



“ THE DARK WEB ”

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WHAT IS THE DARK WEB ?

The dark web is the World Wide Web content that exists on **dark nets**, overlay networks which use the public Internet but which require specific software, configurations or authorization to access. The dark web forms a small part of the deep web, the part of the Web not indexed by search engines, although sometimes the term "**deep web**" is mistakenly used to refer specifically to the **dark web**.

The darknets which constitute the dark web include small, friend-to-friend peer-to-peer networks, as well as large, popular networks like **Freenet**, **I2P**, and Tor, operated by public organizations and individuals. Users of the dark web refer to the regular web as the **Cleartnet** due to its unencrypted nature.

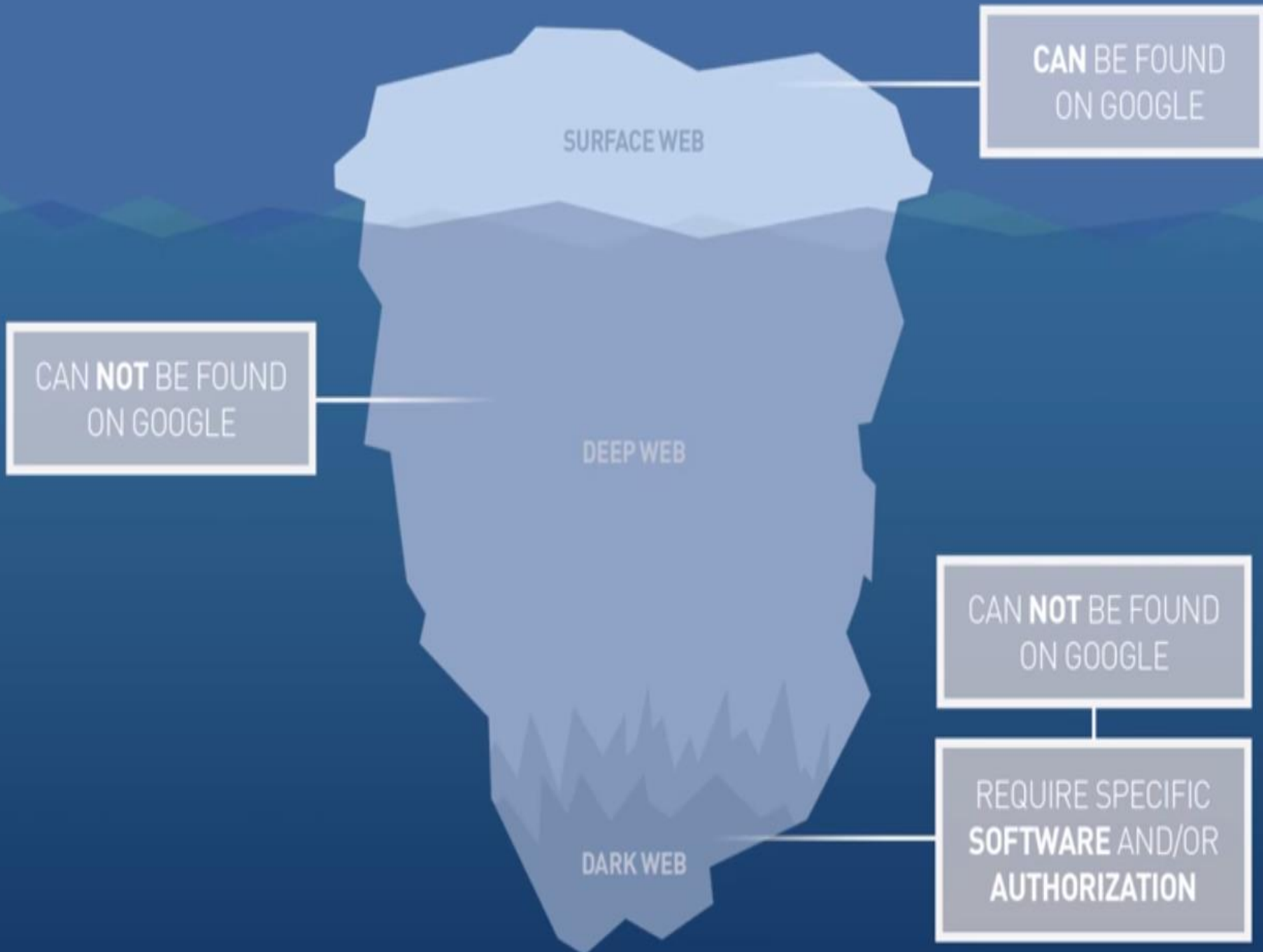
SEARCH ENGINES

- Programs that search documents for specified keywords or phrases and returns a list of documents where the keywords were found.



