



From Attachments to SEO: Click Here to Learn More about Clickbait PDFs!

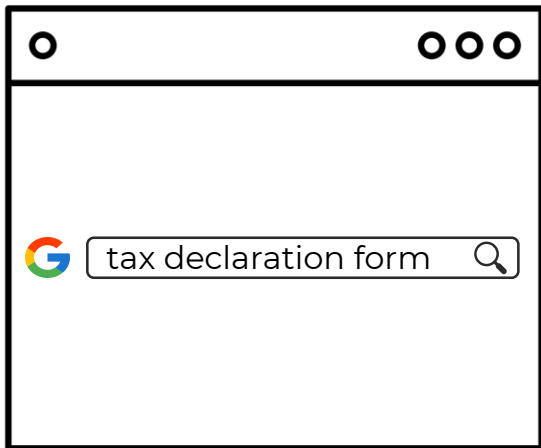
*Giada Stivala, Sahar Abdelnabi, Andrea Mengascini,
Mariano Graziano, Mario Fritz, Giancarlo Pellegrino*

ACSAC 2023

Austin, TX

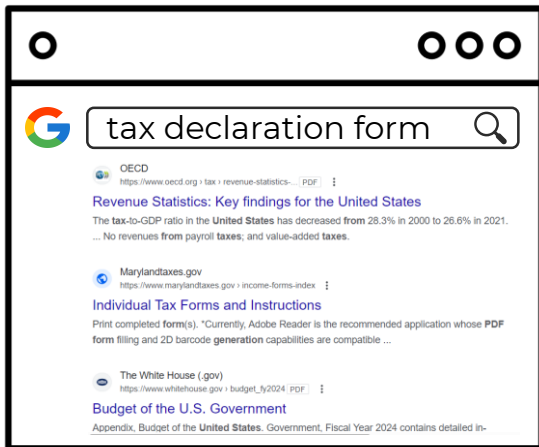


Execution of a Clickbait PDF Attack



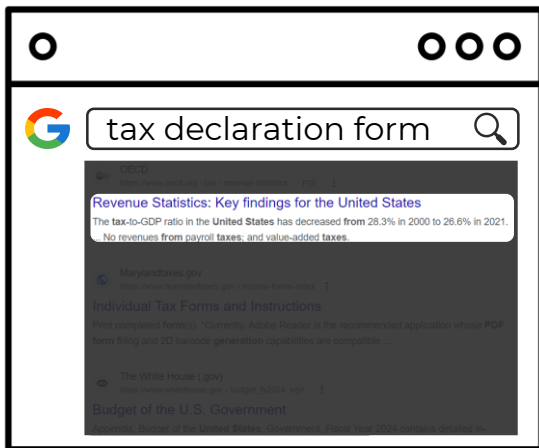


Execution of a Clickbait PDF Attack



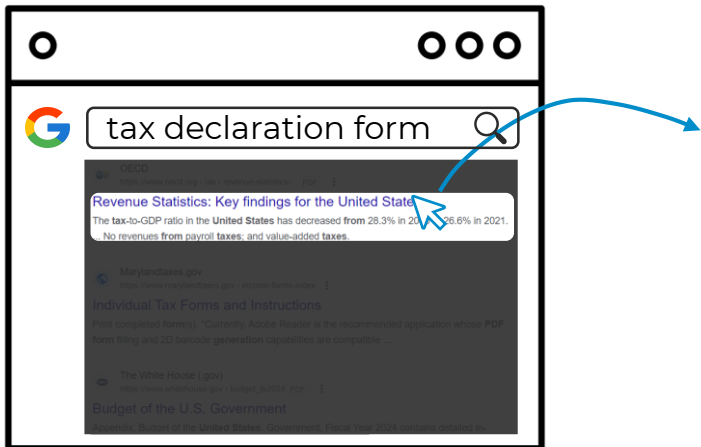


Execution of a Clickbait PDF Attack



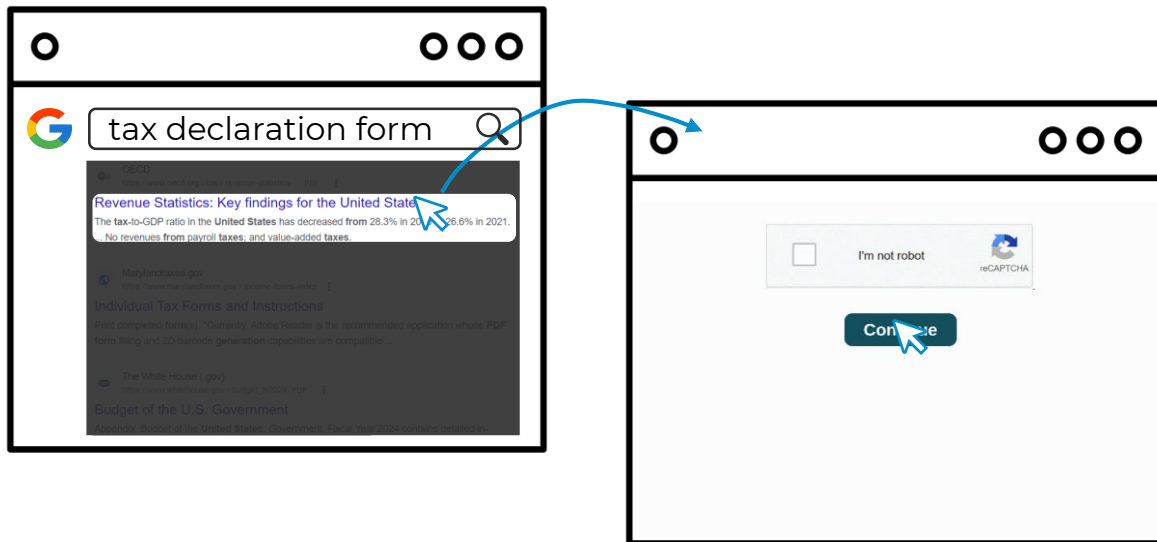


Execution of a Clickbait PDF Attack



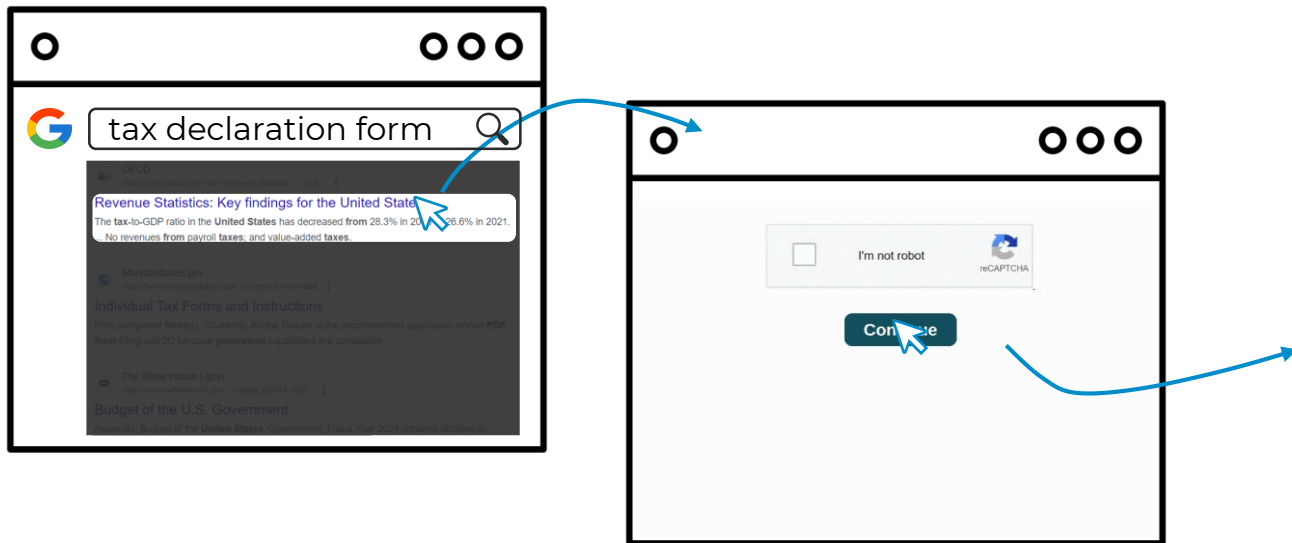


Execution of a Clickbait PDF Attack



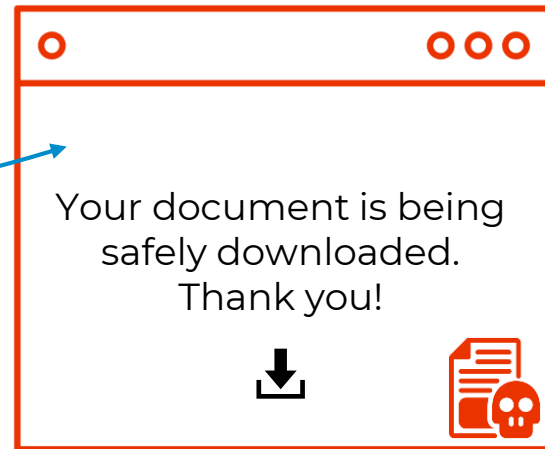
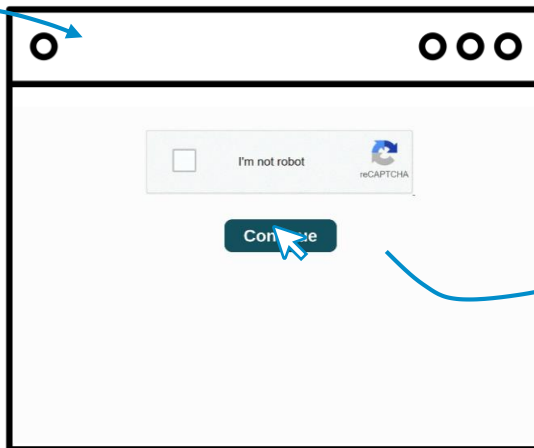
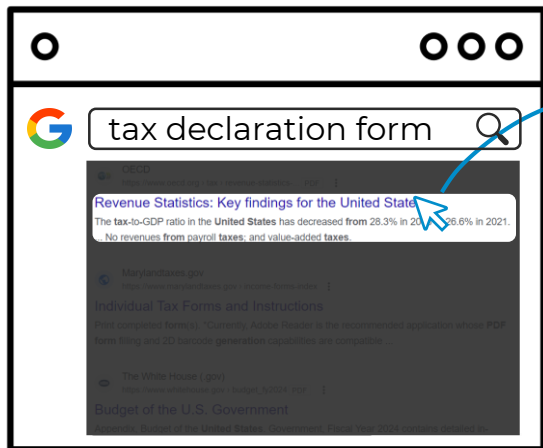


