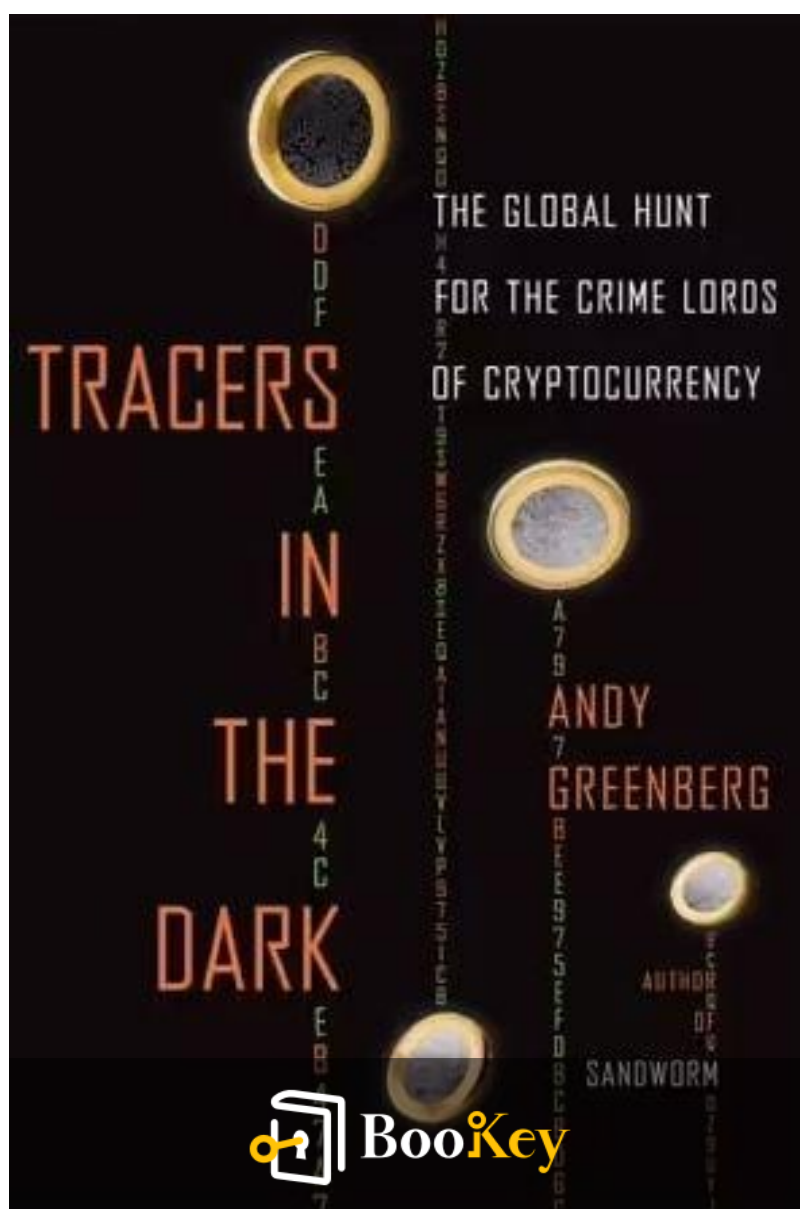


# Tracers in the Dark PDF

Andy Greenberg



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# Tracers in the Dark

Unearthing Secrets of the Crypto-Underworld: A  
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## About the book

In the past decade, the rise of cryptocurrency has revolutionized the digital black market, offering crime lords unprecedented freedom to engage in illicit activities such as drug trafficking and money laundering, all while eluding traditional law enforcement methods. In *\*Tracers in the Dark\**, veteran cybersecurity reporter Andy Greenberg unravels this gripping narrative of crime and pursuit, taking readers deep into the hidden realms of the crypto-underworld. Through unparalleled access to federal agents and industry insiders, Greenberg follows a tenacious IRS investigator and a skilled bitcoin-tracing entrepreneur as they confront a sprawling network of criminal enterprises. This thrilling account weaves together tales of dirty cops, drug cartels, and the shocking dismantling of the largest online narcotics market to date, ultimately posing a riveting question: what happens when the boldest criminals believe they cannot be caught?

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## About the author

Andy Greenberg is an acclaimed journalist and author known for his insightful exploration of technology and its intersection with privacy and security. A senior writer at WIRED magazine, Greenberg has earned recognition for his in-depth reporting on topics ranging from cybersecurity and hacking to the implications of digital surveillance. His investigative work has not only shed light on complex issues within the tech landscape but has also contributed to broader discussions about the impact of technology on society. In "Tracers in the Dark," Greenberg delves into the enigmatic world of cryptocurrency and illicit activities, showcasing his gift for storytelling while illuminating the challenges and intricacies of the digital age.

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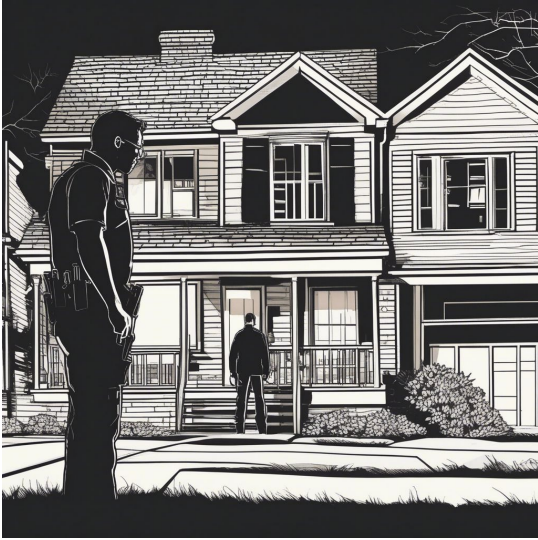
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# Chapter 1 Summary : Prologue: Proof of Concept



## PROLOGUE

### Proof of Concept

In 2017, Chris Janczewski, an Internal Revenue Service criminal investigator, found himself in a suburban Atlanta home during a Homeland Security Investigations raid. Although he was an observer, the raid was based on his investigation into suspicious cryptocurrency transactions linked to child exploitation.

Janczewski had utilized a new investigative technique that



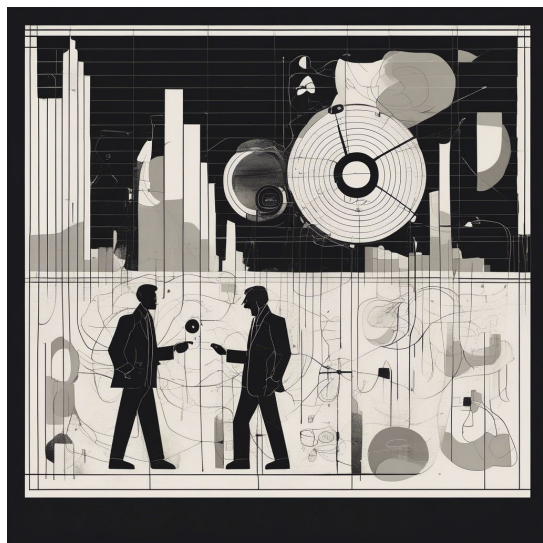
involved tracing Bitcoin's blockchain, leading to this unassuming household. His approach had already exposed numerous criminals across the globe and facilitated major law enforcement operations, including the takedown of significant online narcotics markets. However, this particular case represented a significant turning point.