Search Engines might not search **deep web** because:

- Dynamically (**Database**) driven websites. Search Engines may have difficulty harvesting non-html marked-up websites.
- Search Engines cannot search password driven sites like **EbscoHost** journal databases or online catalogs.
- Search Engines may have difficulty searching within Adobe, Word, PowerPoint, etc files on a web page.



SURFACE WEB

CAN BE FOUND ON GOOGLE

CAN **NOT** BE FOUND ON GOOGLE

DEEP WEB

CAN **NOT** BE FOUND ON GOOGLE

DARK WEB

REQUIRE SPECIFIC **SOFTWARE** AND/OR **AUTHORIZATION**

Getting there ..



THE ONION ROUTER

HOW DO WE GET THERE !

Content that is only available through specialized anonymizing software (**Tor**). This includes anonymity networks and darknets (anonymous **P2P**). This are is a sort of safe haven for speech and content which has been banned from the surface web.

Examples: Anonymous chat/imageboards. CP, drugs, illegal transactions, weapons, DRM removal software, pirated software/media/ books, black markets.

ACCESSING THE DEEP/DARK WEB

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TOR:

-” The Tor software 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, it prevents the sites you visit from learning your physical location, and it lets you access sites which are blocked.” – www.torproject.org

-**Tor** is a network that supports onion routing; a way to help make your traffic anonymous. Because the Deep Web is compromised of information that doesn't show up on search engines, or has no domain name registry, you must know exactly where you are going to get there.

ACCESSING THE DEEP/DARK WEB

.onion:

-.onion is a domain host suffix designating an **anonymous** hidden service reachable via the **Tor** network.

-The purpose of using such a system is to make both the information provider and the person accessing the information more difficult to trace, whether by one another, by an intermediate network host, or by an outsider.

-.onion addresses are 16-character non-mnemonic hashes, comprised of alphabetic and numeric strings.

-The "onion" name refers to **onion routing**, the technique used by **Tor** to achieve a degree of anonymity.



[HTTP://ZQKTLW4FECV06RI.ONION](http://zqkTLW4FECV06RI.ONION)

The Dark Side of the Web



[main page](#)[discussion](#)[view source](#)[history](#)

Main Page

Welcome to **The Hidden Wiki** New hidden wiki url 2016 <http://zqkthw4fecvo6ri.onion> [Add it to bookmarks and spread it!!!](#)

Editor's picks

Bored? Pick a random page from the article index and replace one of these slots with it.

1. [The Matrix](#) - Very nice to read.
2. [How to Exit the Matrix](#) - Learn how to Protect yourself and your rights, online and off.
3. [Verifying PGP signatures](#) - A short and simple how-to guide.
4. [In Praise Of Hawala](#) - Anonymous informal value transfer system.

Volunteer

Here are five different things that you can help us out with.

1. Plunder other hidden service lists for links and place them here!
2. File the [SnapBBSindex](#) links wherever they go.
3. Set external links to HTTPS where available, good certificate, and same content.
4. Care to start recording onionland's history? Check out [Onionland's Museum](#)
5. Perform Dead Services Duties.

Introduction Points

- [Ahmia.fi](#) - Clearnet search engine for Tor Hidden Services (allows you to add new sites to its database).
- [DuckDuckGo](#) - A Hidden Service that searches the clearnet.
- [Bitcoin Fog](#) - Bitcoin anonymization taken seriously.
- [Torch](#) - Tor Search Engine. Claims to index around 1.1 Million pages.
- [Grams](#) - Search Darknet Markets and more.
- [The Hidden Wiki](#) - A mirror of the Hidden Wiki. 2 days old users can edit the main page. **[redirect]**
- [Not Evil](#) is a Tor search engine which only indexes hidden services on Tor.
- [DeepDotWeb](#) The official onion version of the clearnet site.
- [Sinbad Search](#) - Search engine.

