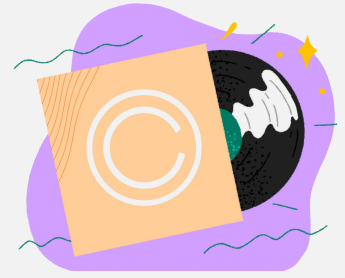


Copyright Transparency Report

At YouTube, supporting the free flow of ideas and creativity is core to our mission to give everyone a voice and show them the world. With this in mind, we build tools that empower users to access, create, and share information like never before — giving them more choice, opportunity, and exposure to a diversity of viewpoints. Today, billions of logged-in users come to YouTube every month and more than 500 hours of video are uploaded every minute.



YouTube has also given rightsholders opportunities to earn money from both their own and user-uploaded content through our subscription-based and advertising-supported models. Our partnerships with record labels, performing rights organizations, music publishers, television networks, and movie studios generate substantial revenues for the creative industries. YouTube paid more than 50 billion dollars to creators, artists, and media companies in the 3 years prior to June 2022.

YouTube has over 80 million Premium and Music subscribers, including trialers, across 90 countries as of September 2022. Through Content ID, YouTube has created an entirely new revenue stream from ad-supported, user-generated content paying more than \$9 billion to rightsholders from ads alone as of December 2022, from content claimed and monetized through the tool.

\$50B




To creators, artists, & media companies over the 3 years prior to June 2022

\$9B

Ad revenue paid to rightsholders as of December 2022 from content claimed and monetized through Content ID

YouTube's Copyright Management Suite

Three main tools make up our Copyright Management Suite: the webform, Copyright Match, and Content ID. All of these tools use technology to prevent the reupload of matching content. We have invested hundreds of millions of dollars to develop and operate these tools.

	 Webform Users whose copyrighted content rarely get reposted	 Copyright Match Tool YouTube channels and other rightsholders whose copyrighted content is occasionally reposted	 Content ID Movie studios, service providers, and other publishers whose copyrighted content is heavily reposted
Frequency of claims	Infrequent (A few times a year)	Occasional (A few times a month)	Scaled (Daily)
Resources	Self	Self	Dedicated team w/ expert knowledge
Blocks reuploads	✓	✓	✓
Auto-detects reuse		✓	✓
Eligibility	Open to everyone	Be in YouTube Partner Program or demonstrate short history of takedowns	Demonstrate need of scaled tool, understanding of copyright, and resources to manage complex automated matching system
Access	Everyone	Over 2.5 million channels	Over 9K partners
Abuse	High	Low	Low
Automation	Low	Medium	High



Webform

All rightsholders have access to the webform, which is a streamlined and efficient way to submit copyright removal requests, and is available in 80 languages. It is designed for infrequent use by creators who hold few copyrights and rarely find their content on YouTube. For the vast majority of rightsholders, the webform is the only tool they need. Nevertheless, creators who have used the webform to remove videos from YouTube have access to powerful features, including the ability to ask YouTube to automatically prevent copies of the removed videos from being reuploaded. Copyright Match Tool will also find potential copies of videos removed through the webform and provide those matches to the claimant.

3. Removal options

Removal timing for targeted videos

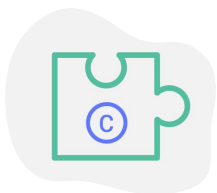
- Scheduled: Send a 7-day notice**
Once the request is validated, YouTube gives the uploader 7 days to remove the video and avoid a copyright strike. If they don't, the video is removed after 7 days.
- Standard: Request removal now**
These removals can lead to a copyright strike. YouTube processes the video removal after validating the request.

Copies [?](#)

- Prevent copies of these videos from appearing on YouTube going forward**
If your takedown request is valid, YouTube will make its best effort to prevent new uploads from appearing on the platform. [Learn more](#)

A portion of the interface for the webform

Partners with access to Content ID can convert any match (see Content ID below) into a copyright removal request through an "Enterprise Webform" within their Content Manager interface. The Enterprise Webform is a streamlined version of the public webform for experienced claimants who submit large volumes of removal requests for videos they that've found to be potentially infringing their copyright. Separately, a small number of rightsholders and anti-piracy vendors have access to this Enterprise Webform through the Content Verification Program (CVP).



Copyright Match Tool

After extensive collaboration with creators, we found there was a segment of rightsholders who experienced a higher amount of reposting of their copyrighted content and needed to submit more frequent copyright removal requests. With this in mind, we built the Copyright Match Tool to safely bring the power of Content ID matching technology (described in detail below) to more creators and rightsholders.

The Copyright Match Tool is available to any YouTube user who has submitted a valid copyright removal request through the webform. Once a takedown request is approved, the Copyright Match Tool starts scanning YouTube uploads for potential matches to the videos reported in the removal request. The tool surfaces these potential matches to the claimant so they can decide what action to take next.

For creators in the YouTube Partner Program (YPP), or any channel that has filled out the [copyright management tools application](#)¹ and shown a need for an advanced rights management tool, the Copyright Match Tool will also scan for potential matches of their videos on other YouTube channels. Creators who have access to this feature of the Copyright Match Tool simply need to be the first to upload a video to YouTube (they can upload as public, private, or unlisted).

¹https://support.google.com/youtube/contact/copyright_management_tools_form

For each video match, the Copyright Match Tool shows the user information on total views, the channel that uploaded it, the percentage of the video that is made of their content, and a few frames of the video. The tool also labels whether only the audio portion of the video generated a match, or if it's only a partial match, meaning content may have been sampled but the video is not a simple re-upload. From this interface, users can choose to archive the match and leave the video up, file a takedown request (with the option to ask YouTube to automatically prevent copies), or contact the uploader.

