode



Select one of the modes. If you are not sure which to select, use the default mode.

Install

Select this option if you want to install TrueCrypt on this system.

Extract

If you select this option, all files will be extracted from this package but nothing will be installed on the system. Do not select it if you intend to encrypt the system partition or system drive. Selecting this option can be useful, for example, if you want to run TrueCrypt in so-called portable mode. TrueCrypt does not have to be installed on the operating system under which it is run. After all files are extracted, you can directly run the extracted file 'TrueCrypt.exe' (then TrueCrypt will run in portable mode).

TrueCrypt Installer

Help

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Next >

Cancel

TrueCrypt Setup 7.1a

Setup Options

Here you can set various options to control the installation process.

Please select or type the location where you want to install the TrueCrypt program files. If the specified folder does not exist, it will be automatically created.

C:\Program Files\TrueCrypt\

Browse...

- Install for all users
- Add TrueCrypt to Start menu
- Add TrueCrypt icon to desktop
- Associate the .tc file extension with TrueCrypt
- Create System Restore point

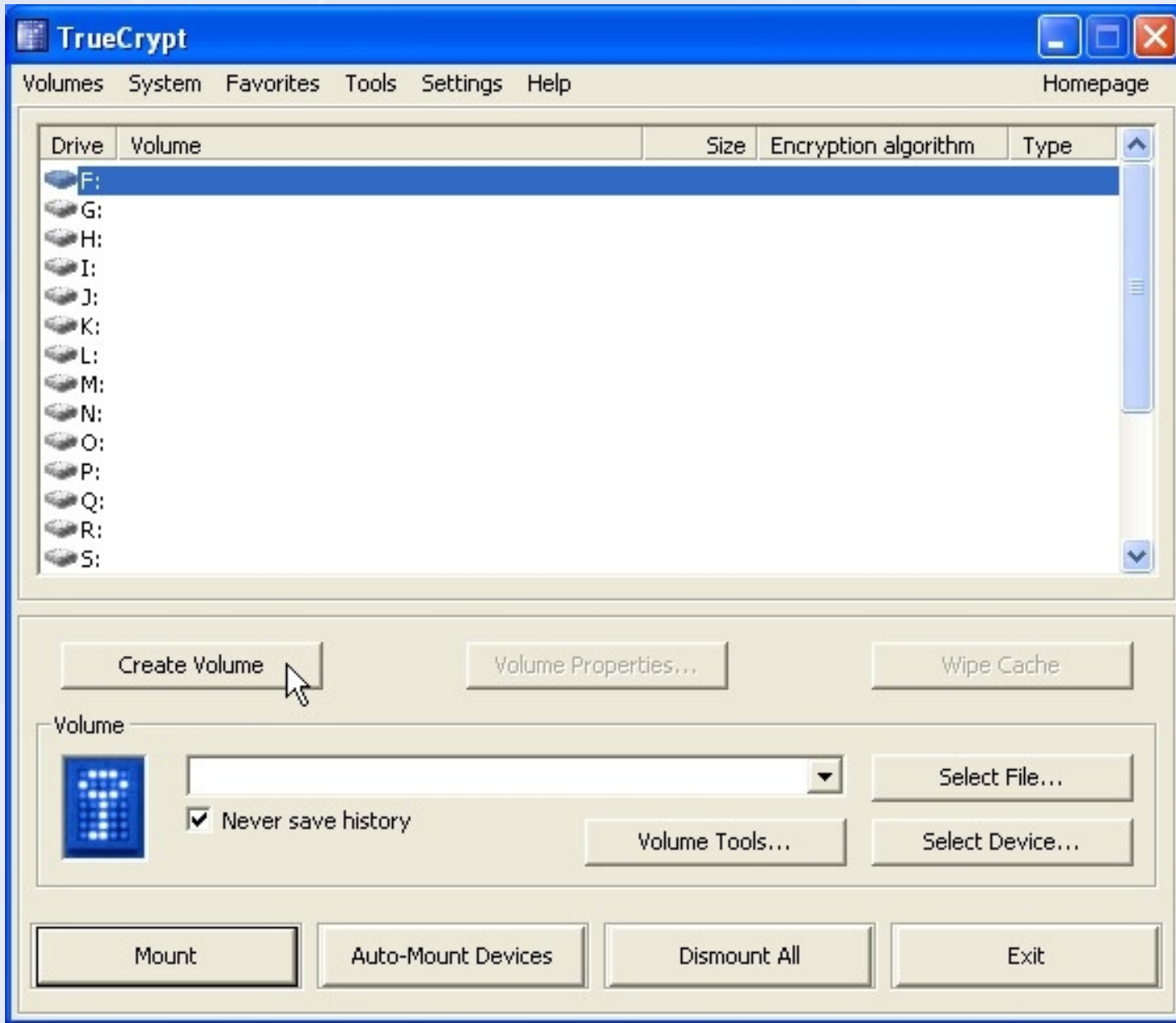
TrueCrypt Installer

Help

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Install

Cancel



TrueCrypt Volume Creation Wizard



TrueCrypt Volume Creation Wizard

Create an encrypted file container

Creates a virtual encrypted disk within a file. Recommended for inexperienced users.

[More information](#)

Encrypt a non-system partition/drive

Encrypts a non-system partition on any internal or external drive (e.g. a flash drive). Optionally, creates a hidden volume.

Encrypt the system partition or entire system drive

Encrypts the partition/drive where Windows is installed. Anyone who wants to gain access and use the system, read and write files, etc., will need to enter the correct password each time before Windows boots. Optionally, creates a hidden system.

[More information about system encryption](#)

Help

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Cancel

TrueCrypt Volume Creation Wizard



Volume Type

Standard TrueCrypt volume

Select this option if you want to create a normal TrueCrypt volume.

Hidden TrueCrypt volume

It may happen that you are forced by somebody to reveal the password to an encrypted volume. There are many situations where you cannot refuse to reveal the password (for example, due to extortion). Using a so-called hidden volume allows you to solve such situations without revealing the password to your volume.

[More information about hidden volumes](#)

Help

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Next >

Cancel

TrueCrypt Volume Creation Wizard



Volume Location

Select File...

Never save history

A TrueCrypt volume can reside in a file (called TrueCrypt container), which can reside on a hard disk, on a USB flash drive, etc. A TrueCrypt container is just like any normal file (it can be, for example, moved or deleted as any normal file). Click 'Select File' to choose a filename for the container and to select the location where you wish the container to be created.

WARNING: If you select an existing file, TrueCrypt will NOT encrypt it; the file will be deleted and replaced with the newly created TrueCrypt container. You will be able to encrypt existing files (later on) by moving them to the TrueCrypt container that you are about to create now.

Help

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Next >

Cancel

Specify Path and File Name



Save in:



My Recent Documents



Desktop



My Documents



My Computer



My Network Places

- .kde
- .tilemill
- AppData
- Desktop
- Documents
- ★ Favorites
- My Documents
- Start Menu
- UserData
- tilemill

File name:

Save as type:

Save

Cancel

TrueCrypt Volume Creation Wizard



Volume Location

C:\Documents and Settings\user\Desкто ▾

Select File...