Execution of a Clickbait PDF Attack



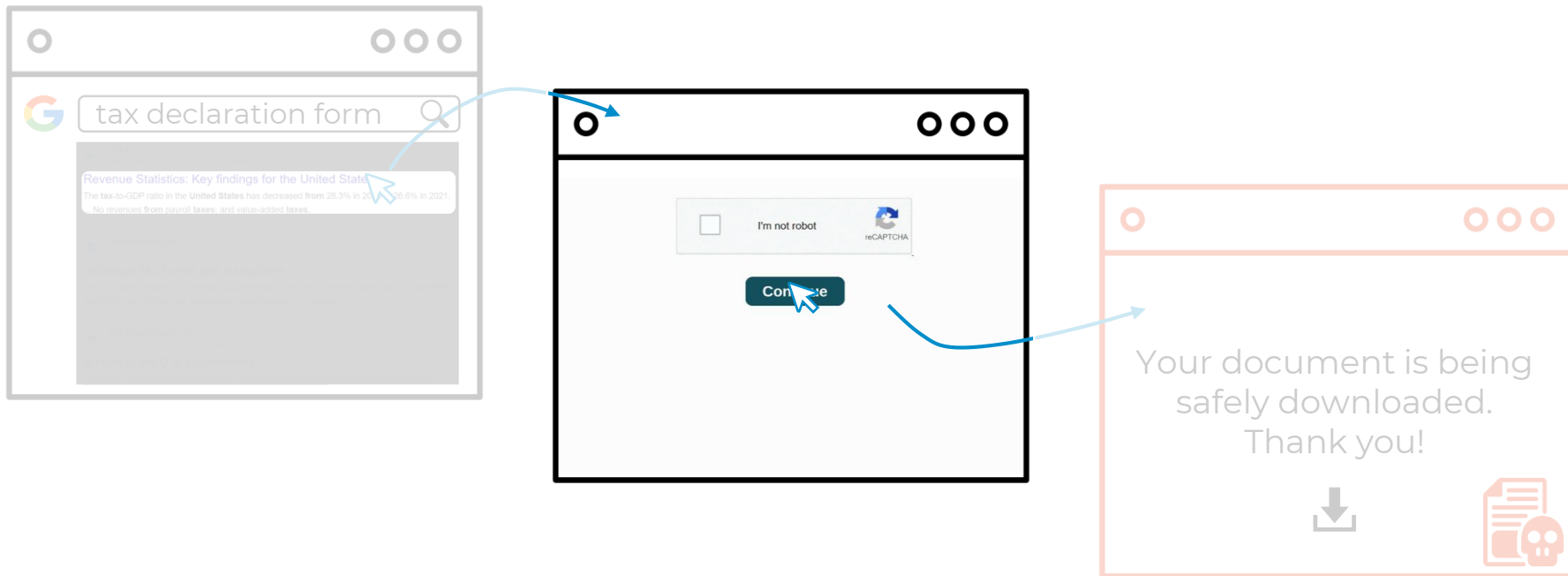


Execution of a Clickbait PDF Attack



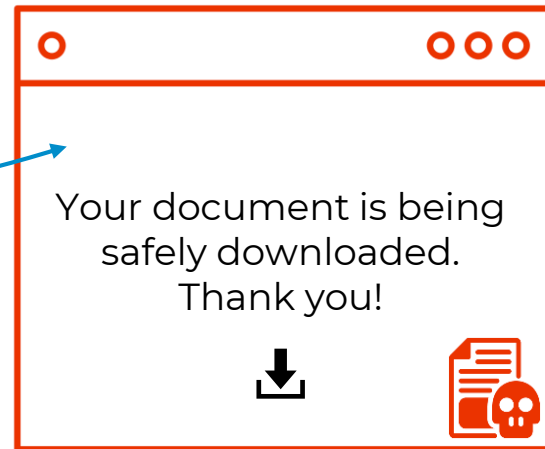
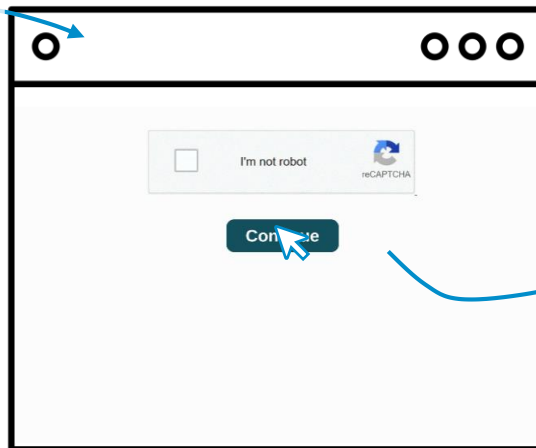
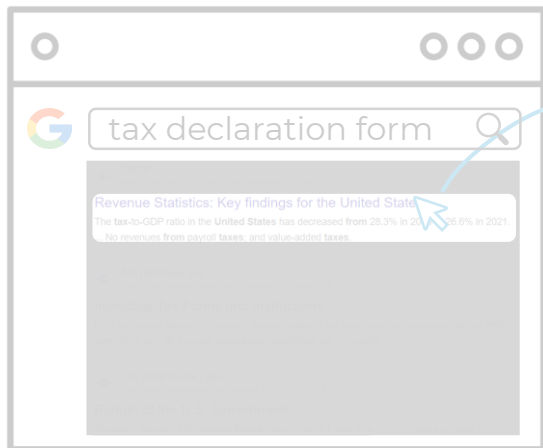


Execution of a Clickbait PDF Attack



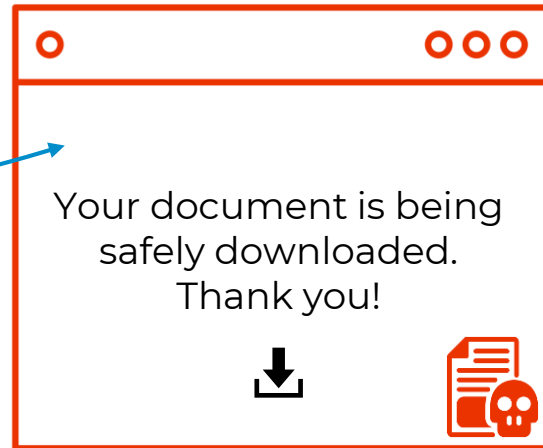
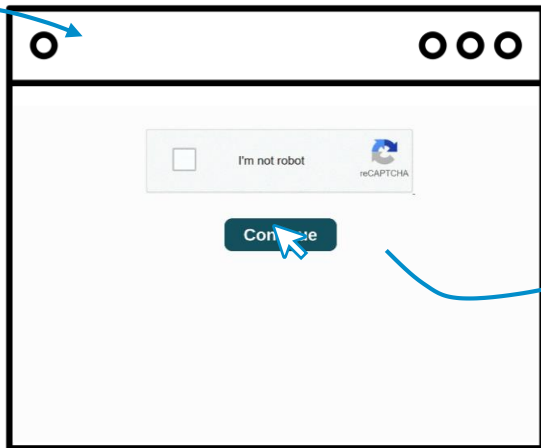
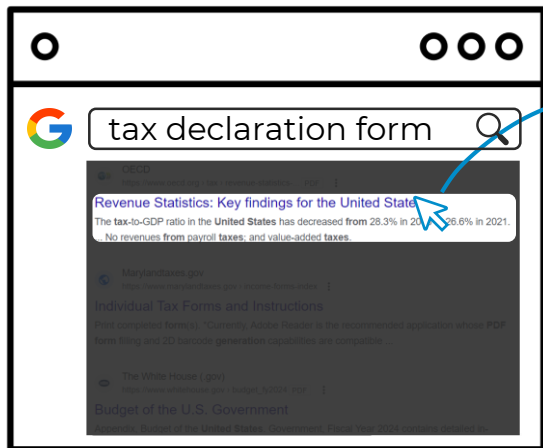


Execution of a Clickbait PDF Attack





Execution of a Clickbait PDF Attack





Scope and Research Questions

Millions of **Clickbait PDFs** online [1, 2]

2020 Phishing Trends With PDF Files

66,962 people reacted

43

19 min. read

By Ashkan Hosseini and Ashutosh Chitwadgi

April 5, 2021 at 6:00 PM

Category: **Unit 42**

Tags: **malvertising, Phishing**



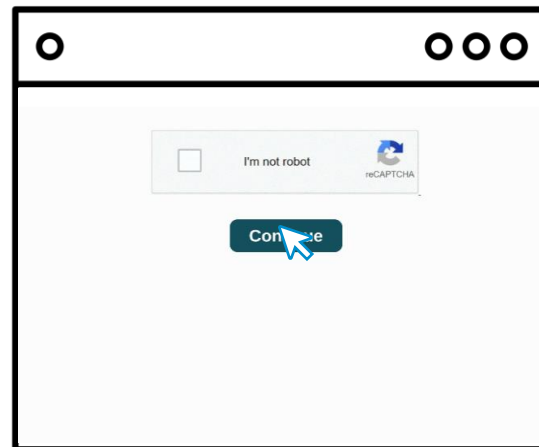
Microsoft Threat Intelligence

@MsftSecIntel

Follow ...

Operators of the malware known as SolarMarker, Jupyter, other names are aiming to find new success using an old technique: SEO poisoning. They use thousands of PDF documents stuffed w/ SEO keywords and links that start a chain of redirections eventually leading to the malware.

11:17 pm · 11 Jun 2021



[1] <https://unit42.paloaltonetworks.com/phishing-trends-with-pdf-files/>

[2] <https://twitter.com/MsftSecIntel/status/1403461397283950597>

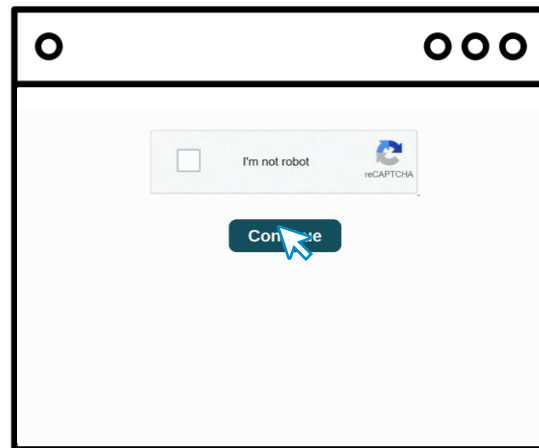


Scope and Research Questions

Millions of [Clickbait PDFs](#) online [1, 2]

We characterize:

- Volume and duration
- Textual and visual baits
- Web attacks
- Distribution methods



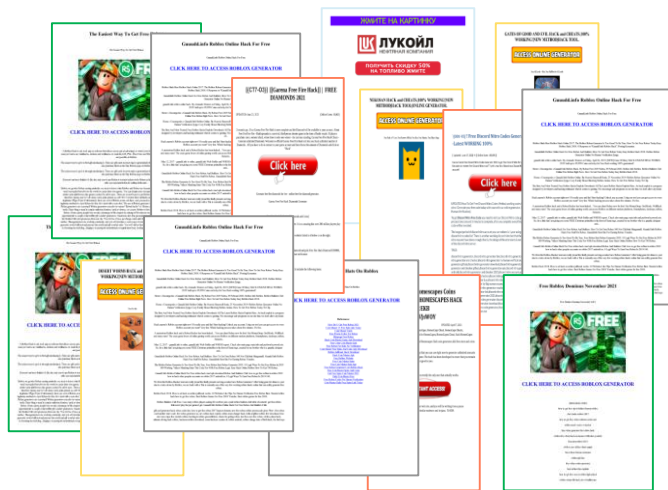
[1] <https://unit42.paloaltonetworks.com/phishing-trends-with-pdf-files/>