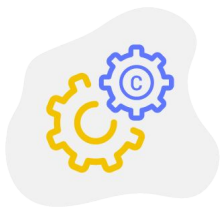
2.5M+

Channels on YouTube have access to the Copyright Match Tool*

MATCHES	53	REMOVAL REQUESTS	13	MESSAGES	13	ARCHIVE	54	
Filter								
Matching videos	Total views	Date	Channel	% match	Frames	Actions		
Cream Puffs Recipe Dem... Cream Puffs (Choux Creme) ...	7,462	Dec 1, 2018	Joy of Baking 5,312 subscribers	100% of their video				
Day to Day Cook - Matcha... Matcha Panna Cotta (Japane...	4,432	Dec 1, 2018	Day to Day Cook 420 subscribers	100% of their video				
The Perfect Cream Puff - K... Cream Puffs (Choux Creme)...	4,213	Dec 1, 2018	Kitchen Collective 3,123 subscribers	60% of their video				

A sample of the interface for Copyright Match Tool. Not actual data.

Content ID



This is our solution for those with the most complex rights management needs, such as movie studios, record labels, and collecting societies. Smaller, independent creators who do not meet the eligibility criteria¹ for Content ID can still access these features through a number of service providers². These service providers manage rights through the system on behalf of others on a daily basis.

YouTube and its Content ID partners enter into an agreement that sets the parameters for the use of the tool and allows YouTube to make appropriate use of the copyright owner's content for the purpose of enabling Content ID to work. Partners provide YouTube with reference files for the works they own, along with metadata such as the title and detailed ownership rights. Based on these references³, YouTube creates digital "fingerprints" for the copyright owner's works and conducts automated scans of the platform to determine when content in an uploaded video matches the reference content.

90%

Content ID claims that are monetized

Copyright owners and service providers use YouTube's Studio Content Manager – the interface for managing the use of their content on the platform – to instruct the system to either block, monetize, or track matching content. Rightsholders can choose which policy to apply to a claim: they can leave it up and make money from it; leave it up and track viewing statistics; or block it from being viewed. In the second half of 2022, rightsholders chose to monetize over 90% of all Content ID claims. The Content Manager interface provides highly granular access control to assist users who have specific, complex, or even conflicting ownership rights. For example, rights and policies may be specific to certain countries, resulting in a video being monetized in one country and blocked in another.

Reference files that reflect flawed or conflicting ownership data can create issues among Content ID partners. Content ID is designed to address these ownership conflicts among partners and manage disputes with uploaders. In some situations, such as when the system is uncertain whether a claim should be made, the system creates a queue of potential claims that require manual review to be activated. As a result, Content ID requires users to make a high level of operational investment, without which other rightsholders could have their rights impaired and lawful expression could be inappropriately impacted.

¹<https://support.google.com/youtube/answer/1311402>

²<https://servicesdirectory.withyoutube.com/>

³https://support.google.com/youtube/answer/2605065?ref_topic=4515467

Everyone Has Access

YouTube has built a suite of Copyright Management tools for all rightsholders and matches them with the appropriate tool based on the scale of their copyrighted work on YouTube and the resources they have dedicated to operate the tools.

The date range for the data in this report is July 2022 through December 2022. A full data collection methodology is included at the end of the report.

Key points



Webform: In the second half of 2022, 65% of claimants who claimed or requested removal of content through YouTube's Copyright Management Suite did so through the copyright webform, which is designed to be an easy option for those with infrequent needs.



Copyright Match Tool: As of December 2022, over 2.5 million channels have access to the Copyright Match Tool, which we built for those with more frequent copyright needs. It automatically detects copies of content uploaded to their channel. Following the expansion of the Copyright Match Tool in October 2021 to more users, now anybody with a YouTube account who is in the YouTube Partner Program or has submitted a valid copyright takedown notice is eligible for Copyright Match Tool access.



Content ID: Content ID is for enterprise partners (such as movie studios, record labels, and collecting societies) and service providers who operate at an entirely different scale — over 9,000 partners have access and many have a dedicated team just to operate the tool.

The scale of copyright needs for these partners is in a class all by itself, and their content — today's hit song, scenes from a new movie or the latest viral video — is at the heart of creative reuse on YouTube. Claims from Content ID partners represent over 99% of all copyright actions on YouTube.

Eligibility: Channels in YPP automatically gain access to the Copyright Match Tool and see potential matches of videos on their own channels. Those who have submitted a valid copyright removal request through our webform also gain access to the Copyright Match Tool and see matches for videos they've removed through the webform. They can also apply for all scaled copyright tools through our [Copyright Management tools application](#)¹.

A note on terminology: In this report, we distinguish between tools to submit removal requests (webform and Copyright Match Tool) and Content ID, which places a claim on a video. 'Claim' will always refer to Content ID actions, whereas 'removal request' will refer to the webform and Copyright Match Tool.

The following data demonstrates the relationship between how many people have access to a particular tool, how many people use that tool, and the scale of their need to manage their copyright on YouTube. We match rightsholders to the tool that best meets their needs, based in part on how much content on YouTube is subject to their copyright. The public webform is available to everyone and is used by more people than any other tool.

Those in the YouTube Partner Program, and those who have used our public webform successfully, also have access to the Copyright Match Tool, and thus have the benefit of the most requested feature of Content ID — the ability to automatically detect potentially infringing content. This feature helps users better detect and manage their copyright through a user-friendly interface.

