

Dark Web

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Surface, Deep, and Dark Web

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Surface, Deep Web and Dark Web

- ▶ Differences of the Surface Web, Deep Web and Dark Web
- ▶ Surface Web - Web crawler
- ▶ Deep Web
- ▶ Dark Web - TOR

Surface, Deep Web and Dark Web

- ▶ How the Dark Web was established
- ▶ Who uses the Dark Web

What the Dark Web is used for

Three Primary Levels of the Internet

- ▶ Surface Web

- ▶ Deep Web

- ▶ Dark Web

Surface Web



- ▶ A simple definition of the surface web is information which is found on a popular web browser is considered to be surface internet.
- ▶ Google
- ▶ Bing
- ▶ Firefox
- ▶ etc....

Modern Internet

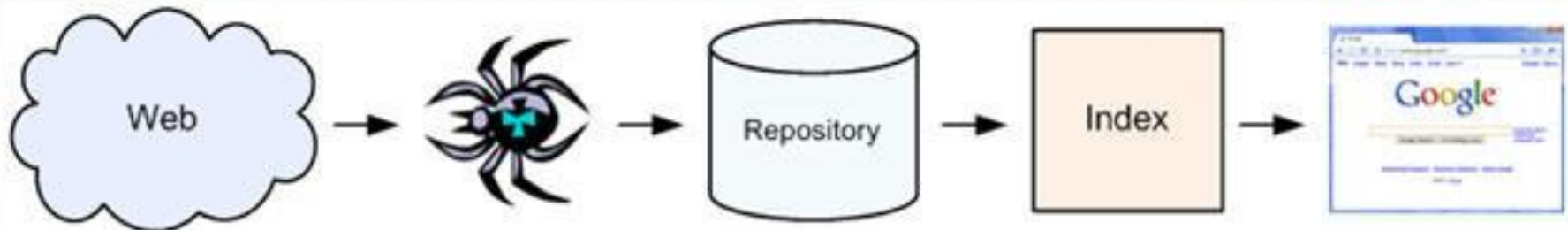
- Most effective source of information.
- Most popular search engine: Google
- In 2008, Google added a trillion web links to their index database.
- Today, more than 130 trillion new pages!



- Web crawlers used to organize information from webpages and other publicly available content in the Search index.
- Google's index represents only an estimated 4 percent of the information that exists on the Internet.

Web Crawler

- Web crawler (spider) “crawls the web to find new documents (web pages, documents).
- This typically done by following hyperlinks from websites.



Blocking Web Crawlers

- Include a “**noindex**” meta tag in the page's HTML code.
- In the <head> tag:

`<meta name="robots" content="noindex">`

- To prevent only Google web crawlers from indexing a page:

