



# DeepFakes Unmasked



**Candid Wüest**

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xorlab



# Which photo was generated by AI?



# DEEP FAKE



# DEEP FAKE



# DEEP FAKE

Source: <https://thispersondoesnotexist.com>



# DeepFake



# Business Email Compromise (BEC) Scams



**CNN** World

Africa

Americas

Asia

Australia

China

Europe

India

More ▾

World / Asia

## Finance worker pays out \$25 million after video call with deepfake 'chief financial officer'



By Heather Chen and [Kathleen Magramo](#), CNN

🕒 2 minute read · Published 2:31 AM EST, Sun February 4, 2024



# How to spot an imposter?

What's the dog's name?

# Virtual - Virtual Meeting



[TheVerge](#) / [Tech](#) / [Reviews](#) / [Science](#) / [Entertainment](#) / [AI](#) / [More](#) +



BUSINESS

## The CEO of Zoom wants AI clones in meetings

Zoom founder Eric Yuan has big ambitions in enterprise software, including letting your AI-powered ‘digital twins’ attend meetings for you.

By Nilay Patel, editor-in-chief of The Verge, host of the **Decoder podcast**, and co-host of **The Vergecast**.  
Jun 3, 2024, 4:00 PM GMT+2

[Link](#) [f](#) [@](#) [47](#) Comments (47 New)



# Different Generation Methods

# Partial

e.g. Face Swap



# Full Fake

e.g. Twitter Ad



# Pre-Generated



# Real Time

e.g. to interact







CNET

TESLA



SCAN  
**OR**  
REGRET

Official event

teslabase.io

TESLA

LIVE



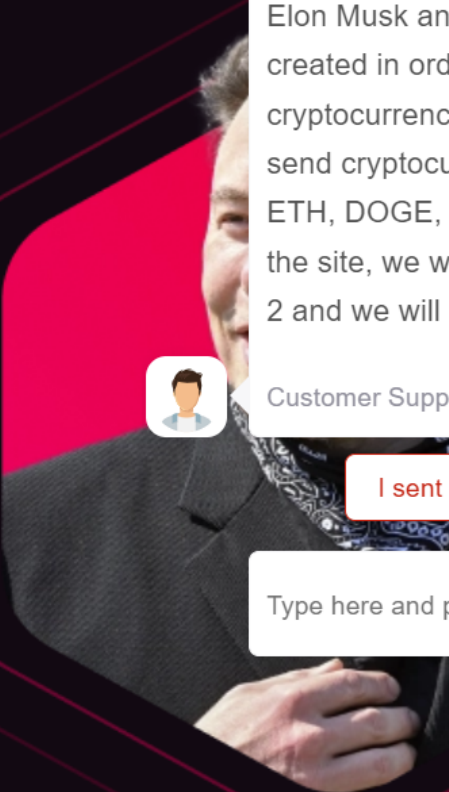
✓ Official event

# BIGGEST CRYPTO GIVEAWAY OF \$100,000,000

During this unique event, you have the opportunity to take a share of 1,000 BTC & 10,000 ETH & 500,000 SOL & 100,000,000 DOGE. Have a look at the rules and don't miss out on this. You can only participate once!


[Participate →](#)





✕

We welcome you to the official event from Elon Musk and Tesla, this event was created in order to popularize cryptocurrency, to participate you need to send cryptocurrency to any wallet (BTC, ETH, DOGE, SOLANA) that you see on the site, we will multiply the sent amount by 2 and we will return it to your wallet







Customer Support


just now

I sent cryptocurrency. What to do next?


Type here and press enter..





secure email your way with less effort

[☺ Why does your serverless app return “Internal server error”?](#)

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# DeepFake Sextortion Scams

I will send these to as many of your family and Friends on Facebook as possible, and as many of your LinkedIn contacts as I have email addresses

for.

I will also send these to all of the email addresses associated with your employers email domain, and

decide, and if I am eventually caught it will not happen before I deploy these images. I am a professional not some loser from the Ivory Coast.

This is a business to me, and I am incentivized to

You have 12 hours to send 0.05 BTC to this

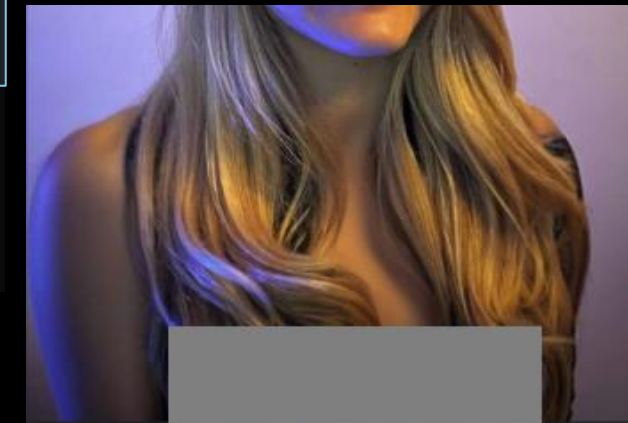
I have no interest in wasting time like the Nigerians with silly threats and emojis about ruining your life and making you kys.