[2] <https://twitter.com/MsftSecIntel/status/1403461397283950597>



Data Collection

- Collected 176,208 PDFs with unique SHA256, shared by industrial partners

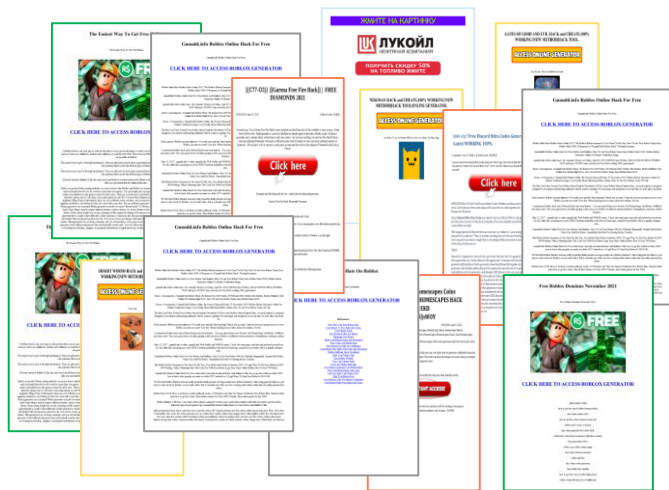


INQUEST LABS





Data Collection



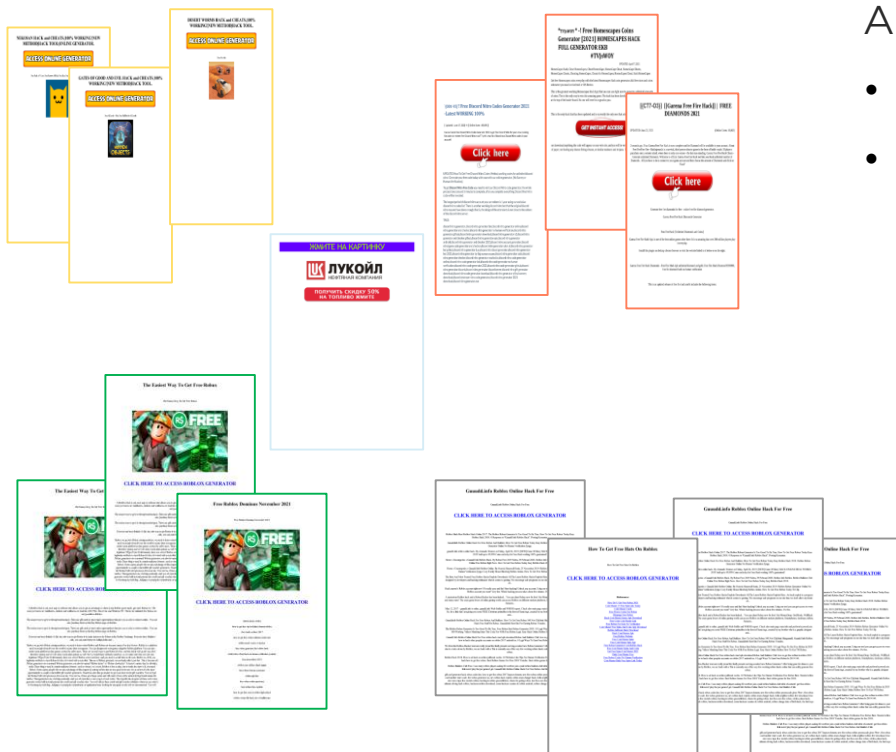
- Collected 176,208 PDFs with unique SHA256, shared by industrial partners
- PDFs do not embed malicious code:
 - Used VirusTotal tags js-embedded, file-embedded, exploit, cve-xxxx, and launch-action

