

## Prologue

The moral physics that we had come to rely on had now failed us making this the worst of times, and degenerating each and every day.

The prophecies of Idiocracy swept the analog and digital landscapes. (spell this out) Everyone's email became a cesspool of malware attempting to steal or hold for ransom your identity, your personal information and your money.

Citizens didn't fear the social media that now unknowingly controlled them. The Internet or Clearnet (footnote) was now a dangerous place for those aware to visit. Everything connected to this system was hackable. Hell, the NSA could not even protect their hacking tools from being stolen by crackers.

Billions of uninformed humans acted like lemmings all stepping off digital cliffs and into the corporate clouds. There, their personal data was vacuumed like some giant digital spider spinning its web and sucking all the personal data from the pipes containing the digital lives of billions of people on the planet.

Corporations took this data and altered the thinking, habits, purchases, and voting preferences of the masses in the now damaged and failing democracies. Yet these lemmings carried these tracking devices with them and placed these surveillance devices in their homes being misled by convenience. They did this of course, because their connected devices told them to.

Back in the 90's no one worried about all the disparate data being collected by the earlier computers, because they knew there would never be a way to aggregate it all these disparate databases into anything useful to anyone. But then came the server farms, and Internet clouds, web crawlers, bots, and the algorithms to find, manipulate, and sort the big data of this nation and then of the entire world.

We were wrong, very, very, wrong.

Greed was good, and practiced from the top on down. People voted for politicians based on what was in it for them, they sacrificed any remaining personal morals or ethics. It was hooray for me and screw you buddy! I got mine, not you try to get yours. The Haves pulled up all the ladders that they had used to get there. Every business transaction was seen as an opportunity to screw someone over.

Banks and money ruled the land. It was as if some great vampire squid had wrapped itself around the face of humanity, relentlessly jamming its blood funnel into anything that smelled like money.(footnote Matt Taibbi)

And of course the American National Security Agency or NSA was hovering up all worldwide digital communications under the guise of Signals Intelligence (SISINT). Using their significant computer power to translate all of these zeros and ones into Human Intelligence (HUMINT) to know everything about everyone.

It was a time of post-factual politics where politician's spent their time trolling the media and the public, creating division, fear and confusion. When challenged they backed down with nihilistic denials, alternate facts, and attempting to delegitimize the media with claims of fake news. When directly confronted, they used Whataboutism (footnote) to change the subject to something else.

This is now the job description of our politicians rather than serving the people who elected them by actually doing things that help people like creating jobs, finding markets for it products, providing healthcare, and adequate education.

They continue to explore the depth of division, derision, and tribalism, to see just how low they can go. They plumbed the depths of our worst angels. They tested the strength of the nation's founding principles, checks and balances, and now had a society bulging at its seams.

## The Insider Goes Deep

The population of the semiliterate uninformed where now electronically misinformed and thus disinclined to believe in facts and science and instead clung to unsubstantiated beliefs and unproven and fact-less opinions.

The failures to fully fund public education systems had led to a nation of lazy minds unable to keep up with the complexities and pace of modern society. They withdrew from trying to understand the modern world, because it was simpler and easier to live in a smaller less complicated world of their own.

These people with a narrow view of convenience over common sense will follow their cars GPS faithfully and drive into a lake and place surveillance devices not only in their pockets but in their homes as well.

As John Mellencamp wrote, “people believe what they want to believe when it makes no sense at all.”

## Chapter One, Introduction

The World Wide Web, also called the Surface Web or clear web (mostly not encrypted, thus clear), is any of the now more than a billion websites that a typical search engine used now by more than three billion worldwide users can access with a web browser such as Internet Explorer. The Deep Web is anything that a standard search engine can't access outside the enormous one billion, some estimates are as high as four billion, or so websites existing on servers around the globe. Spiders or also called bots crawl the surface web to populate the search engine databases but cannot reach into the Deep Web.

Deep Web content can be found almost anytime you navigate away from a typical search engine and do a search directly in a website – government databases and libraries contain huge amounts of Deep Web data. Searching the archives of a newspaper is an example of the Deep Web. It can also mean that router settings have deliberately or accidentally made accessing these hosts virtually impossible. Some estimates put this part of the Internet at 400 to 500 times larger than the Surface Web.

