**DEEP WEB:**

Consider a large library. This library has several books that are accessible by everyone. But this library contains a restricted section that is not permitted for everyone to use. This section may contain books that are to be protected from damage or being lost, books that are inappropriate for certain ages, certain data books etc. In technical terms, the restricted section is known as the deep web.

Deep web are the parts of internet that are not fully accessible by the users i.e not indexed by the search engines such Google ,yahoo, etc . Deep web covers the private information that are not accessible by everyone (accessible by only certain people). It is the opposite of the surface web. Surface web is the part of internet that are accessible to everyone through various search engines. Deep webs are accessible by regular browsers and certain private browsers. Deep webs are approximately 500 times larger than the surface web. There are possibilities for hackers to steal your information.

Deep web may contain contents such as

* Data that are private to certain companies and industries
* Our email contents
* Bank statements
* Health records of various hospitals
* Certain research papers
* Private media and chats
* Subscription only magazines (anything that requires login credentials to access it comes under the deep web)
* Etc..

Deep web helps to keep our search private and anonymous. It helps us in academics by allowing us to access various research related contents which are hidden to the public.

**DARK WEB**

Dark part of the restricted library section is the known as the dark web. It is the subset of the deep web. It is the exclusive part of the deep web. This part requires specific authorization or software to access. It cannot be accessed by regular browsers and requires specific private browsers such as TOR (The Onion Router) Browser. It estimates about probably 5 percent of the whole internet. Dark websites end in “.onion” mostly. Dark websites usually uses scrambled names that are difficult to remember.

Business in dark website usually uses special type of currency, known as the crypto currencies such as bitcoin, Ethereum and ripple.

**NOTE:**

1 BITCOIN = 48,32,393.23 Indian Rupee

Crypto currencies are used because the transactions conducted are anonymous with no personal details being out. The identities and location of the users are not accessible due to the encryption layer.

Dark web is rumored to be full of crimes and illegal activities while the contrary is also present. It also has dark contents such as violence, child pornography, inducing terrorism etc. Dark web is also rumored to hire hit men, buy human organs etc. stolen information like user login credentials, sensitive personal information like social security numbers, payment card information selling and buying of drugs. Apart from this dark web can be used legally where the countries where dark web is legitimate. It is not always used for illicit activities and the problems do not arise from the technology itself but from the way the people use it.

Dark web is usually used for

* Selling illegal drugs and weapons
* Military usage due to its anonymity
* Used by journalists, hackers etc..

Accessing the dark web requires special networks like TOR. To browse in this search engine our connection needs to be private and to make our connection private we use VPN(Virtual Private Network). TOR unlike any other network uses encryption and keeps the users IP address of the use anonymous allowing private search. DuckDuckGo is famous search engine used.

Accessing dark web is relatively safe but when you buy things or software from illegal marketplaces there is a possibility of malware attack, keyloggers, ransomware, and other threats. Several dark web monitoring services are present to prevent attacks and infiltrate criminal hubs.

There are also several bright sides of the dark net

* Academic research

Sites such as sci-hub provides millions of research papers

* Used for journalist and secret detectives to communicate anonymously
* Ad free search
* Anonymous collaboration with other sources
* Etc..