INQUEST LABS





Characterizing Clickbait PDFs at Scale

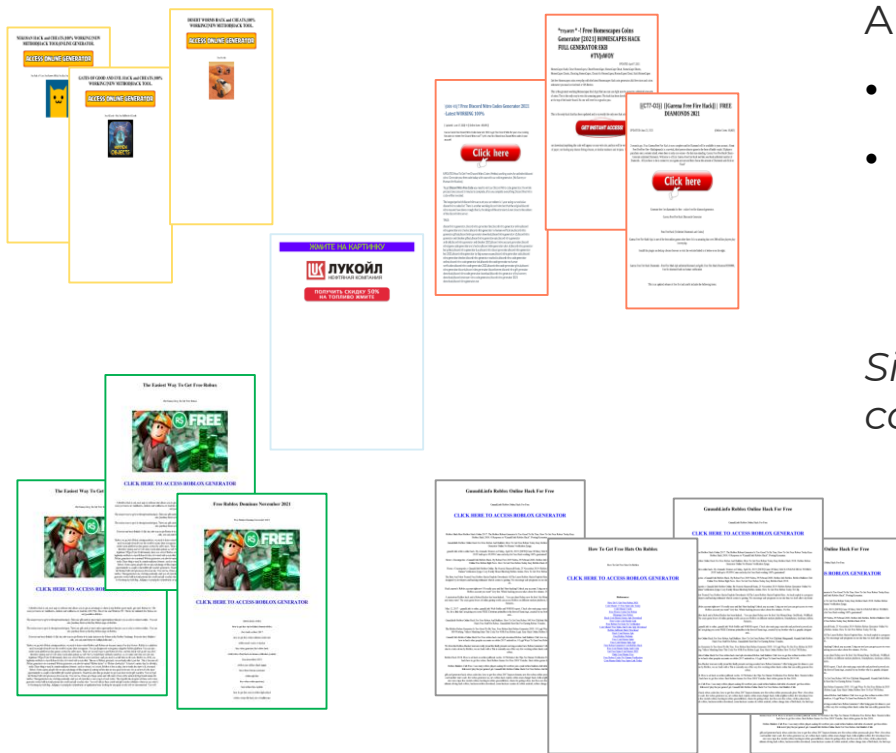


Analyze feed of PDFs

- At scale
- Daily



Characterizing Clickbait PDFs at Scale



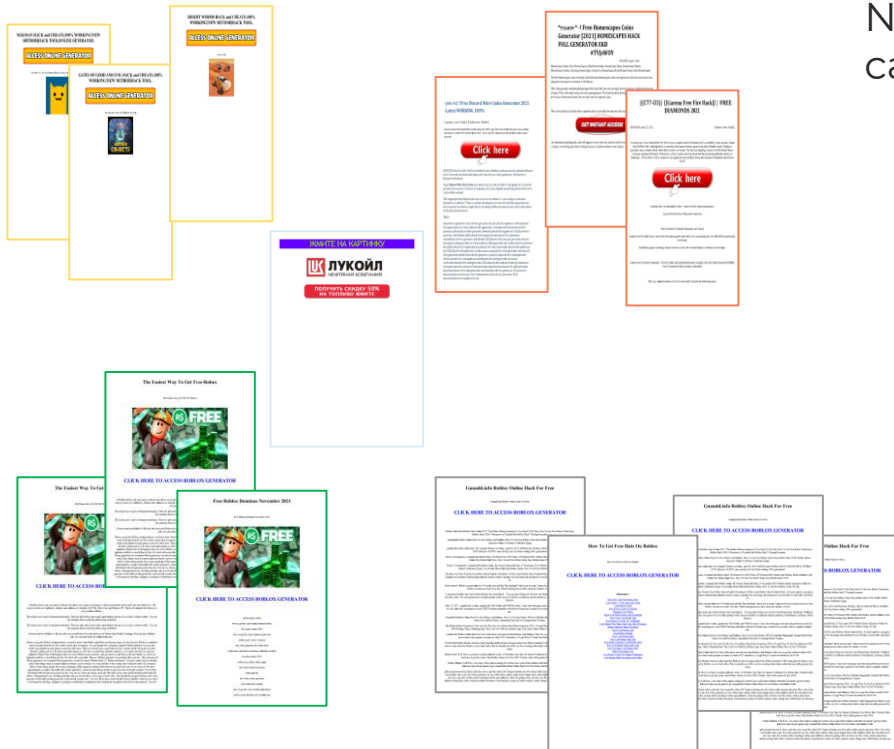
Analyze feed of PDFs

- At scale
- Daily

Similarity metrics to reduce complexity of task



Characterizing Clickbait PDFs at Scale

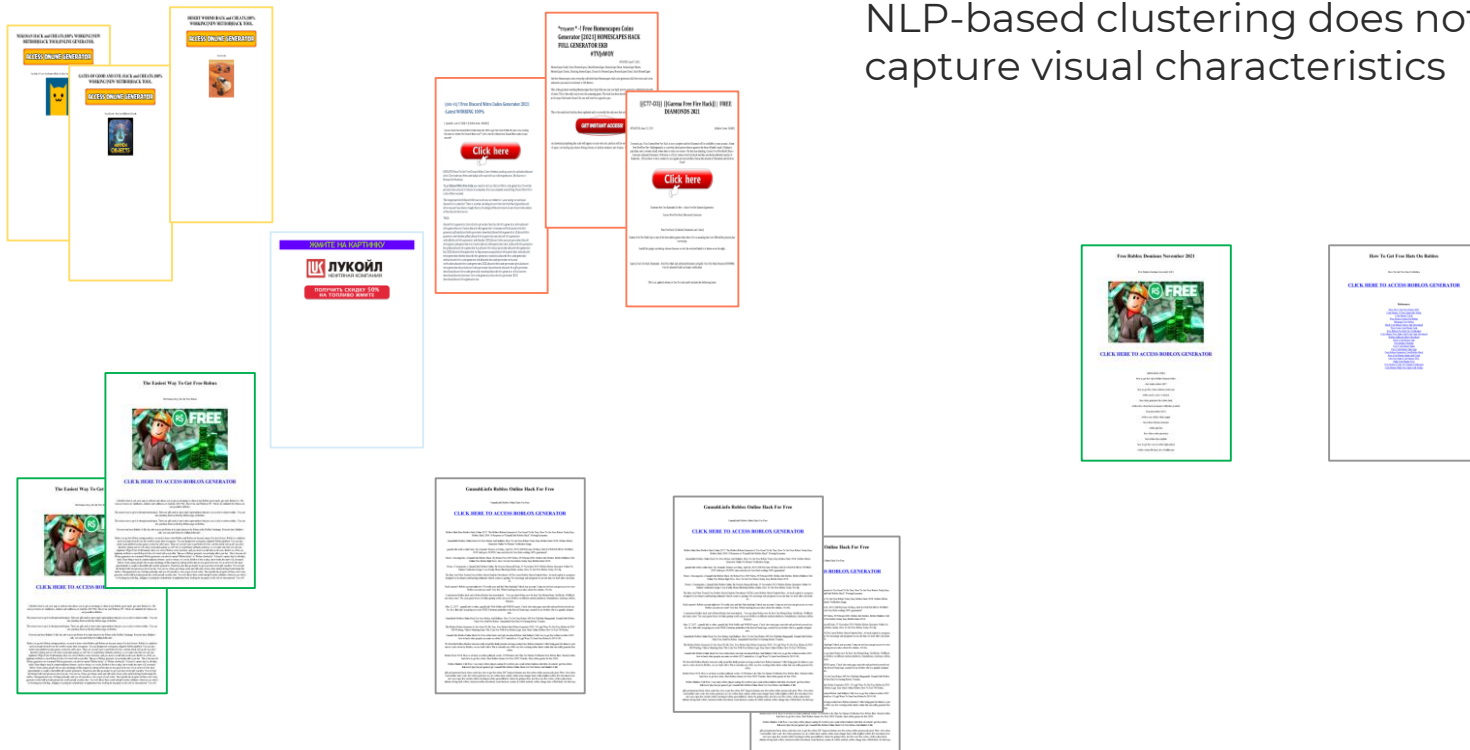


NLP-based clustering does not capture visual characteristics



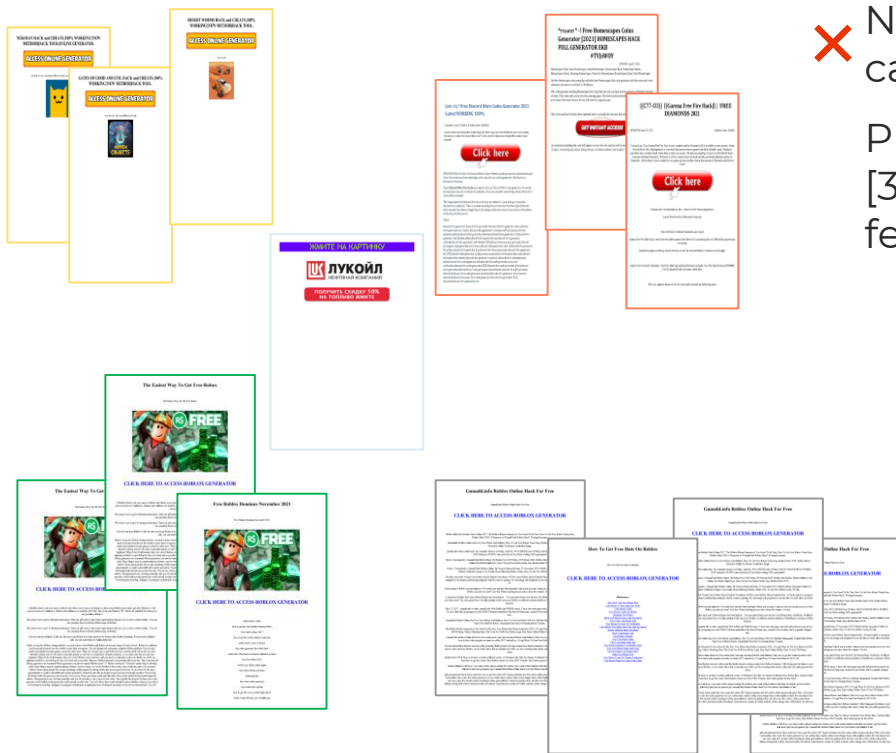
Characterizing Clickbait PDFs at Scale

NLP-based clustering does not capture visual characteristics





Characterizing Clickbait PDFs at Scale



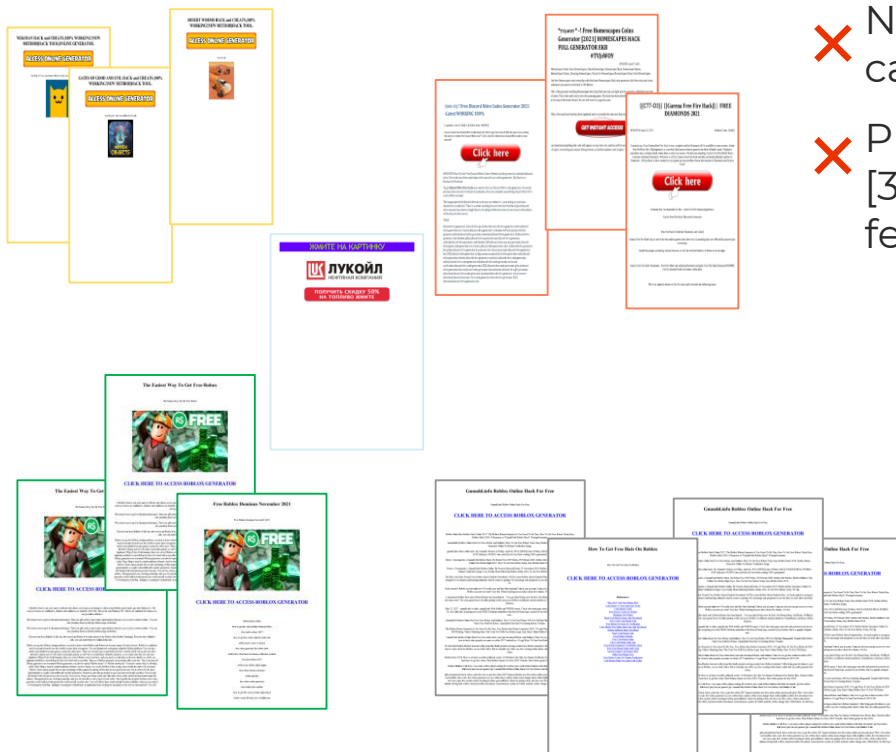
✗ NLP-based clustering does not capture visual characteristics

PDF structure-based techniques [3, 4] select unrelated structure features

- [3] Šrnđić, N. et al. "Detection of Malicious PDF Files Based on Hierarchical Document Structure." NDSS 2013
- [4] Chen, Yizheng, et al. "On training robust PDF malware classifiers." 29th USENIX 2020



Characterizing Clickbait PDFs at Scale

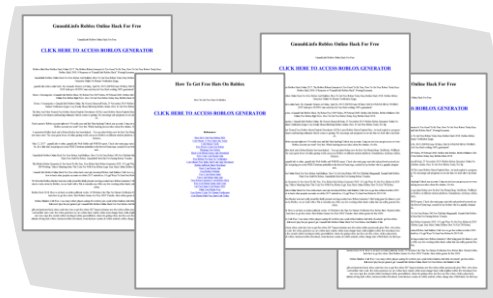
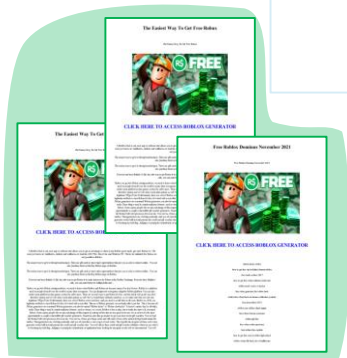


- ✗ NLP-based clustering does not capture visual characteristics
- ✗ PDF structure-based techniques [3, 4] select unrelated structure features

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Characterizing Clickbait PDFs at Scale

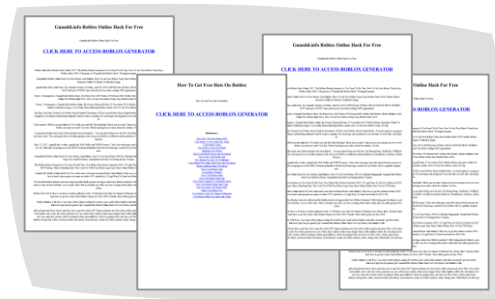
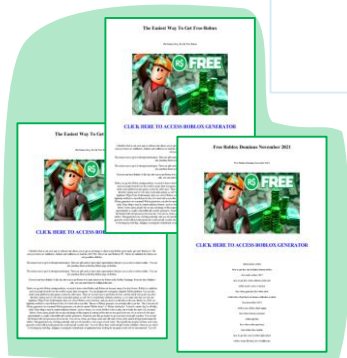


NLP and PDF structural similarity techniques ineffective for clustering

Leverage **visual similarities** in images on the **first page** of clickbait PDFs



Characterizing Clickbait PDFs at Scale



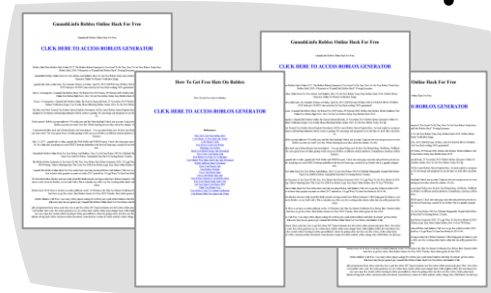
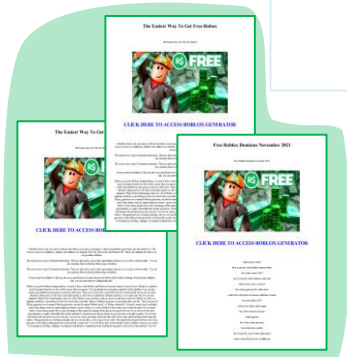
NLP and PDF structural similarity techniques ineffective for clustering

Leverage **visual similarities** in images on the **first page** of clickbait PDFs

- Unknown number of unique baits



Characterizing Clickbait PDFs at Scale



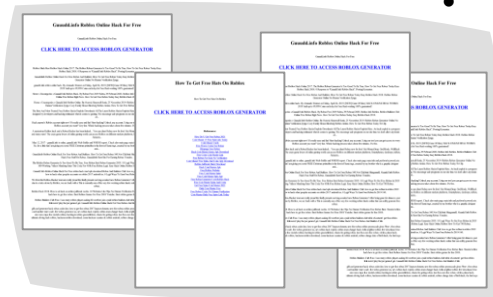
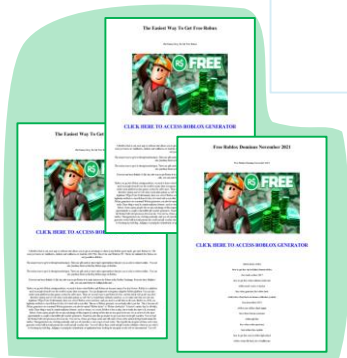
NLP and PDF structural similarity techniques ineffective for clustering

Leverage **visual similarities** in images on the **first page** of clickbait PDFs

- Unknown number of unique baits
- Unknown distribution across dataset



Characterizing Clickbait PDFs at Scale



NLP and PDF structural similarity techniques ineffective for clustering

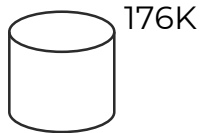
Leverage **visual similarities** in images on the **first page** of clickbait PDFs

- Unknown number of unique baits
 - Unknown distribution across dataset
- **DeepCluster** [5]: CNN with k-means clustering

[5] Caron, Mathilde, et al. "Deep clustering for unsupervised learning of visual features." ECCV 2018