Never save history

A TrueCrypt volume can reside in a file (called TrueCrypt container), which can reside on a hard disk, on a USB flash drive, etc. A TrueCrypt container is just like any normal file (it can be, for example, moved or deleted as any normal file). Click 'Select File' to choose a filename for the container and to select the location where you wish the container to be created.

WARNING: If you select an existing file, TrueCrypt will NOT encrypt it; the file will be deleted and replaced with the newly created TrueCrypt container. You will be able to encrypt existing files (later on) by moving them to the TrueCrypt container that you are about to create now.

Help

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Next >

Cancel

Specify Path and File Name



Save in: user



My Recent Documents



Desktop



My Documents



My Computer

- .kde
- .tilemill
- AppData
- Desktop
- Documents
- ★ Favorites
- My Documents
- Start Menu
- UserData
- tilemill

File name: encrypted.file

Save as type: All Files (*.*)

Save

Cancel



Encryption Options

Encryption Algorithm

AES

Test

FIPS-approved cipher (Rijndael, published in 1998) that may be used by U.S. government departments and agencies to protect classified information up to the Top Secret level. 256-bit key, 128-bit block, 14 rounds (AES-256). Mode of operation is XTS.

[More information on AES](#)

Benchmark

Hash Algorithm

RIPEMD-160

[Information on hash algorithms](#)

Help

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Next >

Cancel

TrueCrypt Volume Creation Wizard



Volume Size

 KB MB GB

Free space on drive C:\ is 9.98 GB

Please specify the size of the container you want to create.

If you create a dynamic (sparse-file) container, this parameter will specify its maximum possible size.

Note that the minimum possible size of a FAT volume is 292 KB.
The minimum possible size of an NTFS volume is 3792 KB.

Help

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Next >

Cancel



Volume Password

Password:

Confirm:

Use keyfiles

Display password

It is very important that you choose a good password. You should avoid choosing one that contains only a single word that can be found in a dictionary (or a combination of 2, 3, or 4 such words). It should not contain any names or dates of birth. It should not be easy to guess. A good password is a random combination of upper and lower case letters, numbers, and special characters, such as @ ^ = \$ * + etc. We recommend choosing a password consisting of more than 20 characters (the longer, the better). The maximum possible length is 64 characters.





Volume Format

Options

Filesystem **NTFS** Cluster **Default** Dynamic

Random Pool: *****
Header Key: *****
Master Key: *****



Abort

Done

Speed

Left

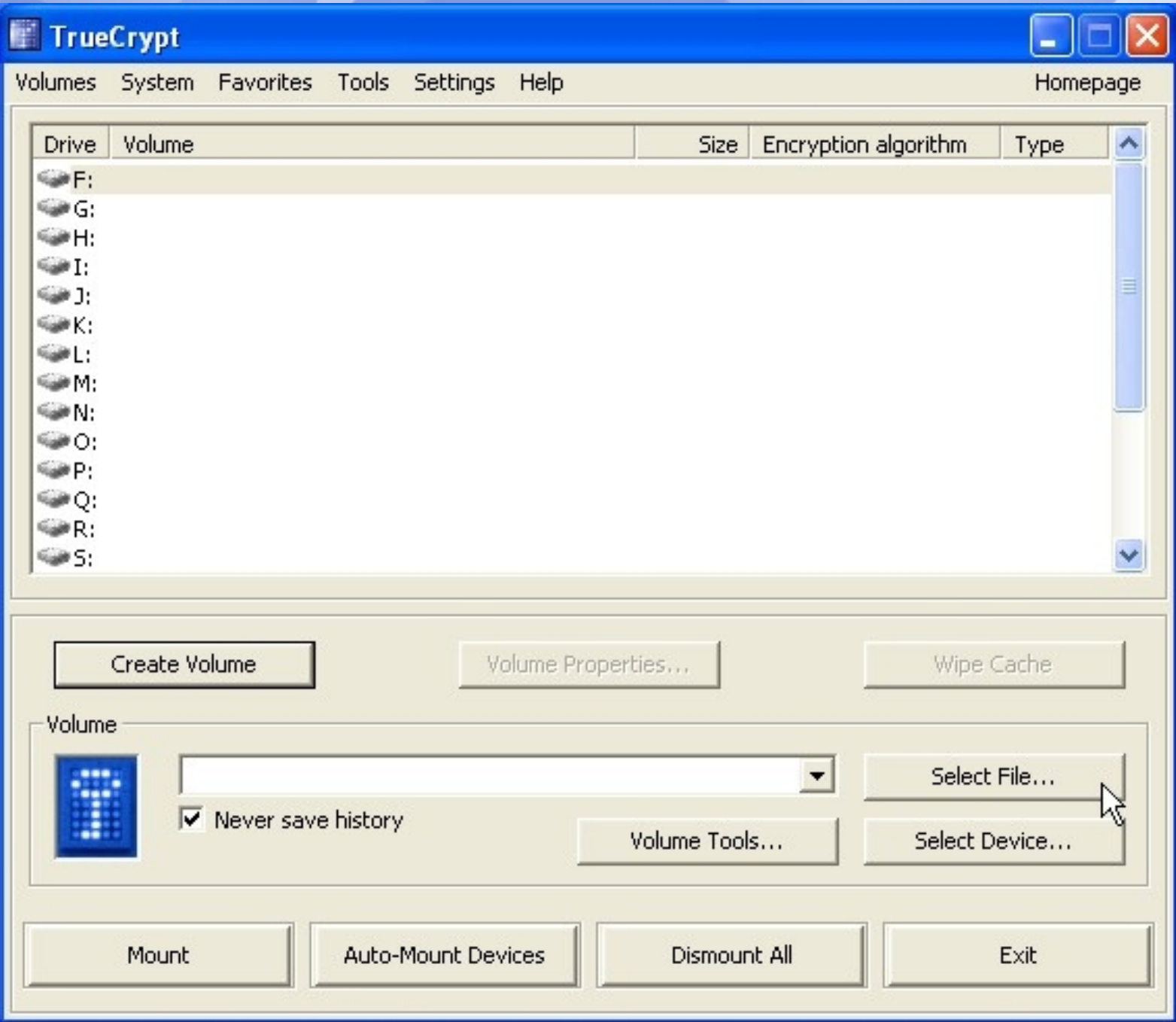
IMPORTANT: Move your mouse as randomly as possible within this window. The longer you move it, the better. This significantly increases the cryptographic strength of the encryption keys. Then click Format to create the volume.