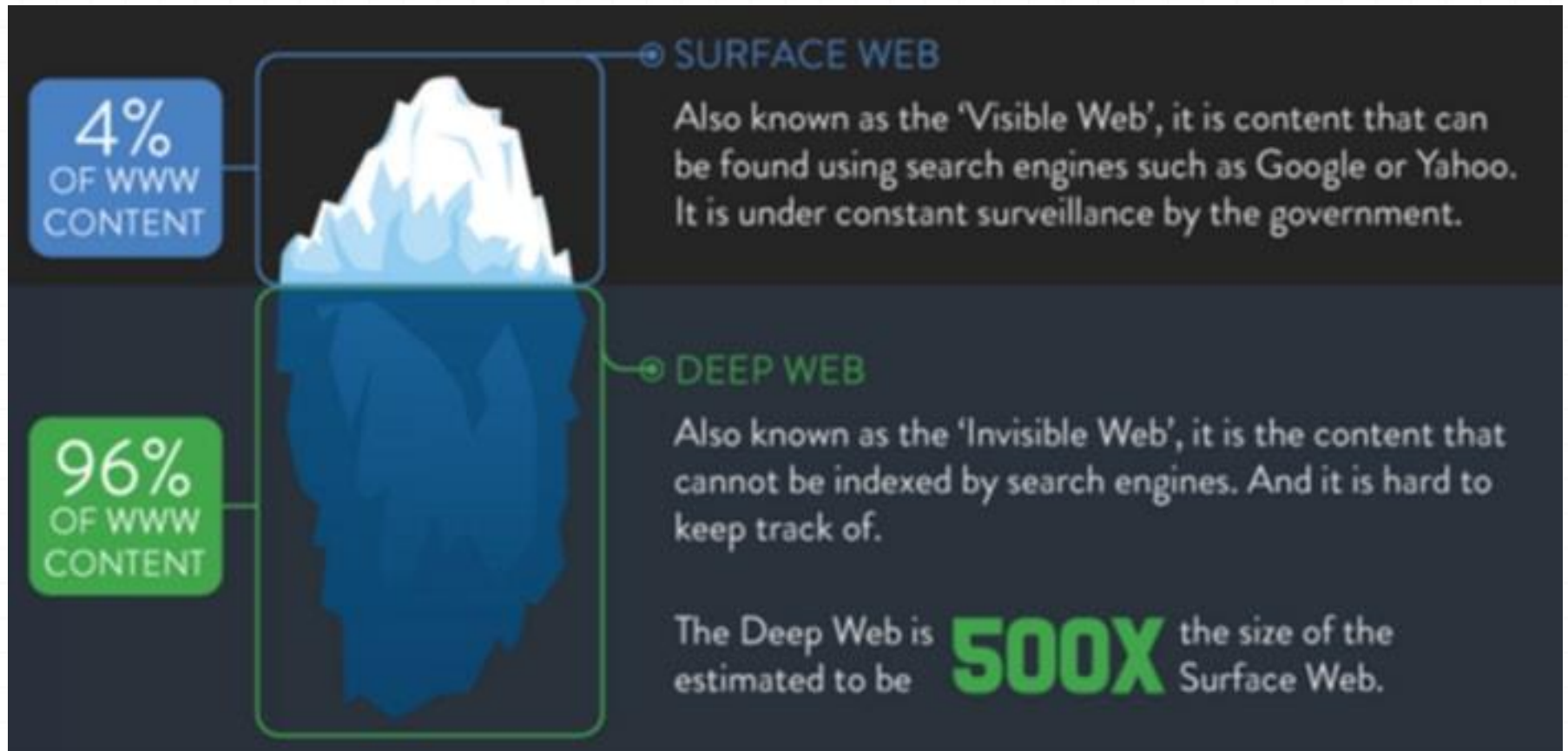
`<meta name="googlebot" content="noindex">`

Only 4 Percent?



- Where is the rest of the information?
- **Deep Web**
 - Part of the World Wide Web whose contents are not indexed by standard web search engines for any reason.
 - Also called invisible or hidden web

Measuring the Deep Web



DEEP WEB

Most of the Web's information is buried far down on dynamically generated sites.

- Traditional web crawler cannot reach.
- Large portion of data literally 'un-explored'
- Need for more specific information stored in databases
 - Can only be obtained if we have access to the database containing the information.

Deep Web

- Most of the deep web contains nothing sinister whatsoever.
- Large databases, libraries, and members-only websites that are not available to the general public.
- Academic resources maintained by universities.
- Banking Information
- Medical Records
- When one uses a User Name and Password to view information not

What Deep Web is made up of:

- Dynamic Web Pages
 - *returned in response to a submitted query or accessed only through a form*
- Unlinked Contents
- Private Web
 - *sites requiring registration and login (password-protected resources)*
- Sites with no noindex directives or cache control http headers (`<meta name="robots" content="noindex">`)
- Non HTML contents
- Multimedia Files
- Database Records

DARK WEB

- One way to access the dark web is using TOR
- The Onion Router (TOR)
- Onion Network
- TOR keeps all users anonymous – it is also believed that the NSA cannot break the TOR encryption

Who established the TOR browser

- ▶ The core principle of Tor, "onion routing", was developed in the mid-1990s by [United States Naval Research Laboratory](#).
- ▶ The purpose of TOR is to give the U.S. Intelligence a different way to communications online.

Who is allowed to use TOR

Anyone – it is a browser that can be download by anyone on the internet.

