

# INVID – WE VERIFY

## Documentation

Cyber Intel | Invid | 22/09/2023

## Executive Summary

InVID is a photo & video verification tool developed by the InVID-WeVerify project, a European Union-funded project that aims to develop tools and methods to combat disinformation. InVID is a free and open-source tool that can be used to verify the authenticity of videos and images, and to identify and debunk fake news.

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## 1. Introduction

InVID has been designed as a verification “Swiss army knife” helping journalists, fact-checkers, and human rights defenders to save time and be more efficient in their fact-checking and debunking tasks on social networks especially when verifying videos and images.

## 2.Tool Details

**Reverse image search:** InVID can be used to search the web for other instances of an image or video, which can be helpful for identifying the original source of a video or image, and for detecting manipulated or edited content.

**Key frame analysis:** InVID can be used to extract key frames from a video and then search the web for those key frames. This can be helpful for identifying the location where a video was filmed, or for identifying objects or people in a video.

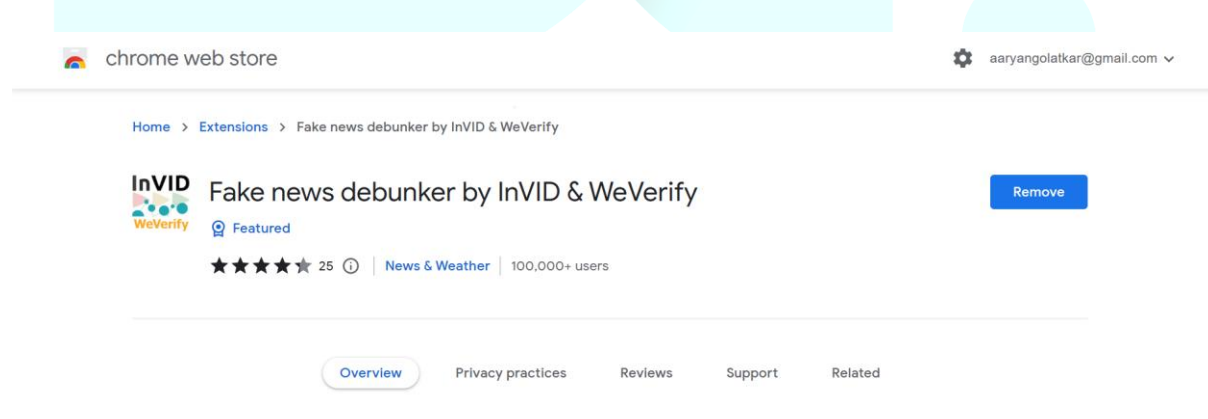
**Metadata analysis:** InVID can be used to analyze the metadata of a video, such as the creation date and location, the camera model, and the GPS coordinates. This information can be used to identify fake videos that have been created using stock footage or that have been manipulated to change the location or time of the video.

**Social media analysis:** InVID can be used to analyze the spread of a video on social media, including the accounts that have shared the video, the comments that have been made on the video, and the engagement that the video has received. This information can be helpful for identifying videos that are being shared as part of a disinformation campaign.

## 3.Installation

InVID is available in the form of a browser extension.

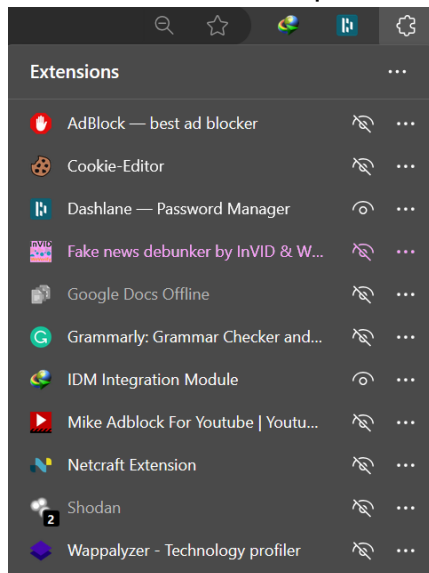
Link: [InVID Plugin](#)



## 4. Execution

To run the tool

- Open the Extensions tab
- Select the InVID extension
- Then select "Open Toolbox"