Help

< Back

Format

Cancel



Select a TrueCrypt Volume



Look in: Desktop



- My Recent Documents
- Desktop**
- My Documents
- My Computer
- My Network Places

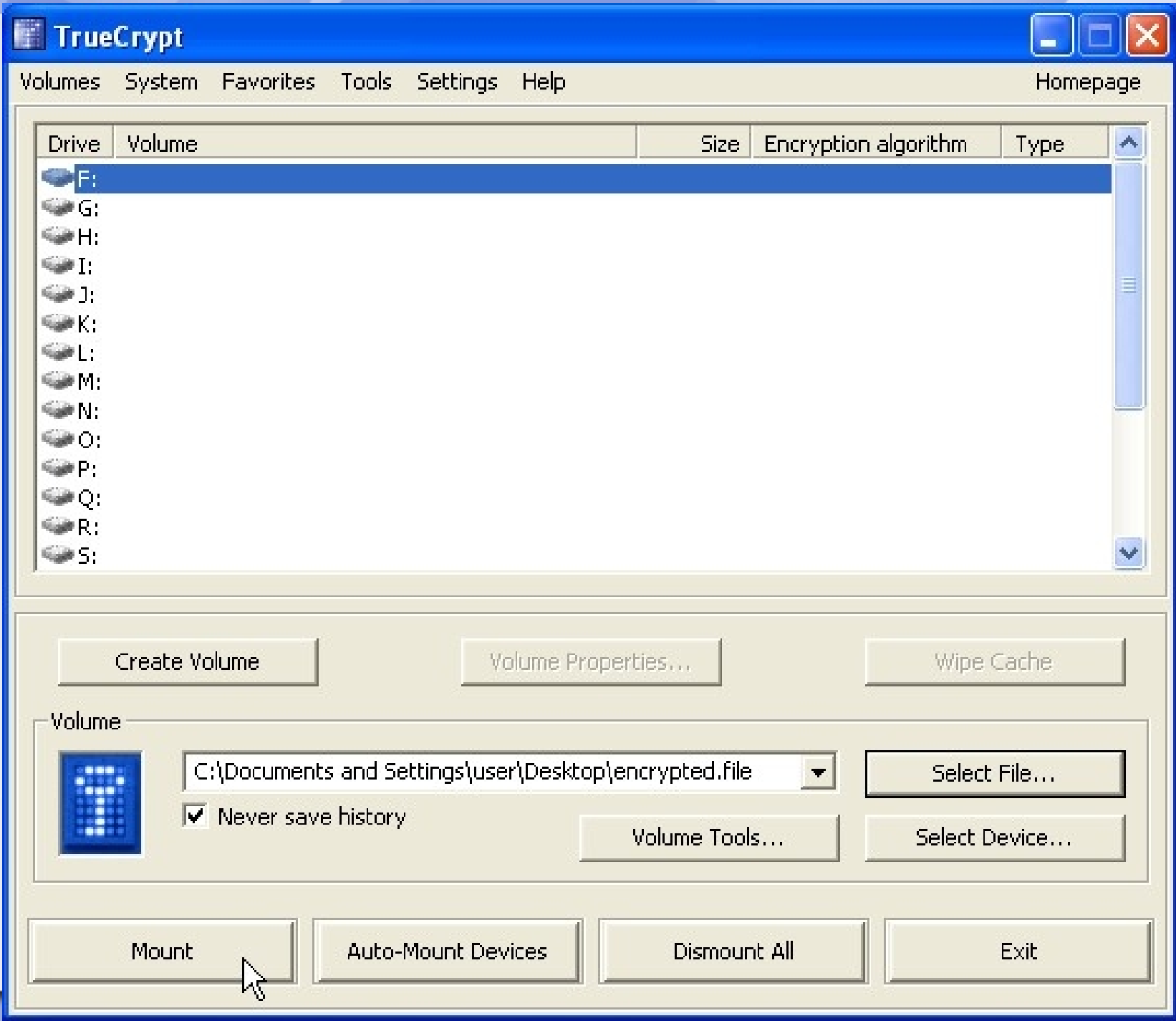
- My Documents
- My Computer
- My Network Places
- Mozilla Firefox
- Mozilla Thunderbird
- OpenOffice.org 3.2
- TrueCrypt
- encrypted file**
- secret
- secret.txt

File name: encrypted

Files of type: All Files (*.*)

Open

Cancel



Enter password for C:\Documents and Settings\... \encrypted.file

Password: *****

OK

Cancel

Cache passwords and keyfiles in memory

Display password

Use keyfiles

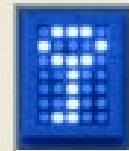
Keyfiles...

Mount Options...

Drive	Volume	Size	Encryption algorithm	Type
F:	C:\Documents and Settings\use...\encrypted.file	99 MB	AES	Normal
G:				
H:				
I:				
J:				
K:				
L:				
M:				
N:				
O:				
P:				
Q:				
R:				
S:				

Create Volume Volume Properties... Wipe Cache

Volume

 C:\Documents and Settings\user\Desktop\encrypted.file

Never save history

My Computer



File Edit View Favorites Tools Help



Files Stored on This Computer



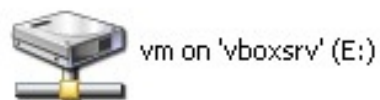
Hard Disk Drives



Devices with Removable Storage



Network Drives



TrueCrypt Volume Creation Wizard



TrueCrypt Volume Creation Wizard

Create an encrypted file container

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[More information](#)

Encrypt a non-system partition/drive

Encrypts a non-system partition on any internal or external drive (e.g. a flash drive). Optionally, creates a hidden volume.

Encrypt the system partition or entire system drive

Encrypts the partition/drive where Windows is installed. Anyone who wants to gain access and use the system, read and write files, etc., will need to enter the correct password each time before Windows boots. Optionally, creates a hidden system.

[More information about system encryption](#)

Help

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Next >

Cancel



Type of System Encryption

Normal

Select this option if you merely want to encrypt the system partition or the entire system drive.

Hidden

It may happen that you are forced by somebody to decrypt the operating system. There are many situations where you cannot refuse to do so (for example, due to extortion). If you select this option, you will create a hidden operating system whose existence should be impossible to prove (provided that certain guidelines are followed). Thus, you will not have to decrypt or reveal the password to the hidden operating system. For a detailed explanation, please click the link below.

[More information](#)



Area to Encrypt

Encrypt the Windows system partition

Select this option to encrypt the partition where the currently running Windows operating system is installed.

Encrypt the whole drive

Select this option if you want to encrypt the entire drive on which the currently running Windows system is installed. The whole drive, including all its partitions, will be encrypted except the first track where the TrueCrypt Boot Loader will reside. Anyone who wants to access a system installed on the drive, or files stored on the drive, will need to enter the correct password each time before the system starts. This option cannot be used to encrypt a secondary or external drive if Windows is not installed on it and does not boot from it.

Help

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Next >

Cancel



Encryption of Host Protected Area

- Yes
- No

At the end of many drives, there is an area that is normally hidden from the operating system (such areas are usually referred to as Host Protected Areas). However, some programs can read and write data from/to such areas.

