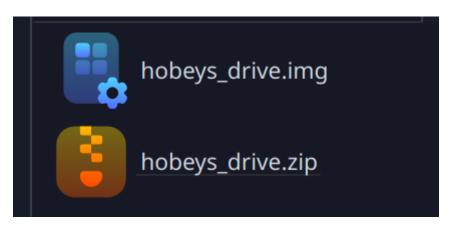
Where is the solution?

Mark Grünzweil, 3 AHIF, 06.12.2024

Lösung

Herunterladen der Anfangsdatei



Benutzen von Testdisk um die Datei zu bekommen

```
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

TestDisk is free software, and comes with ABSOLUTELY NO WARRANTY.

Select a media and choose 'Proceed' using arrow keys:
Disk hobeys_drive.img - 1048 KB / 1024 KiB

>[Proceed] [ Sudo ] [ Quit ]

Note: Some disks won't appear unless you are root user.
Disk capacity must be correctly detected for a successful recovery.
If a disk listed above has an incorrect size, check HD jumper settings and BIOS detection, and install the latest OS patches and disk drivers.
```

```
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

Disk hobeys_drive.img - 1048 KB / 1024 KiB - CHS 64 2 16

Partition Start End Size in sectors
> P FAT12 0 0 1 63 1 16 2048 [STARDUST]

[ Type ] [ Boot ] >[Undelete] [Image Creation] [ Quit ]
File undelete
```

```
total 1.5M
                                 2021 for_james.zip
rw-r--r-- 1 mark mark
                     850 Jun 15
rw-r--r-- 1 mark mark 1.0M Jun 16
                                 2021 hobeys_drive.img
                                 2021 instructions_for_james.pdf
                      83K Jun 16
rw-r--r-- 1 mark mark
rw-r--r-- 1 mark mark 390K Jun 16
                                 2021 my_holiday_destination.jpg
rw-r--r-- 1 mark mark
                      742 Jun 16
                                 2021 my_passwords.base64
√/Downloads/NSCS/Image ) [
```

Lesen der PDF Datei 'Instructions_for_James.pdf'

Dear James,

I've decided to hide my messages inside images. It's called steganography.

Every time I record one of my messages, it will be automatically embedded in an image and uploaded to our server.

Genius, I know.

Here's what you do after downloading the image:

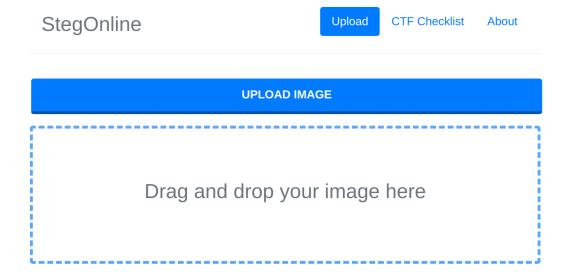
- 1. Go to https://stegonline.georgeom.net.
- 2. Upload the image.
- 3. Select "Extract Files/Data".
- 4. Set exactly the bits in the table shown below.
- 5. Click "Go".

I'll send you the links to the images as an encrypted QR code. You already know the password, it's our favorite line of the best song ever.

This is foolproof. We're going to be very rich, very soon.

Best, David

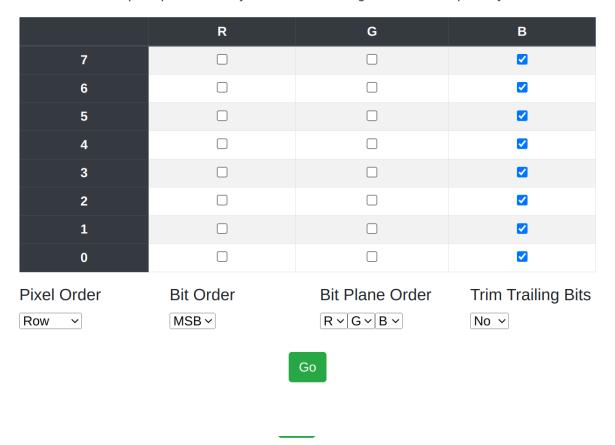
Auf StegOnline gehen und die Datei hochladen



Extract Data

Here you can extract data hidden inside of the image. Select some bits and adjust the settings appropriately. The final extracted data is checked against some basic file headers, and so the filetype can be automatically determined.