As agents conducted searches, Janczewski heard the family being interrogated, particularly focusing on the father, an assistant principal. The tension of the situation struck him, as the ramifications of the raid, regardless of the father's guilt or innocence, would profoundly affect the family's life. This moment highlighted the powerful yet daunting nature of digital evidence in unveiling hidden illicit activities, a tool which Janczewski hoped still led him in the right direction.





# Chapter 2 Summary : Part I: Men with No Names



## Summary of Chapter 2: Tracers in the Dark

### Bitcoin Transactions and Early Investigations

In September 2013, a significant Bitcoin transaction of 525 coins worth approximately \$70,000 took place, later valued at over \$15 million. This transaction occurred on the public Bitcoin blockchain, making the movement of coins transparent but not revealing the identities of the sender or recipient. The payment, however, was made by a dark web drug lord to a federal agent acting as an undercover mole,



leading to the arrest of the drug lord shortly after.

## **Crucial Identification by Tigran Gambaryan**

IRS investigator Tigran Gambaryan became involved in tracing illicit cryptocurrency transactions through the work of a colleague named George Frost. Frost presented Gambaryan with fraudulent ID documents used by Carl Force, a DEA agent, who had cashed out substantial amounts of Bitcoin through the Bitstamp exchange. The unusual behavior sparked concerns, leading to an investigation into Force's activities.

## **Dual Investigations: Baltimore vs. New York Teams**

Gambaryan learned that Force was part of an undercover task force investigating the Silk Road, a notorious dark web marketplace. The Baltimore and New York teams had clashed over jurisdiction, with each seeking to apprehend the mastermind behind the Silk Road. Gambaryan's explorations into the blockchain led to insights about potential integrations with Force's corrupt dealings, including suspicious payments and communications.



## Unexpected Connections and Payments

The investigation revealed that Force's dual life involved not just undercover work but also financial gain, possibly through illegal means. Gambaryan uncovered communications showing Force's connection to an alter ego named Nob and his dealings with the Dread Pirate Roberts, the alias used by Ross Ulbricht, the Silk Road's creator. Force was seen offering intelligence to DPR in exchange for Bitcoin, complicating the investigation further.

## Proof of the Payment Flow via Blockchain

As Gambaryan traced the Bitcoin movement on the blockchain, he identified transactions leading back to Force's accounts, including payments from the Silk Road's operations. This demonstration of blockchain's traceability was significant; it contradicted the belief in Bitcoin's anonymity.

## Conclusion and Future Implications

Gambaryan's findings constructed a critical case against Force, showcasing not only the complexities of



cryptocurrency but also the layers of deception within law enforcement. The investigation illuminated the need for careful examination of financial flows as law enforcement grappled with the implications of Bitcoin across ongoing cases.

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# Chapter 3 Summary : Part II: Tracer for Hire

## Chapter 3 Summary: Tracers in the Dark

### Collapse of Mt. Gox

In November 2014, Michael Gronager, a former COO of Kraken, gathered in Tokyo with teammates and Japanese executives to discuss the staggering loss of 650,000 bitcoins—worth over \$530 million—due to the collapse of Mt. Gox, once the leading Bitcoin exchange. Gronager, now heading a new start-up called Chainalysis, took on the daunting task of tracing the missing coins despite having no prior experience or financial compensation.

### The Rise of Crypto-Crime

In early 2014, as Bitcoin's biggest exchange began to show signs of distress, rumors emerged about its insolvency and hacking incidents. Gronager observed the fall from Kraken's



office, realizing the potential for his new venture. His optimism about the future of cryptocurrency fueled his decision to help the community recover from Mt. Gox's failure.

## **Journey Through History**

Gronager's lengthy journey began as a child tinkering with machines, eventually leading him to programming and academia. His fascination with Bitcoin emerged in 2010, culminating in his partnership with Jesse Powell to found Kraken in 2011. As cryptocurrency gained traction, Gronager became an influential figure in the tracing and analysis of Bitcoin transactions.

## **Initial Tracing Attempts**

As Kraken worked to restore trust in cryptocurrency,

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# **Chapter 4 Summary : Part III:**

## **AlphaBay**

**Summary of Chapter 4 from "Tracers in the Dark"**  
**by Andy Greenberg**

### **Agent Robert Miller's Journey**

Robert Miller, a young DEA agent in Fresno, California, aspired to join the SWAT team and engage directly in drug enforcement operations. After facing injuries that sidelined him from active duty, he was assigned to surveillance work, where he spent long hours listening to wiretaps and monitoring drug suspects.

### **Discovery of the Dark Web**

During a surveillance assignment, Miller's partner proposed investigating the Silk Road, a dark web platform for drug trafficking. However, he was informed that ongoing operations from New York and Baltimore had precedence.



When the Silk Road was shut down in 2013, Miller and his colleagues remained focused on traditional drug investigations but eventually pivoted to dark web-related crimes after a local attorney assembled a task force focusing on online drug activity.

## **Entering the Dark Web Operations**

Miller volunteered for the dark web strike force, which aimed at apprehending individual money launderers and drug dealers rather than large-scale figures. He found the transition to this work challenging, navigating the complexities of Bitcoin and dark web marketplaces. AlphaBay emerged as the leading marketplace post-Silk Road, catering to various drug traffickers with less restrictive regulations regarding product types.

## **AlphaBay and Its Founder**

AlphaBay was founded by a hacker known as Alpha02, who cleverly navigated the dark web landscape. The site's operational design allowed for users' anonymity and involved clever technical features to thwart law enforcement. Despite his criminal activities, there was an air of entrepreneurial



spirit surrounding Alpha02.

## **Law Enforcement's Pursuit**

Miller's strike force initially focused on lower-tier criminals. However, the rise of AlphaBay and its operations garnered increased attention from law enforcement agencies, culminating in extensive investigations into its founder, leading seamlessly into collaborative efforts that included other federal agencies across the United States.

## **Operation Bayonet Formation**

As Miller's investigation on Alpha02 progressed, there was a simultaneous effort from the Dutch National Police, pursuing another dark web marketplace called Hansa. Both operations culminated in a coordinated international crackdown aimed at arresting those responsible for the growth of the dark web drug trade.

## **The Takedown of Cazes**

Cazes, the individual behind AlphaBay, was ultimately arrested in Thailand after authorities coordinated their efforts



from several countries. The takedown, involving various techniques—including digital surveillance and analyzing cryptocurrency flows—marked a significant achievement in combating dark web crime.

## **Aftermath and Continued Vigilance**

Despite the success of Operation Bayonet, the aftermath revealed ongoing challenges. The markets quickly adapted, demonstrating the resilience of dark web operations. Law enforcement continued to face the cyclical nature of such underground economies, revealing that strategies needed further evolution to effectively subdue this complex and ever-adapting web of crime.



## Example

**Key Point:** The resilience of dark web marketplaces poses ongoing challenges for law enforcement.

**Example:** Imagine you are part of a law enforcement team celebrating the successful takedown of a major dark web marketplace. As you bask in the triumph, you soon discover that new, more sophisticated marketplaces immediately arise to take its place, powered by the very technology you were just beginning to grasp. Entrepreneurs like Alpha02 continue to innovate, adapting to your every tactic and creating an overwhelming cycle of crime and pursuit. This realization hit hard, illustrating that for every step you take to combat illicit activities online, the criminals seem to be two steps ahead, forcing you and your colleagues back to the drawing board as you strategize anew to tackle a relentless adversary.