Content ID partners are managing content at an entirely different scale and sophistication. Though they represent the smallest number of users for any of our tools, their actions represent over 99% of all copyright actions on YouTube. This is because their content — today's hit song, scenes from a new movie, or the latest viral video — is at the heart of creative reuse on YouTube and is the most likely to be reuploaded.

¹https://support.google.com/youtube/contact/copyright_management_tools_form

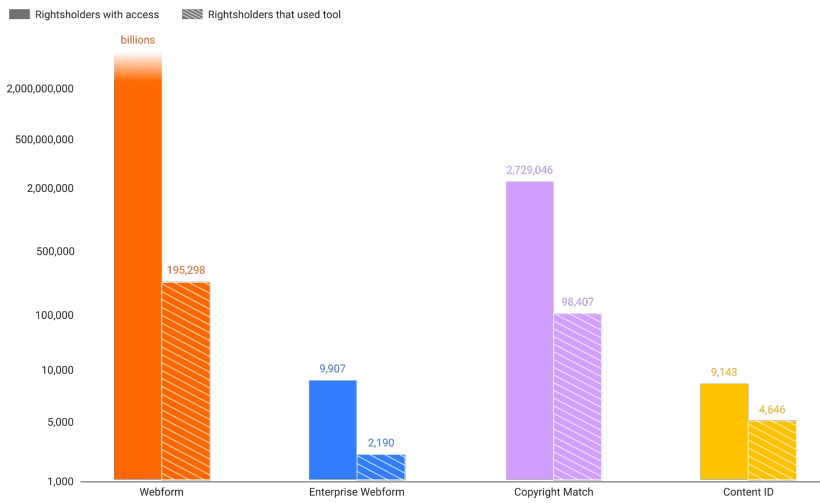


Exhibit 1.1 – Access and Usage of Copyright Tools

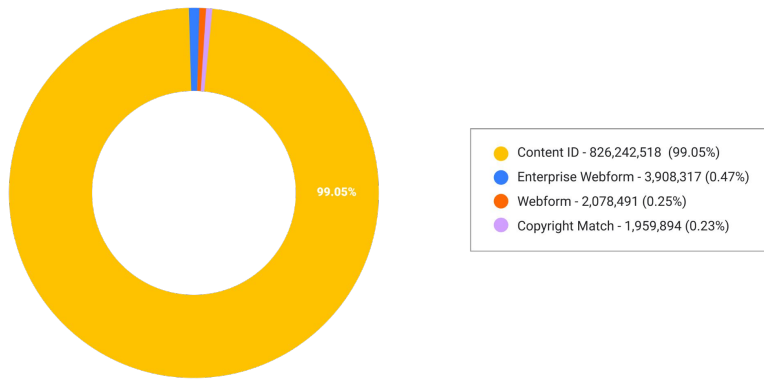
The chart shows the number of rightsholders who have access to each tool as of December 2022¹, along with how many used the tool in the second half of 2022.

In some cases, an individual may make copyright removal requests or make claims using multiple tools (for example, if they are granted access to Copyright Match Tool after making successful copyright removal requests via the webform). In these cases, they are counted as users of both tools.

Exhibit 1.2 – Copyright Actions by Tool

This chart shows the number of unique claims and copyright removal requests made in the second half of 2022. Note that a video may be subject to multiple claims or removal requests, such as when it features more than one copyrighted asset or when multiple parties share ownership of copyrighted assets.

A Content ID claim can convert to a copyright removal request at the claimant's request. In these cases, we have counted them as two separate actions: one Content ID claim and one copyright removal request.



Eligibility and access

Every logged-in YouTube user has access to the webform, which we built to be a streamlined and efficient way to submit removal requests. YouTube has invested considerable resources into making the webform easy to use and effective for the vast majority of use cases.

We automatically offer Copyright Match Tool access to channels in the YouTube Partner Program. For these channels, the tool finds potential matches of their uploads to YouTube. In October 2021, we extended automatic access to anyone who submits valid copyright removal requests through our webform. For these cases, the tool detects and surfaces potential matches of videos removed by the rightsholder. Rightsholders can also apply for all copyright tools via [YouTube's Copyright Management tools application](#)¹. The eligibility criteria for each copyright management tool is described in [YouTube's Help Center](#)².

A history of sending YouTube complete and valid copyright removal requests to remove allegedly infringing content serves as the primary indicator that an applicant both needs scaled tools and understands copyright. Abuse of our webform, or otherwise invalid use due to a lack of understanding about copyright, is very common.

When YouTube responds to an applicant who completes YouTube's Copyright Management tools application, YouTube always explains the tools available to a given applicant. We also indicate that if the applicant believes they should be eligible for additional tools, they are welcome to apply again in 90 days. In the interim, the best course of action for any rightsholder is to make use of the tools they already have access to, to demonstrate that they do have a need that is better addressed by a more scaled tool, and that they understand copyright removal processes. If an applicant wishes to appeal the initial decision and provide additional information for us to consider, they may respond directly to the email.

¹https://support.google.com/youtube/contact/copyright_management_tools_form

²<https://support.google.com/youtube/answer/9245819?hl=en>

Creating a Balanced Ecosystem

As we work to expand access to more powerful tools in the YouTube Copyright Management Suite, we must balance the need to protect creators, viewers, and rightsholders from the significant disruption that can result from the abuse or otherwise invalid use of our tools.