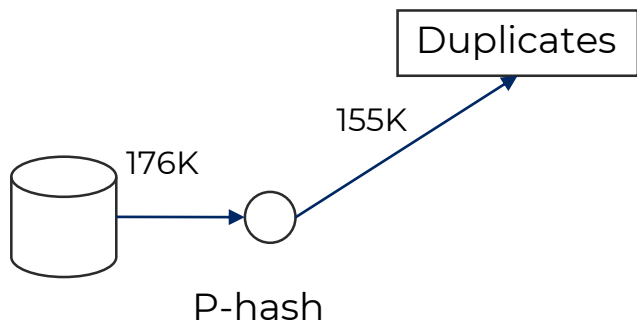


Manually-Aided Clustering



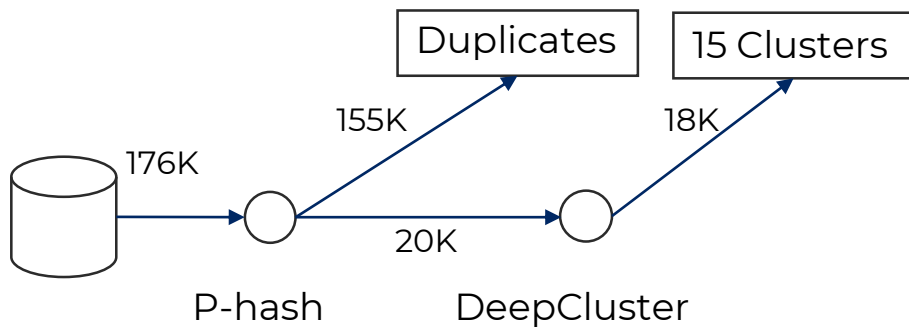


Manually-Aided Clustering



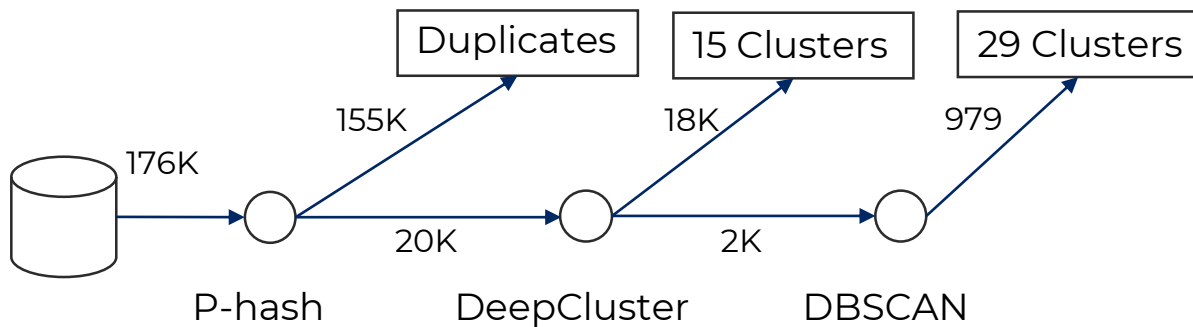


Manually-Aided Clustering



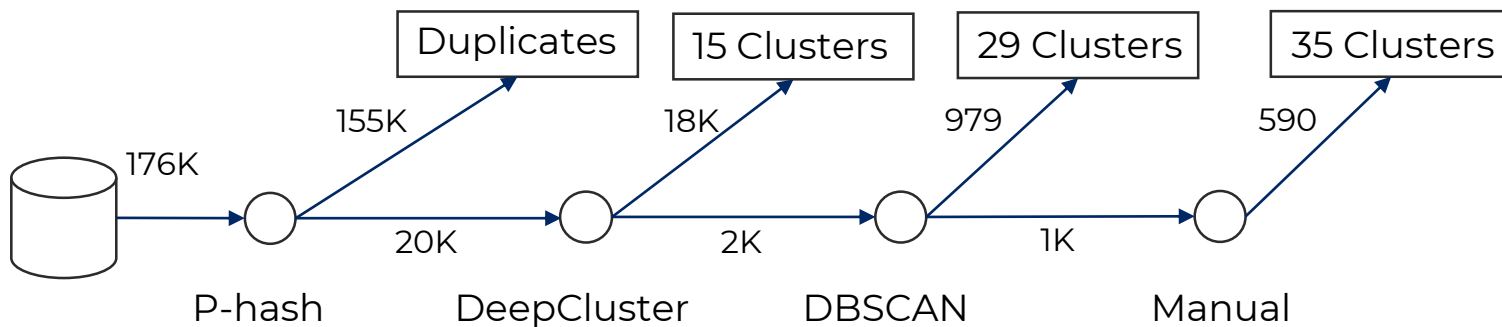


Manually-Aided Clustering



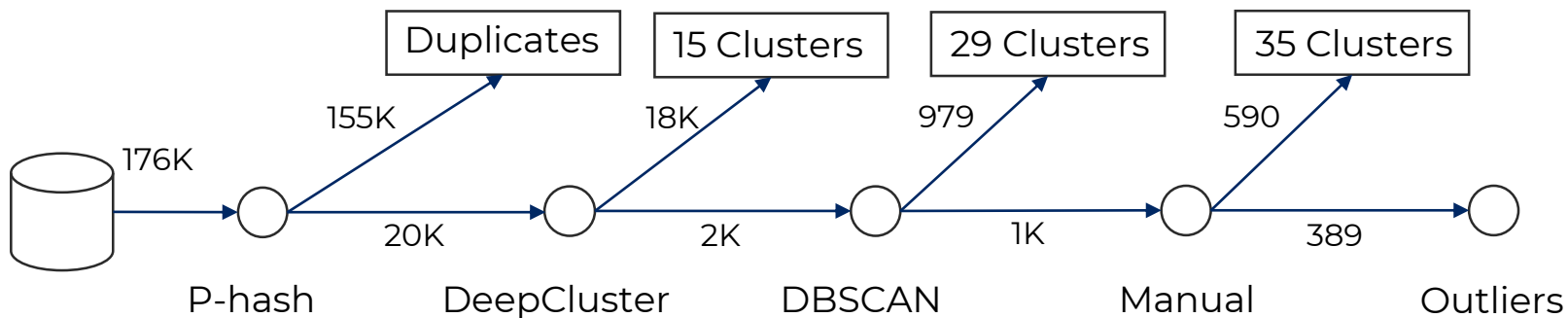


Manually-Aided Clustering





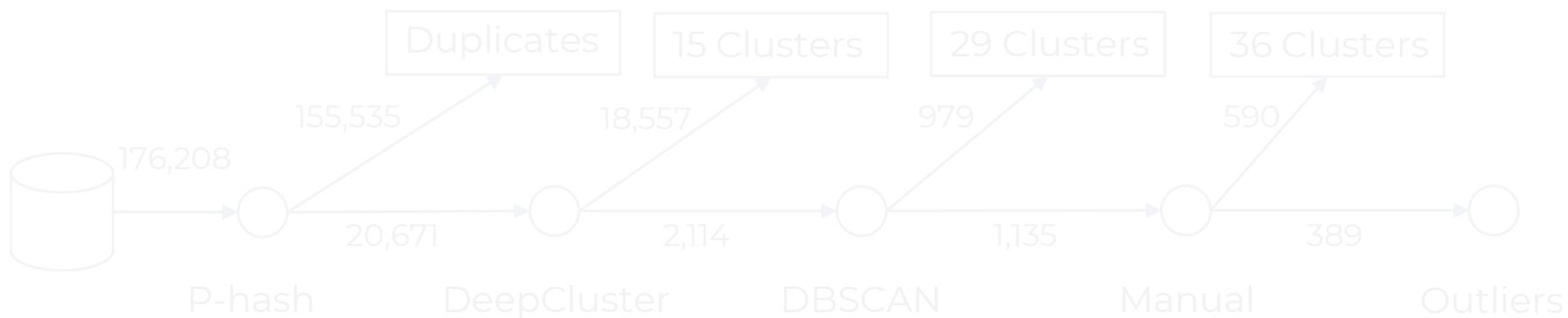
Manually-Aided Clustering



80 clusters, including Outliers



Manually-Aided Clustering



80 clusters, including Outliers



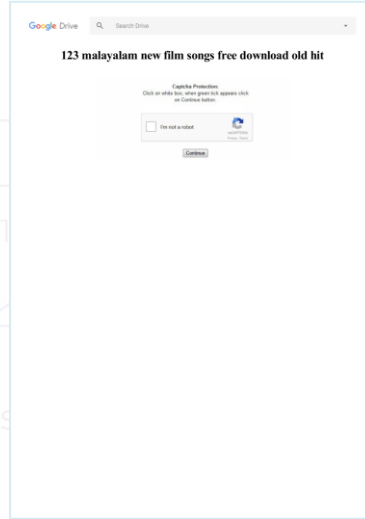
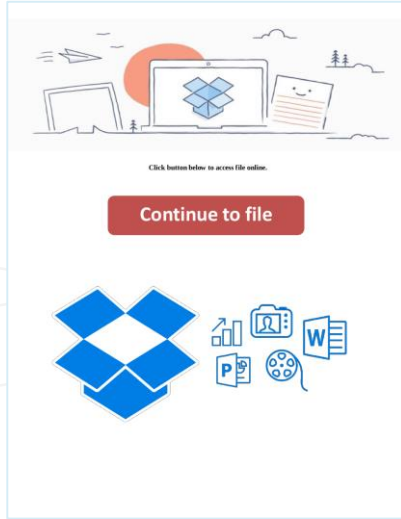
Manually-Aided Clustering



80 clusters, including Outliers.



Manually-Aided Clustering

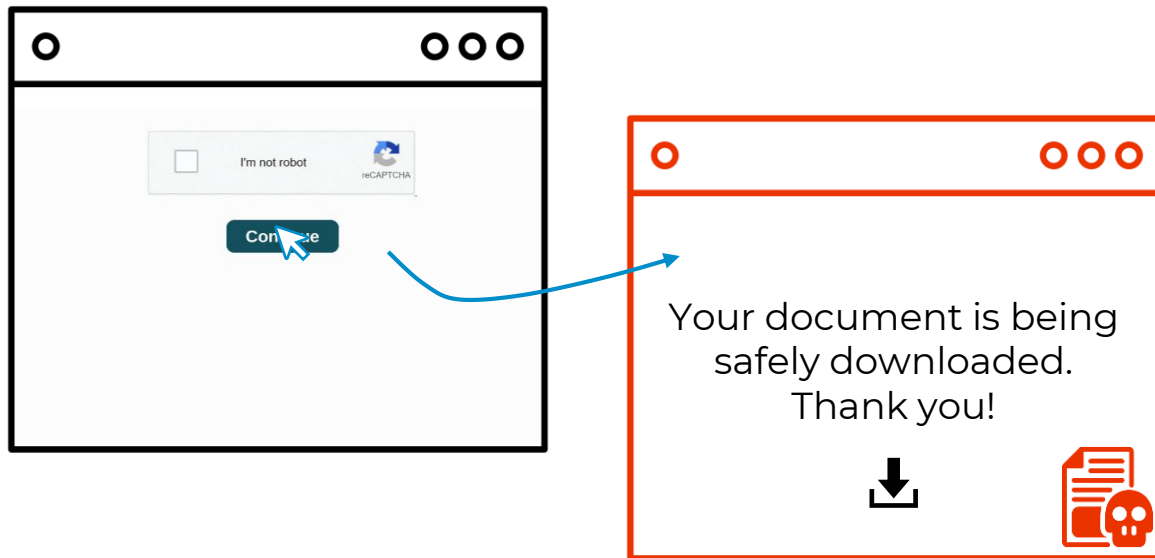


80 clusters, including Outliers



Determining Maliciousness

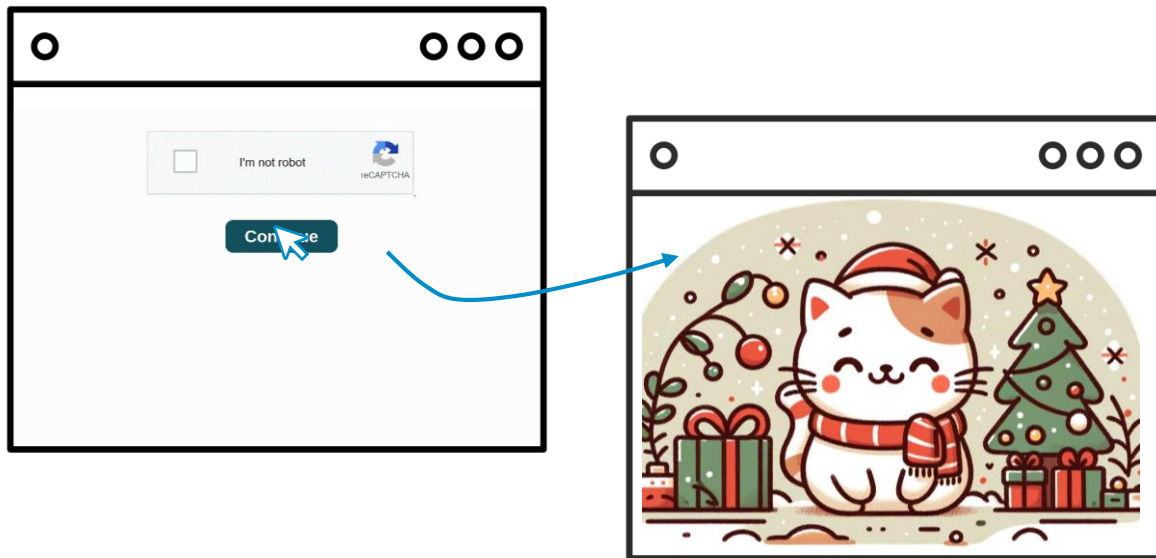
- PDF considered as malicious when its first-page URL leads to a [Web attack](#)