WARNING: Some computer manufacturers may use such areas to store tools and data for RAID, system recovery, system setup, diagnostic, or other purposes. If such tools or data must be accessible before booting, the hidden area should NOT be encrypted (choose 'No' above).

Do you want TrueCrypt to detect and encrypt such a hidden area (if any) at the end of the system drive?

Help

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Next >

Cancel



Number of Operating Systems

Single-boot

Select this option if there is only one operating system installed on this computer (even if it has multiple users).

Multi-boot

Select this option if there are two or more operating systems installed on this computer.

For example:

- Windows XP and Windows XP
- Windows XP and Windows Vista
- Windows and Mac OS X
- Windows and Linux
- Windows, Linux and Mac OS X

Help

< Back

Next >

Cancel



Rescue Disk

Before you can encrypt the partition/drive, you must create a TrueCrypt Rescue Disk (TRD), which serves the following purposes:

- If the TrueCrypt Boot Loader, master key, or other critical data gets damaged, the TRD allows you to restore it (note, however, that you will still have to enter the correct password then).
- If Windows gets damaged and cannot start, the TRD allows you to permanently decrypt the partition/drive before Windows starts.
- The TRD will contain a backup of the present content of the first drive track (which typically contains a system loader or boot manager) and will allow you to restore it if necessary.

The TrueCrypt Rescue Disk ISO image will be created in the location specified below.

C:\Documents and Settings\user\Desktop\rescue

Browse...

Help

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Next >

Cancel

TrueCrypt Volume Creation Wizard



Rescue Disk Recording

The Rescue Disk image has been created and stored in this file:
C:\Documents and Settings\user\Desktop\rescuedisk

Now you need to burn it to a CD or DVD.

IMPORTANT: Note that the file must be written to the CD/DVD as an ISO disk image (not as an individual file). For information on how to do so, please refer to the documentation of your CD/DVD recording software. If you do not have any CD/DVD recording software that can write the ISO disk image to a CD/DVD, click the link below to download such free software.

After you burn the Rescue Disk, click Next to verify that it has been correctly burned.

[Download CD/DVD recording software](#)

Help

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Next >

Cancel



Rescue Disk Verified

The TrueCrypt Rescue Disk has been successfully verified. Please remove it from the drive now and store it in a safe place.

Click Next to continue.

Help

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Next >

Cancel

TrueCrypt Volume Creation Wizard



Wipe Mode

Wipe mode:

On some types of storage media, when data is overwritten with other data, it may be possible to recover the overwritten data using techniques such as magnetic force microscopy. This also applies to data that are overwritten with their encrypted form (which happens when TrueCrypt initially encrypts an unencrypted partition or drive). According to some studies and governmental publications, recovery of overwritten data can be prevented (or made very difficult) by overwriting the data with pseudorandom and certain non-random data a certain number of times. Therefore, if you believe that an adversary might be able to use such techniques to recover the data you intend encrypt, you may want to select one of the wipe modes (existing data will NOT be lost). Note that wiping will NOT be performed after the partition/drive is encrypted. When the partition/drive is fully encrypted, no unencrypted data is written to it. Any data being written to it is first encrypted on the fly in memory and only then is the (encrypted) data written to the disk.

Help

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Next >

Cancel



System Encryption Pretest

Before encrypting your system partition or drive, TrueCrypt needs to verify that everything works correctly.

After you click Test, all the necessary components (for example, the pre-boot authentication component, i.e. the TrueCrypt Boot Loader) will be installed and your computer will be restarted. Then you will have to enter your password in the TrueCrypt Boot Loader screen that will appear before Windows starts. After Windows starts, you will be automatically informed about the result of this pretest.

The following device will be modified: Drive #0

If you click Cancel now, nothing will be installed and the pretest will not be performed.



Help

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Test

Cancel



Pretest Completed

The pretest has been successfully completed.

WARNING: Please note that if power supply is suddenly interrupted while encrypting existing data in place, or when the operating system crashes due to a software error or hardware malfunction while TrueCrypt is encrypting existing data in place, portions of the data will be corrupted or lost. Therefore, before you start encrypting, please make sure that you have backup copies of the files you want to encrypt. If you do not, please back up the files now (you can click **Defer**, back up the files, then run TrueCrypt again anytime, and select 'System' > 'Resume Interrupted Process' to start encrypting).

When ready, click **Encrypt** to start encrypting.

Help

< Back

Encrypt

Defer

TrueCrypt Volume Creation Wizard



Encryption

Options

Wipe mode:



Pause

Done

Status

Left

You can click Pause or Defer anytime to interrupt the process of encryption or decryption, exit this wizard, restart or shut down your computer, and then resume the process, which will continue from the point it was stopped. To prevent slowdown when the system or applications write or read data from the system drive, TrueCrypt automatically waits until the data is written or read (see Status above) and then automatically continues encrypting or decrypting.

[More information](#)

Help

< Back

Encrypt

Defer

PGP Email Encryption

- *Cross-platform*
- *Works best with email clients*
- *Lots of moving parts*
- *Long-standing, open-source solution*
- *Can encrypt emails and files*



Nothing to see here

Protects Against

- *Unauthenticated conversations*
- *Adversary knowing what you are saying (body & attachment)*
- *Seizure from your computer or on the wire*



Nothing to see here

Does Not Protect Against

- *Adversary knowing who you are/are talking to*
- *Misplaced trust*
- *User error*
- *Swap/cold boot attacks*
- *Rubber-hose attack*



Nothing to see here



Max is sending an email encrypted with the Alle's public key

Encrypted connection
Can not be decoded by others

Alle's public key



Encrypted email



Alle's private key



Encrypted connection
Can not be decoded by others



Alle has received the email from Max and decrypts it with his own private key

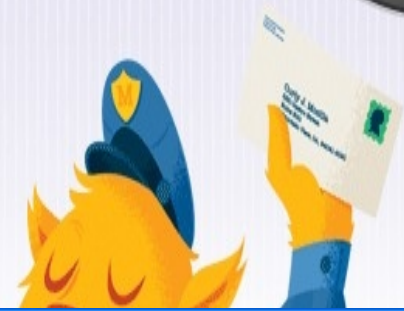


Choosing a Secure Passphrase

- *Unique*
- *Letters, numbers, special characters*
- *It's a phrase, not a word*
- *Th1s 1s n0t s3cur3*