The date range for the data in this report is July 2022 through December 2022. A full data collection methodology is included at the end of the report.

Key points

YouTube takes steps to prevent abuse or otherwise invalid use of our rights management tools. We also empower uploaders to push back on requests and claims they believe are wrongful. As demonstrated by our public copyright webform, when we make a tool available to everyone without any eligibility requirements, we see high levels of abuse. This is why we must balance access to tools against the significant disruptions to the ecosystem they can cause.

10x

Higher abuse rate in webform than in takedown tools with limited access

Over 5% of videos requested for removal through the public webform in the second half of 2022 were the subject of abusive copyright removal requests[†], meaning these requests were assessed by our review team as a likely false assertion of copyright ownership. This abuse rate is more than 10 times higher than for other tools with limited access, like the Copyright Match Tool and Enterprise Webform, where it is 0.5% or lower[‡].

The limited availability of Content ID also helps to limit abuse of that tool. This is especially important because claiming can happen automatically. While a single copyright removal requested from the webform impacts only one (or a handful) of videos, **a single invalid reference file in Content ID can impact thousands of videos and users**, stripping them of monetization or blocking them altogether.

Uploaders are empowered to push back on removals they believe are invalid by filing counter notifications. They can also push back on Content ID claims by disputing the claim. Like abuse, pushback from uploaders occurs most often in response to actions from tools that are available to more people. In the second half of 2022, uploaders submitted counter notifications in response to over 4% of removal requests submitted via the webform, whereas it's fewer than 2% for both Enterprise Webform and for Copyright Match Tool[‡]. Fewer than 1% of all Content ID claims made in the second half of 2022 have been disputed[†]. Over 60% of those disputes succeeded because claimants either voluntarily released the claim or did not respond to the dispute in time[‡].

Invalid requests often occur when someone incorrectly submits a copyright removal request due to a lack of understanding of either copyright law or our tools. Invalid requests can take many forms, such as filing a copyright request for a trademark or privacy issue or simply failing to provide the necessary information required to constitute a valid copyright removal request. For Content ID partners, invalid claims occur when partners unintentionally deliver low-quality reference files that contain incomplete metadata, insufficiently unique content, or pieces of content that they don't own exclusively – such as a news broadcast that contains public domain footage or a song that uses a licensed beat.

Abuse, on the other hand, occurs when someone is deemed by our review team to have intentionally and maliciously used our tools in an attempt to remove content from YouTube through a likely false assertion of copyright ownership. Sometimes this takes the form of political actors attempting to censor political speech or companies stifling criticism of their products or practices. Other times individuals try to use our copyright processes to bully other creators or to remove videos they see as competing for the same audience.

Regardless of the intent, both invalid requests and abuse can cause significant disruptions to all members of the YouTube ecosystem – creators, viewers, and rightsholders. Just one bad copyright webform notice can result in multiple videos being temporarily removed from YouTube. In Content ID the impact is multiplied due to its automated nature; one bad reference file can impact hundreds or even thousands of videos across the site. In one highly publicized instance, a news channel uploaded public domain footage from NASA of a Mars rover and ended up making inappropriate claims against all

other news channels and creators using the same footage, even against the NASA channel itself.

We have dedicated teams working to detect and prevent abuse or otherwise invalid use of each of our tools. We rely on a combination of humans and technology to detect suspicious behavior, request additional information where necessary, and remove reference files that are low-quality or invalid. We take abuse of our tools seriously – we terminate tens of thousands of accounts each year that attempt to abuse our copyright tools.

Common types of abusers



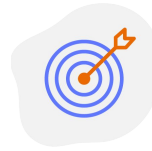
Impersonator

Uses a fake name or email address to get away with submitting fake requests



Reputation manager

Uses Copyright webform to remove allegedly defamatory content



Competitor

Submits requests on legitimate content to target their competitors



Backdater

Pretends to have created content first (backdates) in order to remove other people's content

YouTube responses to copyright removal requests

Because it is available to everyone, our copyright webform is subject to a significant amount of abuse or otherwise invalid use. We have a team dedicated to processing copyright removal requests. When necessary, we request additional information or deny the request altogether. Below you can see real world examples, anonymized for the report, of how we responded to removal requests we received.

Possible responses by YouTube to a copyright removal request, with examples

<p>Remove: The URL was removed from YouTube</p>	<p>Examples: <i>A removal request is accepted by YouTube and the video is removed for copyright under the owner name given in the request.</i></p> <p><i>A removal request is received for a video that's already been removed from YouTube, either by the uploader or for violating another policy.</i></p>
<p>Abuse: A webform submission is deemed by our review team to be a likely false assertion of copyright ownership.</p>	<p>Examples: <i>An individual falsely claims to be a celebrity or a large company.</i></p> <p><i>A creator tries to remove a video competing for the same audience.</i></p>
<p>Invalid Request: There are a number of reasons that requests may be ruled invalid. This may be because the user submitting the request did not provide necessary information even after a clarification request from YouTube, or because they are trying to address a non-copyright issue (like trademark or other content moderation issues) through the copyright webform.</p>	<p>Examples: <i>A fan requests removal on behalf of a creator, but doesn't appear to be authorized to make claims on their behalf.</i></p> <p><i>An individual does not provide necessary information to process a request, for example they are not sufficiently clear about what content in the video they are claiming, or fail to provide the URL of the video that they claim is infringing.</i></p> <p><i>A company asserts their logo is infringed, but the logo is a plain wordmark that is appropriate for a trademark removal notice.</i></p>
<p>Copyright Exceptions: Before submitting a copyright removal request, rightsholders must consider whether fair use, fair dealing, or similar exceptions to copyright may protect the video they wish to remove. In some cases, YouTube asks claimants to confirm they've done this analysis. If claimants do not adequately respond, the video is not removed.</p>	<p>Examples: <i>A company submits a removal request for a video that uses excerpts of their commercial to criticize their business practices.</i></p>
<p>Other: In some cases, we hold a request for further review, send a non-standard response, or follow a slightly different process because the content was provided to us under license. In these situations, we've categorized them as 'Other'. We also categorize as 'Other' if we have inconclusive or insufficient data.</p>	<p>Examples: <i>A movie producer submits a removal request for a movie, but the movie's distributor (who works with the producer) licensed that video to YouTube.</i></p>

