

# **Protecting Private Information with TrueCrypt**

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# **What Kind of Information Should Be Encrypted?**

- **Anything you don't want someone else to see...**
  - **Passwords**
  - **Medical**
  - **Financial**
  - **Insurance**
  - **Sensitive correspondence**



# What is TrueCrypt?

- **Free, easy to use encryption software (open source\*)**
- **Available for Windows (XP, Vista, 7), Mac OS X and Linux**
- **Protects folders & files are by strong encryption**
- **Volumes (“Safes”/“Vaults”) are virtual disk drives within physical drives**
- **Available from  or more directly;  excellent documentation at **

\* For information about Open Source, see  

# Installing TrueCrypt

- Go to <http://www.truecrypt.org/downloads> 

Latest Stable Version - 7.1

*Windows 7/Vista/XP/2000*

**Left-click ►**

TrueCrypt Setup 7.1.exe (3.3 MB)

*Mac OS X*

.dmg package

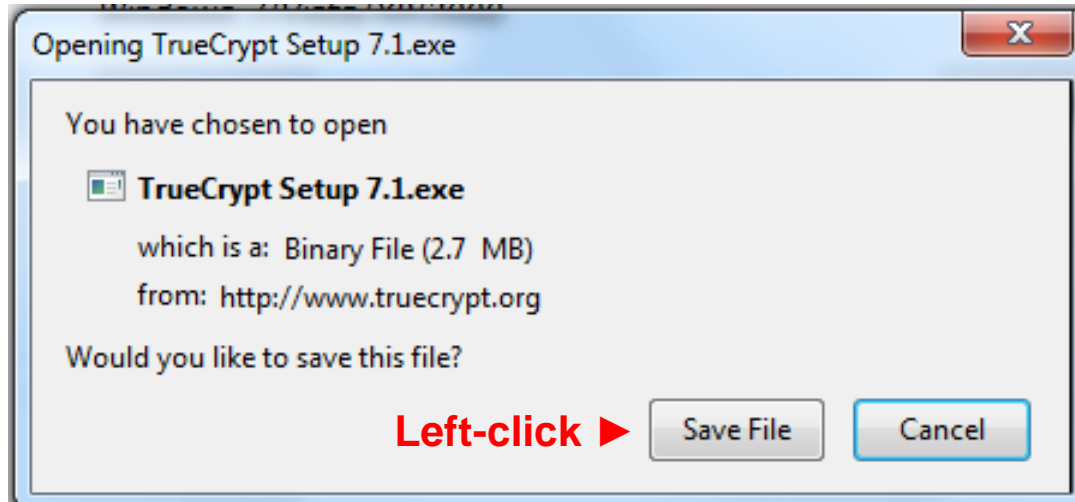
*Linux*

(Select a package) ▼

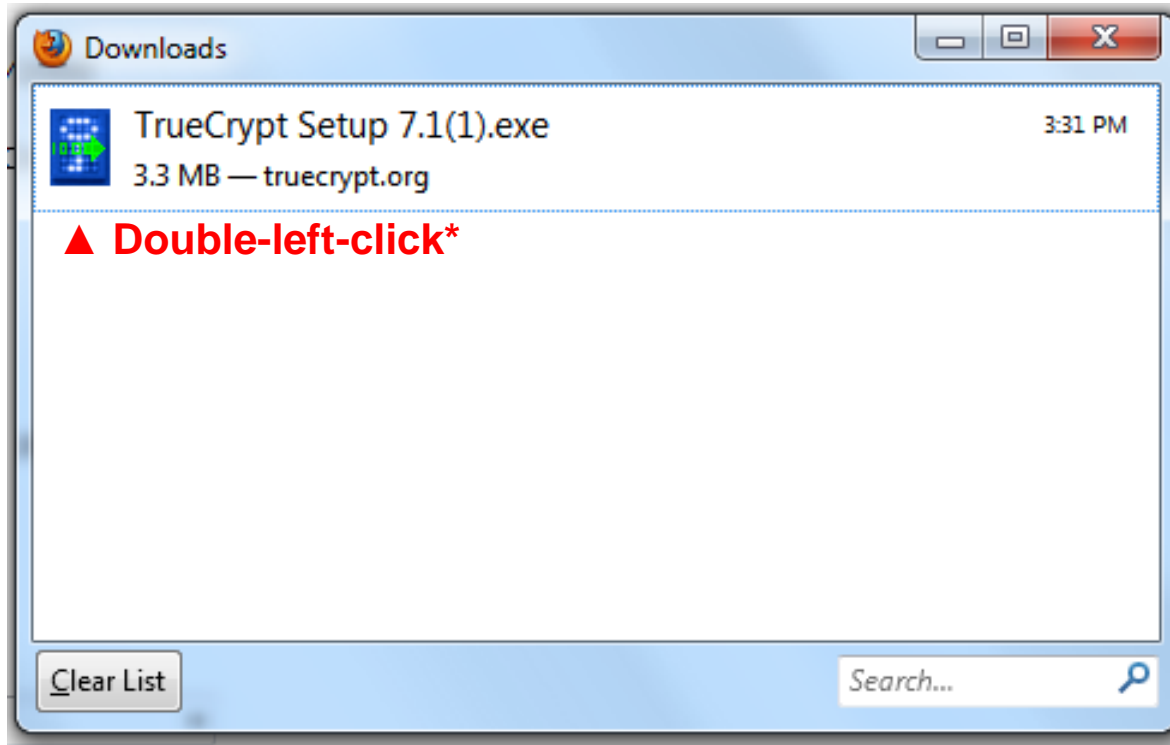
.tar.gz containing an executable setup file