Nothing to see here

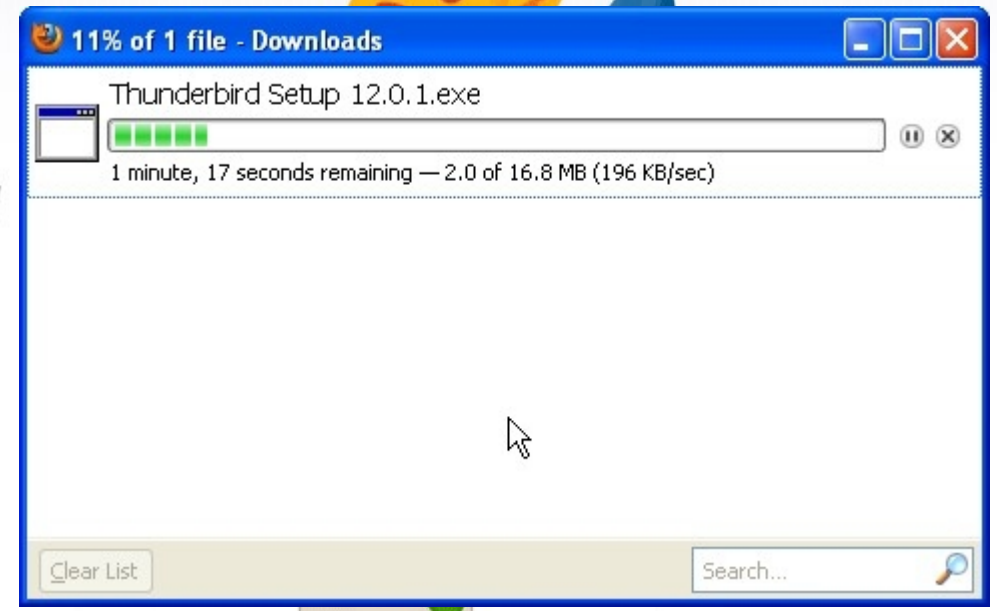


Software made to make email easier.

Thunderbird is a free email application that's easy to set up and customize - and it's loaded with great features!



[Release Notes](#) - [Other Systems & Languages](#)





Welcome to the Mozilla Thunderbird Setup Wizard

This wizard will guide you through the installation of Mozilla Thunderbird.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

Next >

Cancel



Setup Type

Choose setup options



Choose the type of setup you prefer, then click Next.

Standard

Thunderbird will be installed with the most common options.

Custom

You may choose individual options to be installed. Recommended for experienced users.

Use Thunderbird as my default mail application



< Back

Next >

Cancel



Summary



Ready to start installing Thunderbird

Thunderbird will be installed to the following location:

C:\Program Files\Mozilla Thunderbird

Thunderbird will be set as your default mail application.

Click Install to continue.

< Back

Install

Cancel



Completing the Mozilla Thunderbird Setup Wizard

Mozilla Thunderbird has been installed on your computer.

Click Finish to close this wizard.

Launch Mozilla Thunderbird now

< Back **Finish** Cancel

Mail Account Setup



Your name:

Your name, as shown to others

Email address:

Password:

Remember password



Mail Account Setup



Your name: Your name, as shown to others

Email address:

Password:

Remember password

Configuration found in Mozilla ISP database

IMAP (remote folders) POP3 (keep mail on your computer)

Incoming: IMAP, imap.googlemail.com, SSL

Outgoing: SMTP, smtp.googlemail.com, SSL

Username: hackblocworkshop@gmail.com

Inbox

Get Mail Write Address Book Tag Quick Filter

Search... <Ctrl+K>

hackblocwor...p@gmail.com

Quick Filter: Filter these messages... <Ctrl+Shift+K>

- Inbox (3)
- [Gmail]
- Drafts
- Sent Mail
- All Mail
- Spam
- Trash
- Starred
- Personal
- Receipts
- Travel
- Work
- Local Folders

Subject	From	Date
* Get Gmail on your mobile phone	Gmail Team	12:13 AM
* Import your contacts and old email	Gmail Team	12:13 AM
* Customize Gmail with colors and themes	Gmail Team	12:13 AM



Welcome to Thunderbird



Thunderbird Contributors: QA and Development

When the Thunderbird team recently started talking about how to increase the size of the Thunderbird contributor community, we thought that one interesting thing we could do was to describe the daily life of members of the Thunderbird team. In this post, we introduce readers to Thunderbird's quality assurance and development activities, and link to profiles of Ludo, our QA Lead and David, Thunderbird Architect. In these profiles we describe the activities and



Change History - Check integrity



News

2012-05-04

Gpg4win 2.1.1 Beta released

2011-03-15

Gpg4win 2.1.0 released

Older messages in news archive.

Gpg4win - a secure solution...

... for file and email encryption. Gpg4win (GNU Privacy Guard for Windows) is Free Software and can be installed with just a few mouse clicks.

Discover Gpg4win

Getting started

Join the community

- [README](#)

Gpg4win 2.1.0

You can download the full version (including the Gpg4win compendium) of Gpg4win 2.1.0 here:

Gpg4win 2.1.0

Size: 38 MByte | Released: 2011-03-15



- [OpenPGP signatur](#) (for gpg4win-2.1.0.exe)
- [SHA1 checksum](#) (for gpg4win-2.1.0.exe):
f619313cb42241d6837d20d24a814b81a1fe7f6d gpg4win-2.1.0.exe
- [Change History](#)
- [Sources and other Gpg4win-2.1.0 variants:](#)
 - Full version but *without* Kleopatra and manuals:

Gpg4win-Light 2.1.0

Size: 15 MByte

- [OpenPGP signatur](#) (for gpg4win-light-2.1.0.exe)
- [gpg4win-2.1.0.tar.bz2](#) (source code package); Size: 5 MByte
- All versions and OpenPGP signatures: files.gpg4win.org.

Gpg4win 2.1.0 contains:

```
GnuPG 2.0.17
Kleopatra 2.1.0 (2011-02-04)
GPA 0.9.1-svn1024
GpgOL 1.1.2
GpgEX 0.9.7
Claws Mail 3.7.8cvs47
Kompendium (de) 3.0.0
Kompendium (en) 3.0.0-beta1
```



Choose Components

Choose which features of Gpg4win you want to install.

Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.

Select components to install:

- GnuPG
- Kleopatra
- GPA
- GpgOL
- GpgEX
- Claws-Mail
- Gpg4win Compendium

Description
 GNU Privacy Assistant

Space required: 104.7MB



Define trustable root certificates

S/MIME configuration

Gpg4win needs a list of root certificates which you trust.

To avoid that each user must search and install the required root certificates, and also check and authenticate the trustworthiness of the same, it is useful to install a system-wide default of the most important root certificates:

1. Store the root certificates

Copy root certificate file to:

Therewith you can use S/MIME, the configuration is stringently required. Skip this configuration only if you don't want to use S/MIME.

Root certificate defined or skip configuration

Inbox

Get Mail Write Add

hackblo...p@gmail.com

Inbox (3)

- [Gmail]
- Drafts
- Sent Mail
- All Mail
- Spam
- Trash
- Important
- Starred
- Personal
- Receipts
- Travel
- Work

Local Folders

- Address Book Ctrl+Shift+B
- Saved Files Ctrl+J
- Add-ons**
- Test Pilot
- Activity Manager
- Message Filters...
- Run Filters on Folder
- Run Filters on Message
- Run Junk Mail Controls on Folder
- Delete Mail Marked as Junk in Folder
- Import...
- Error Console
- Account Settings...
- Options...