YouTube actions in response to copyright removal requests by tool

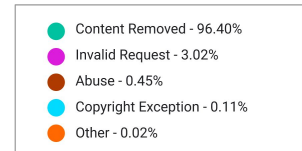
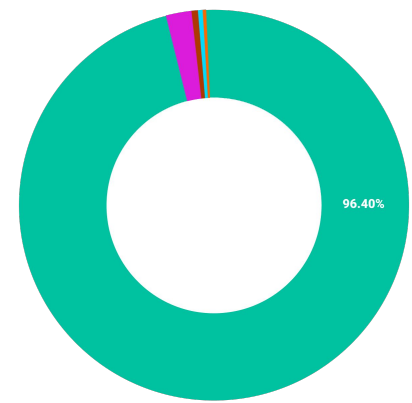
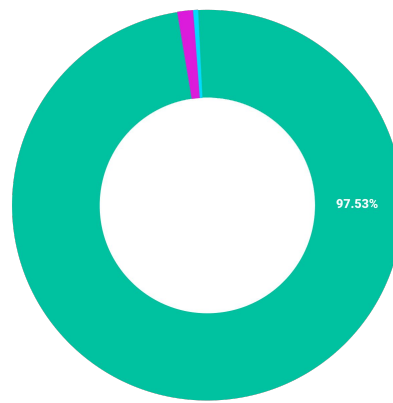
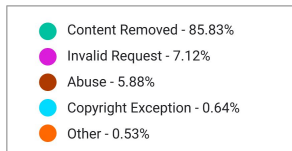
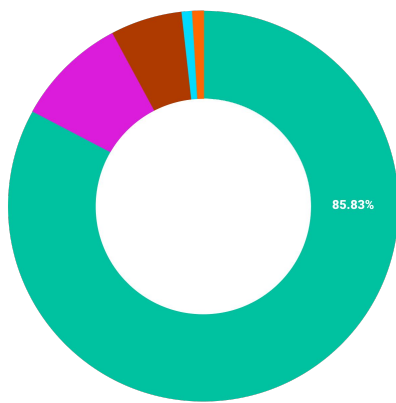


Exhibit 2.1 – Removal request via webform

This chart shows the video-level result of each copyright removal request made in the second half of 2022 through the **webform**†.

Exhibit 2.2 – Removal request via Enterprise Webform

This chart shows the video-level result of each copyright removal request made in the second half of 2022 through the **Enterprise Webform**†.

Exhibit 2.3 – Removal request via Copyright Match Tool

This chart shows the video-level result of each copyright removal request made in the second half of 2022 through the **Copyright Match Tool**†.

How YouTube protects against wrongful claims

Content ID claims

We also have a dedicated team that monitors for bad reference files delivered to Content ID. The team uses automated systems along with manual review to detect reference files (or segments of reference files) that may be causing an issue and requests that partners review them.

The rightsholder can choose to:

- Exclude the segment from the larger reference file
- Remove the entire reference file
- Ask our team to re-review the suspicious flag

If the partner does not respond, the reference file is marked as invalid and removed from Content ID. When a reference file (or a segment) is removed from Content ID, all claims associated with that reference file (or segment) are released.

There are multiple reasons this can happen. Most often it occurs when partners deliver non-exclusive content, such as content in the public domain or content they've licensed but don't own. For example, an owner of a late night talk show may deliver a reference file of an entire episode of their show that includes a clip of a film that one of their interviewees is promoting, and that clip may inadvertently result in a Content ID claim on the filmmaker's official upload of the film. Invalid claims can also occur when partners deliver reference files with indistinct sound effects, nature sounds, or content that is in the public domain and not subject to copyright.

Unlike webform requests that are rejected, which only affect one or a handful of videos, the impact of reference files in Content ID is multiplied. A single invalid reference file in Content ID can impact thousands of videos and users, stripping them of monetization or blocking them altogether.

How YouTube empowers uploaders to fight wrongful claims

Counter notifications

Beyond the work YouTube does to prevent abuse or otherwise invalid use, there are also disputes that can only be resolved between claimants and uploaders. YouTube is not in a position to determine facts like whether the claimant actually holds copyright to the identified work, or whether the uploader has a valid license. In these cases, recipients of copyright removal requests or Content ID claims have the ability to counter notify or dispute, respectively.