You have 12 hours to send .05 BTC to this address:

bc1qx6q82c2eyapxnutrsm7l4c406u8hv0lz4rvwg4



**Becca Caddy**  
@beccacaddy



More and more “nudify” apps with GenAI



# Porno-Opfer: «Ich bringe das Zeug nicht mehr aus dem Netz»

Eine Zürcherin (39) kämpft dagegen, dass jemand Bilder von ihrem Insta geklaut und damit ein Porno-Profil erstellt hat. Die Polizei könne wenig tun, wurde ihr gesagt. Trotz Anzeige sind die Bilder öffentlich für jedermann zu finden – mit einer einfachen Google-Suche.







# Don't mock the victim!

# “Four films to see with Brad Pitt (really) for free”

# Netflix France

**“Hi Anne, Brad told us he would be at the stadium on Wednesday... and you?”**

# Toulouse FC



# Dis-information campaign examples

## Corporate Stock drop

e.g. CEO dead



## Insurance Fraud

e.g. car repair



## Imposter

e.g. son in  
trouble scams



## Deception

e.g. political  
elections /  
surrendering





# DeepFake as-a-service offers

## OnlyFakes & Co. on TOR and Telegram

e.g. for Login or KYC bypass for crypto currency exchanges

US\$5 per image to US\$500 per minute of video

- Fully synthetic ID → fake account
- Photo → Fake ID card (sign-up KYC)
- Passport → selfie with ID (account verification)



# Many Different Scams

BEC /  
CEO Fraud



Dis-  
information



Corporate  
Fraud



Deep Fake  
Porn



Imposter  
Scams



Auth  
Bypass





[illegible]

# Seeing is no longer believing

and  
Picture, ~~or~~ it didn't happen

xorlab secure email your way  
with less effort

☺ I love the F5 key. It´s just so refreshing.

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A progress bar consisting of ten squares; the first seven are filled with orange, and the last three are empty outlines.





# How many Fingers?



# Fake the DeepFake



r/midjourney • 1 yr. ago  
fotogneric



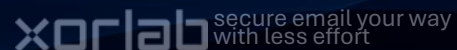
Lol: "Criminals will start wearing extra prosthetic fingers to make surveillance footage look like it's AI generated and thus inadmissible as evidence."



Source: nadjabuttendorf24.com



## A full wineglass?





A stylized illustration of a cat and a robotic mouse in a city street at night. The cat is on the left, looking at the mouse. The mouse is on the right, looking back at the cat. Both are highlighted with circular callouts. The background shows a city street with buildings and lights.

# DeepFake Mitigation Methods

DeepFake  
Detection

e.g. AI vs. AI



Source  
Signing

e.g. watermark



Fact Check

e.g. external  
validators



Process  
changes

e.g. limit actions  
ID verification





# WasitAI.com PNG→JPG

## Spot **AI-Generated** Images in Seconds!

WasItAI is a powerful tool that helps you identify AI-generated photos with ease. Ensure visual integrity and equip yourself to distinguish AI from reality. **Try WasItAI today and see the difference!**

**/35mil**

The **amount** of ai-generated images created per day

**/15bil**

And counting: the number of AI-generated photos **online**.

*Try it now* ↗

BETA ⓘ

Check if image is AI-generated



**We're quite confident that NO AI was used when producing this image.**



RESET



 > [Inspiration](#) > [The Drop](#) > Meet dAIsy, The Scam-Fighting AI Bot

# Meet dAIsy, the scam-fighting AI bot

We've created a state-of-the-art bot programmed to keep scammers away



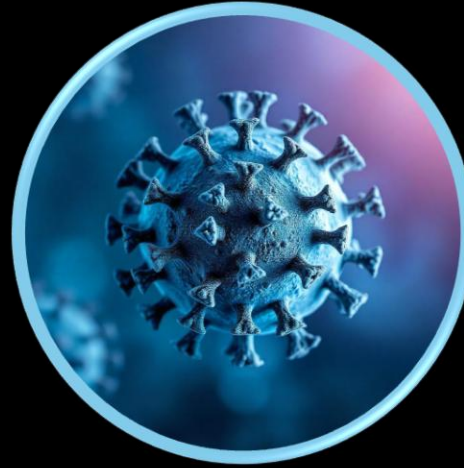
# Other Types of AI Attacks



**AI Phishing**



**AI Pentest**



**AI Malware**



**Attacking AI**

# Additional AI Threats on the Horizon

## Today



- Social media bots
- Personalized phishing
- Malware creation
- Auto pentesting
- Prompt injections

## Soon



- Hijack the AI itself
- Auto AI-attack agents
- Extract AI models
- Large data poisoning
- AI-driven insiders

## Future



- Mass real-time fakes
- Personalized malware
- Auto evasion bots
- Misinformation farms
- AI vs. AI fights



# Prepare yourself



**AI Powered  
Attacks**



**Defense  
with AI**

# Conclusion

1. DeepFakes boost Social Engineering
2. Detection is a cat & mouse game
3. People are not fully aware of the risks
4. Erosion of Trust
5. Use AI to protect efficiently





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**Thank you  
for your attention!**



Candid Wüest



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