## Critical Thinking

**Key Point:** The resilience of dark web markets presents ongoing challenges to law enforcement efforts.

**Critical Interpretation:** The chapter emphasizes how, despite significant victories like the arrest of AlphaBay's Cazes, dark web marketplaces quickly adapt to law enforcement tactics, showcasing the cyclical nature of crime on the internet. It suggests that one must recognize the limitations of governmental responses to such evolving criminal landscapes, raising questions about the effectiveness of current strategies. While Andy Greenberg presents a narrative that highlights the success of operations like Bayonet, it is crucial to consider perspectives from other sources, such as 'The Dark Net' by Jamie Bartlett, which discuss how law enforcement struggles to keep pace with technological advancements and the ingenuity of dark web entrepreneurs.



# **Chapter 5 Summary : Part IV: Welcome to Video**

## **Chapter 5 Summary**

### **Introduction**

Jonathan Levin from Chainalysis visits the UK's National Crime Agency (NCA) to discuss how they can assist with investigations. During a routine visit, Levin learns about a new dark web site called Welcome to Video, a platform for child sexual abuse materials (CSAM).

### **Discovery of Welcome to Video**

The NCA's child exploitation team discovered the site in connection with a brutal case involving Matthew Falder, who blackmailed victims with nude images and coerced them into performing degrading acts on camera. It was found that Falder was a registered user of Welcome to Video.



## **Investigative Approach**

Recognizing the urgency of the situation, Levin analyzes the site's cryptocurrency transactions. He notes that many users had not obscured their Bitcoin trails, allowing for easier tracing of the financial network tied to the site. Welcome to Video's use of cryptocurrency was naive, making it a target for law enforcement.

## **Collaboration and Urgency**

Levin discussed potential collaborations with agents focused on child exploitation, emphasizing that resources from cryptocurrency exchanges could identify users. The team, including agents Gambaryan and Janczewski, recognized the necessity to act quickly due to the grave nature of the site's content.

## **First Encounters with the Site**

Janczewski and Gambaryan access Welcome to Video, coming face-to-face with graphic materials depicting child abuse, which deeply impacts them. Understanding the ongoing nature of abuse facilitated by the site adds



significant urgency to dismantling it.

## **Analyzing User Information**

As they dive deeper into the investigation, the agents learn how to follow financial trails using blockchain analysis. They trace every possible user of the site and collaborate with other law enforcement agencies worldwide to gather intelligence and arrest suspects.

## **Community Response and Arrests**

The investigation leads to the global arrest of 337 individuals connected to Welcome to Video, with many victims rescued. Special attention is given to two key suspects: Son Jong-woo, the site's administrator, and a Texas Border Patrol agent involved in child abuse.

## **Aftermath and Sentencing**

Despite significant successes, the lenient sentences for perpetrators in South Korea leave investigators dissatisfied. They realize the impact of their case extends beyond immediate arrests, influencing law enforcement's approach



toward cryptocurrency and child exploitation investigations.

## Conclusion

The IRS and its partners' groundbreaking approach to treating child abuse material cases as financial investigations proves effective. As the societal implications of their findings emerge, the agents remain resolute in their commitment to combating the pervasive issue of child exploitation online, driven by the resources and data made accessible through cryptocurrency tracing.



## Example

**Key Point:** The importance of tracing cryptocurrency transactions in investigations of online child exploitation.

**Example:** Imagine you are an investigator delving into the depths of the dark web, where perpetrators hide behind anonymity. Each Bitcoin transaction you track tells a story, revealing the financial habits of those who believe they are untouchable. As you uncover the connections between users on a site like Welcome to Video, the urgency of your work becomes tangible; with every financial trail, you're not just following numbers, but rescuing victims from exploitation. The naïveté of these criminals, who have underestimated the law's ability to track their digital footprints, fuels your determination. In this labyrinth of secrecy, the power of blockchain analysis transforms your approach, turning financial data into lifelines for vulnerable children in desperate need of protection.





## Critical Thinking

**Key Point:** The effectiveness of cryptocurrency tracing in combating child exploitation.

**Critical Interpretation:** Andy Greenberg highlights how cryptocurrency analysis enabled law enforcement to uncover significant networks behind a gruesome dark web site. While this perspective underscores a successful application of technology in law enforcement, it's crucial to question whether reliance on such methods may overlook broader societal issues related to child protection and human trafficking. Critical voices emphasize that while technology like blockchain tracing can aid investigations, it is not a panacea; ethical discussions around surveillance, privacy, and the potential for misidentification remain paramount (Shapiro, M. 'Privacy in the Age of Surveillance'). Acknowledging these concerns may lead to more comprehensive strategies in tackling root problems rather than merely treating symptoms.



# Chapter 6 Summary : Part V: The Next Round

Section	Summary
Golden Age of Digital Investigations	IRS-CI's computer crimes unit thrived in investigating cryptocurrency crimes using blockchain technology after major takedowns.
Dark Web Takedowns	Collaboration with FBI led to the dismantling of Wall Street Market, with a dramatic incident involving a moderator's suicide attempt.
North Korean Hackers and Bitcoin Heists	Investigations linked major Bitcoin exchange heists to North Korean hackers, uncovering billions in stolen cryptocurrency.
Twitter Hack Incident	A high-profile hack allowed a fake Bitcoin giveaway, leading to \$120,000 theft; three culprits were arrested swiftly by IRS-CI.
Mixer Services Busted	IRS-CI targeted mixer services obscuring transactions, leading to crucial arrests and seizure of millions in Bitcoin.
BTC-e Investigation	The BTC-e investigation revealed its role in cybercrimes; Tigran Gambaryan played a key role in capturing the alleged administrator.
Considerations of Ransomware and Privacy Coins	Ransomware continued, with criminals using privacy-focused cryptocurrencies like Monero, complicating blockchain analysis for law enforcement.
Regulatory and Ethical Dilemmas	Increased regulations sparked debates on privacy, surveillance, and the role of firms like Chainalysis, amid concerns about user data misuse.
Conclusion	The chapter highlights the balancing act of tracing cryptocurrency transactions, showing law enforcement's successes and ongoing challenges in cybercrime.

## Chapter Summary of "Tracers in the Dark" - Chapter 6

### Golden Age of Digital Investigations

The IRS-CI's computer crimes unit experienced a prolific



period of investigating cryptocurrency-related crimes following the takedowns of AlphaBay and Welcome to Video. Agents traced financial operations using blockchain technology, succeeding in numerous investigations.

## **Dark Web Takedowns**

In collaboration with the FBI, agents pursued Wall Street Market, tracing its administrators' funds and servers, leading to arrests in Germany. An incident involving a moderator ended dramatically when he attempted to harm himself upon police intervention.

## **North Korean Hackers and Bitcoin Heists**

Investigations by Chris Janczewski and Zia Faruqui linked massive heists from Bitcoin exchanges to state-sponsored North Korean hackers, uncovering billions in stolen

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# Chapter 7 Summary : Epilogue

## EPILOGUE

### Introduction to the Meeting

In early 2016, Michael Gronager visited Sarah Meiklejohn, a computer science professor at University College London, to offer her a position at his start-up, Chainalysis. He presented her with a demo of their blockchain analysis tool, Reactor, which had evolved from techniques she previously developed.