If an uploader believes they have the required license to use content or are subject to a copyright exception, such as fair use, they can file a counter notification. In the second half of 2022, uploaders submitted counter notifications in response to over 4% of removal requests submitted via the webform, whereas it's fewer than 2% for both Enterprise Webform and for Copyright Match Tool[†]. YouTube is not in a position to make determinations that require a detailed factual or legal assessment (such as ownership determinations) as we are not a court of law. However, counter notifications are reviewed by YouTube for completeness and to ensure they have a clear explanation for why the uploader believes they have all necessary rights for the removed video. If we accept the counter notification, a copy of the notice is sent to the claimant who requested removal of the video(s). We accepted fewer than 25% of counter notifications submitted in response to removals that occurred during the second half of 2022[‡]. After receiving a counter notification, the claimant has 10 business days to provide evidence that they have initiated a court action[§] to keep the content down; otherwise we will reinstate the content. The 10 business day limit and requirement of court actions[§] serve to balance the intellectual property interests of rightsholders with the free expression interests of uploaders, while facilitating the resolution of legal disputes through an appropriate authority, such as a court.

Possible responses by YouTube to a copyright counter notification, with examples

<p>Forwarded: YouTube will forward a counter notification to the rightsholder who originally requested removal of the content only if the counter notification meets all legal requirements and clearly explains the submitter's right to use the content.</p>	<p>Examples: <i>A YouTube creator submits a counter notification because they created all of their own content for their video, including visuals and music.</i></p> <p><i>A video was removed for use of a company's promotional poster, but the creator asserts that they used it under a copyright exception to review the company's product.</i></p>
<p>Not Forwarded: YouTube rejects counter notifications when they either don't meet all legal requirements, or they don't explain the counter notifier's right to use the content.</p>	<p>Examples: <i>An individual explains the reason for their counter notification as "I gave credit to the copyright owner," which is not equivalent to having permission.</i></p> <p><i>A counter notification is missing legally required details like the submitter's address (needed if the rightsholder decides to file a lawsuit against the counter notifier).</i></p>
<p>Other: In some cases, we hold a request for further review, send a non-standard response, or follow a slightly different process. In these situations, we've categorized them as 'Other.' We also categorize as 'Other' if we have inconclusive or insufficient data.</p>	<p>Examples: <i>A video was already reinstated outside of the counter notification process.</i></p>

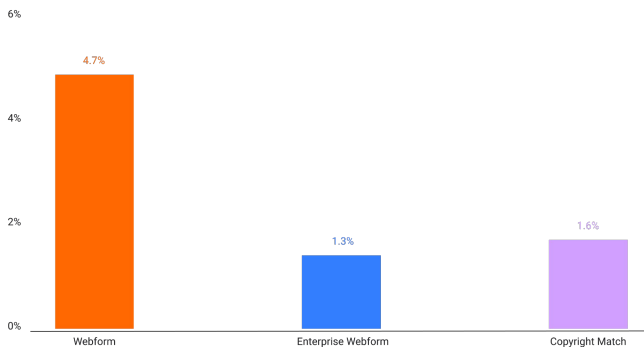


Exhibit 2.4 – % Counter notifications received

This represents the percentage of copyright removal requests submitted in each tool where the uploader responded with a counter notification asserting that they do have the right to keep the video up[‡].

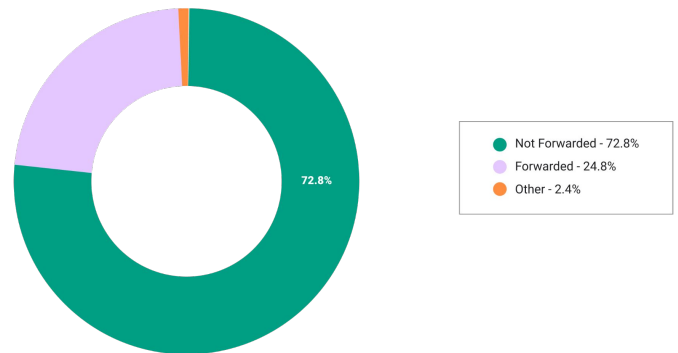


Exhibit 2.5 – Counter notification responses

This chart shows the video-level result of counter notifications submitted in response to removals requested in the second half of 2022[‡].

Content ID claim resolution

We offer a number of methods for uploaders to address Content ID claims they receive. Uploaders are notified through our [Checks](#)¹ functionality during the video upload process whether there is material in their video that may result in a Content ID claim. Before they publish the video, they may [edit out](#)² the content or use the dispute process described below. These options are also available after a video is published.

If uploaders believe that their use of claimed content is valid, they can file a dispute for the claimant to review. This dispute process is a routine part of a healthy Content ID ecosystem and provides multiple opportunities for both sides to exchange their views, as claimants and uploaders are almost always in the best position to work out between themselves who has the rights to use copyrighted material. For example, there could be complex licensing issues between two parties, or they could be located in countries with different laws governing copyright exceptions.

When a claimant receives a dispute, they can respond by either releasing the claim or reinstating it. If they don't respond within 30 days, the dispute expires and the claim is automatically released. However, if they choose to reinstate the claim, the uploader can file an appeal, which claimants can respond to by releasing the claim or issuing a copyright removal request (also, claimants can issue a copyright removal request on a video with a Content ID claim at any time). If a video is removed, uploaders can pursue additional remediation by filing a counter notification or seeking a retraction from the claimant.

In September 2022, we made two [updates](#)³ to the dispute and appeal process to offer faster resolution for disputed claims. First, we shortened the review period for appeals so that claimants have 7 days instead of 30 days to decide whether to request a takedown of the video, release the claim, or let the claim expire. Second, we introduced a new “Escalate to Appeal” option for uploaders when responding to block claims. This option allows those that are [eligible to appeal](#)⁴ to skip the initial dispute step and move straight to the appeal stage.