# Installing TrueCrypt (cont.)

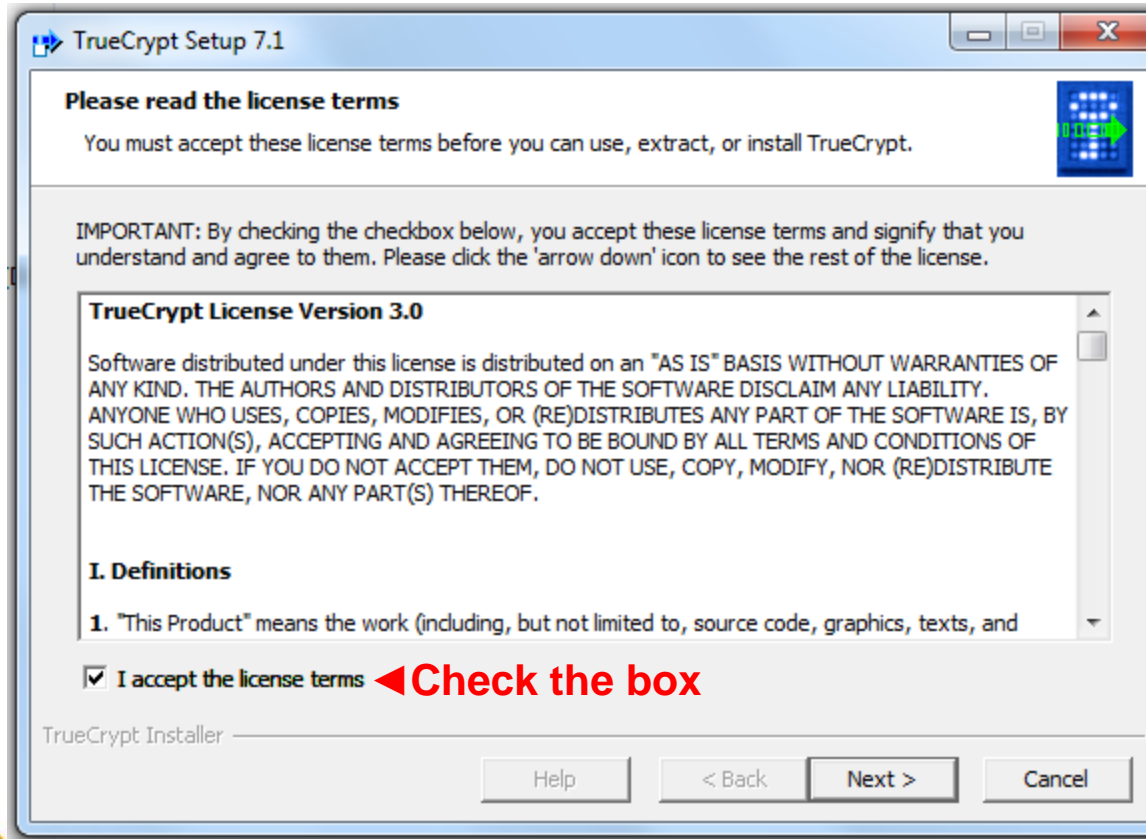


# Installing TrueCrypt (cont.)



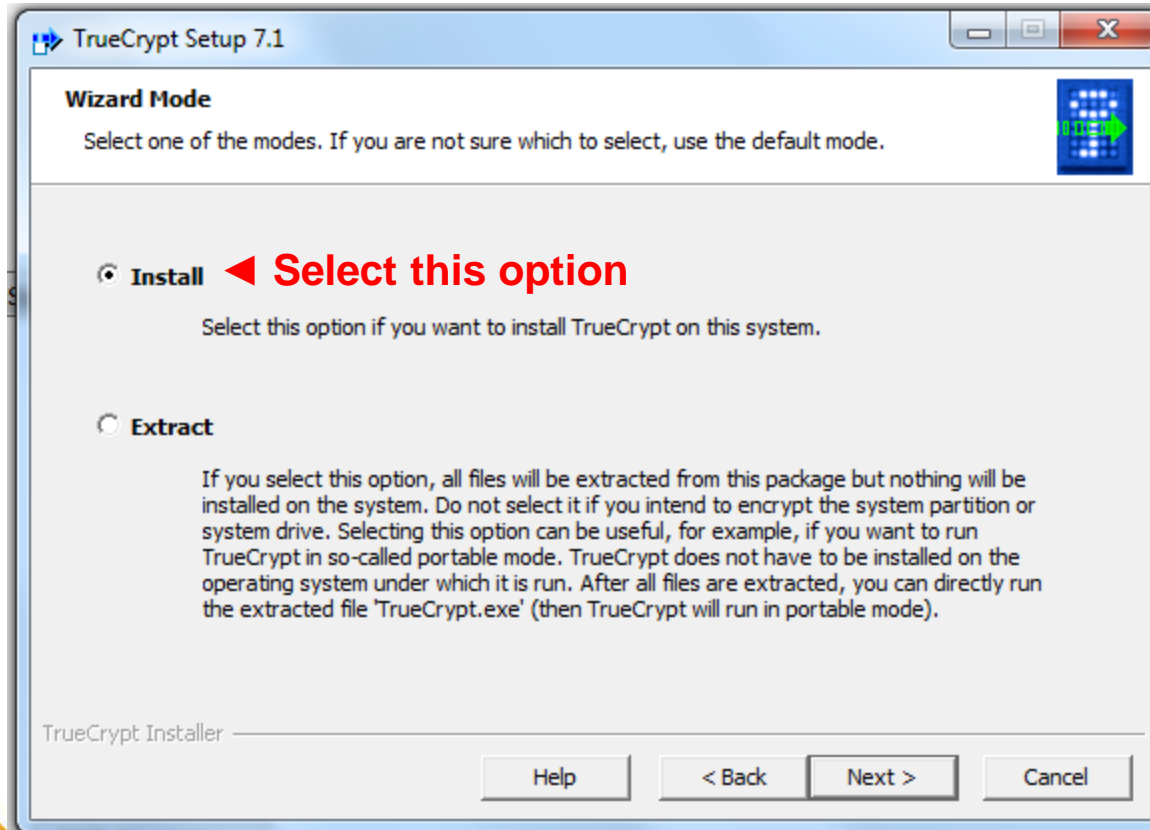
\*It may be necessary to enter Administrator password

# Installing TrueCrypt (cont.)



Left-click on "Next" ▲

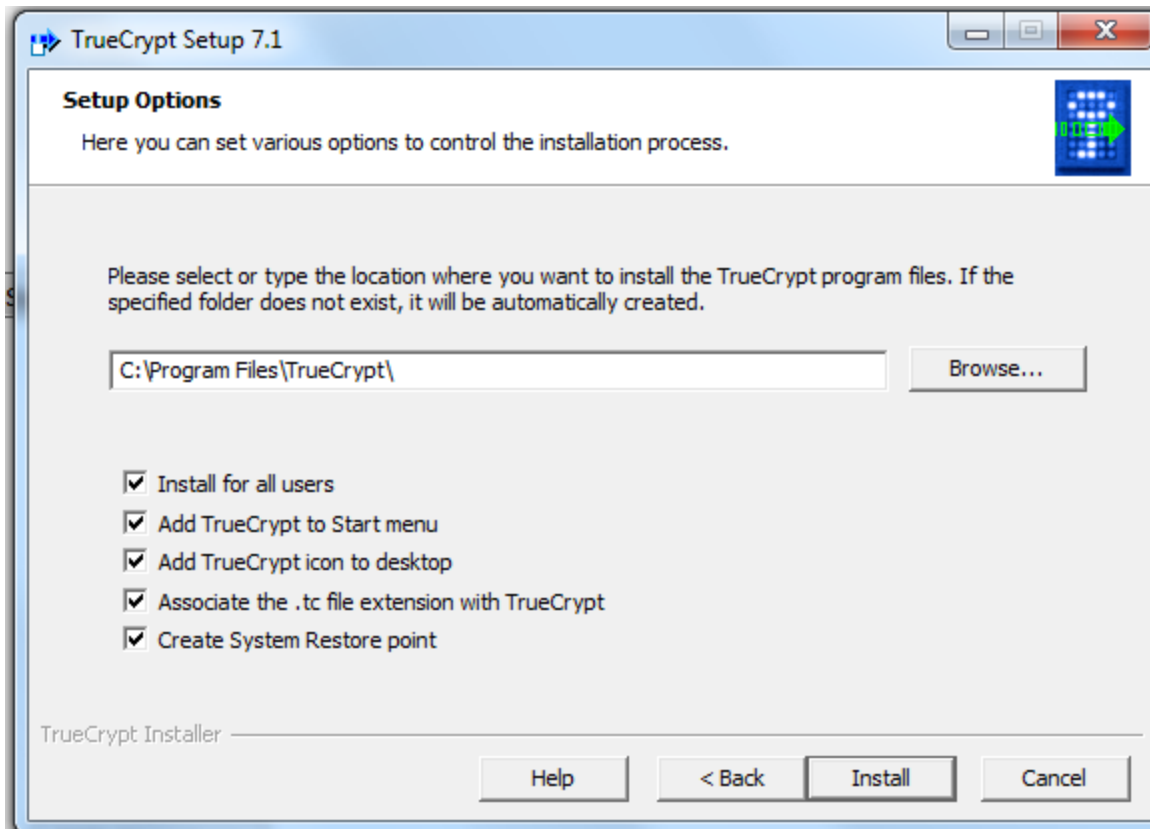
# Installing TrueCrypt (cont.)