### Meiklejohn's Decision

Despite being impressed, Meiklejohn declined the job, citing her commitment to academia. She expressed a desire to stay neutral in the blockchain analysis landscape, wanting to focus on privacy technologies instead of engaging in what she perceived as a conflict.

### Reflections on Blockchain Analysis





Years later, Meiklejohn discussed the outcomes of blockchain tracing, acknowledging the utility in law enforcement while expressing concerns about potential misuse. She highlighted the ethical implications of companies like Chainalysis, warning of the possibility of surveillance and mission creep affecting innocent individuals.

## **Personal Views on Privacy**

Meiklejohn's focus has been maintaining her impartial stance as a researcher while advocating for privacy. She implemented measures to protect her own privacy and expressed concern about the granularity of financial tracking possible with blockchain analysis.

## **Meeting with Tigran Gambaryan**

In 2021, Tigran Gambaryan, formerly with the IRS, shared insights during a meeting about his transition to a new role at Binance. He stated that the cryptocurrency industry was lucrative and anticipated that it was not the end of successful tracing as many leads remain untracked.





## **Reflections on Criminal Cases**

During their conversation, Gambaryan reflected on cases he worked on, including Alexander Vinnik, and the implications of criminal actions in the crypto space. He acknowledged the complexities and ethical considerations tied to blockchain technology.

## **End of the Journey**

Gambaryan also noted the irony surrounding former agents who transitioned into the cryptocurrency industry, reinforcing the intertwined nature of law enforcement and emerging digital economy.

## **Conclusion**

The narrative encapsulates the journey of blockchain analysis, highlighting both the advancements in tracing technology and the ethical dilemmas faced by researchers and law enforcement agents within the field.





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# Best Quotes from Tracers in the Dark by Andy Greenberg with Page Numbers

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## Chapter 1 | Quotes From Pages 19-23

1. This was a high school administrator, a husband, and a father of two. Whether he was guilty or innocent, the accusations this team of law enforcement agents were leveling against him—their mere presence in his home—would almost certainly ruin his life.
2. He thought again of the extradimensional evidence that had brought them there, a tool like a digital divining rod, one that revealed a hidden layer of illicit connections underlying the visible world.
3. Janczewski had followed the strands of Bitcoin's blockchain, pulling on a thread that had ultimately connected this ordinary home to a very dark place on the internet, and then connected that dark place to hundreds more men around the world. All complicit in the same



massive network of unspeakable abuse.

4.They'd exposed crooked cops stealing millions. They'd tracked down half a billion dollars in stolen funds, the fruits of a multiyear, international heist and money-laundering operation.

5.A proof of concept.

## **Chapter 2 | Quotes From Pages 24-184**

- 1.This public, permanent record of someone's five-figure payment cannot be rescinded or erased.
- 2.He'd gone so far as to ask for meetings with the staff of any Bitcoin start-up in the Bay Area who would let him visit, just to pick their brains and learn more about this strange new world of digital money.
- 3.For Gambaryan, the case began with a fake ID.
- 4.This does not pass the smell test.
- 5.I'm not a self-centered sociopathic person that was trying to express some, like, inner badness. I just made some very serious mistakes.

## **Chapter 3 | Quotes From Pages 185-282**





1. Technology, here, will prevail.
2. The noise would eventually quiet. The signal would persist.
3. I could see that, with code, you could build way more with way less.
4. Even in chaos, there is possibility.
5. That was some noise.





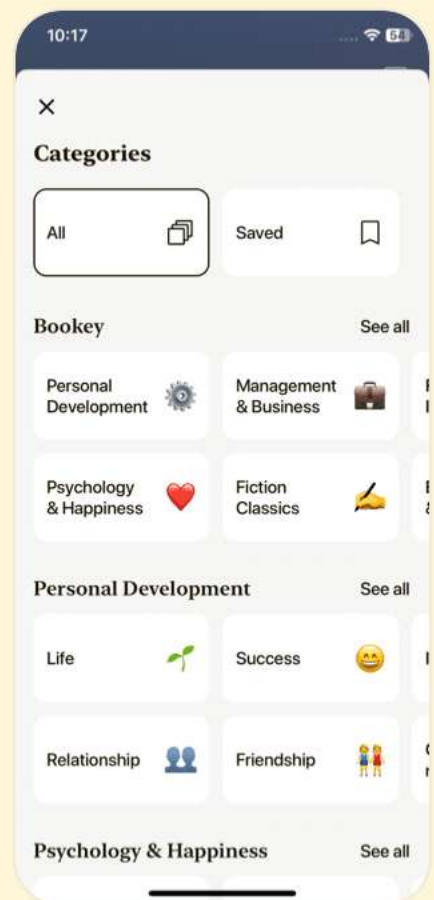
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## **Chapter 4 | Quotes From Pages 283-481**

1. Ninety-nine percent boredom and 1 percent excitement.
2. Let's hit singles before we try to go for a home run.
3. Courts can stop a man, but they can't stop an ideology.
4. We have to carry on with business; we all need money to eat.
5. Is this the Michael Jordan of the dark web?

## **Chapter 5 | Quotes From Pages 482-563**

1. The darker the darknet gets, the way that you shine the light is following the money.
2. I've seen a lot of stuff, but I had never seen anything like this. It killed a little bit of me.
3. You've got a heinous crime, a terrible thing happening in the world, and in an instant, our technology has broken through and revealed in very clear logic who's behind it.
4. There's no going back. Once you know what you know, you can't unknow it. And everything that you see in the future comes in through that prism of what you now know.





5.We are going to investigate this by following the money.

## **Chapter 6 | Quotes From Pages 564-630**

- 1.It was just one giant case after another,” says Matt Price, an agent who had joined the D.C. unit after a stint at the CIA. “We’d do a case that I didn’t think we could top. And then we’d just keep blowing stuff up. Welcome to Video was just the start.
- 2.The blockchain is forever.
- 3.Don’t work a case if you can’t get a body,” Gambaryan said, describing a maxim he’d first heard formulated by Will Frentzen and had since tried to use as a filter to choose which investigations to pursue among all of the blockchain’s available leads.
- 4.I just moved a billion,” Gambaryan wrote, not bothering to correct his typo.
- 5.You can’t always force people to talk,” Gambaryan explains vaguely. “It takes some convincing sometimes.
- 6.The truth was that, for most of those extortion cases,



visibility wasn't enough.

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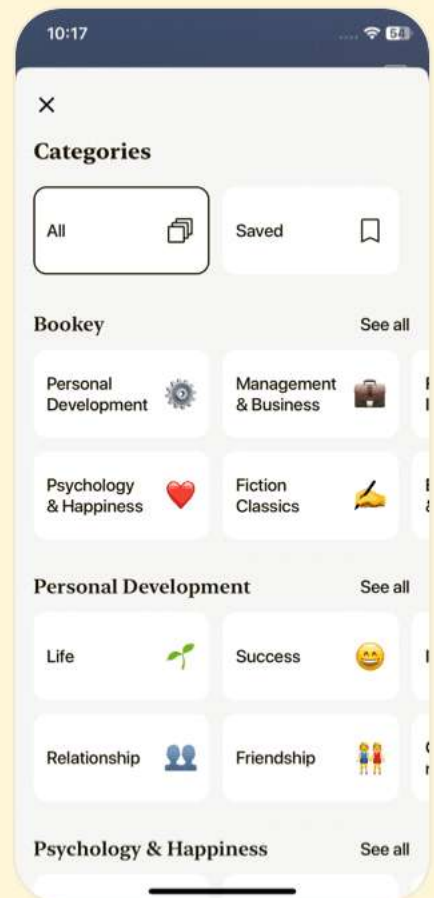
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## Chapter 7 | Quotes From Pages 631-647

- 1.I don't want to be a cyber narc, in any form.
- 2.If you really care about privacy, don't use Bitcoin.
- 3.The golden era of cryptocurrency tracing is coming to a close.
- 4.There's still a ton of unsolved cases out there.