Cost – Free – free to download the browser and use the
Onion Network

Anyone in the world is allowed to use the Browser

Good Side of TOR – Dark Web

Government Agencies – Law Enforcement

FBI and CIA undercover agents

State Department – SD encourages individuals in foreign and third world countries to use TOR so individuals can freely use the internet in countries where the government heavily monitors the networks.

Anyone who wants to stay anonymous

Dark Side of TOR – Dark Web

Terrorists – communicate to each other – recruit prospects – plan terrorist operations

Criminals – buying and selling drugs – human trafficking – prostitution buying and selling of weapons

Pedophile material

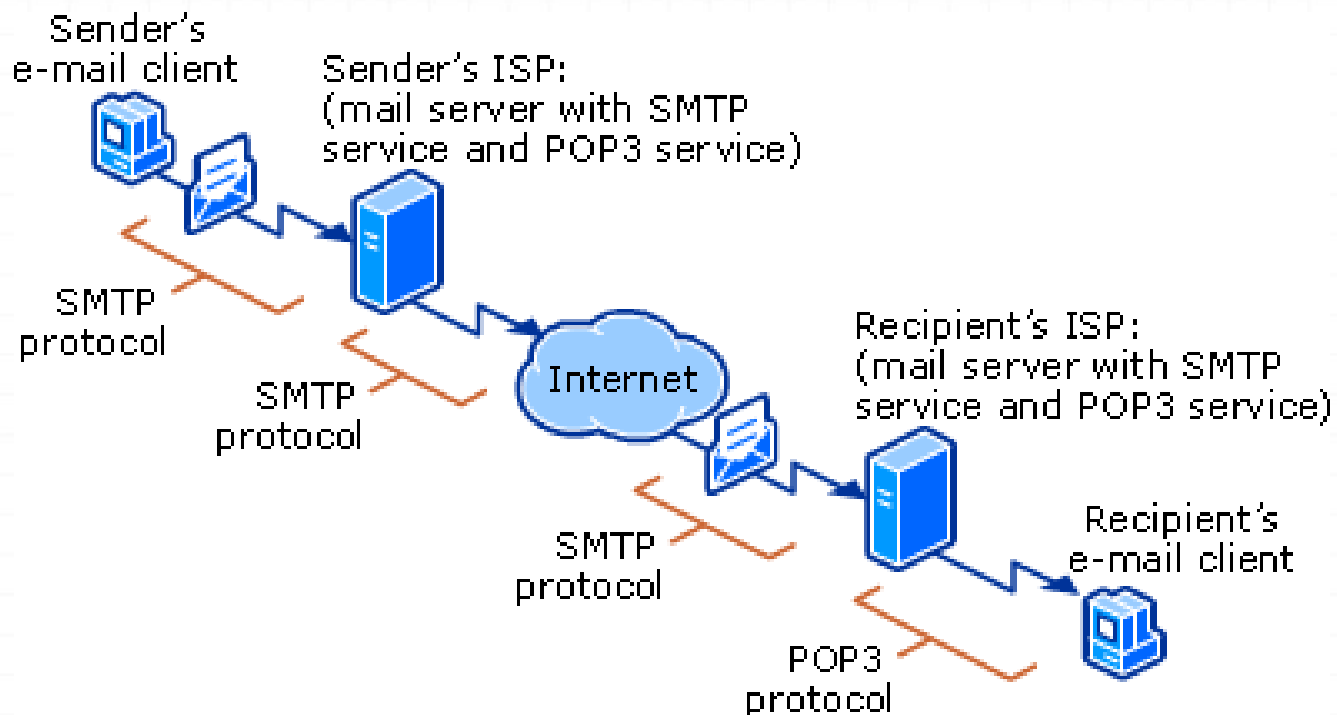
If you can think of it – it is being sold on the TOR



HOW A NORMAL MESSAGE IS SENT

- WHEN AN EMAIL IS SENT IT HAS ONE LAYER OF INSTRUCTION. THE MESSAGE WILL CONTAIN A SENDER IP ADDRESS AND RECEIVERS IP ADDRESS. IN A NORMAL EMAIL MESSAGE BEING SENT, IT IS EASY TO IDENTIFY THE SENDER AND RECEIVER OF ANY MESSAGE.
- 