Search... <Ctrl+K>

Filter these messages... <Ctrl+Shift+K>

Contact Tags Attachment

	From	Date
mobile phone	Gmail Team	12:13 AM
and old email	Gmail Team	12:13 AM
colors and themes	Gmail Team	12:13 AM

- Search
- Get Add-ons
- Extensions
- Appearance
- Plugins

Name	Last Updated	Best match
 Enigmail 1.4.1 OpenPGP message encryption and authentication for Thunderbird and SeaMonkey. More	Friday, April 20, 2012	<input type="button" value="Install"/>
 iLeopard Mail 3.2.6 It is a Theme of the Mac Leopard-style which did iLeopard in a model. More	Monday, August 02, 2010	<input type="button" value="Install"/>
 Display mailing list header 0.3.2 This extension implements RFC 2369 for Thunderbird: Special mailing list header fields in the mail are parsed, and the links are displayed in the extended header view. You can click th... More	Saturday, April 21, 2007	<input type="button" value="Install"/>
 Leopard Mail-Default-Graphite 3.2.6 This theme is the skin which can change your Thunderbird like LeopardMail. More	Monday, August 02, 2010	<input type="button" value="Install"/>
 Leopard Mail-Default-Aqua 3.2.6 This theme is the skin which can change your Thunderbird like LeopardMail. More	Monday, August 02, 2010	<input type="button" value="Install"/>
 Newsgroup Links 0.1.1 Displays a link to the Google groups url of a newsgroup post, and an option to copy it. More	Monday, March 05, 2007	<input type="button" value="Install"/>

Install this add-on



Add-ons Manager x

enigmail

- Search
- Get Add-ons
- Extensions
- Appearance
- Plugins

Search: My Add-ons Available Add-ons

Name	Last Updated	Best match
Enigmail 1.4.1 Restart now Undo		
Enigmail 1.4.1 OpenPGP message encryption and authentication More		Friday, May 25, 2012
iLeopard Mail 3.2.6 It is a Theme of the Mac Leopard-style which did iLeopard in a model. More		Monday, August 02, 2010 <input type="button" value="Install"/>
Display mailing list header 0.3.2 This extension implements RFC 2369 for Thunderbird: Special mailing list header fields in the mail are parsed, and the links are displayed in the extended header view. You can click th... More		Saturday, April 21, 2007 <input type="button" value="Install"/>
Leopard Mail-Default-Graphite 3.2.6 This theme is the skin which can change your Thunderbird like LeopardMail. More		Monday, August 02, 2010 <input type="button" value="Install"/>
Leopard Mail-Default-Aqua 3.2.6 This theme is the skin which can change your Thunderbird like LeopardMail. More		Monday, August 02, 2010 <input type="button" value="Install"/>
Newsgroup Links 0.1.1 Displays a link to the Google groups url of a newsgroup post, and an option to copy it. More		Monday, March 05, 2007 <input type="button" value="Install"/>

File Edit View Go Message OpenPGP Tools Help

Inbox

Get Mail Write Add

hackbloccw...p@gmail.com

Inbox (3)

- [Gmail]
- Drafts
- Sent Mail
- All Mail (3)
- Spam
- Trash
- Important
- Starred
- Personal
- Receipts
- Travel
- Work

Local Folders

- Save Decrypted Message
- Preferences
- Key Management
- Help
 - Setup Wizard
 - About OpenPGP

Quick Filter

Search... <Ctrl+K>

Filter these messages... <Ctrl+Shift+K>

Starred Contact Tags Attachment

	From	Date
your mobile phone	Gmail Team	12:13 AM
Import your contacts and old email	Gmail Team	12:13 AM
Customize Gmail with colors and themes	Gmail Team	12:13 AM

Outpost Firewall

Automatic Rules Creation

Rules were automatically created by training mode.

Process: C:\PROGRAM FILES\GNU\GNUPG\PUB\GPG.EXE

Do not show this alert again



Welcome to the OpenPGP Setup Wizard

This wizard helps you to start using OpenPGP right away. Over the next few screens we'll ask you some questions to get everything setup.

To keep everything simple, we make some assumptions about configuration. These assumptions try to provide a high level of security for the average user without creating confusion. Of course, you can change all of these settings after you finish the wizard. You can find out more about the OpenPGP features in the Help menu or on the [Enigmail website](#).

If you have any trouble using this wizard, please let us know by [emailing us](#).

This wizard is automatically invoked when you first install Enigmail. You can also launch it manually from the OpenPGP menu.

Thank you for choosing Enigmail OpenPGP!

Would you like to use the wizard now?

- Yes, I would like the wizard to get me started
- No, thanks. I prefer to configure things manually

< Back

Next >

Cancel

OpenPGP Setup Wizard



Encryption

Encrypt Your Outgoing Emails

OpenPGP allows you to encrypt your email messages and any attachments. Encryption is like putting a letter in an envelope. It makes things private. It's not just for "secret" messages, but for everything that you would not send on a postcard.

On a technical level, encryption works like a padlock that only the recipient has the key for. Unlike signing, to use encryption all the recipients of an email need to use OpenPGP. People need to give you their public key before you can send them encrypted email (the public key is the pad lock we were talking about).

Unless most of your communication partners have public keys, you should not enable encryption by default.

Shall your outgoing email be encrypted by default?

- Yes, I have public keys for most of my contacts
- No, I will create per-recipient rules for those that sent me their public key

< Back

Next >

Cancel

OpenPGP Setup Wizard



Preferences

Change Your Email Settings To Make OpenPGP Work More Reliably

This wizard can change your email settings to make sure there are no problems with signing and encrypting email on your machine. These setting changes are mostly technical stuff you will not notice, though one important thing is that email will be composed in plain text by default.

Do you want to change a few default settings to make OpenPGP work better on your machine?

- Yes [Details ...](#)
- No, thanks



< Back

Next >

Cancel

OpenPGP Setup Wizard



No OpenPGP Key Found

We could not find any OpenPGP Key

We could not find any OpenPGP key. Please select below if you want to create a new key pair or if you want to import an existing key.

- I want to create a new key pair for signing and encrypting my email
- I have existing public and private keys that I would like to import

< Back

Next >

Cancel

OpenPGP Setup Wizard



Summary

Confirm that the wizard shall now commit these changes

You are almost complete! If you click on the 'Next' button, the wizard will perform the following actions:

- Create a new 2048-bit OpenPGP key, valid for 5 years
- Activate OpenPGP for your email account
- Do not sign emails by default
- Do not encrypt emails by default
- Adjust all recommended application settings

OpenPGP Confirm



Key generation completed! Identity <hackbloccworkshop@gmail.com> will be used for signing.

We highly recommend to create a revocation certificate for your key. This certificate can be used to invalidate your key, e.g. in case your secret key gets lost or compromised. Do you want to create such a revocation certificate now?