Determining Maliciousness: Challenges

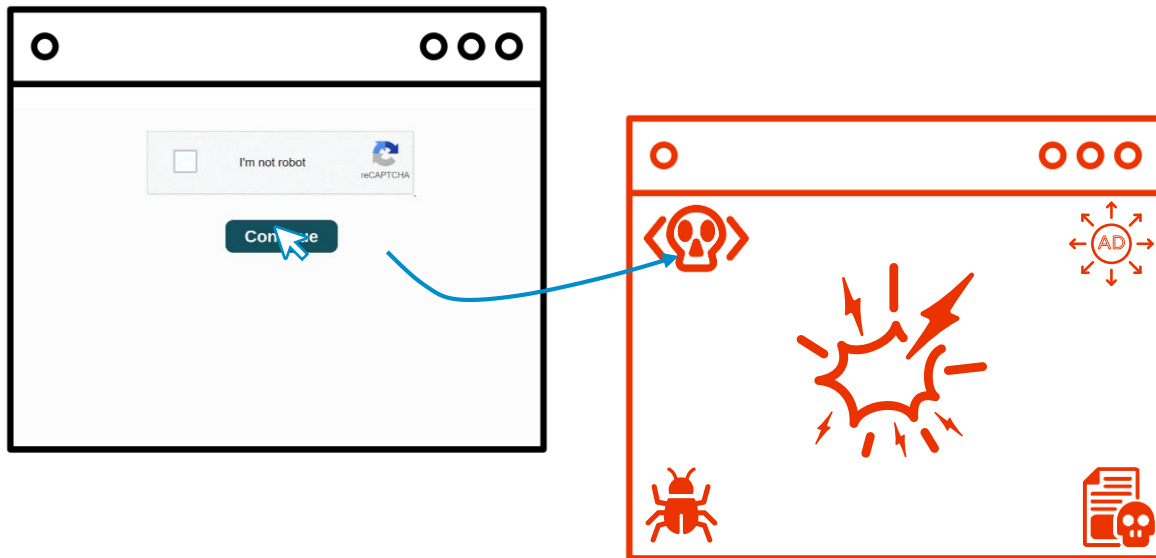
- PDF considered as malicious when its first-page URL leads to a [Web attack](#)
- Challenges: [technical](#) (evasion, multiple attacks)





Determining Maliciousness: Challenges

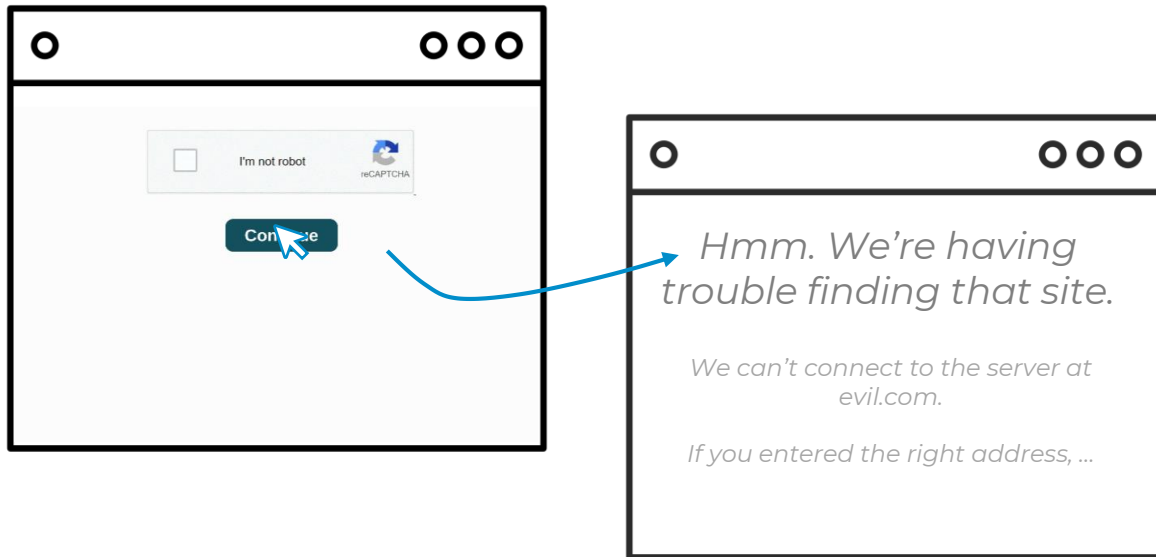
- PDF considered as malicious when its first-page URL leads to a [Web attack](#)
- Challenges: [technical](#) (evasion, multiple attacks)





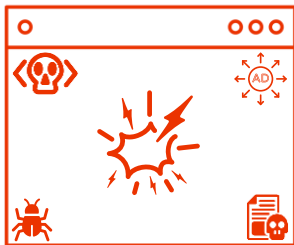
Determining Maliciousness: Challenges

- PDF considered as malicious when its first-page URL leads to a [Web attack](#)
- Challenges: technical (evasion, multiple attacks), [temporal](#) (short lifespan)





Determining Maliciousness: Methodology



Multiple attacks



Evasion



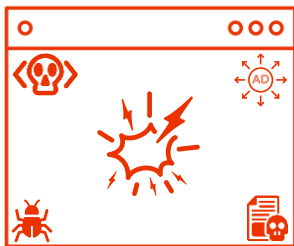
Attack page offline

Hybrid approach:

- Third-party URL analysis service w/ historical records
- Manual analysis



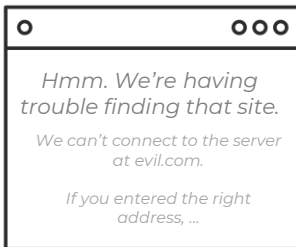
Determining Maliciousness: Methodology



Multiple attacks



Evasion



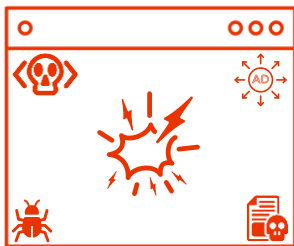
Attack page offline

Hybrid approach:

- Third-party URL analysis service w/ historical records
 - VirusTotal Premium: 20K URL analysis reports
- Manual analysis



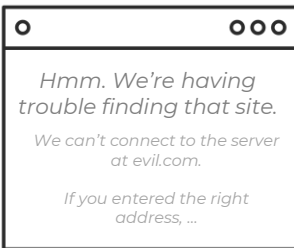
Determining Maliciousness: Methodology



Multiple attacks



Evasion



Attack page offline

Hybrid approach:

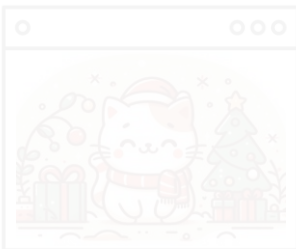
- Third-party URL analysis service w/ historical records
 - VirusTotal Premium: 20K URL analysis reports
- Manual analysis
 - 722 URLs validated



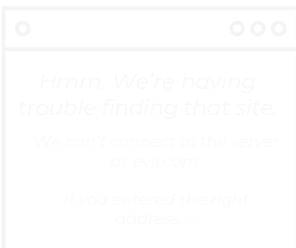
Determining Maliciousness: Results



Multiple attacks

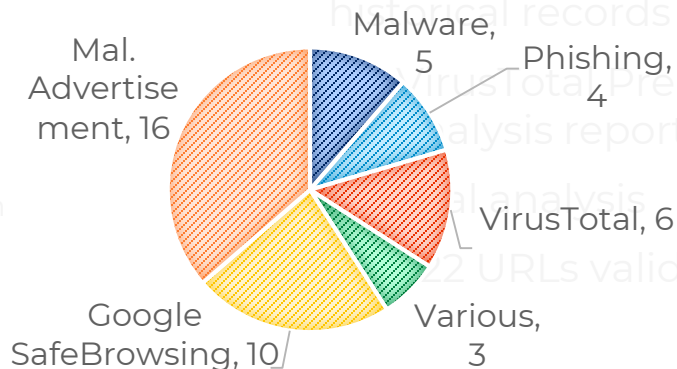


Evasion



Attack page offline

Hybrid approach:
44 clusters lead to Web attacks



- Third-party URL analysis service w/ historical records
- VirusTotal Premium: 20K URL analysis reports
- VirusTotal analysis
- 22 URLs validated



Clusters Visual and Volumetric Properties

Impersonation

Error
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NETFLIX

Ihr Konto wird gehalten.

Bitte aktualisieren Sie Ihre Zahlungsdaten

Hi
Wir haben Probleme mit Ihren aktuellen Rechnungsinformationen. Wir werden es erneut versuchen, aber in der Zwischenzeit möchten Sie möglicherweise Ihre Zahlungsdetails aktualisieren.

Wenn Sie glauben, dass dies ein Fehler ist, bieten wir eine einmalige Reaktivierung Ihres Abonnements für 1 Tag an.

Wenn dieses Problem nicht behoben wird, werden Ihr Abonnement und alle Daten in Ihrem

I'm not robot

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AKTUALISIEREN

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LAST UPDATED: 08 April 6, 2022
(CURRENT COINS: 2000)
1 FREE ACCESS HERE!

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Clusters Visual and Volumetric Properties

Impersonation

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Wenn dieses Problem nicht behoben wird, werden Ihr Abonnement und alle Daten in Ihrem Konto gelöscht.

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Clusters Visual and Volumetric Properties

Impersonation

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5000 BTC GIVEAWAY

SpaceX, Future of Crypto, Investments

ELON MUSK

Click to get free BTC

QBZLEH Free Pokemon Go Coins Generator [UPDATED] HACK FOR POKEMON GO FULL GENERATOR BT