How a normal message is sent




TOR – How it works


- o TOR – (The Onion Router) is a net browser with built in encryption. The browser has a built in proxy server which hides the senders IP address and the receivers IP address
- o How TOR works - When a message is sent – the TOR browser decides a random message path with nodes (or other computers) logged into the network will be involved in delivering the message. TOR puts a layer of encryption providing an email information about the sender and the receiver. When the email is sent from the original sender it may have 20 to 30 layers of encryption instruction. Once the message is sent


TOR – How it works

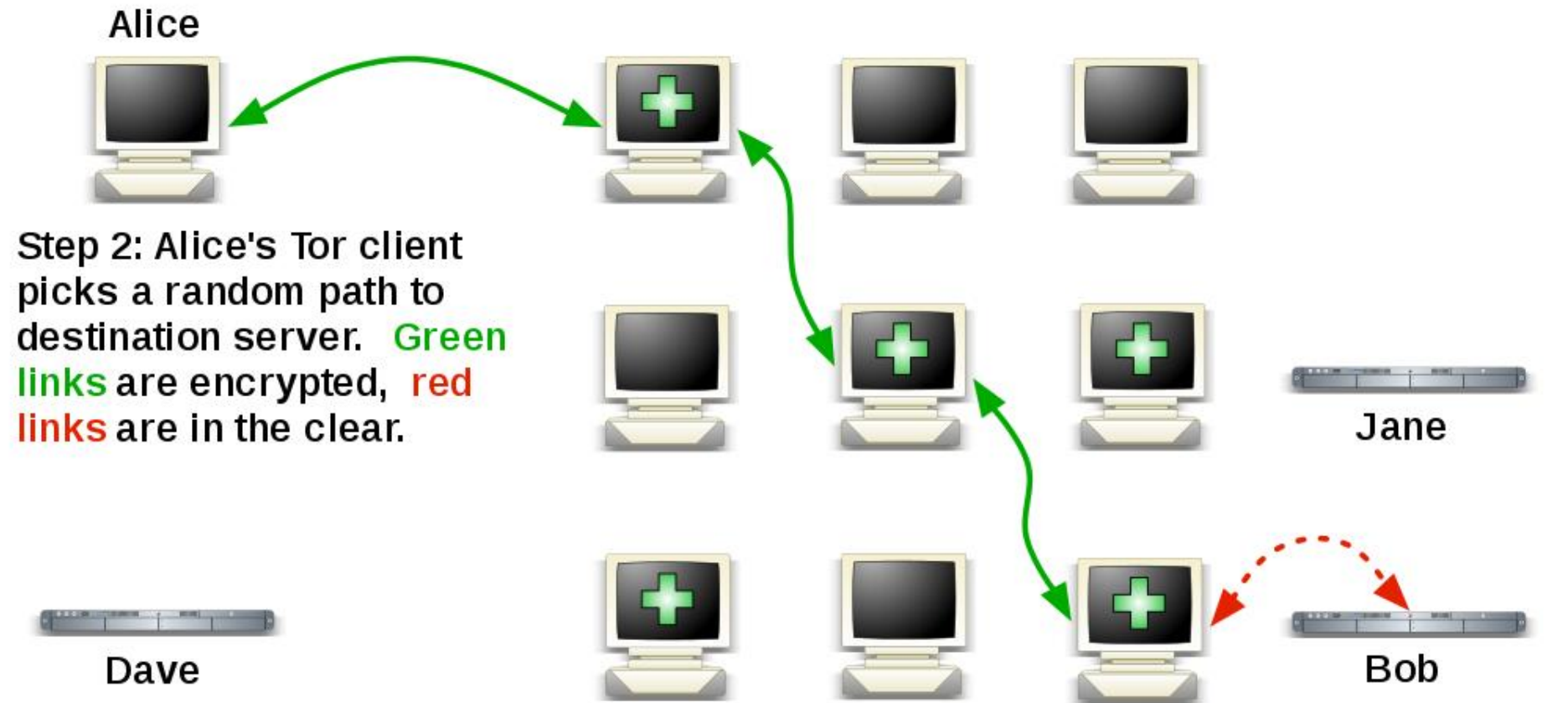
- and reaches the first destination of the message. The TOR browser peels off the first layer of encryption (which has the sender and receiving computers information) and then the second layer is examined and sent accordingly.
- The layers of the encryption is the reason for the name – The Onion Router has layers similar to an Onion.
- The very last node to the receiving computer the message is in clear text.
- It is difficult to track the email message from the original sender to the true recipient of the message.