OpenPGP Setup Wizard



Summary

Confirm that the wizard shall now commit these changes

You are almost complete! If you click on the 'Next' button, the wizard will perform the following actions:

- Use the existing OpenPGP key ID 0E8FED00B375E606 for signing
- Activate OpenPGP for your email account
- Do not sign emails by default
- Do not encrypt emails by default
- Adjust all recommended application settings

< Back

Next >

Cancel

Inbox

Get Mail Write Address Book Tag Decrypt Quick Filter

Search... <Ctrl+K>

hackbloccwor...p@gmail.com

Quick Filter: Unread Starred Contact Tags Attachment

Filter these messages... <Ctrl+Shift+K>

Inbox (3) Create a new message

Subject	From	Date
★ Get Gmail on your mobile phone	Gmail Team	12:13 AM
★ Import your contacts and old email	Gmail Team	12:13 AM
★ Customize Gmail with colors and themes	Gmail Team	12:13 AM

[Gmail]

- Drafts
- Sent Mail
- All Mail (3)
- Spam
- Trash
- Important
- Starred
- Personal
- Receipts
- Travel
- Work


Local Folders

Write: THIS IS A TEST SUPER SECRET

File Edit View Options OpenPGP Tools Help

Send Spelling Attach OpenPGP S/MIME Save

From: Super Mc. Secret <hackblocworkshop@gmail.com> *hackblocworkshop@gmail.com*

To:  hackblocworkshop@gmail.com

Subject: THIS IS A TEST SUPER SECRET

CAN YOU READ ME?

Message




Write: THIS IS A TEST SUPER SECRET

File Edit View Options OpenPGP Tools Help

Send Spelling Attach OpenPGP S/MIME Save


From: Super Mc. Secret <hackblocworkshop@gmail.com> *hackblocworkshop@gmail.com*

To:  hackblocworkshop@gmail.com

Subject: THIS IS A TEST SUPER SECRET

CAN YOU READ ME?

pinentry

 Please enter the passphrase to unlock the secret key for the OpenPGP certificate:
"Secret Mc Cloud <hackblocworkshop@gmail.com>"
2048-bit RSA key, ID B375E606,
created 2012-05-25.

Passphrase

OK Cancel

Message

Write: THIS IS A TEST SUPER SECRET

File Edit View Options OpenPGP Tools Help

Send Spelling Attach OpenPGP S/MIME Save

From: Super Mc. Secret <hackblocworkshop@gmail.com> *hackblocworkshop@gmail.com*

To: hackblocworkshop@gmail.com

Subject: THIS IS A TEST SUPER SECRET

-----BEGIN PGP MESSAGE-----
Charset: ISO-8859-1
Version: GnuPG v2.0.19 (Min
Comment: Using GnuPG with M

hQEMA0XjpwQvxaENAQf+P9LxQcm
UTyBwVkwNzB8ud+4lW2AZ8OgPHw
Qz8/+0I2pImKtvpl+udCrt0+o8Q
PyDdlTOHwDckWNSnYS5AygLLA1N
SOZ15fNM1VssUok1ko0umzYQ1PfpM+CAUngKXMIzS+9uNwovc5MGLouWjm1Bw/a
faQmZHDe8cKU12EpoE7PoE2BPTqM6dUO7vWzXeWGFtLAvGFM04HIHgnYhoacvMC7
CT+x2rUPoifCTv7UJ4vrj8jZZccrHUI/OvzcXVOKL1EP9EB+Pp1G4aJXowiaNAb0
CrZxPTNcgP1cTMYzPIrZgSJZ8lviakog5C1Ns1E7J/LAq75vkrN2bZSTP9D2v3HV
rhOG5rAa/TXgL7FY+pfJz6ZzPrPfYHJuvH6Mpi2GOYPBNhyLL8YxMRTGee+/+PdQ
id1p31M4STeEhZxho10h50x1NEBsAxG7cGfctckcyuqpaB+0snGS2gGL7GIgrEGu
tkctcHPgj/sgU82uSTC+8y3u41K1FHW80hL9h01Gr3t1JdCddVnKCplEziZY6BQ1
adya0tyF/7AJIMZhjev59cgsSiSWSx999CL01JhEDdFHyvYJhvoHRShYTC9EbeXx
LnpsePsd1v+YWP+cxieSbrUoudrYtzBti67FzmtD7OYELFVlunIkBhs9MfAsrDft
M7ENzmFf6ZpSFczTU39d/53VPKGT7N1NrmU86yr5dgU=
=LUcS
-----END PGP MESSAGE-----

Connected to smtp.googlemail.com...

Sending Messages - THIS IS A TEST SUPER SECRET

Status: Connected to smtp.googlemail.com...

Progress:

Cancel

Inbox

Get Mail Write Address Book Tag Decrypt Quick Filter

Search... <Ctrl+K>

hackbloctwor...p@gmail.com

Quick Filter: Unread Starred Contact Tags Attachment Filter these messages... <Ctrl+Shift+K>

- Inbox (4)
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
- Spam
- Trash
- Important
- Starred
- Personal
- Receipts
- Travel
- Work
- Local Folders

Subject	From	Date
★ Get Gmail on your mobile phone	Gmail Team	12:13 AM
★ Import your contacts and old email	Gmail Team	12:13 AM
★ Customize Gmail with colors and themes	Gmail Team	12:13 AM
★ * THIS IS A TEST SUPER SECRET	Super Mc. Secret	12:24 AM

hackbloctworkshop@gmail.com received 1 new message

THIS IS A TEST SUPER SECRET Super Mc. Secret

-----BEGIN PGP MESSAGE----- Charset: ISO-8859-1 Version: GnuPG v2.0.19 (MingW32)...

Inbox
Get Mail Write Address Book Tag Decrypt Quick Filter

Search... <Ctrl+K>

hackbloccwor...p@gmail.com
Inbox (3)
[Gmail]
Drafts
Sent Mail
All Mail (4)
Spam
Trash
Important
Starred
Personal
Receipts
Travel
Work
Local Folders