Financial Services

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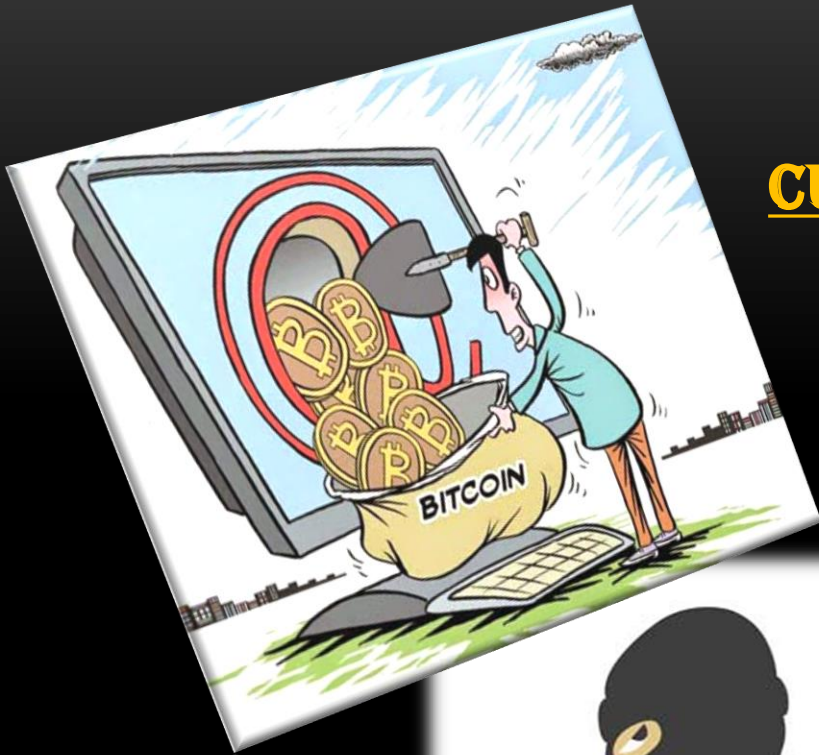
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CURRENCY OF THE DEEP/DARK WEB



Bitcoins:

- An electronic cash system using peer-to-peer networking, digital signatures and cryptographic proof to enable irreversible payments between parties without relying on trust. Payments are issued and transferred by the **Bitcoin network**.
- In April 2012, 1 **BTC** traded at around \$4.80. Taking into account the total number of **Bitcoins** in circulation, the market capitalization of the **Bitcoin** network stands at over 40 million USD



-
- accepting them is free*
 - no chargebacks*
 - no fees*



WHAT DO YOU MEAN

I HAVE TO MINE BITCOINS?

imgflip.com

**IT'S NOT EVERYTHING ON THE DARK WEB IS
ILLEGAL OR IMMORAL. BUT BE CAREFUL.**



ADVANTAGES OF DARK WEB

- Contains information that might not be available on the visible web.
- Specialized content focus – large amounts of information focused on an exact subject.
- Allows a user to find webpages from a specific date or time.
- Allows a user to find a precise answer to a specific question.

DANGERS OF THE DARK WEB

If you decide to look into the Dark Web on your own volition, make sure to be careful.

- Have anti-virus protection.
- Be intelligent about what links you click.
The Dark Web is a haven for Phishers.
- If you don't want to see any disturbing images or content, simply browse as text-only.

REFERENCES

1. Michael K. Bergman, "White Paper: The Deep Web: Surfacing Hidden Value", vol. 7, no. 1, August, 2001
2. Greenberg, Andy (19 November 2014). "Hacker Lexicon: What Is the dark web?". Wired. Retrieved 6 June 2015. "Clearing Up Confusion – Deep Web vs. dark web". BrightPlanet.
3. "Clearnet vs hidden services – why you should be careful". DeepDotWeb. Retrieved 4 June 2015.
4. Cox, Joseph (14 January 2016). "Dark Web Vendor Sentenced for Dealing Counterfeit Coupons". Retrieved 24 January 2016.
5. Auerbach, David (20 February 2014). "Not So Deep". Slate. Retrieved 16 January 2016.
6. Cox, Joseph (1 February 2016). "Study Claims Dark Web Sites Are Most Commonly Used for Crime". Retrieved 20 March 2016.
7. Egan, Matt (12 January 2015). "What is the dark web? How to access the dark web - How to turn out the lights and access the dark web (and why you might want to)". Retrieved 18 June 2015.

Thank you

ANY QUESTION?