Left-click on "Next" ▲



# Installing TrueCrypt (cont.)



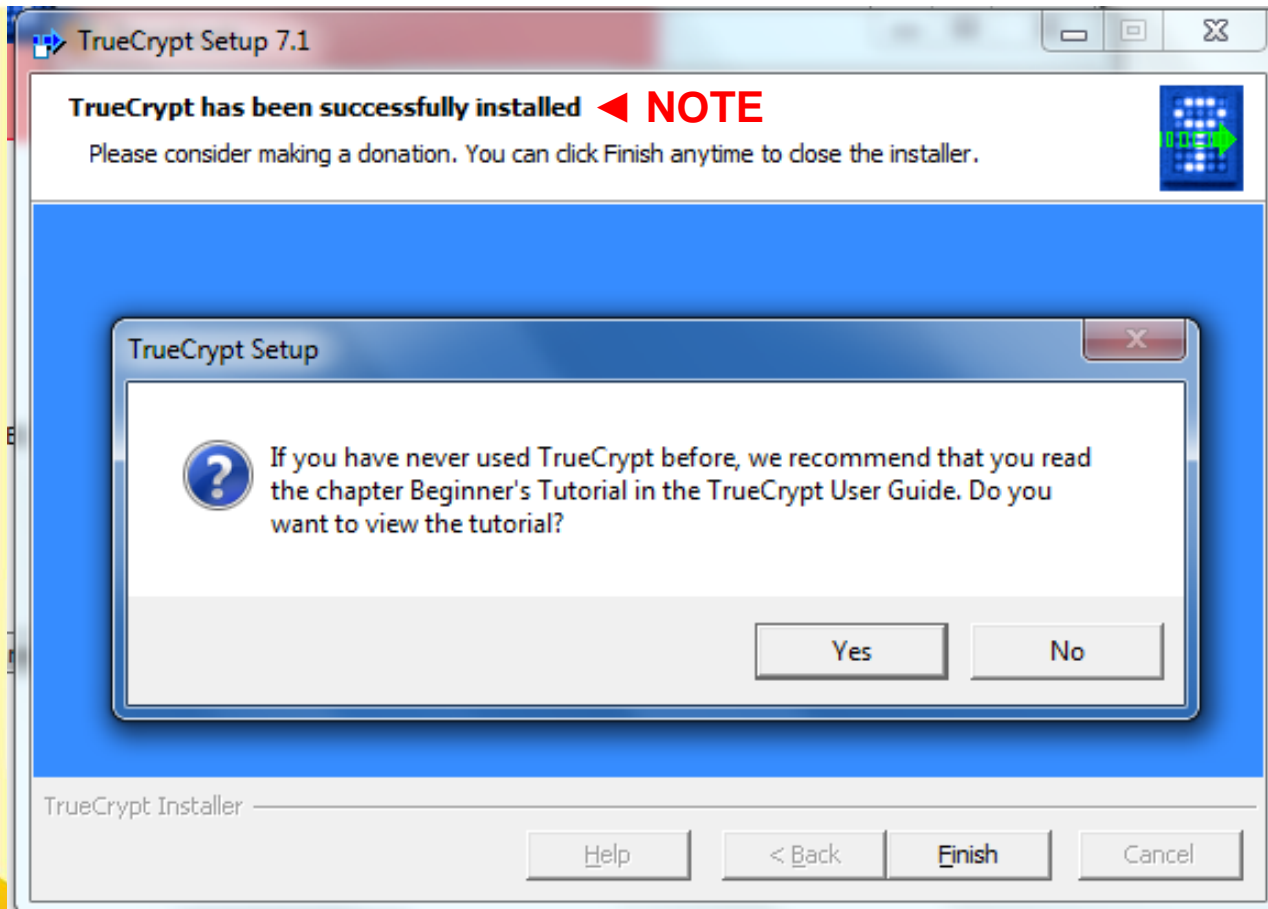
**Left-click on "Install" ▲**

# Installing TrueCrypt (cont.)

- **You will notice numerous files being installed in C:\Program Files\TrueCrypt**
- **You will be asked to contribute a donation**



# Installing TrueCrypt (cont.)



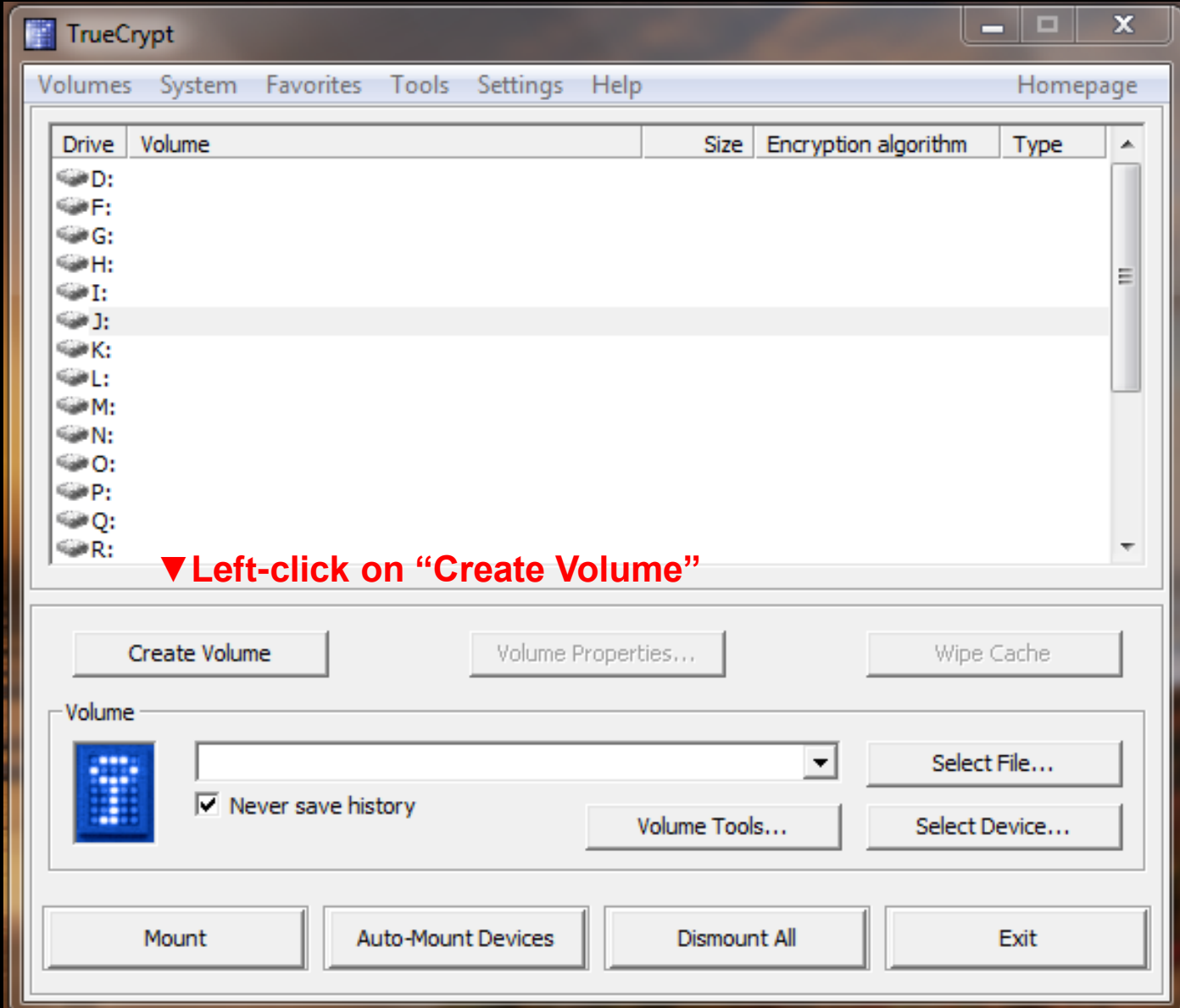
# Creating a TrueCrypt Volume (“Safe”/“Vault”)