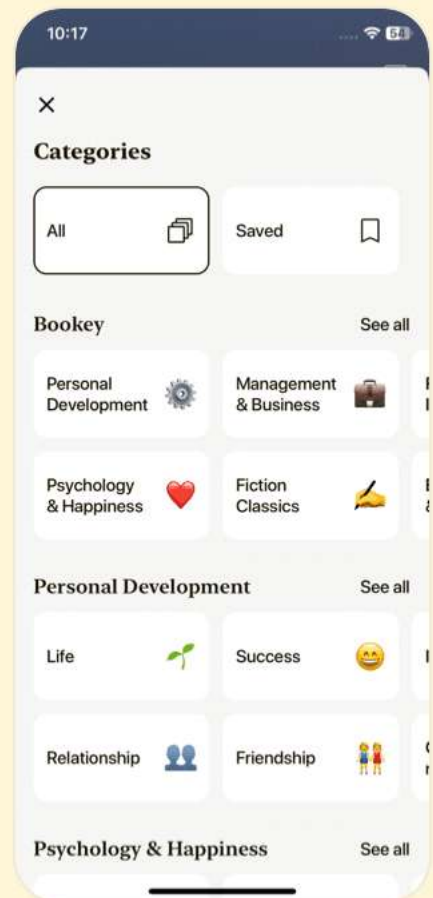
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# Tracers in the Dark Questions

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## Chapter 1 | Prologue: Proof of Concept| Q&A

### 1.Question

**What was the significance of Janczewski's presence during the raid?**

Answer:Janczewski's presence highlighted the crossover between financial investigation and law enforcement, showcasing how Bitcoin's traceability can uncover serious crimes, illustrating the dangers lurking beneath ordinary lives and leading to the exposure of larger criminal networks.

### 2.Question

**How did the raid affect the family involved, regardless of guilt?**

Answer:The family faced a traumatic invasion of their home, a situation that would likely bring long-term consequences, such as stigma and emotional distress, regardless of whether the father was innocent or guilty.

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### 3.Question

**What does the term 'proof of concept' refer to in this context?**

Answer:In this context, 'proof of concept' refers to the successful application of cryptocurrency tracing techniques that demonstrated their effectiveness in real-world investigations, validating the approach and its capability to unravel complex criminal activities.

### 4.Question

**Why is Janczewski's inner conflict during the raid significant?**

Answer:Janczewski's internal struggle emphasizes the moral complexity of law enforcement—balancing the pursuit of justice with the potential destruction of innocent lives, reflecting the heavy burden investigators face when their actions profoundly impact families.

### 5.Question

**What lessons can be drawn from the technologies used in this investigation?**

Answer:The use of advanced technology, such as blockchain



tracing, teaches us about the importance of innovation in law enforcement, while also raising ethical questions about privacy, justice, and the consequences of uncovering hidden crimes.

## 6.Question

**How does this event connect to broader themes in cybercrime?**

Answer: This event connects to broader themes in cybercrime by illustrating how digital currencies, once thought untraceable, can be used to crack down on illicit activities, thereby highlighting a critical shift towards understanding and combating the dark side of the internet.

## 7.Question

**Why might the children be oblivious to the home invasion occurring around them?**

Answer: The obliviousness of the children can be seen as a poignant representation of innocence amidst chaos, underscoring the impact of adult choices on the lives of the next generation, and how often children remain shielded



from adult troubles.

### 8.Question

**What does this chapter reveal about the human cost of cybercrime investigations?**

Answer:The chapter reveals a significant human cost in cybercrime investigations, where the uncovering of crimes can lead to devastating repercussions for families, ultimately questioning if the pursuit of justice justifies the collateral damage inflicted.

### 9.Question

**In what way does the digital evidence serve as a 'digital divining rod'?**

Answer:The digital evidence acts as a 'digital divining rod' by guiding investigators to hidden criminal activities and connections that are not immediately visible, revealing layers of illicit behavior that can be traced back through the depths of the internet.

### 10.Question

**What emotions does Janczewski experience as he witnesses the raid?**



Answer: Janczewski experiences a mix of professional detachment and personal empathy, grappling with the potential ruin of the family's life while being acutely aware of the necessity of his mission, reflecting the emotional toll of such work on investigators.

## **Chapter 2 | Part I: Men with No Names| Q&A**

### **1.Question**

**What does the story of Carl Mark Force demonstrate about the interplay between law enforcement agents and the criminal underworld in the digital currency space?**

Answer: Carl Mark Force's case illustrates a critical tension in the realm of digital currencies and online crime: the potential for corrupt behavior among those tasked with enforcing the law. Despite being a DEA agent embedded in investigations against the Silk Road, Force exploited his position to stage illicit transactions, impersonate individuals, and engage in extortion. This duality showcases how the anonymity and complexity of digital currencies like



Bitcoin can lead not only criminals but also law enforcement officers to operate outside legal boundaries for personal gain. It serves as a reminder of the human vulnerability to corruption and the precarious balance of power within the justice system.

## 2.Question

**How did Tigran Gambaryan's meticulous tracking through the blockchain lead to significant breakthroughs in the investigation of Carl Mark Force?**

Answer: Gambaryan's investigations highlighted the power of blockchain technology in tracing illicit activities. Despite the widespread belief that Bitcoin transactions were virtually untraceable, Gambaryan's methodical approach—following transaction patterns, utilizing clustering techniques, and examining connections between addresses—uncovered the flow of 525 bitcoins linked to Force that had originated from the Silk Road. This painstaking tracking, combined with the public nature of the blockchain, allowed Gambaryan to



eventually gather undeniable evidence of Force's misconduct, demonstrating that even within a system designed for anonymity, persistence and expertise in forensic accounting could reveal hidden truths.

### 3.Question

**What were the implications of Sarah Meiklejohn's research on Bitcoin's anonymity and how did it shift perceptions among law enforcement and the general public?**

Answer: Sarah Meiklejohn's groundbreaking research revealed that Bitcoin's supposed anonymity was more of a mirage than a reality. Through her experiments, she demonstrated that transactions on the blockchain could be traced and linked to individuals and organizations, effectively debunking the myth of Bitcoin as a wholly anonymous currency. This research not only provided law enforcement agencies with tools to track criminal activity more effectively but also changed public perception, leading to a more cautious understanding of Bitcoin's use in illegal





activities. Her work emphasized the need for awareness regarding the traceability of cryptocurrencies and the necessity for regulatory frameworks to manage their implications in financial crime.