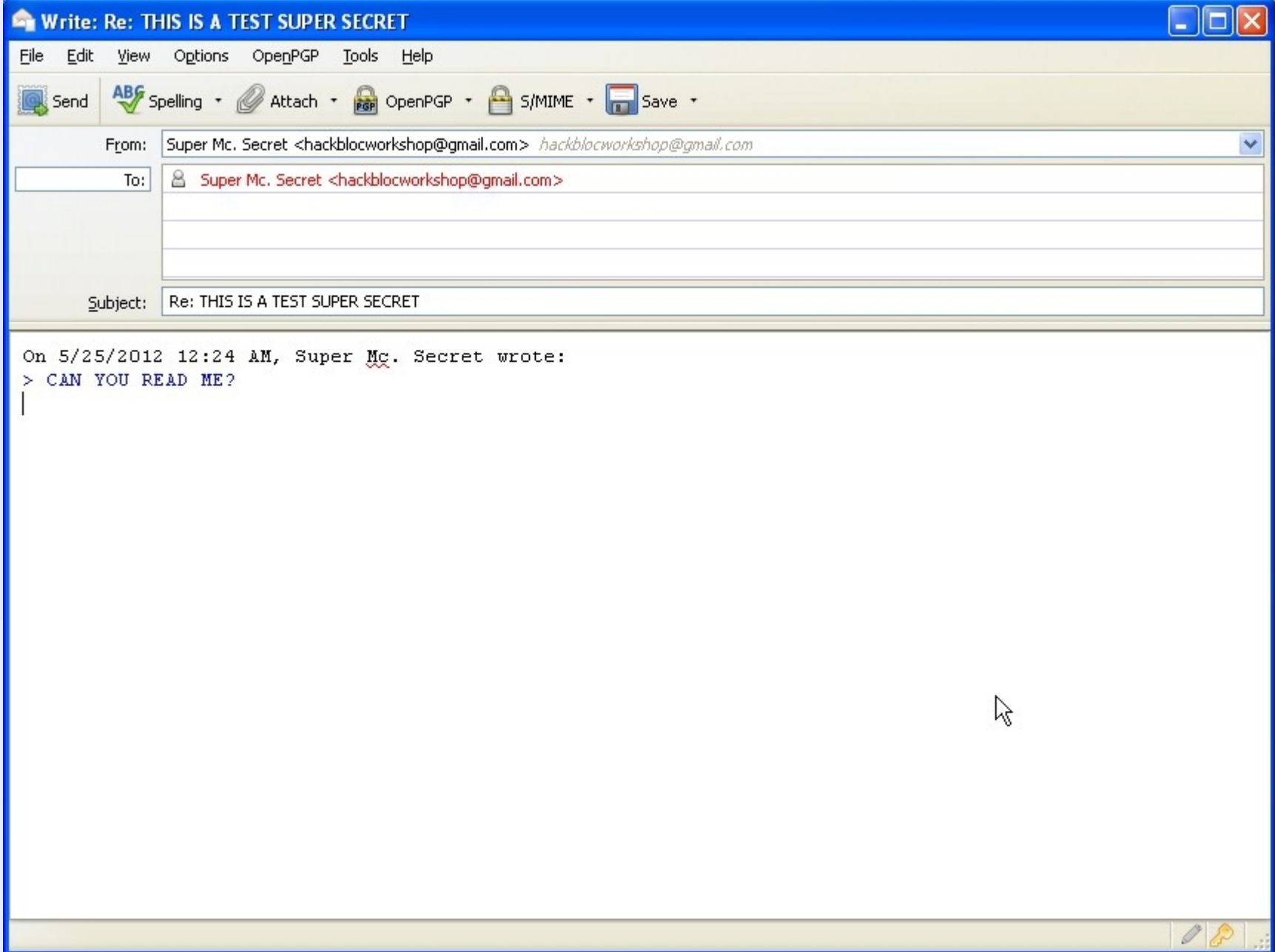
Quick Filter: Unread Starred Contact Tags Attachment
Filter these messages... <Ctrl+Shift+K>

Subject	From	Date
★ Get Gmail on your mobile phone	Gmail Team	12:13 AM
★ Import your contacts and old email	Gmail Team	12:13 AM
★ Customize Gmail with colors and themes	Gmail Team	12:13 AM
★ THIS IS A TEST SUPER SECRET	Super Mc. Secret	12:24 AM

OpenPGP Decrypted message; Good signature from Secret Mc Cloud <hackbloccworkshop@gmail.com> Details

From Me
Subject **THIS IS A TEST SUPER SECRET**
To Me
Reply Forward Archive Junk Delete
12:24 AM
Other Actions

CAN YOU READ ME?



Inbox - Mozilla Thunderbird

File Edit View Go Message OpenPGP Tools Help

Inbox
Get Mail Write Address Book Tag Decrypt Quick Filter

Search... <Ctrl+K>

hackbloccwor...p@gmail.com

Quick Filter: Unread Starred Contact Tags Attachment

Filter these messages... <Ctrl+Shift+K>

- Inbox (3)
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
- Spam
- Trash
- Important
- Starred
- Personal
- Receipts
- Travel
- Work
- Local Folders

Subject	From	Date
Get Gmail on your mobile phone	Gmail Team	12:13 AM
Import your contacts and old email	Gmail Team	12:13 AM
Customize Gmail with colors and themes	Gmail Team	12:13 AM
THIS IS A TEST SUPER SECRET	Super Mc. Secret	12:24 AM

OpenPGP Decrypted message; Good signature from Secret Mc Cloud <hackbloccworkshop@gmail.com>

Details

From Me

Subject Me

To

- Edit Contact...
- Compose Message To
- Copy Email Address
- Create Filter From...
- Create OpenPGP Rule from Address...

Reply Forward Archive Junk Delete

12:24 AM

Other Actions

Unread: 3 Total: 4

OpenPGP - Recipient Settings



Set OpenPGP Rules for (Separate several email addresses with spaces)

Apply rule if recipient one of the above addresses

Action

- Continue with next rule for the matching address
- Do not check further rules for the matching address
- Use the following OpenPGP keys:

Defaults for ...

Signing

Encryption

PGP/MIME

(Note: in case of conflicts, 'Never' overrules 'Always')

- Inbox
- Get Mail
- Write
- hackblo...p@gmail.com
- Inbox (2)
 - [Gmail]
 - Drafts
 - Sent Mail
 - All Mail (2)
 - Spam
 - Trash
 - Important
 - Starred
 - Personal
 - Receipts
 - Travel
 - Work
- Local Folders

- OpenPGP
 - Save Decrypted Message
 - Preferences
 - Key Management
 - Help
 - Setup Wizard
 - About OpenPGP

Quick Filter

Search... <Ctrl+K>

Filter these messages... <Ctrl+Shift+K>

Starred Contact Tags Attachment

	From	Date
★	Gmail Team	12:13 AM
★	Gmail Team	12:13 AM
★	Gmail Team	12:13 AM

From: Gmail Team <mail-noreply@google.com>

Subject: **Customize Gmail with colors and themes**

To: Me

12:13 AM

Other Actions

Reply Forward Archive Junk Delete

To spice up your inbox with colors and themes, check out the Themes tab under Settings.

Customize Gmail » <<https://mail.google.com/mail/#settings/themes>>

Enjoy!

- The Gmail Team
[image: Themes thumbnails]

Please note that Themes are not available if you're using Internet Explorer 6.0. To take advantage of the latest Gmail features, please upgrade to a fully supported browser<http://support.google.com/mail/bin/answer.py?answer=6557&hl=en&utm_source=wel-ml&utm_medium=eml&utm_campaign=en>

OpenPGP Key Management

File Edit View Keyserver Generate

Search for:

work

Clear

Display All Keys by Default

Name

Key ID



+ Secret Mc Cloud <hackblocworkshop@gmail.com>

B375E606

Additional Tools of Interest

- *Etherpad*
- *SpiderOak, BTSync*
- *Privnote*
- *HackThisZine*
- *Linux + LUKS Encryption*
- *Mega.co.nz*
- *VPN and Proxy services*