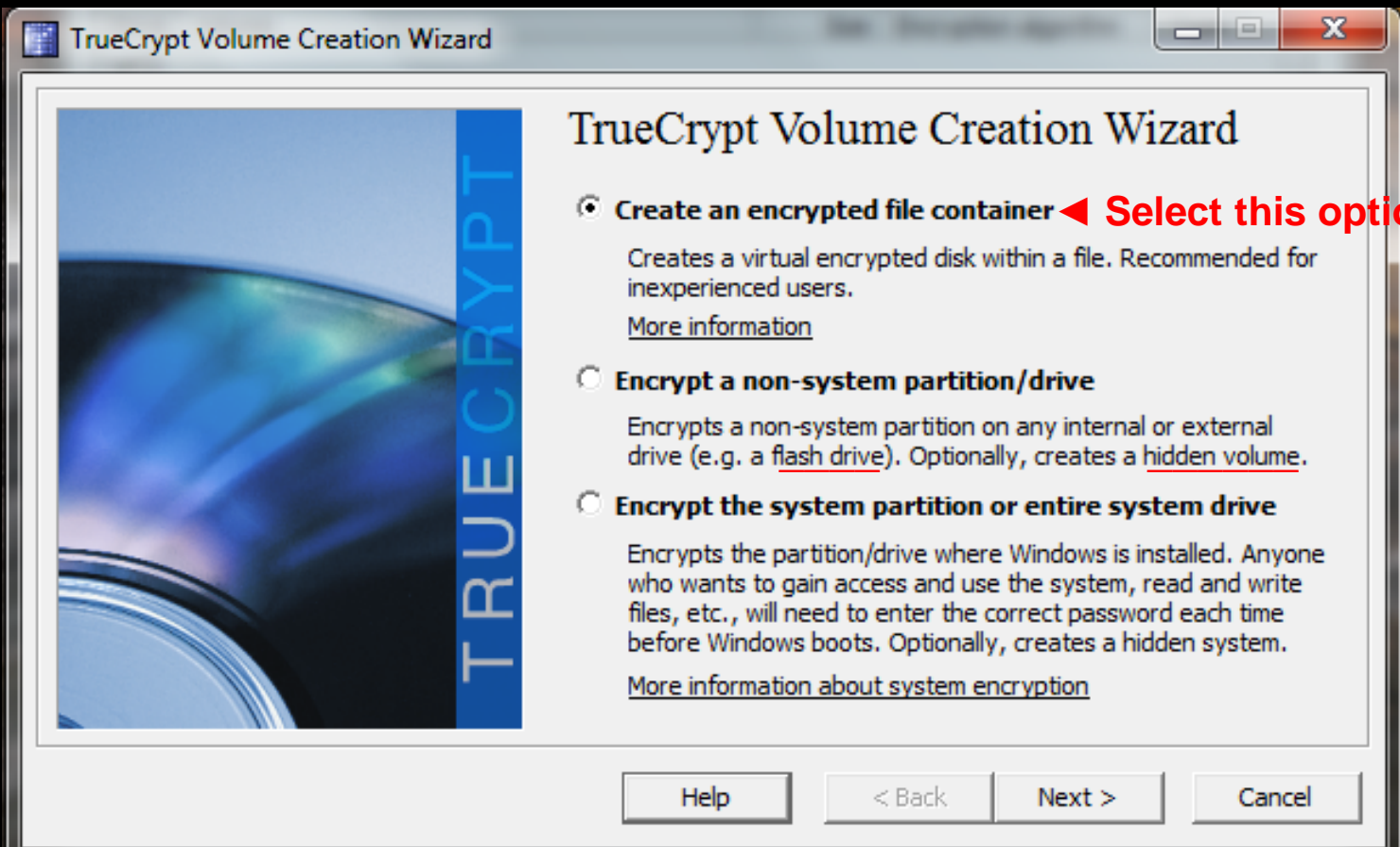
- **Invoke TrueCrypt**

- **From a shortcut on the desktop**
- **From an object on the Taskbar**
- **Start → [key] TrueCrypt → [double-left-click] TrueCrypt**