For example if you navigate to <https://www.badgerbank.bank/> and login, it will take you to:

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https://secure1.ufsdata.com/PBI_PBI1151/?Token=cfvbH8s1Wycvt459p%2FzCUVBseyZCa  
uM23UXr2BW8m%2FvbNyfsLPQtPXtl%2FRXlJob0kh%2FN64kyn%2BP%2FjghFpl6cY6qw  
WSfJRDjDfjE1VMrdIcn7sJG9m3oNffyIRG26hSwj4tRR%2Bp6OXhz%2BFu7f533xXeHjZin0  
zO1Juo84nDkxs0%3D
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Or if you navigate to [www.ssa.gov](http://www.ssa.gov) and login, it will take you to:  
<https://secure.ssa.gov/mySSA/start>

These are both secure https sites in Deep Web.

There's a parallel Internet you may not have run across yet -- accessed by a special browser and home to a freewheeling collection of sites for everything from anonymous activism to illicit activities. Not to mention regular people who don't wish to be surveilled.

The Dark Web (sometime called the Darknet) is a small portion of the Deep Web that has been intentionally hidden and is inaccessible through standard web browsers. Dark Webs include Freenet and Tor, or The Onion Router. The Tor network is an anonymous network that can only be accessed with a special web browser, called the Tor browser. The websites limited to the Tor network have a special .onion address extension like [darkweb6le5w52w.onion](http://darkweb6le5w52w.onion). Due to this, Tor's Dark Web is also known as *onionland*. It is an encrypted network built on top of the existing internet. This is the portion of the Internet most widely known for illicit activities because of the anonymity associated with the Tor network. Although the Dark Web has some nebulous uses, most uses are innocuous. For example people who want to communicate and associate online without fear of being shut down by a government agency. The Dark Web is much smaller than the Deep Web, and it's made up of numerous types of sites like Bitcoin markets, The Hidden Wiki, and porn sites. It is perhaps most notorious for its anonymous marketplaces that often sell illegal products like drugs, or weapons.

A Dark Web is any overlay network that can be accessed only with specific software, configurations, or authorization, often using non-standard communications protocols and ports. Two typical Dark Web types are friend-to-friend networks (usually used for file sharing with a peer-to-peer connection) and privacy networks such as Tor.

Marianas Web being the supposed deepest part of the Deep Web. Footnote Named for the Marianas Trench is the deepest part of the world's oceans.

The url's or addresses, of these web sites hosted on the Tor network, are a random string of sixteen meaningless letters and numbers ranging from A to Z and 1 to 7 followed by a dot

onion suffix. Tor, The onion router was developed by US Naval intelligence for military purposes and then later became open source software. (footnote)

These thousands of sites are enormously difficult to shut down because of the anonymity. It is the home of whistleblowers, political activists as well as criminal activity of illegal drugs, pornography, pirated books, media, weapons, commercial hacking services, computer exploitation software, etc.

It is also the home of creative people, because they have to be creative to be able to survive there, and so innovation takes place as well.

These sites can have the high quality appearance and graphics of an Amazon, eBay, or other shopping site, but rather than using a credit card you pay via a crypto currency like Bitcoin. (footnote) The entire site is encrypted so that domestic and foreign intelligence cannot see what you are looking at or what you buy.

These sellers of course use pseudonyms, but just like the clear web, as they too are governed by user reviews and value positive feedback from their customers. There is competition and choice in this world as well, with prices that routinely fall and quality that improves over time, with timely free shipping and generous return policies.

The Tor software provides anonymity by encrypting your email address and routing the traffic through computers around the world designed to do this.

It was now necessary, Lefty discovered, to surf the clear web with a virtual machine to protect yourself from the criminals and a Tor browser and a VPN (footnote) to protect yourself from criminals and the NSA. A VPN alone will only encrypt the message between the two end points of the VPN tunnel.

Edward Snowden speaks about surveillance and Internet freedom. The right to data privacy, is not a partisan issue, but requires a fundamental rethink of the role of the internet in our lives — and the laws that protect it. "Your rights matter," he says, "because you never know when you're going to need them."

"Know that every border you cross, every purchase you make, every call you dial, every cell phone tower you pass, friend you keep, article you write, website you visit, email subject line you type, and data packet your router sends, is in the hands of a system whose reach is unlimited but whose safeguards are not. " NSA whistleblower Edward Snowden's encrypted email to film maker Laura Poitras.

As Roy Zimmerman sings in his song Hello NSA, "we are fighting freedom here at home so we don't have to fight it, over there"

OnionShare is the solution providing the anonymity cover to the users while sharing files over the internet in a P2P fashion. You might've guessed by looking at the name OnionShare; it is linked to the onion network, i.e. TOR. It uses the TOR network and allows the user to share files anonymously.

**Warning: Leaving your identity in the dark web makes it easy to trace you in the clear web, monitor your actions, and by logging your IP they can show targeted advertising (based on your searches) or send malware. It's best to adopt a separate identity in the dark web.**