Of the more than 800 million Content ID claims made in the second half of 2022, fewer than 1% have been disputed. Over 60% of those disputes succeeded, because claimants either voluntarily released the claim or did not respond within the 30-day window, resulting in the claim's release[†]. So although disputes are rare, when they do take place, our process provides real recourse for uploaders who believe they have the right to use claimed content.

¹<https://support.google.com/youtube/thread/102365314>

²<https://support.google.com/youtube/answer/2902117>

³<https://support.google.com/youtube/thread/171615487>

⁴<https://support.google.com/youtube/answer/9890437>

Content ID claim resolution

Uploader response to CID claim

For the 826,242,639 total Content ID claims[‡] made in the second half of 2022, this chart shows whether the uploader disputed the claim, escalated it to appeal (available only for block claims), or left it unchallenged.

When a claim is disputed, claimants have 30 days to review and decide whether to release the claim, reinstate the claim, or issue a removal request. If they don't respond within 30 days, the claim expires. Eligible uploaders can choose between dispute or the escalate to appeal option for block claims, which allows the uploader to skip the initial dispute step and submit an appeal right away. See Exhibit 2.9 for more on the appeal process.

Dispute outcome

If the claimant chooses to release the claim in response to a dispute or allows the dispute to expire after 30 days, the claim is removed from the video and the dispute is considered to have succeeded for the uploader.

If the claimant instead chooses to reinstate their claim or, in very rare cases, file a legal copyright removal request, the dispute is considered to have failed for the uploader.

Uploader response to failed dispute

If a claimant reinstates their claim after the uploader has disputed, the uploader can appeal that decision. Claimants have 7 days to review an appeal. At this point the claimant can no longer reinstate their claim and must instead either release the claim or file a legal copyright removal request.

Appeal outcome

If the claimant chooses to release the claim in response to an appeal or allows the appeal to expire after 7 days, the claim is removed from the video and the appeal is considered to have succeeded for the uploader.

Alternatively, after receiving an appeal, if the claimant chooses to file a copyright removal request and the request meets all legal requirements, the appeal is considered to have failed for the uploader. At this stage, the ownership issue exits the Content ID claim and dispute system built by YouTube and enters the legal removal and remediation process defined by the DMCA and similar applicable laws.

Not all failed appeals result in the copyright removal of the video. When the claimant files a copyright removal request in response to an appeal, they can opt for the removal to take place either upon the request's acceptance by YouTube or 7 days after that. If they opt for the 7-day delay, the uploader gets 7 days to cancel their appeal or delete their video to avoid a copyright strike. If the uploader decides to cancel their appeal, the Content ID claim will remain active on their video.

In the second half of 2022, over 30% of failed appeals (13,841) resulted in a copyright removal. For the remaining 31,883 failed appeals, either the appeal was canceled or the video was deleted.

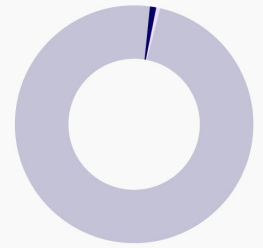
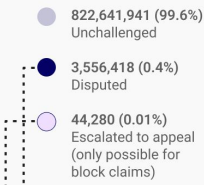
Uploader response to copyright removal

As is the case with all copyright removal requests received by YouTube, uploaders have the option to file a counter notification in response to the removals above. A counter notification is a legal request for YouTube to reinstate a video. If we receive a valid counter notification, the claimant will have 10 business days to provide evidence that they have initiated a court action[†] to keep the content down.

In the second half of 2022, fewer than 1% of counter notifications submitted resulted in a lawsuit[§].

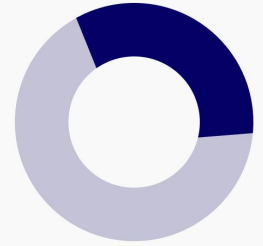
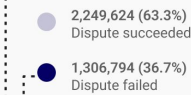
Uploader response to CID claim

Exhibit 2.6



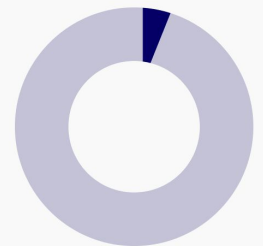
Dispute outcome

Exhibit 2.7



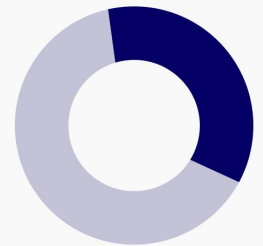
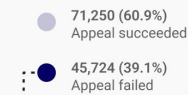
Uploader response to failed dispute

Exhibit 2.8



Appeal outcome

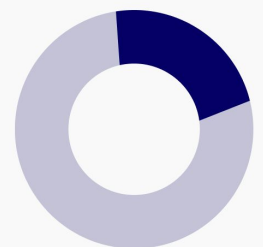
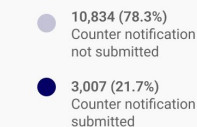
Exhibit 2.9



over 30% of failed appeals are copyright removals

Uploader response to copyright removal

Exhibit 2.10



Our Tools Are Cutting Edge

We have invested hundreds of millions of dollars to develop powerful tools to help rightsholders manage their content on YouTube. We have also accumulated over a decade of learnings on how to best balance the needs of rightsholders and creators, and continue to iterate on our tools accordingly.

The date range for the data in this report is July 2022 through December 2022. A full data collection methodology is included at the end of the report.