How Tor Works: 2

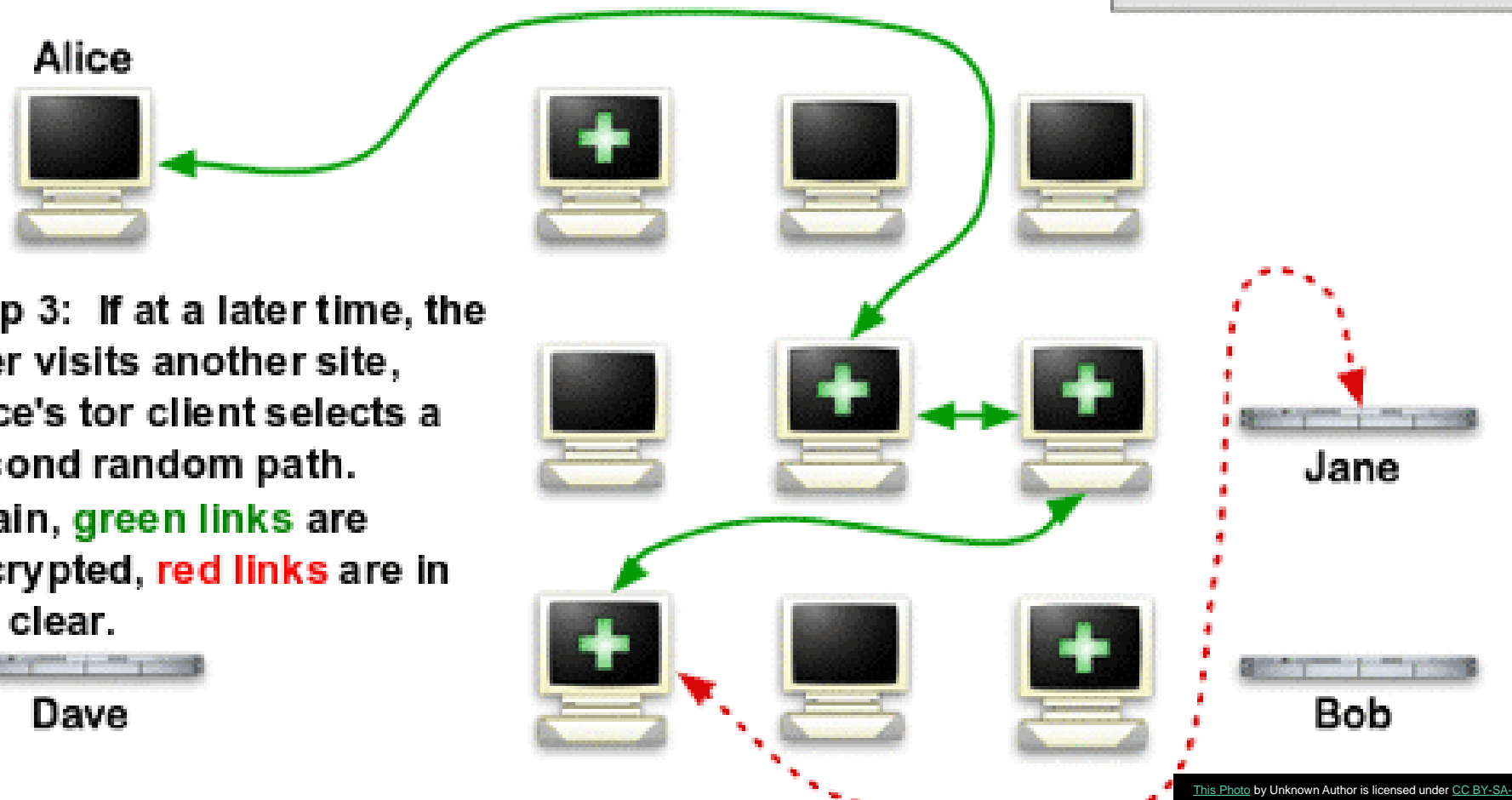
 Tor node

 unencrypted link

 encrypted link



HOW IT WORKS: 3



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

TOR Characteristics



- ▶ Great Encryption
- ▶ Great Privacy
- ▶ Great Latency – It takes a long time for a message to be sent from the sender to the receiving host.

TOR

About Tor

Tor Browser | Search or enter address

Search

FREEDOM ONLINE

Tor: Powering Digital Resistance

Give today and Mozilla will match your gift!

Donate Now!

Welcome to Tor Browser

You are now free to browse the Internet anonymously.

[Test Tor Network Settings](#)

Search

Search securely with DuckDuckGo.

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

- [Tips On Staying Anonymous »](#)
- [Tor Browser User Manual »](#)

You Can Help!

There are many ways you can help make the Tor Network faster and stronger:

- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)

Slide 14 of 18 "Sketchbook"

Desktop 11:27 PM 1/20/2018

Orbot

The image shows the Orbot app interface on a dark background. On the left is a large onion icon with a green sprout. To its right, the text 'Orbot: Tor for Android' is displayed in green. Below this, a green banner contains the text 'Anonymity Online' and a description of Tor's purpose. A purple button with a small onion icon and the text 'Download Tor' is also present. To the right of the button, a list of three bullet points describes the benefits of Tor.

Orbot: Tor for Android

Anonymity Online

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

 [Download Tor](#) 

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

Orbot

- Encrypts your Internet traffic
- Bounces it through a series of computers around the world
- “Private” web surfing with Orfox
- Private chat



NSA whistleblower Edward Snowden used Tor to leak information the media.