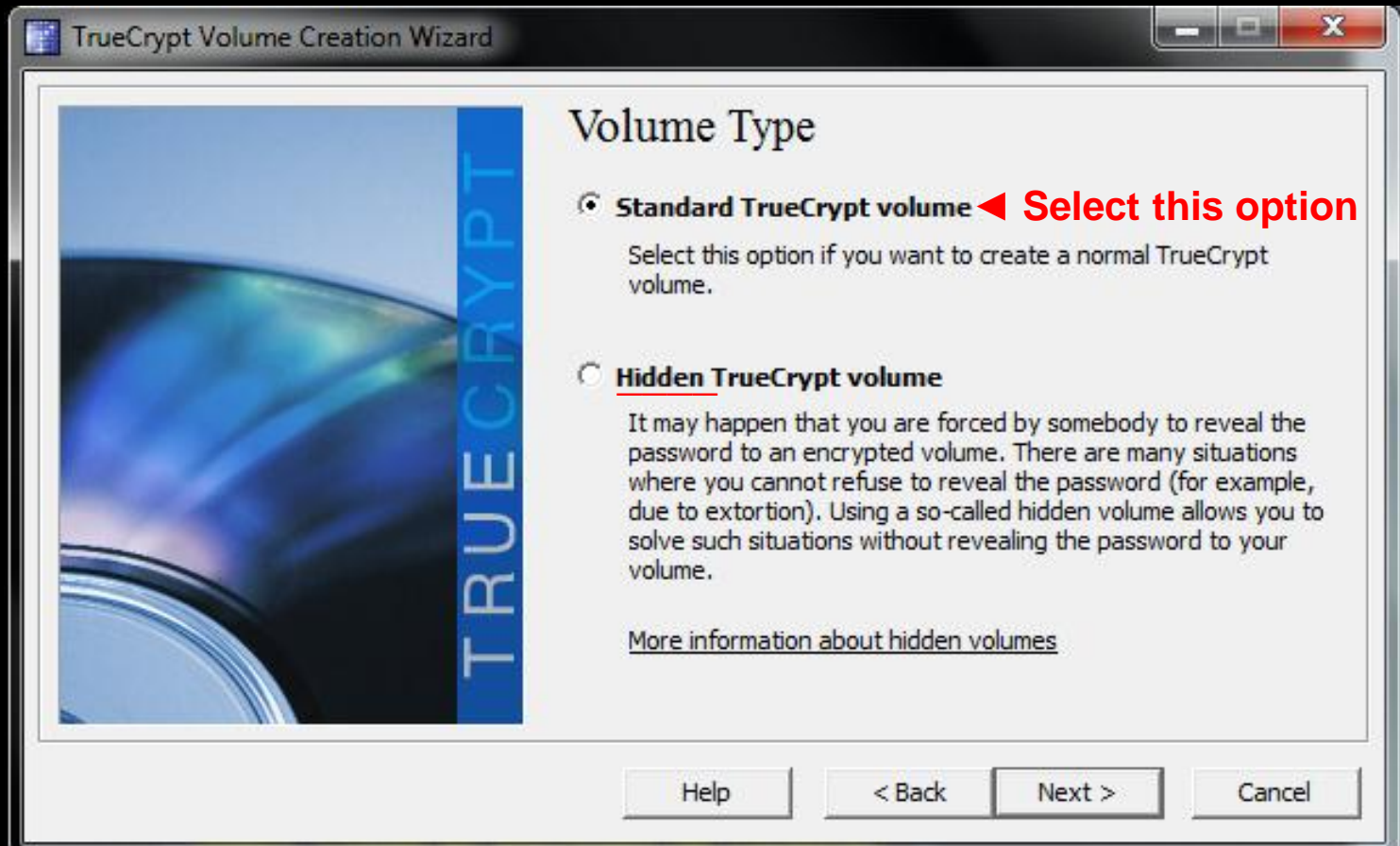








**Left-click on "Next" ▲**



**Left-click on "Next" ▲**



## Volume Location

Select File...

Never save history

Left-click on ▲  
"Select File"

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.

**NOTE** →

**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

< Back

Next >

Cancel



Specify Path and File Name



Lorrin



Search Lorrin



Organize New folder

- Pictures
- Videos
- Homegroup
- Computer
  - Local Disk (C:)
- Network
  - GAR-1
  - GAR-2
  - GARSON3

- AppData
- Contacts
- Desktop
- Downloads
- Favorites
- Links
- My Documents
- My Music
- My Pictures
- My Videos
- Saved Games
- Searches
- Virtual Machines
- NTUSER.DAT

◀ Select this option

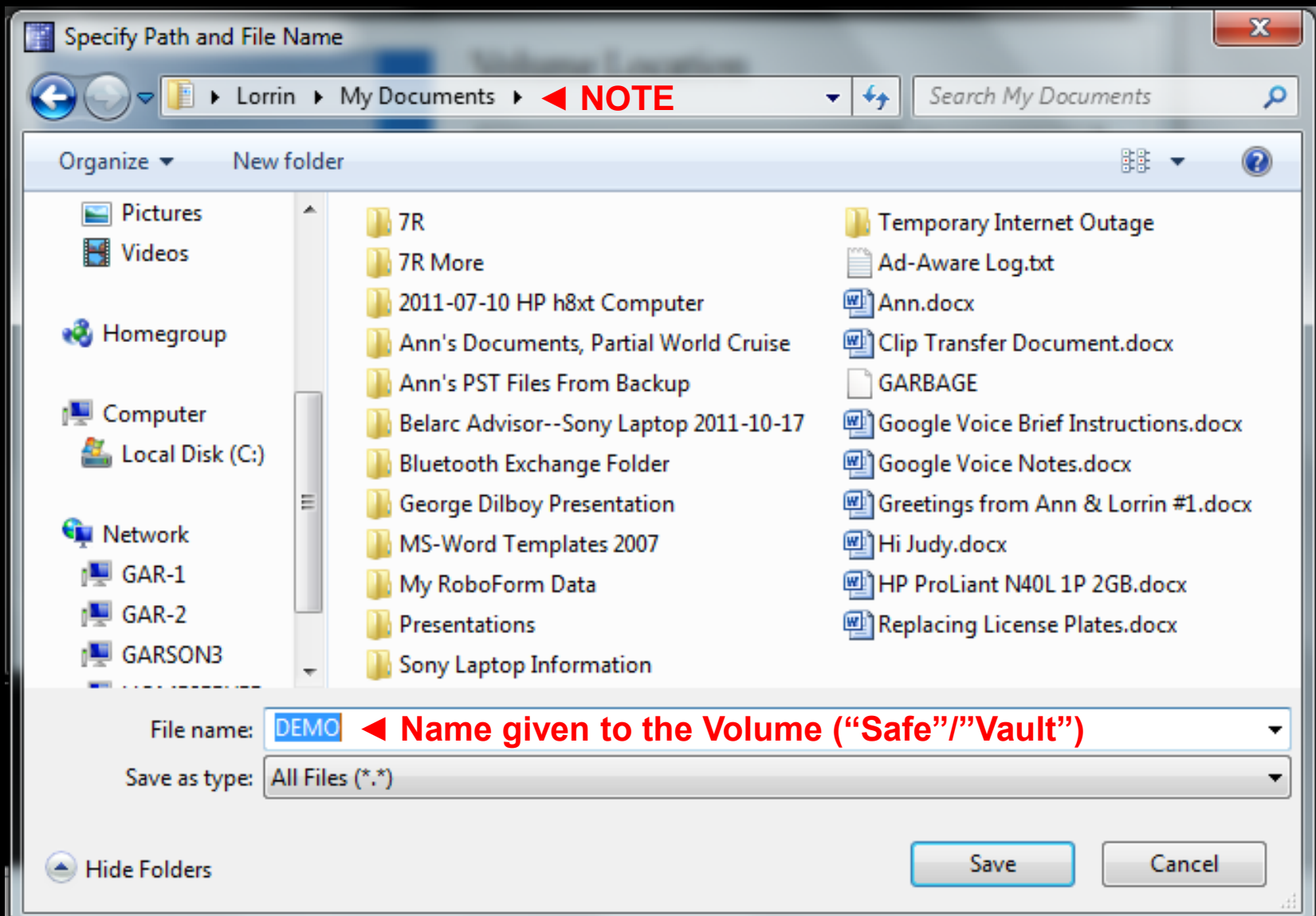
File name: |

Save as type: All Files (\*.\*)