OPEN TOOLBOX

OPEN ASSISTANT

ASSISTANT FOR CURRENT PAGE

OPEN CLASSROOM

### Use Case 1. Reverse Image Search

- We can find the source of the presented image
- We can use Google Lens, Yandex & Baidu for reverse searches

Sample image



GOOGLE REVERSE SEARCH

YANDEX REVERSE SEARCH

GOOGLE LENS REVERSE SEARCH


BAIDU REVERSE SEARCH

## Use Case 2. Video Analysis

- Provides all the metadata & information about the video
- Also provides information about the channel on which the video was uploaded

### Sample Output of a YouTube video

The Kerala Story | True or Fake? | Dhruv Rathee  
2023-05-10, 11:42:12 UTC



**Video description**

"The Kerala Story" is a recently released movie by director Sudipto Sen that has been surrounded by controversy. The movie revolves around the story of four women from Kerala who converted to Islam and joined a militant organisation. However, there are questions about whether this movie represents the truth or propaganda. What is the truth behind the story being conveyed in this movie? Is something being hidden from us? Watch this video by Dhruv Rathee to find out more. KukuFM Download Link - <https://kukufm.sng.link/Apks/1ocn/9n2s> Coupon code - DHRUV30 Special offer - Get 30% off on KukuFM's 1st month subscription at INR 69 कूकु एफ़ एम द्वारा प्रायोजित वीडियो This video is sponsored by KukuFM ----- JOIN MY COURSE: 📌 Are you curious about how I manage to travel so much and still stay productive? Learn how to manage time and maximize productivity in my specialised online course. Join here: <https://academy.dhruvrathee.com> Use GET20 for a straight up 20% discount! LISTEN TO MY PODCAST: 🎧 My Spotify exclusive podcast. Learn about how India works, only on Maha Bharat with Dhruv Rathee: <https://spoti.fi/3hBW51> FOLLOW ME ON: 📧 Telegram: <https://t.me/dhruvrathee> 📷 Instagram: <http://www.instagram.com/dhruvrathee> 🐦 Twitter: [http://www.twitter.com/dhruv\\_rathee](http://www.twitter.com/dhruv_rathee) 📺 Main Channel: <http://www.youtube.com/dhruvrathee> 📺 Vlog Channel: <http://www.youtube.com/dhruvratheevids> 📺 Shorts Channel: <https://www.youtube.com/channel/UCw4HIMsDO5wplgrOSXEA> MY VIDEO TOPICS: 🌐 Geopolitics: [https://youtube.com/playlist?list=PL8828Z-IEhFGkz7F\\_paNqesFyd357oYA](https://youtube.com/playlist?list=PL8828Z-IEhFGkz7F_paNqesFyd357oYA) 📖 History: <https://youtube.com/playlist?list=PL8828Z-IEhFGS3R-AkaB95EJB07nBjGS> 🧪 Science: <https://youtube.com/playlist?list=PL8828Z-IEhFGt2T1b0qg40g3AFw4YKp> 🕵️ Mystery: <https://youtube.com/playlist?list=PL8828Z-IEhFGF7LQjRHRtoEIS7BZH2IK> 💰 Finance: <https://youtube.com/playlist?list=PL8828Z-IEhFEG47-MlDG7Mh6J-T8eBoq> 📰 Indian Current Affairs: <https://youtube.com/playlist?list=PL8828Z-IEhErzy-eKRAITaOGLrzn6fM> 🌐 International Current Affairs: <https://youtube.com/playlist?list=PL8828Z-IEhFFs3hT95-ZnEHdYldu40FU> DOWNLOAD MY APP: 📱 Android app: <https://play.google.com/store/apps/details?id=com.arStudios.dhruvratheeApp&hl=en&gl=US> 📱 iOS App: <https://apps.apple.com/ie/app/dhruv-rathee/id1553920898>

Video view count	18266364
Like count	1180449
Like count	1180449
Dislike count	-1
Duration	00:22:28
Licensed content	true
Upload time	2023-05-10, 11:42:12 UTC <a href="#">Convert to local time</a>