#### 4.Question

**What significance does the story of Ross Ulbricht and the Silk Road have in the context of digital innovation and law enforcement?**

Answer: The narrative of Ross Ulbricht and the Silk Road symbolizes a pivotal moment in the intersection of digital innovation and law enforcement. As the first major dark web marketplace powered by Bitcoin, the Silk Road demonstrated the potential for cryptocurrencies to enable new forms of commerce, sidelining traditional legal and regulatory frameworks. Ulbricht's arrest highlighted the challenges posed to law enforcement in combatting digital crime and the rapid evolution of illicit markets fueled by technology. This case underscored the necessity for law enforcement to adapt to and understand the technology underlying such



marketplaces, revealing vulnerabilities and opening new avenues for investigation, but also raising complex questions about privacy, freedom, and the ethical boundaries of policing in the digital age.

## 5.Question

**How do the interactions between law enforcement agents lead to dual narratives, one of criminality and one of justice?**

Answer: The interactions between law enforcement agents, like Carl Mark Force and the investigators probing the Silk Road, illustrate how dual narratives can emerge. On one hand, there are agents like Gambaryan and Alford trying to uphold justice, tracing crimes through meticulous forensic accounting. On the other hand, agents like Force embody a narrative of corruption, using their positions to exploit the very systems they are supposed to protect. This dichotomy introduces a complex layer to the narrative of justice, where the potential for moral failure exists even among those sworn to uphold the law, highlighting the ongoing struggle between



maintaining ethical integrity and succumbing to temptations in a rapidly changing landscape.

## **Chapter 3 | Part II: Tracer for Hire| Q&A**

### **1.Question**

**What motivated Michael Gronager to pursue the challenge of tracking down the stolen bitcoins from Mt. Gox?**

Answer:Gronager was motivated by his optimism and belief in the cryptocurrency ecosystem. After leaving his comfortable position at Kraken, he felt that taking on the monumental task of recovering the missing bitcoins was not only a crucial challenge but also an opportunity to use his skills effectively in a time of crisis for the cryptocurrency world.

### **2.Question**

**How did Gronager's background influence his approach to problem-solving in the cryptocurrency space?**

Answer:Gronager's engineering mindset, honed through years of tinkering and programming, allowed him to understand technology on a deeper level. His hands-on



experience with building and optimizing systems equipped him to tackle complex challenges like tracing transactions on the blockchain.

### 3.Question

**What was the significance of the tea served during the meeting in Tokyo?**

Answer:The tea served to Gronager during the meeting with the Japanese law firm symbolized his willingness to embrace cultural nuances and adapt to a new environment, even in the midst of a challenging situation, reflecting his positivity and commitment to solving the problem at hand.

### 4.Question

**Why was the identification of Alexander Vinnik so crucial for Gronager and Gambaryan?**

Answer:Identifying Vinnik was crucial as he was linked to both the largest cryptocurrency heist in history and the mysterious BTC-e exchange, which facilitated laundering of the stolen funds. This breakthrough could potentially lead to accountability and recovery of stolen bitcoins, underscoring



the importance of their investigation.

### 5.Question

**What does Gronager's journey in developing Chainalysis reveal about resilience and opportunity in the tech industry?**

Answer:Gronager's journey illustrates how resilience in the face of adversity can lead to innovative opportunities. By focusing on building a tool that could trace cryptocurrencies, he transformed a major setback in the crypto market into a successful business model, demonstrating that challenges can fuel creativity and ground-breaking solutions.

### 6.Question

**How did Gronager's perspective on Bitcoin evolve throughout his experiences?**

Answer:Initially attracted by Bitcoin's technology, Gronager's perspective evolved as he began to witness its potential both for good and ill. His work in tracing the stolen bitcoins from Mt. Gox solidified his belief in the importance of transparency within cryptocurrency, steering him toward creating solutions that promote accountability.



## 7.Question

**What can be learned from Gronager and Gambaryan's approach to collaborating despite initial differences in background and expertise?**

Answer: Their collaboration highlights the value of combining diverse skill sets and perspectives in problem-solving. Gronager's technical expertise paired with Gambaryan's law enforcement background created a powerful investigative team, emphasizing that effective partnerships often transcend individual specialties.

## 8.Question

**In what ways did the case of Mt. Gox impact the broader cryptocurrency ecosystem?**

Answer: The collapse of Mt. Gox served as a wake-up call for the cryptocurrency ecosystem, prompting a shift toward regulatory oversight and the need for better security practices within exchanges. This incident catalyzed innovation in blockchain analysis and monitoring technologies, exemplified by the rise of Chainalysis.

## 9.Question





## **What does Gronager believe about Bitcoin's potential future despite its past challenges?**

Answer: Despite the challenges and setbacks faced by Bitcoin and the cryptocurrency market, Gronager remains optimistic about its future. He believes in Bitcoin's underlying mechanics and the possibility that it will ultimately prevail as a stable and valuable form of digital currency.

### **10.Question**

## **How did Gronager's experience with the Mt. Gox investigation shape his views on cryptocurrency and traceability?**

Answer: Gronager's experience reinforced his belief that Bitcoin is inherently traceable and that, with the right tools, it can be utilized to combat crime rather than facilitate it. He views the transparency of blockchain technology as a critical component in improving the industry's reputation and effectiveness.





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## Chapter 4 | Part III: AlphaBay| Q&A

### 1.Question

**What motivated Robert Miller to join the DEA, and how did his aspirations change after an injury?**

Answer:Robert Miller joined the DEA with a strong desire to be part of the SWAT team and engage in direct law enforcement activities, excited by the adrenaline rush of making arrests and 'hitting doors'. However, after injuring both his foot and shoulder while rock climbing, he was sidelined from those aspirations for at least two years, leading him into a role focused on surveillance which he described as largely mundane—a stark contrast to the action he had anticipated.

### 2.Question

**How did Miller's assignment shift his career focus from traditional law enforcement to surveillance and dark web investigations?**

Answer:Initially, Miller was eager to work in physical law enforcement roles, but after his injuries forced him into



surveillance, he eventually volunteered to join Fresno's dark web strike force after noticing the emergence of markets like the Silk Road. This shift opened up a new area of investigation that led him to understand the dark web's drug economy.

### 3.Question

**What was AlphaBay, and how different was it from platforms like the Silk Road?**

Answer:AlphaBay was a dark web marketplace that quickly became the dominant player after the Silk Road. Unlike Silk Road's more limited ideological guidelines, AlphaBay was run by Alpha02, who allowed a broader range of illicit products, including drugs, weapons, and fraud tools, focusing heavily on operational and user security rather than the ideological underpinnings that characterized Silk Road.

### 4.Question

**What advantages did Alpha02 have over other darknet market administrators?**

Answer:Alpha02 had a technical background as a notorious





carder, giving him the skills needed to create a robust and secure platform. While most other markets struggled with operational security, AlphaBay adopted advanced techniques to protect user identities and funds, ultimately allowing it to thrive even as law enforcement cracked down on competitors.

### 5.Question

**How did law enforcement respond to the rise of AlphaBay, and what strategies did they employ?**

Answer:Law enforcement recognized AlphaBay as a significant threat and began to focus on dismantling it. They undertook a lengthy investigation, utilizing agents from various federal agencies to target Alpha02 directly, employing new blockchain tracing technologies from companies like Chainalysis to map out financial flows associated with AlphaBay.

### 6.Question

**What led to the eventual takedown of AlphaBay and its administrator, Alexandre Cazes?**



Answer: The takedown was the result of extensive international collaboration among multiple law enforcement agencies, which included undercover operations to infiltrate the market and identify its users. Ultimately, the combination of Cazes's operational security slip-ups, intelligence gathering, and a coordinated raid led to his capture and the eventual seizure of AlphaBay's infrastructure.