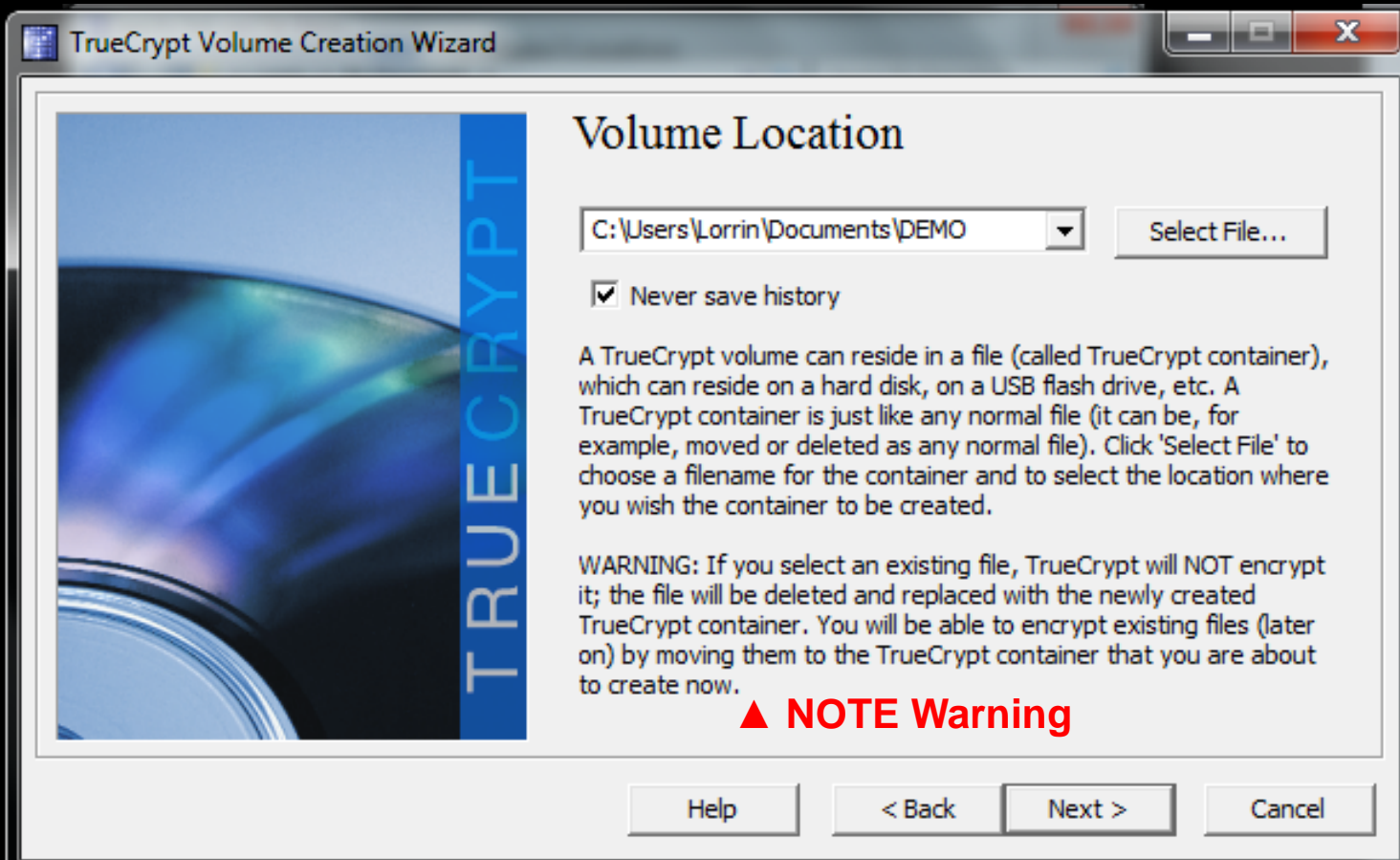
Hide Folders

Save

Cancel

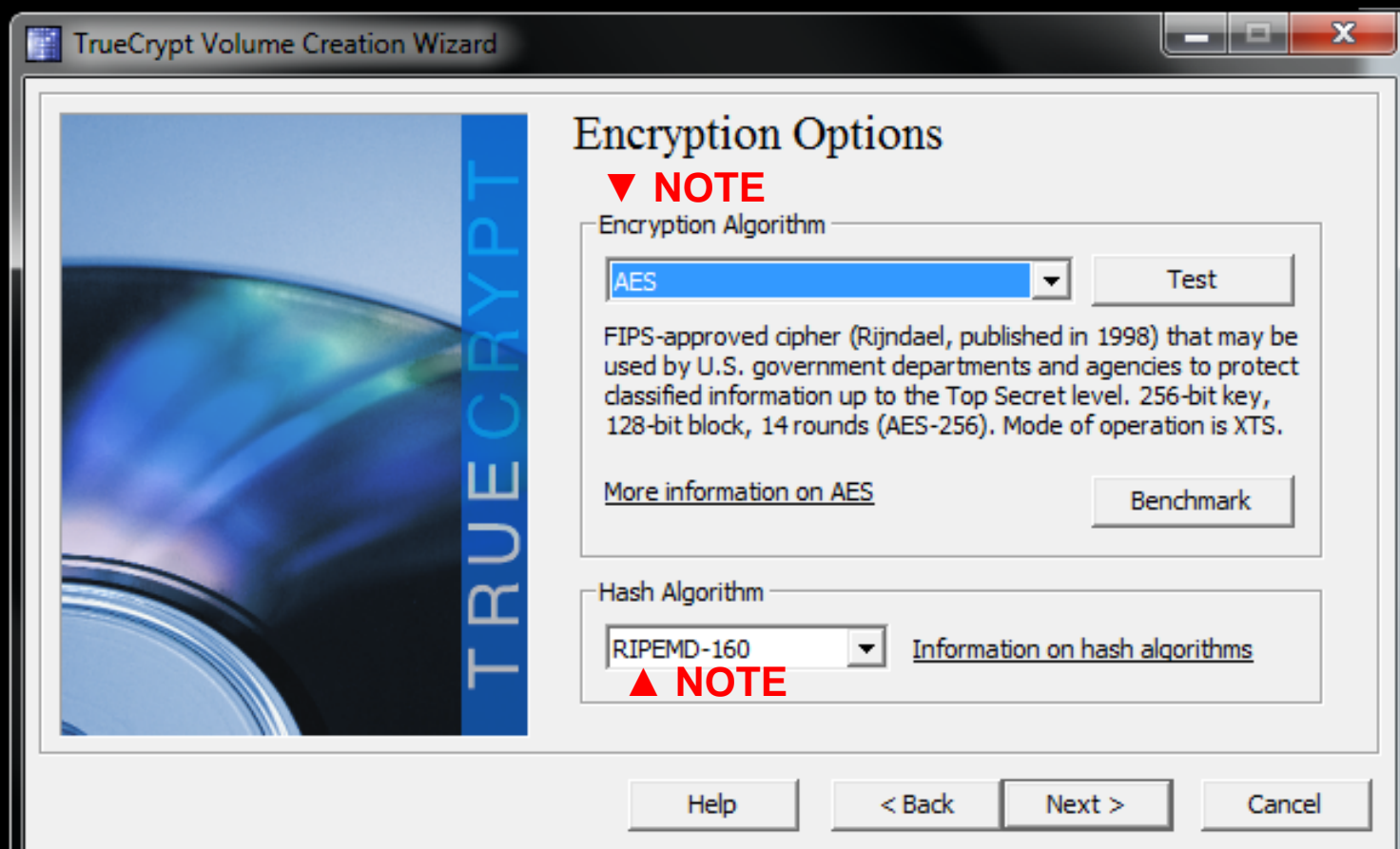


**Left-click on "Save" ▲**



**▲ NOTE Warning**

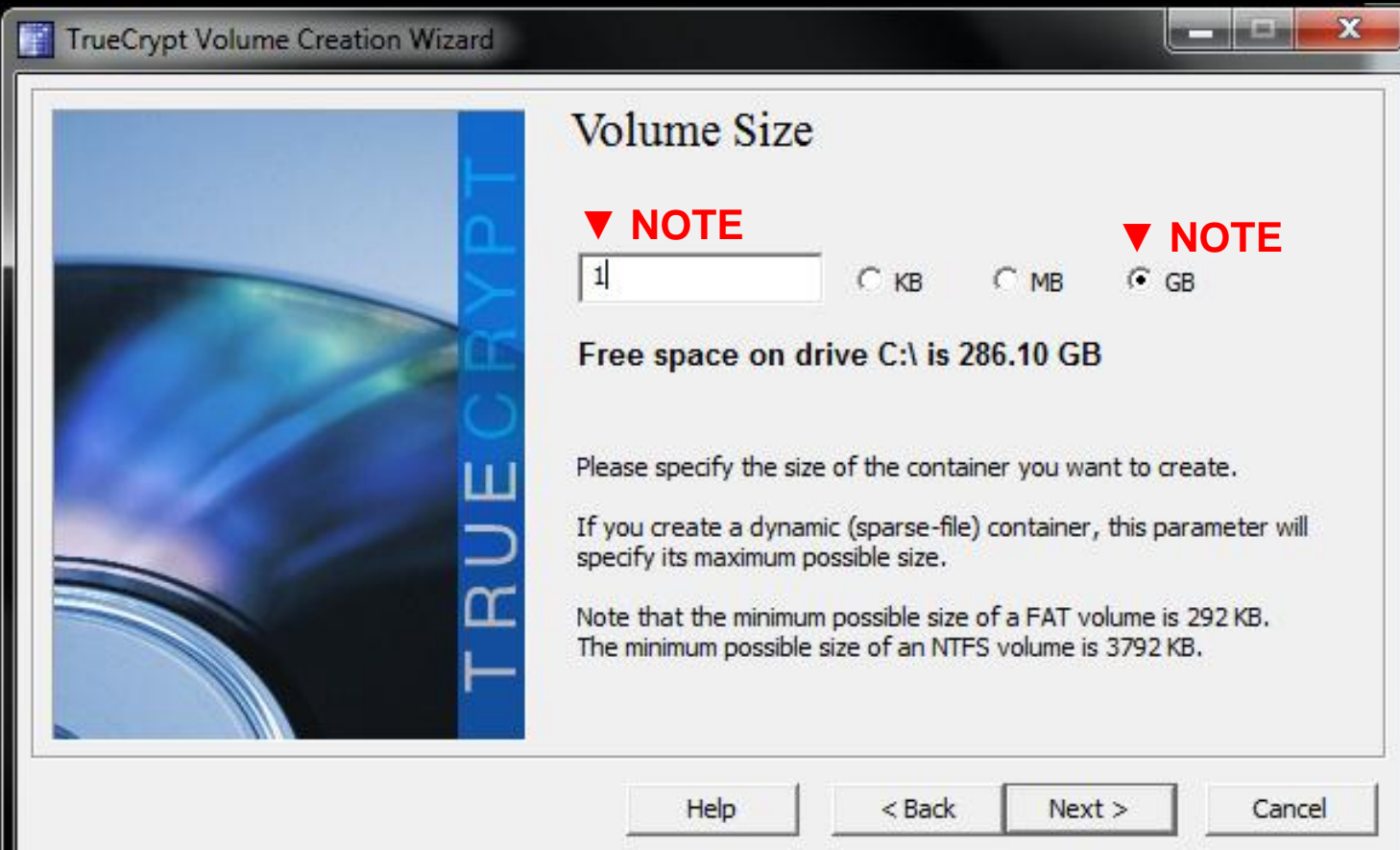