START UPDATED: 8th April, 2022

CURRENT COINS: 0/100

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Roblox Earn Free Robux

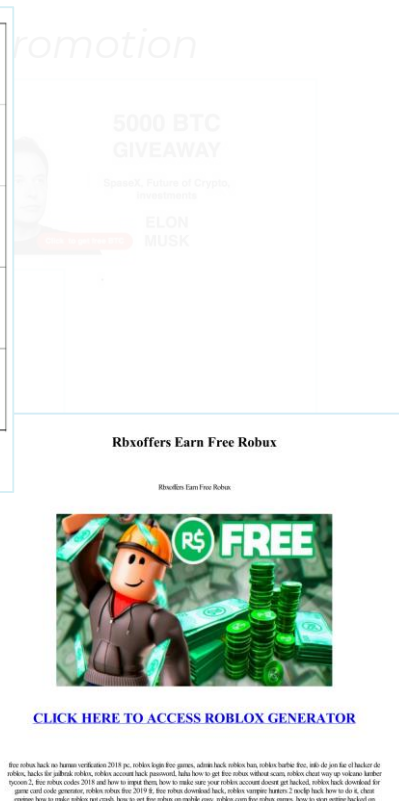
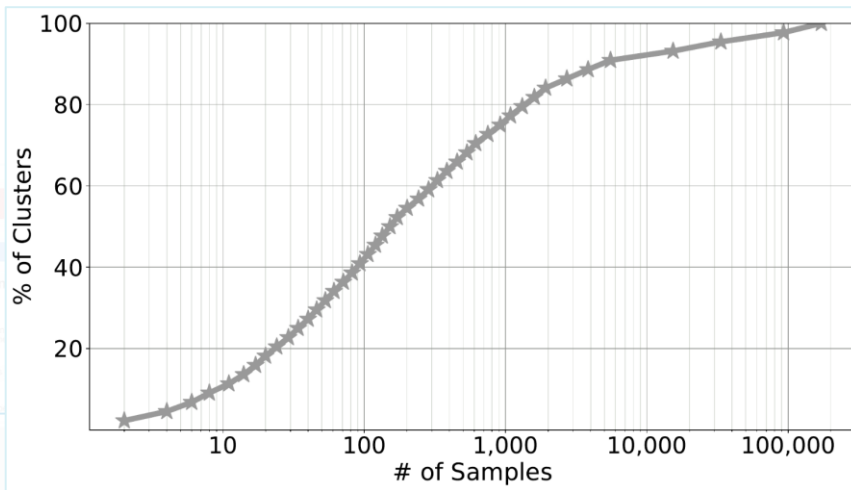
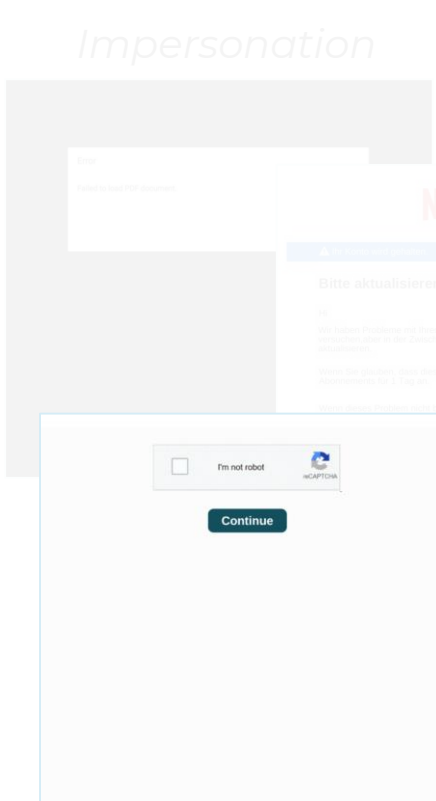
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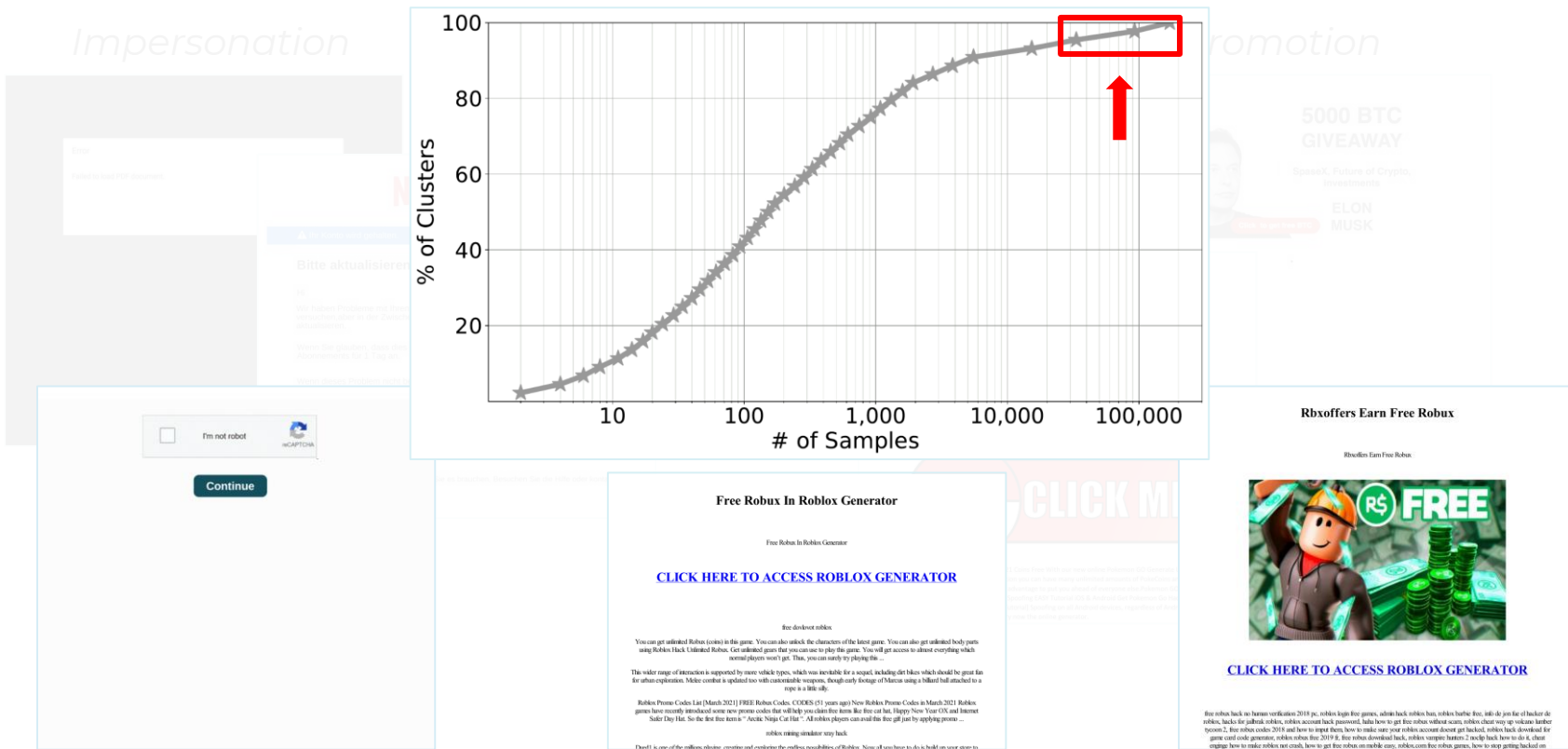


Clusters Visual and Volumetric Properties



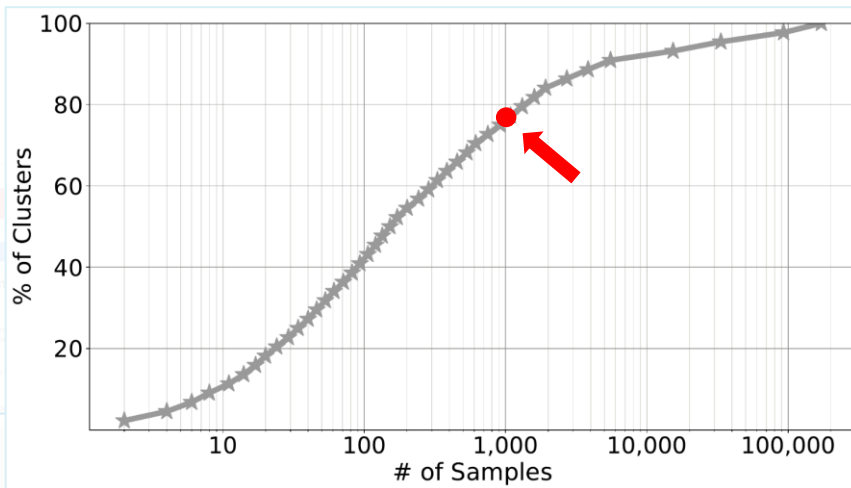
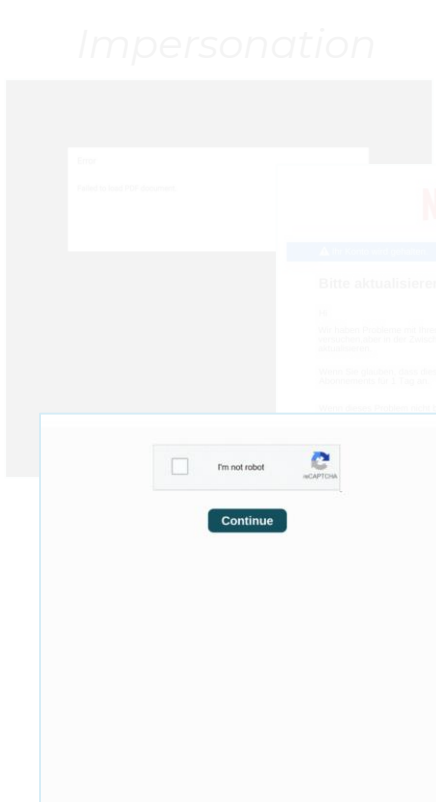


Clusters Visual and Volumetric Properties





Clusters Visual and Volumetric Properties



Free Robux In Roblox Generator

Free Robux In Roblox Generator

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You can get unlimited Robux (coins) in the game. You can also unlock the characters of the latest game. You can also get unlimited body parts using Roblox Hack Unlimited Robux. Get unlimited gear that you can use to play the game. You will get access to almost everything which normal players need get. This you can easily try yourself.

The wider range of interaction is supported by more vehicle types, which was inevitable for a sequel, including dirt bikes which should be great fun for urban explorations. Motor combat is updated too with customizable weapons, though only footage of Maraca using a billboard ball attached to a rope is still able.

Roblox Prime Codes List [March 2021] [FREE] Robux Codes. CODES 01 years ago New Roblox Prime Codes in March 2021 Roblox games have recently introduced some new promo codes that will help you claim free items like free cat hat, Happy New Year OX and Internet Sudo Day Hat. So for the first time "Ocean Naga Cat Hat". All Roblox players can now claim the free gift just by applying promo...

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Rbxoffers Earn Free Robux

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Distribution Vectors

Second and last page

First page

Indicators of Search Engine Optimization (SEO) attacks:

- Keyword stuffing
- Cross-linking of resources
- Benign websites

Can clickbait PDFs achieve high search engine rankings?

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Verifying SEO Distribution: Methodology

Second and last page

Challenges:

- Clickbait PDF titles not popular
- Popular clickbait PDFs taken down

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Free Robux Generator: How Many Free Robux You Want? 1500 Robux 3000 Robux 10000 Robux 20000 Robux (Limited Time) Continue

Roblox is the most popular online game, and it's a great way to spend your time. But if you're looking for more Robux, you can use a generator. There are many generators out there, but not all are created equal. Some are better than others, and some are worse. So how do you know which one is the best? Well, the answer is simple: look for a generator that has a good reputation. Look for a generator that has a lot of positive reviews and a high rating. And most importantly, look for a generator that is safe to use. You don't want to give your personal information to a generator that is a scam. So, before you use a generator, do your research. Read the reviews, and make sure you're using a generator that is safe and reliable. That way, you can get the most out of your Roblox experience. And remember, always use a generator responsibly. Don't use a generator to cheat or to get an unfair advantage. Just use it to help you out when you're in a pinch. That's the best way to use a generator, and that's the best way to get the most out of your Roblox experience.

1 million free robux | Roblox 1.17.5.584081 UNOFFICIAL ROBLOX ROBUX GENERATOR - Free Robux generator! (only on Landex) - roblox.com/robloxgenerator/1.17.5.584081/unofficial-roblox-generator/

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Verifying SEO Distribution: Methodology

Second and last page

First page

Challenges:

- Clickbait PDF titles not popular
- Popular clickbait PDFs taken down

Solution:

- Find **unseen**, freshly-uploaded clickbait PDFs





Verifying SEO Distribution: Methodology

Second and last page

First page

Challenges:

- Clickbait PDF titles not popular
- Popular clickbait PDFs taken down

Solution:

- Find **unseen, freshly-uploaded** clickbait PDFs
- Use title as search query on popular SEs (Google, Bing)



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Verifying SEO Distribution: Methodology

Second and last page

Challenges:

- Clickbait PDF titles not popular
- Popular clickbait PDFs taken down

Solution:

- Find **unseen, freshly-uploaded** clickbait PDFs
- Use title as search query on popular SEs (Google, Bing)

Success criteria:

- **Direct match:** URL of originating PDF found
- **Cross-link:** PDF uses cross-linking

First page

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Verifying SEO Distribution: Results

Second and last page

Challenges:

- Clickbait PDF titles not popular
- Popular clickbait PDFs taken down

Solution:

- Find **unseen, freshly-uploaded** clickbait PDFs
- Use title as search query on popular SEs (Google, Bing)

Success criteria:

- **Direct match:** URL of originating PDF found
- **Cross-link:** PDF uses cross-linking

First page



- Bing: **direct** (3K, 60/day) and **cross-link match** (6K, 104/day)
- Google: **cross-link match** (925, 16/day)

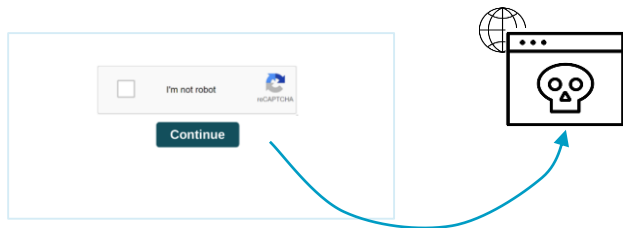
Many well-defined visual baits



Many well-defined **visual baits**



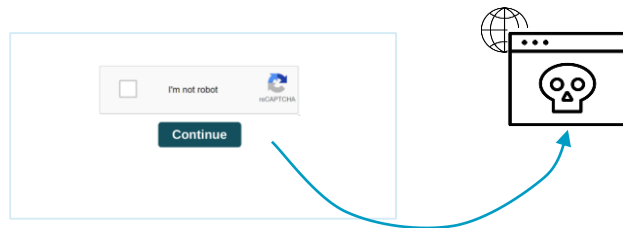
Clickbait PDFs in **Web context**



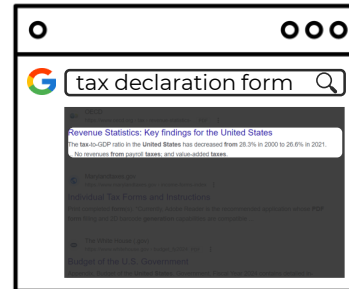
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Clickbait PDFs in **Web context**