## 7.Question

**Describe the impact of the takedown of AlphaBay on the dark web marketplace ecosystem.**

Answer: The takedown of AlphaBay led to a temporary vacuum in the dark web marketplace ecosystem, and many users migrated to competitors like Hansa. This in turn created pressure on smaller marketplaces and led to extensive law enforcement interest and surveillance efforts, ultimately resulting in the simultaneous takedown of Hansa. The aftermath illustrated the resilience of the dark web economy, as new markets continued to emerge even after significant crackdowns.





## 8.Question

**What indications were there that Alexandre Cazes may have planned his own end prior to his death?**

Answer:There were several indicators that suggested Cazes may have felt cornered. Reports indicated he had expressed a desire not to be extradited to the United States, and there were conversations about the morality of his marketplace. Additionally, during the period leading up to his death, he appeared calm and indifferent, as if resigned to his fate, prompting investigators to suspect he was contemplating suicide.

## 9.Question

**What was the significance of Cazes's relationship with law enforcement as the investigation progressed?**

Answer:Cazes's interactions with law enforcement shifted dramatically from a target of a criminal investigation to a potential informant as he faced extradition. Despite being apprehended, there was a window of opportunity to secure valuable insider knowledge about the dark web trade, which



created a complex relationship between him and the agents who had spent months pursuing him.

### **10.Question**

**How did the international collaboration in the AlphaBay investigation illustrate the challenges of policing the dark web?**

Answer:The international collaboration showcased the intricacies of jurisdiction, technology, and coordination among multiple law enforcement agencies. The operation revealed not only the difficulty of tracking down anonymous criminals on the dark web but also the potential success that strategic inter-agency cooperation could achieve in dismantling large-scale illicit operations.

## **Chapter 5 | Part IV: Welcome to Video| Q&A**

### **1.Question**

**What was the significance of the case related to Welcome to Video?**

Answer:The Welcome to Video case represented a breakthrough in tackling child sexual abuse materials (CSAM) on the dark web by employing



blockchain analysis to trace financial transactions back to real-world identities. This led to the apprehension of hundreds of offenders globally, marking one of the largest law enforcement operations against online child exploitation.

## 2.Question

**How did the investigation change the perspectives of the agents involved?**

Answer:The agents, many of whom were parents, became acutely aware of the dangers posed to children, leading to heightened protectiveness. Their experiences with the explicit content deeply affected their view of humanity, instilling a permanent sense of caution and mistrust in their interactions with others.

## 3.Question

**What role did blockchain technology play in the investigation?**

Answer:Blockchain technology served as the pivotal tool that enabled investigators to follow the financial trails of users on



Welcome to Video, facilitating the identification of individuals involved in the purchase and distribution of CSAM.

#### 4.Question

**How did the investigation shift from focusing solely on the site's administrators to broader criminal networks?**

Answer:Initially aimed at Son Jong-woo, the administrator, the investigation expanded to include hundreds of users and contributors to the site. It became evident that the arrests needed to encompass both producers and consumers of abuse materials, recognizing the vast global network supporting child exploitation.

#### 5.Question

**What are the moral implications raised by the existence of such dark web sites?**

Answer:The existence of sites like Welcome to Video reveals a disturbing truth about the capabilities for human cruelty and exploitation. It challenges societal perceptions of safety and culpability in an interconnected world, where the



anonymity of the internet facilitates horrific abuses that can be perpetrated by seemingly ordinary individuals.

### 6.Question

**What did the aftermath of the case reveal about the legal system regarding child exploitation?**

Answer:The case highlighted inadequacies in handling child exploitation laws, as seen in Son Jong-woo's relatively light sentence. It spurred public outcry and legislative efforts in Korea aimed at strengthening penalties for those engaging in online child abuse.

### 7.Question

**What did investigators learn about the psychological impact of the investigation?**

Answer:Investigators experienced significant psychological tolls due to the graphic nature of the materials they encountered, leading many to grapple with a loss of innocence regarding human nature and the pervasive potential for evil within society.

### 8.Question

**What does the case suggest about the potential for future**



## **investigations into dark web activities?**

Answer: The Welcome to Video case sets a precedent for future investigations, showcasing the potential for financial tracking and forensic analysis of digital currencies to combat cyber-enabled criminal activities, suggesting a new era of law enforcement capabilities against online exploitation.

## **Chapter 6 | Part V: The Next Round| Q&A**

### **1.Question**

**What characterized the golden age of digital detective work for IRS-CI's computer crimes unit?**

Answer: The period was marked by a rapid succession of investigations where agents traced cryptocurrency trails linked to major criminal operations. This 'golden age' allowed them to dismantle various dark web markets and criminal activities, such as AlphaBay, Wall Street Market, and others, in a whirlwind of activity.

### **2.Question**

**How did agents like Matt Price describe their experience**





**during this golden age?**

Answer: Matt Price mentioned that they would tackle a case that seemed insurmountable, only to find themselves continuously blowing things up, indicating a thrilling and unexpected pace of success in their investigations.

### **3.Question**

**What was the significance of the takedown of the Wall Street Market?**

Answer: The takedown of Wall Street Market demonstrated the effectiveness of blockchain tracing technology, which enabled agents to track the market's administrators back to a Cold War-era military facility, showcasing law enforcement's ability to dismantle sophisticated criminal networks.

### **4.Question**

**What led to the downfall of characters involved in the dark web, such as Larry Harmon, the founder of Helix?**

Answer: Larry Harmon's downfall was catalyzed by a slip-up where he accidentally uploaded a photo revealing his identity while managing Helix's operations, which ultimately led to



his arrest and the seizure of \$130 million in bitcoins, exemplifying the significance of digital footprints.

### 5.Question

**How did the IRS-CI succeed in tracing North Korean state-sponsored Bitcoin hacks?**

Answer:The IRS-CI, alongside the FBI and U.S. Cyber Command, traced \$300 million worth of bitcoins stolen by North Korean hackers known as the Lazarus Group to Chinese brokers, indicating the international reach and complexities of financial cybercrime.

### 6.Question

**What inherent challenges do ransomware gangs face today according to the text?**

Answer:Ransomware gangs, such as DarkSide, face law enforcement's growing capabilities in cryptocurrency tracing that threaten their anonymity, but they increasingly demand payments in privacy-focused coins like Monero to evade tracking.

### 7.Question

**How did the Colonial Pipeline attack demonstrate the**



## **limitations of tracking cryptocurrency payments?**

Answer: Despite the eventual recovery of a majority of the ransom paid by Colonial Pipeline, the attack showcased the challenges in tracking transactions through complex systems, illustrating the ongoing struggle against ransomware despite advancing investigative techniques.

## **8.Question**

### **What is the potential conflict between privacy and law enforcement when it comes to cryptocurrency?**

Answer: The tension arises due to the need for law enforcement to trace cryptocurrency to combat crime against the push for financial privacy by activists who argue that aggressive tracking may infringe upon personal freedoms and inadvertently target dissenting individuals.

## **9.Question**

### **How did different perspectives on blockchain analysis emerge within the cryptocurrency community?**

Answer: While some in the cryptocurrency sector saw the tracking capabilities of companies like Chainalysis as



essential for safety, others, including activists and developers, criticized them as tools of oppression, highlighting a dichotomy between security and surveillance.