**Left-click on "Next" ▲**



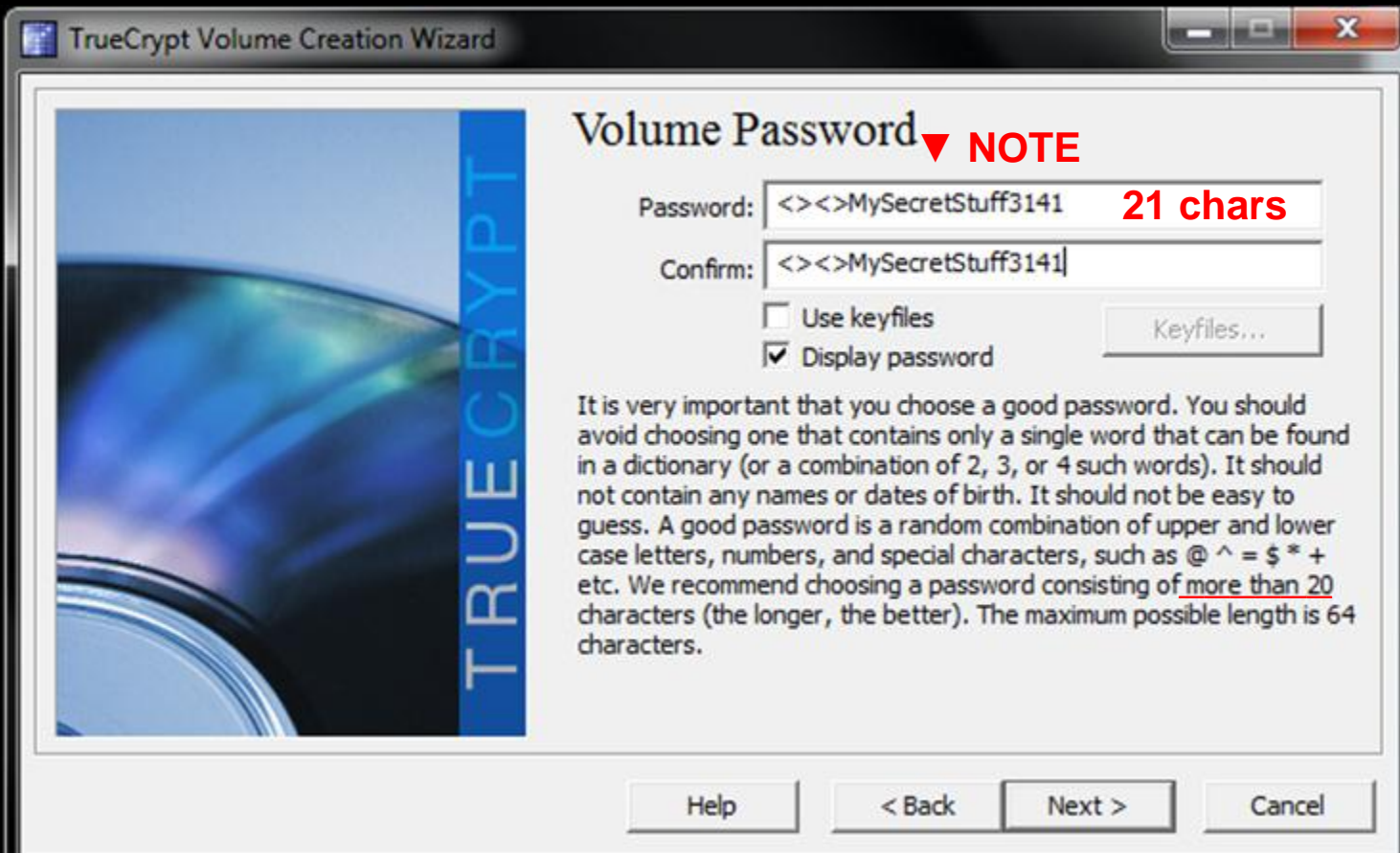
Left-click on "Next" ▲

Encryption Algorithms: AES, Serpent, Twofish + 5 combinations  
Hash Algorithms: RIPEMD-160, SHA-512, Whirlpool