Key points

99%

Content ID claims
that are made
automatically

Content ID automatically detects reused content in user-uploaded videos. Some rightsholders can also manually search for and claim reused content that was not automatically detected. Over 99% of Content ID claims from the second half of 2022 were made through automated detection, with partners' usage of manual options being exceedingly rare (fewer than 0.5% of total claims).

When partners do make manual claims on videos not detected by our systems, uploaders are more likely to dispute the claim's validity — fewer than 0.5% of automated claims from the second half of 2022 were disputed, compared to over 0.9% for manual claims[‡].

Based on reference files provided by Content ID partners, YouTube creates digital "fingerprints" for the copyright owner's works and conducts automated scans of the platform to determine when content in an uploaded video matches the reference content. When a match is found, Content ID automatically claims the content. Because of continued investment in our matching technology, over 99% of all claims made by Content ID in the second half of 2022 were automatic.

Despite the power of technology, there are some cases where Content ID fails to identify a match with a user video. This can be due to uploaders' efforts to evade Content ID or due to the fleeting use of the copyrighted work. For videos missed by automated identification, many Content ID partners have the ability to issue claims manually. While this feature covers an important gap, it accounted for fewer than 0.5% of Content ID claims made in the second half of 2022. For music rightsholders in particular, the automation rate is even higher. Finally, all channels on YouTube also have access to our copyright removal webform to request removal of any content not captured by another tool to which they have access.

We have spent years tuning our tools to automatically detect reuse of content when appropriate. Accordingly, claims made manually by partners are more than twice as likely to result in a dispute than claims made automatically.

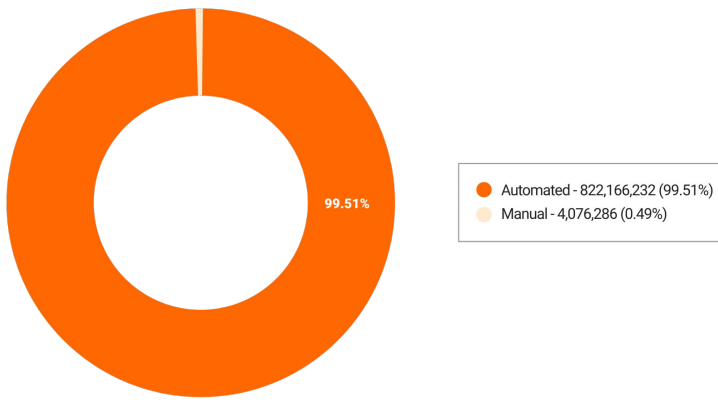


Exhibit 3.1 – Automated vs. Manual Content ID claims

The exhibit above shows the number of Content ID claims that were made by automated systems vs. those that were made using Content ID's manual claiming feature.

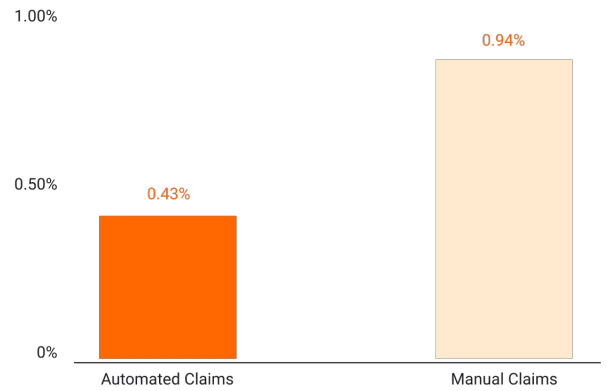


Exhibit 3.2 – % Disputes on Automated vs. Manual Content ID claims

This exhibit shows the percentage of claims from Exhibit 3.1 that have been disputed[‡], divided between whether the claim was made by Content ID's automated detection or by a rightsholder using Content ID's manual claiming feature.

Tackling new challenges by continuing to refine our tools

Whether it be fans making reaction videos, aspiring musicians singing covers, or pirates attempting to re-stream a championship soccer game, we understand that there are countless scenarios where rightsholders need a tool that is powerful enough to quickly detect reuse and apply the appropriate policy.

Unfortunately, some individual channels attempt to circumvent the system by transforming the content they upload. This can take many forms, from shifting the pitch of audio to altering the color, orientation, or surroundings of a video. Below are some examples of the types of manipulations channels engage in.



Original



Flipped / Mirrored



Framed



Color shifted



Aspect ratio change



Light effects

Content ID's match technology must continually adapt to such efforts, without sacrificing its precision. In other words, in the effort to locate transformed copies of a given work, it cannot extrapolate so far that it begins to inaccurately sweep in similar works.

For more information about YouTube's approach to rights management, please visit youtube.com/howyoutubeworks.

All data in this report is collected between July 2022 through December 2022, unless otherwise annotated as below:

[†] Data reflecting a 'snapshot' in December 2022: Some data, such as 'number of rightsholders with access to Copyright Match Tool' can only be reported as a snapshot of a single point in time. For these, we have chosen to reflect the data at the end of H2 2022, the reporting period covered in this report.

[‡] Data reflecting a 'snapshot' in April 2023: Some data, like rate of counter notifications and Content ID disputes, look at "trailing" events. We start with the set of claims or removals made during H2 2022, but disputes and counter notifications continue to accrue after that period because they can be made at any time. For instance, a claim made on December 30, 2022 may have a dispute made on March 1, 2023. For these data points, we have chosen to take a snapshot 3 months after the end of H2 2022 in order to provide a more complete picture.

[§] While in general, claimants must provide evidence that they have initiated court action to prevent a video from being reinstated by counter notification, other forms of valid legal action, such as a Copyright Claims Board complaint, may be accepted