Dark Net

Dark Web

Dark Net

- Like the Regular Deep Web, but harder to get into and more illegal content.
- Advanced covert government research.
- Most of the Internet black market (runs on bitcoins)
- Human/Arms/Drug/Rare Animal Trafficking.
- Assassination networks , bounty hunters, illegal game hunting, kidnapping
- More banned obscene content like CP, Gore, etc.

Crime and the Dark Net

- Human Trafficking
- Drugs
- Fire Arms
- Hitmen
- Hackers
- Terrorists
- Child Pornography
- Money Laundering
- Fake Passports, ID's and Stolen Credit Cards

Dark Net

- The Human Experiment
- Summoning Demons
- Cannibal Forums
- SALT (Hacking)
- Last Words (Last words of inmates before execution)
- Aeroplane Crashes (Last words of pilots before crash)
- Human Leather
- Guns and Ammo
- Unfriendlysolution (Hitman service)
- Stolen Mac Store



Shop by Category

Drugs 8,984

Cannabis 2,191

Dissociatives 106

Ecstasy 912

Intoxicants 34

Opioids 299

Other 36

Precursors 60

Prescription 2,847

Psychedelics 877

Stimulants 943

Tobacco 228

Apparel 568

Art 59

Biotic materials 1

Books 1,197

Collectibles 38

Computer equipment 109

Custom Orders 53

Digital goods 837

Drug paraphernalia 459

Electronics 160

Erotica 715

Fireworks 7

Food 11

Forgeries 124

Hardware 49

Home & Garden 23

Jewelry 79

Lab Supplies 24

Lotteries & games 146

Medical 46

Money 217

Musical instruments 2

Packaging 72

Services 145

Sporting goods 2

[Click here for an important security announcement](#)



7 GRAMS OF MEDICAL
CHERRY PI

B0.9466



Primabolan (LA Pharma), 30
tabs x 25mg

B0.1883



300 x Ritalin 10 mg

B8.4756



(1) 25I-NBOMe - 1100ug/ea
- Blotter

B0.0417



Modafinil 200mg - 300 Pills

B2.8871



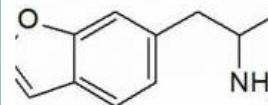
Special 5x 50 (250) Pills
EPHEDRINE HCL Packets