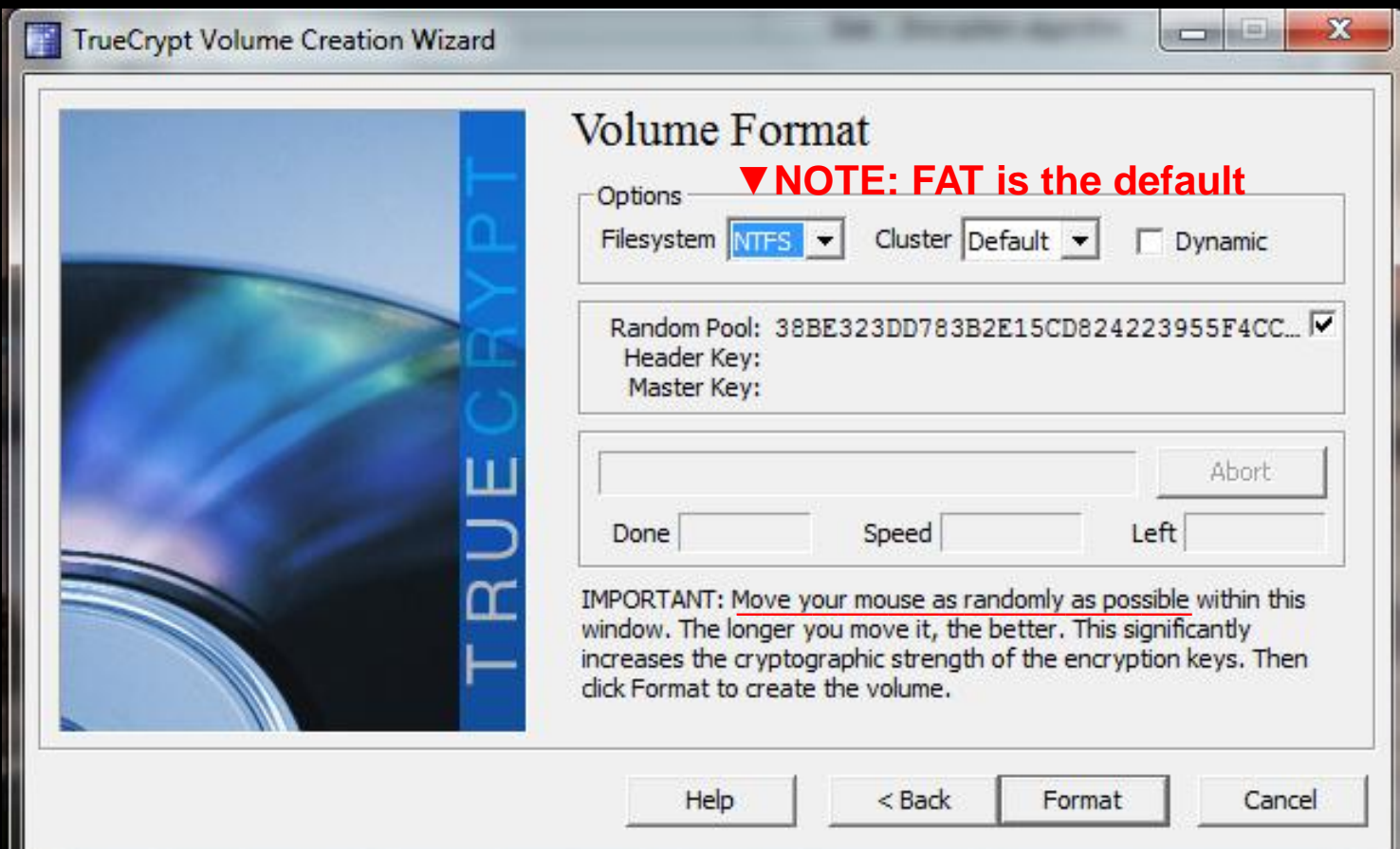




Left-click on "Next" ▲



Left-click on "Next" ▲

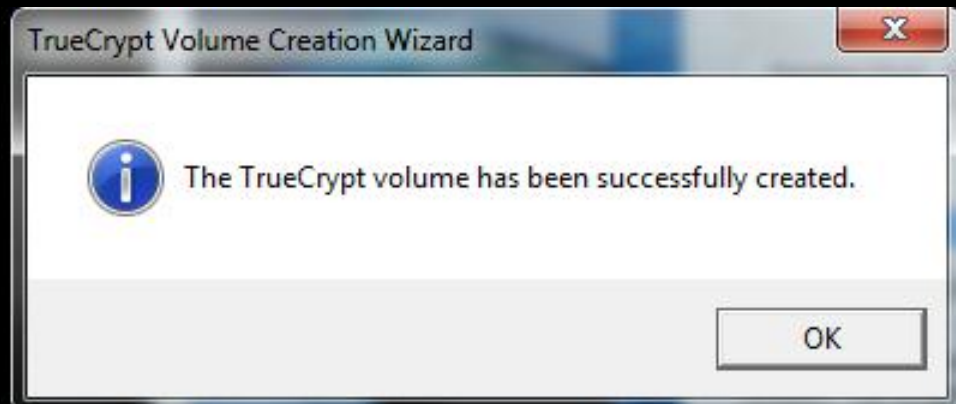


Left-click on "Format" ▲

**Move the mouse around as randomly as possible for awhile, then left-click on "Format"**



**Left-click on "Exit" ▲**



**Left-click on "OK" ▲**



# Using TrueCrypt: Demonstration







- **Opening a TrueCrypt volume ("Safe"/"Vault")**
  - DEMO, PW = <><>MySecretStuff3141
- **Accessing the contents**
- **Adding a file or folder**
- **Deleting a file or folder**
- **Closing a TrueCrypt volume ("Safe"/"Vault")\***

\*Closing a TrueCrypt volume encrypts its contents

**DEMO**



# Other Encryption Software

- **Cryptainer; free to \$30, \$45 & \$70. See **
- **Folder Lock; free and \$40. See **
- **SensiGuard; free and \$39. See **
- **SafeHouse; free and \$30 & \$60 **
- **CryptoForge; \$30 to \$40. See **
- **PGP (Pretty Good Privacy\*); free **

\*For information on PGP and the criminal investigation of Phil Zimmermann see   

# What now?

**Safety first...**

**Protect your private information  
with encryption!**



**The End**  
**Thank you!**