Please note that Alpha options are only available if the image contains transparency.



Results

No file types identified.

The results below only show the first 2500 bytes. Select "Download" to obtain the full data.

Ascii (readable only):

_
 ~

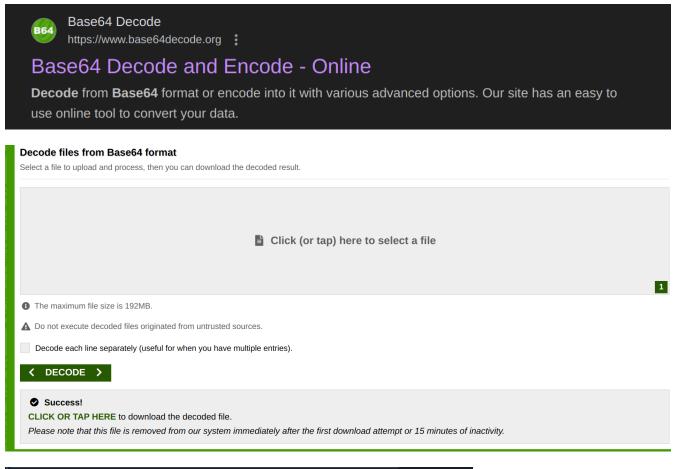
Hex (Accurate):

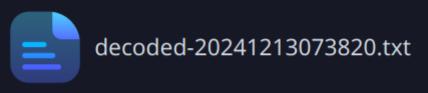
Download Extracted Data



Note: Die Datei ist komplett sinlos und hat keinen wertvollen Inhalt für die Lösung.

Decoden der Base64 Datei





Inhalt der Datei:

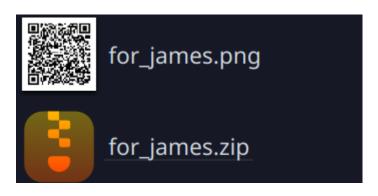
PASSWORD	DESCRIPTION
We can be heroes, just for one day	QR codes for James
Life on Mars?	Twitter
Ground control to Major Tom	SoundCloud

Den Verschlüsselten Zip Ordner decoden

Passwort: We can be heroes, just for one day

We can be heroes, just for one day

| QR codes for James



Den QR-Code scannen



https://share.mb.sb/teaching/forensics/challenges/where_is_the_money/where_is_the_money.png

Auf dieser Website das Bild herunterladen



Dieses Bild wieder auf StegOnline hochladen

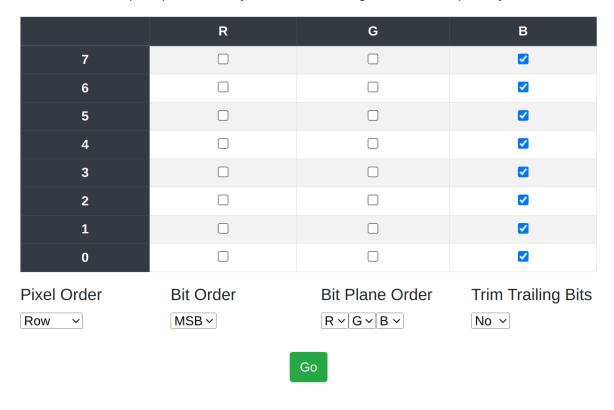
UPLOAD IMAGE Drag and drop your image here

Back to Home

Extract Data

Here you can extract data hidden inside of the image. Select some bits and adjust the settings appropriately. The final extracted data is checked against some basic file headers, and so the filetype can be automatically determined.

Please note that Alpha options are only available if the image contains transparency.



Results

Identified Filetypes

mp3: MP3 file with an ID3v2 container

The results below only show the first 2500 bytes. Select "Download" to obtain the full data.

Ascii (readable only):

```
      ID3..@.. .=....
      ....HSvyTI T2.....
      ....Message to Jame sTPE1...

      ....Davi d Hobey
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```

Hex (Accurate):

Download Extracted Data

Downloaden der Datei



Den Sound anhören

Beim Anhören kann man der er das Geld hier versteckt hat:

Westmansterstreet 14, behind the trashcan