B4.0187



1 gram PURE RAW
COLUMBIAN COCAINE - HQ

B1.6015



500mg of 3-MMC ultra pure
Pentedrone Crystalz

B0.3030



Masteron 10ml 100mg/ml -
Arrival Guaranteed

B0.5677



Pineapple Haze *1.5 Gram
Listing*

B0.1701



<Quality~MDMA!!! 1 Gram
1000mg

B1.9064



3 Ounces (84g) AAA
Organic Buds--Pick a Strain

B7.6484

From the forum

- Silk Road movie night nominations!
- Ask a drug expert physician about drugs and health
- Winning the war on drugs
- New display currencies
- Try Tails for a more secure OS
- Who's your favorite?
- Acknowledging Heroes



Silk Road

anonymous market

messages 1 | orders 0 | account \$0.00

Search

Go

Shop by Category

Drugs 2,399

- Cannabis 341
- Dissociatives 65
- Ecstasy 209
- Opioids 156
- Other 144
- Precursors 12
- Prescription 526
- Psychedelics 427
- Stimulants 273

Apparel 114

Art 7

Books 743

Collectibles 12

Computer equipment 19

Custom Orders 26

Digital goods 310

Drug paraphernalia 89

Electronics 20

Erotica 319

Fireworks 2

Food 3

Forgeries 58

Hardware 2

Home & Garden 7

Jewelry 48

Lab Supplies 5

Lotteries & games 29

Medical 5



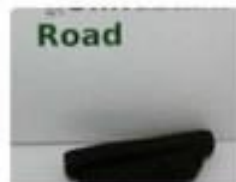
5x - 10mg Dexedrine (Pure Dextroamphetamine)

\$4.94



2 x 0,25 mg Xanax (Alprazolam)

\$1.50



Malania charas hand rubbed Indian hash 100g

\$75.83



1 Gram OG KUSH OIL 81% THC 90% TOTAL

\$4.13



14 grams (1/2 Ounce) of Nebula JWH-122

\$2.63



3.5g Crystal Meth Ice Shards

\$31.92



20 x 25mg Cials

\$2.57



III - Psilocybe-Cubensis-Chocolate - III

\$18.15



100 x Orange Star Very high MDMA content 180mg



100x 200mg White XTC 'Speakers'



3g Methylone Crystals - \$50- Lab Grade



15mg Adderall Extended Release (1 Capsule)

This Photo by Unknown Author is licensed under [CC BY-SA-NC](#)



Silk Road
anonymous market

messages 1 orders 0 account \$0.00

Search

Go

Hi,

logout



as seen on tv from
the Dread Pirate Roberts

Shop by Category

Food 5
 Beverages 2
Apparel 168
Art 4
Books 865
Collectibles 8
Computer equipment 30
Custom Orders 47
Digital goods 365
Drug paraphernalia 174
Drugs 4,217
Electronics 37
Erotica 389
Forgeries 92
Hardware 3
Herbs & Supplements 14
Home & Garden 3
Jewelry 52
Lab Supplies 29
Lotteries & games 30
Medical 31
Money 100
Packaging 25
Services 37
Weight loss 19
Writing 2

sort by: bestselling

☐ Domestic only

update



⊕ Cocaine Energy Drink - Banned ⊕

seller: namedeclined(100)
ships from: United States of America

\$0.74
add to cart



Kefir grains - water kefir

seller: etizolam(97)
ships from: United States of America

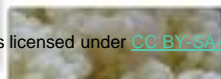
\$0.83
add to cart

no image

3Jane Stealth Listing Feedback

seller: 3Jane(100)
ships from: Canada

\$0.00
add to cart



Kefir grains - milk kefir

seller: etizolam(97)