**Channel: Dhruv Rathee**

I love breaking down complex issues in simple words. Learning, Awareness and Education is the purpose of this channel. Dhruv Rathee is a Youtube educator whose expertise lies in doing simplified and objective explainers of complex topics. Educate yourself on important things which matter in your life and learn how you can make the world a better place for yourself and for everyone else! Be the change you want to see. Join in by clicking the Subscribe button! :)

Channel created time	2013-01-07, 19:08:50 UTC <a href="#">Convert to local time</a>
Channel view count	1910110440
Channel page	<a href="https://www.youtube.com/channel/UC-C5yji47VX1ID9zyeABW3w">https://www.youtube.com/channel/UC-C5yji47VX1ID9zyeABW3w</a>
Number of subscribers	13000000

**Video comments:**

All comments (3300) [View all](#)

Verification comments (232) [View all](#)

## Use Case 3: Perform Forensics on an Image to detect anomalies

- Provides an enhanced toolkit to detect image forgeries.
- Requires an account as the features are only available to journalists, fact checkers, researchers, etc.

## Use Case 4: Perform advanced search queries on X (Formerly Twitter)

- It performs advanced search queries on X (ex-Twitter) including by time interval up to the minute.
- Search parameters include
  - o Keyword
  - o Source account name
  - o Filters (retweets, links)
  - o Language
  - o Geolocation
  - o Near city name
  - o Range (km or miles)
- Example Search

### Search parameters

Keyword or #  
deepcytes

From (X account name)

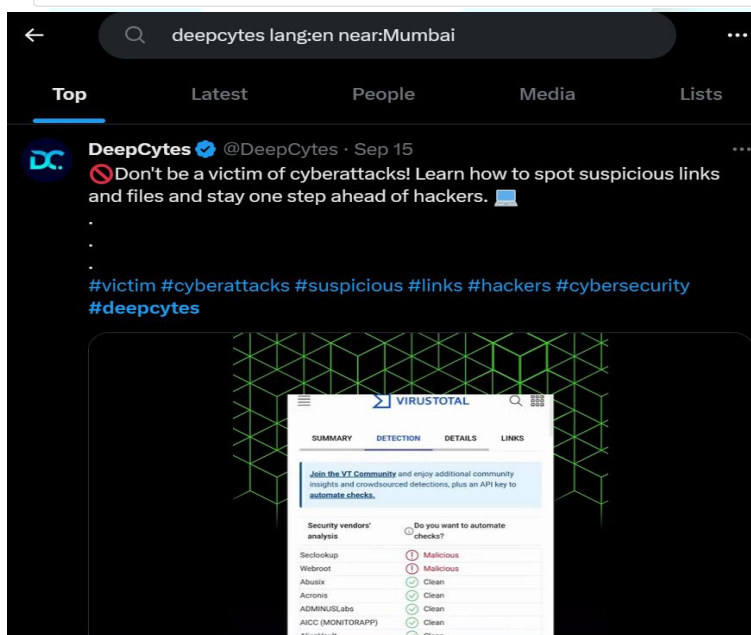
Filter (e.g. safe, media, retweets, native\_video, periscope, vine, images, twimg or links)

Language (e.g. en, fr, de, es, ru, ja, zh...)  
en

Geocode (e.g. -22.912214,-43.230182,1km or -22.912214,-43.230182,1mi)

Near (city name)  
Mumbai

Within (e.g. 15mi or 15km)



## 5.Scope and Limitations

**Language support:** InVID currently only supports English, but support for other languages is planned.

**Video format support:** InVID does not support all video formats.

**Accuracy:** InVID is not perfect, and there are some cases where it may not be able to accurately identify fake videos.

## 6.Conclusion

Overall, InVID is a powerful and versatile tool for image & video verification. It is accurate, easy to use, transparent, and free. InVID is a valuable tool for journalists, fact-checkers, social media monitors, educators, and anyone else who wants to verify the authenticity of videos and images.

## 7.References

[The InVID Verification Application, an integrated tool for video verification \(invid-project.eu\)](https://invid-project.eu/)

"Verifying Videos with InVID" (2019) by the Verification Handbook, a project of the Poynter Institute.