### 10.Question

**What future developments are anticipated regarding cryptocurrency privacy and tracking tools?**

Answer: Developments like Cross-Input Signature

Aggregation in Bitcoin could provide mechanisms to enhance user privacy, while continued innovations in blockchain analysis tools pose questions about the balance between anonymity and security.





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## Chapter 7 | Epilogue| Q&A

### 1.Question

**What motivated Sarah Meiklejohn to decline the job offer from Chainalysis?**

Answer: Sarah Meiklejohn was motivated to decline the job offer from Chainalysis for complex reasons.

While she found Michael Gronager's proposal appealing and valued his work, she had recently started her tenure-track position at University College London and was not ready to leave academia. Moreover, Meiklejohn wanted to maintain an impartial stance in the blockchain analysis ecosystem, opting to continue her research on privacy technologies without being tied to a company focused on exploiting vulnerabilities for profit. She was particularly averse to being labeled a 'cyber narc', indicating her desire to avoid compromising her values.

### 2.Question





## **How did Meiklejohn view the ethics of Chainalysis's work?**

Answer:Meiklejohn did not consider Chainalysis's work to be morally wrong; she recognized its inevitability given the public nature of blockchain data. However, she preferred to keep her distance from the ethical implications of their methods, emphasizing the need for research that could help enhance privacy rather than exploit it.

### **3.Question**

## **What concerns did Meiklejohn express about the future of cryptocurrency and surveillance?**

Answer:Meiklejohn articulated concerns about a future where blockchain analysis could lead to extensive surveillance, allowing banks and exchanges to monitor individuals' transactions closely. She worried about potential mission creep, where technologies designed for legitimate purposes might be misused to target marginalized communities or individuals engaged in legal activities, such as sex work.



#### 4.Question

**What was Tigran Gambaryan's perspective on the ongoing relevance of cryptocurrency tracing?**

Answer:Tigran Gambaryan remained optimistic about the future of cryptocurrency tracing, despite acknowledging the challenges posed by privacy-oriented cryptocurrencies like Monero and Zcash. He believed that there were still abundant unresolved cases available for investigation and that technology would continue to evolve, allowing law enforcement to adapt and tackle new challenges.

#### 5.Question

**Why is the public's trust in cryptocurrency at stake according to the discussions?**

Answer:The discussions illustrate the fragile balance between maintaining financial privacy and enabling regulatory scrutiny. If companies like Chainalysis were to misuse their tools for more invasive surveillance, it might erode public trust in cryptocurrency as a financial instrument designed to empower users, setting a dangerous precedent for



individual privacy rights.

## 6.Question

**What warning did Meiklejohn give concerning the use of Bitcoin?**

Answer:Meiklejohn's warning was clear: 'If you really care about privacy, don't use Bitcoin.' This statement encapsulates her belief that the blockchain's transparency undermines the privacy that many users expect when engaging with the cryptocurrency.

## 7.Question

**What impact did the evolving tech landscape have on Gambaryan's career choices?**

Answer:Gambaryan's career choices reflect the heavy pull of the booming cryptocurrency industry. After a decade of government service, he joined Binance to lead investigations, a move indicative of how successful investigators are transitioning to roles in the private sector, motivated by the burgeoning potential for financial impact in the rapidly evolving crypto landscape.





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## Chapter 1 | Prologue: Proof of Concept| Quiz and Test

1. In 2017, Chris Janczewski discovered suspicious cryptocurrency transactions linked to child exploitation.
2. Chris Janczewski was actively participating in the raid conducted by Homeland Security Investigations.
3. The presence of digital evidence in the investigation was seen as a positive tool for unveiling hidden illicit activities.

## Chapter 2 | Part I: Men with No Names| Quiz and Test

1. In September 2013, a significant Bitcoin transaction of 525 coins worth approximately \$70,000 took place and later valued at over \$15 million.
2. Tigran Gambaryan was an IRS investigator who discovered illegal activities solely through evidence found in physical

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documents, not the blockchain.

3.The investigation into Carl Force revealed that he had no connections with the Silk Road or its creator.

### **Chapter 3 | Part II: Tracer for Hire| Quiz and Test**

- 1.Michael Gronager had prior experience tracing missing bitcoins before the collapse of Mt. Gox.
- 2.Gronager co-founded Kraken in 2011 after developing a fascination with Bitcoin in 2010.
- 3.Chainalysis was established to conceal the nature of cryptocurrency transactions from regulatory bodies.







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## **Chapter 4 | Part III: AlphaBay| Quiz and Test**

1. Agent Robert Miller was initially assigned to active duty in drug enforcement operations before being sidelined due to injuries.
2. AlphaBay was the leading marketplace for drug trafficking following the shutdown of the Silk Road.
3. Operation Bayonet only involved the U.S. law enforcement agencies and did not collaborate with any international partners.

## **Chapter 5 | Part IV: Welcome to Video| Quiz and Test**

1. Jonathan Levin from Chainalysis discovered the dark web site Welcome to Video independently, without assistance from the National Crime Agency (NCA).
2. The investigations related to Welcome to Video resulted in the global arrest of 337 individuals connected to child exploitation.
3. The investigations revealed that most users of Welcome to



Video effectively obscured their cryptocurrency

transactions, making tracing difficult for law enforcement.

## **Chapter 6 | Part V: The Next Round| Quiz and Test**

- 1.The IRS-CI's computer crimes unit had a successful period investigating cryptocurrency-related crimes after the takedown of AlphaBay and Welcome to Video.
- 2.The Twitter hack incident resulted in the attackers stealing more than \$500,000 in cryptocurrency.
- 3.North Korean hackers were linked to significant Bitcoin heists worth billions, according to investigations by Chris Janczewski and Zia Faruqui.



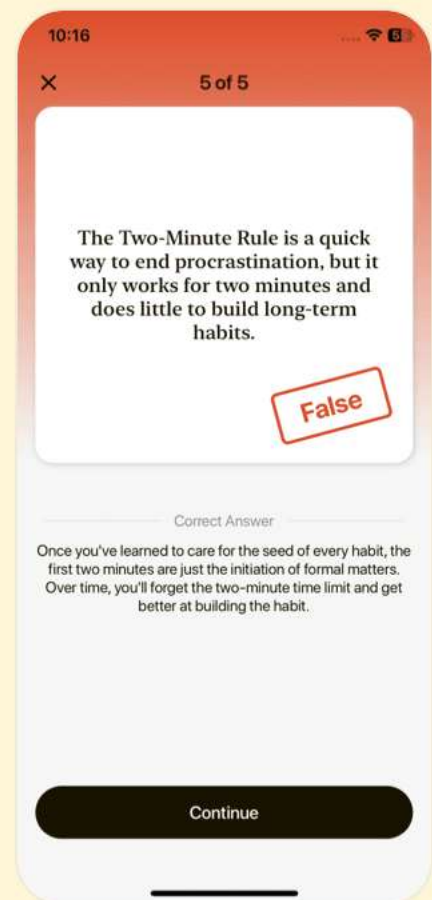


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## Chapter 7 | Epilogue| Quiz and Test

1. Michael Gronager offered Sarah Meiklejohn a position at Chainalysis after presenting a demo of their blockchain analysis tool in 2016.
2. Sarah Meiklejohn accepted the job from Chainalysis to focus on blockchain analysis despite her commitment to academia.
3. Tigran Gambaryan believed that the cryptocurrency industry was nearing the end of successful tracing efforts as many leads remain untracked.





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