\$0.90

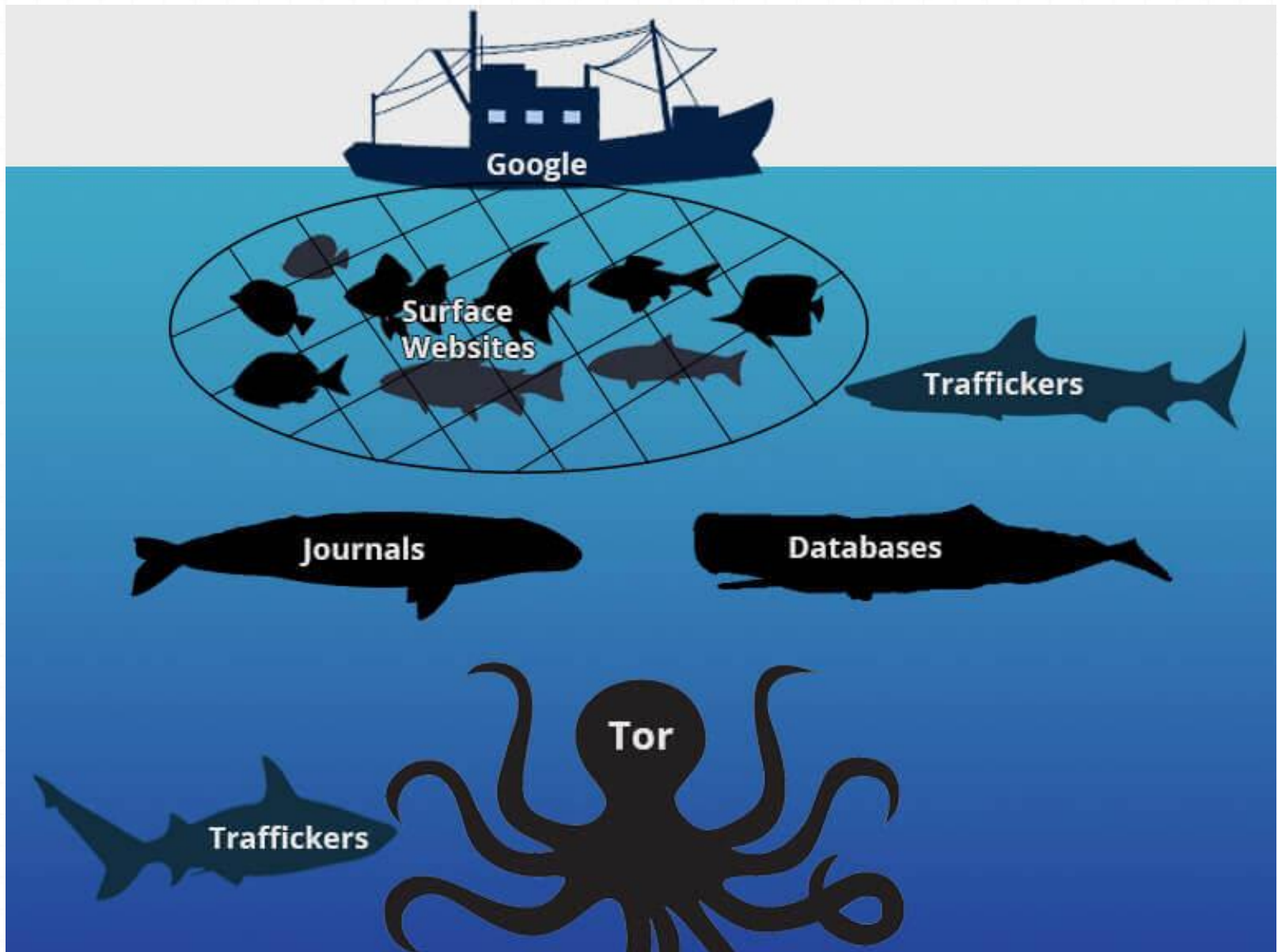
This photo by Unknown Author is licensed under CC BY-SA 4.0



THIS HIDDEN SITE HAS BEEN SEIZED

by the Federal Bureau of Investigation,
in conjunction with the IRS Criminal Investigation Division,
ICE Homeland Security Investigations, and the Drug Enforcement Administration,
in accordance with a seizure warrant obtained by the
United States Attorney's Office for the Southern District of New York
and issued pursuant to 18 U.S.C. § 983(j) by the
United States District Court for the Southern District of New York







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