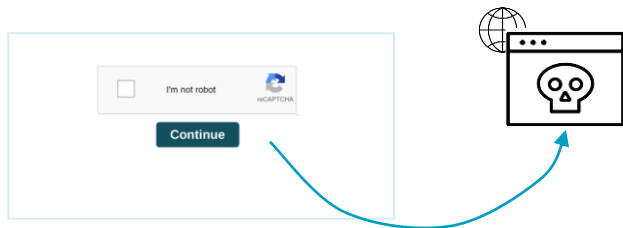
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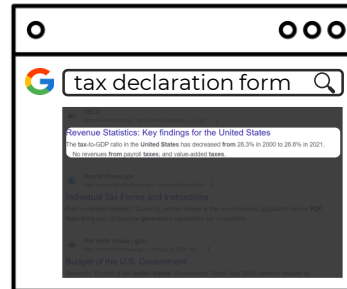
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Clickbait PDFs in **Web context**



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Thank you! Questions?



giada.stivala@cispa.de

 [g_stivala](#)

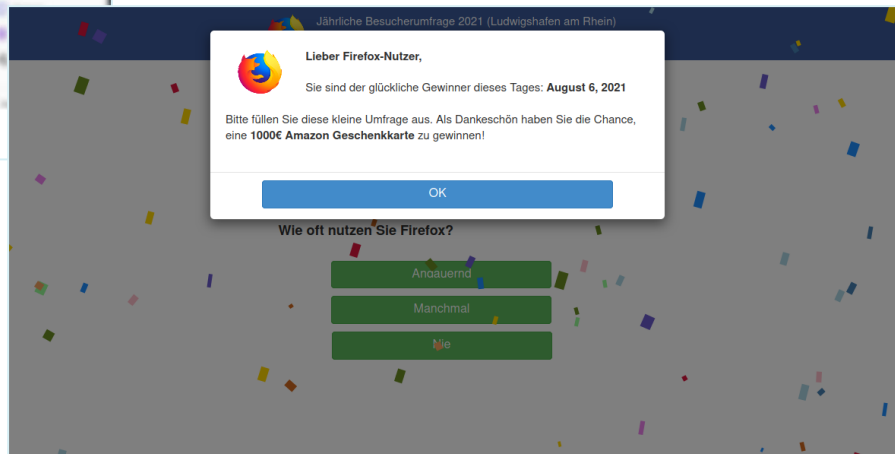
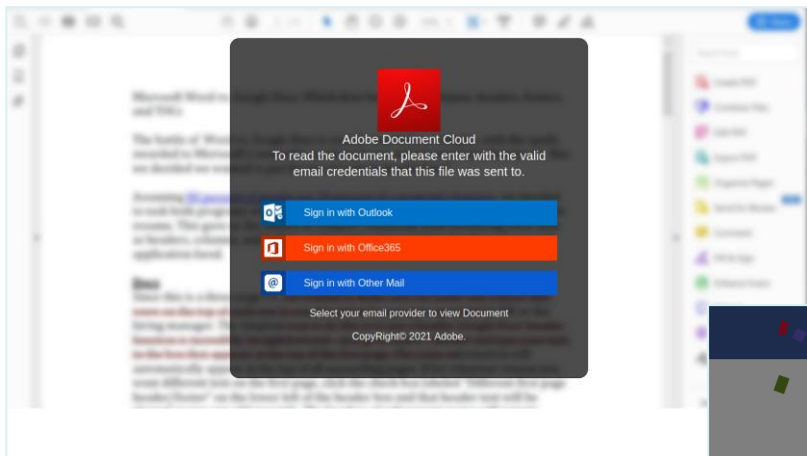


Backup Slides





Example Attacks





Email as Distribution Vector

Ideally: large dataset of emails available [4, 5]

Practical solution: VirusTotal tags (email-spam, attachment) and spamtrap

Spamtrap

- 68 hits for 19 files
- Seven clusters

VirusTotal tags

- 65 files in six clusters
- No match for email-spam

- Three largest clusters not in matches
- Distribution vector, but on a much lower scale

[4] Simoiu, Camelia, et al. "Who is targeted by email-based phishing and malware? measuring factors that differentiate risk." *Proceedings of the ACM Internet Measurement Conference*. 2020.

[5] <https://www.mxmaildata.com/>



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Unlock Free Robux FAST! 1. Please enter your roblox username and select your platform.

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Before we get into Robux earning methods, we need to know what Roblox and Robux are because many of us don't know. Roblox is a platform used by people from all over the world to create their own games. You can design your own games using the Roblox platform. You can also use the same platform to play games created by other users. There are several ways to get Robux for free, and this article will guide you all of these free options and we will share some paid options as well. We've tested these methods ourselves, so we make sure they are safe and legitimate. Unfortunately, there are a lot of Robux scams out there, and you need to avoid them at all costs. Before we offer you legitimate methods to earn Robux for free, let's deal with a scam first. The use of Robux generator can seriously affect your finances. This is because all



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19 окт. 2018 | Комментарий

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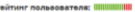


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Уважаемые друзья! Мы рады сообщить о выходе нового выпуска учебника по программированию микроконтроллеров для начинающих. Учебник доступен для скачивания по ссылке: [ссылка]

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Задача 2. программирование микроконтроллеров для начинающих. [ссылка]

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 legitimate methods to earn Robux for free, let's deal wit





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Страница 2. программирование микроконтроллеров для микроплат.2. Файлообменник 2.2

Страница 3. программирование микроконтроллеров для микроплат.3. Файлообменник 3.3

САВЕЛИЙ

Пункт!!! Там же даже можно - когда не сможет не работать, и где работать, и где работать! На всякий случай дополнительно переписаны код след - другие!

Free Robux Amount: How Many Free Robux You Want
 Before we get into Robux earning methods, we need to use by people from all over the world to create their own game. We use this platform to play games created by other people. We have a lot of different options and we will share some paid options with you. Unfortunately, there are a lot of illegitimate methods to earn Robux for free, let's deal with





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Before we get into Robux earning methods, we need to used by people from all over the world to create their own game. Some platforms to play games created by other people are Roblox, Minecraft, and we will share some paid and free Robux. Unfortunately, there are a lot of scam methods to earn Robux for free, let's deal with...

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СВАБЕЛНИЙ

Пункт №11: Каким образом можно избежать наказания на работе, не являясь сотрудником, а при этом получить на работу деньги? Вспомогательные материалы: ...



Fake SE: Visual Bait and Malicious Webpage

Visual bait
embeds image
of search results

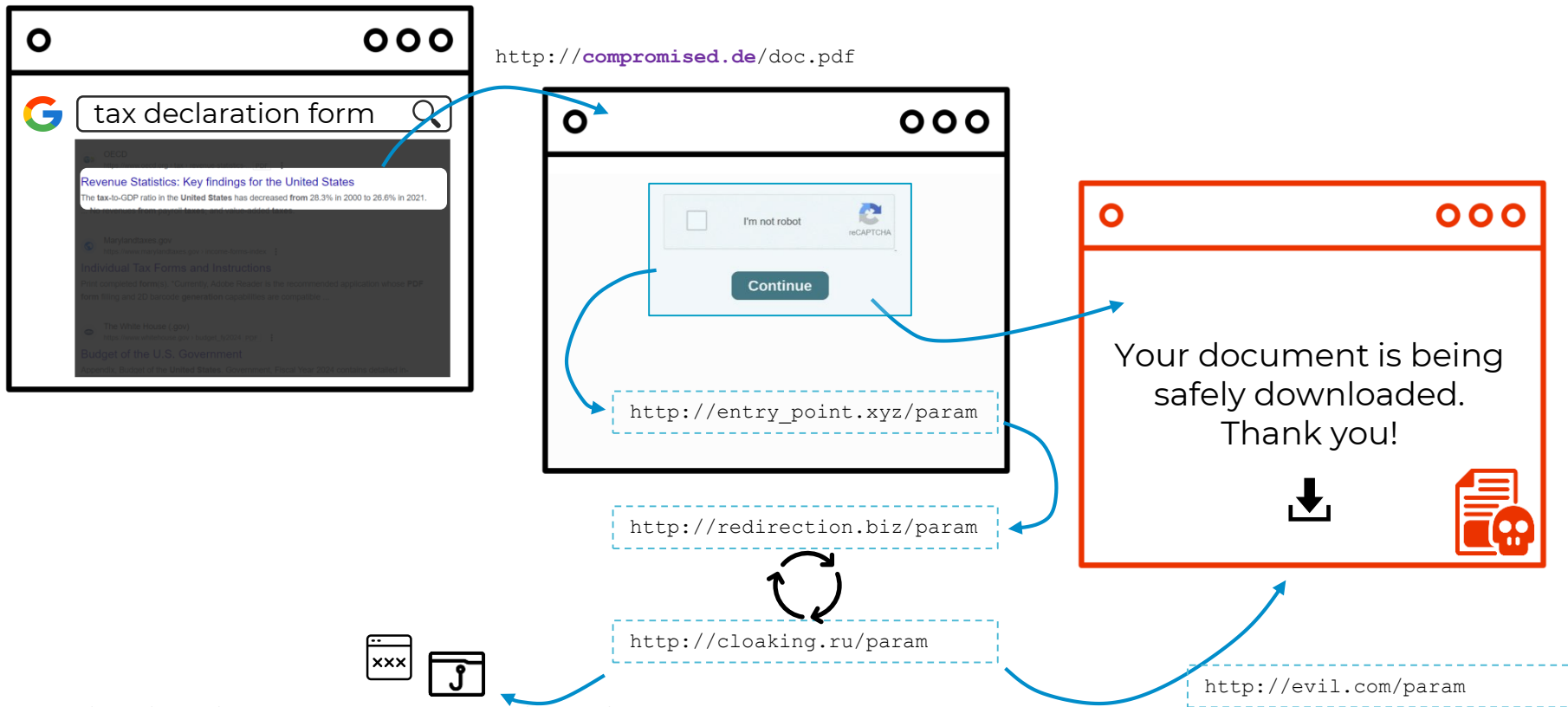
The screenshot shows a search engine interface with the query 'answers to level 2 stroke competency'. The top result is a PDF document titled 'answers to level 2 stroke competency.pdf' with a 'FREE PDF DOWNLOAD NOW!!!' call to action. Below the main results, there is a section for 'Related searches' containing links like 'answers to level 2 stroke competency test answers' and 'answers to level 2 stroke competency test answers'. The page layout is designed to look like a legitimate search engine results page.

The screenshot shows a webpage titled 'Aktien investieren' with a search bar at the top right. The content is a collection of financial tips and articles, such as 'Mit diesem Aktien-Tipp - Aktien Empfehlungen', 'In Aktien investieren Anfänger - 300+ Handelsinstrumente', and 'Aktien-Kaufempfehlung - Detailliert und deutlich'. The text is dense and appears to be a mix of legitimate advice and potentially misleading information, typical of a 'malicious' or 'visual bait' webpage.

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leads to webpage
acting as a
search engine



Clickbait PDF Attack Details





URL Maliciousness: Detailed Results

