Pex

Empowering creators, rightsholders, and platforms to clearly communicate digital copyrights



Pex is a global video & audio search engine

Pex is a video & audio analytics & rights management platform that finds and tracks content anywhere on the Web.

Thanks to a set of proprietary algorithms, Pex is able to find copies of multimedia content across all major social platforms.

We offer independent services that helps content creators & rights holders find, measure, and leverage the value of their content.



Pex Technology

State of the art fingerprinting technology

Pex's proprietary fingerprinting technology maps the characteristic components of any given content to transform it into a compact coded representation.

Pex's fingerprinting technology functions on audio, melody, video, as well as images.



Audio & video fingerprinting technology

EXTREMELY PRECISE AND RESISTANT TO DISTORTIONS

Audio

Match length	1 second and over
Content detected	Recording, Melody, Mixes, Remixes
Modifications	Sped up / slowed down up to 10%
	Pitch change (range of variation)
	Compressed, degraded audio signal due to imperfect recording, transmission or playback/recording device
Melody identification	Semantic variations of music (Remaster, Instrumental, Live, Karaoke, Acoustic, Demo, Duet, Medley, Remix)

Video

Match length	1 second and over
Modifications	Sped up / slowed down
	Cropped
	Mash ups, sliced videos
	Color modifications, grayscale
	Subtitle or logo overlay
	Horizontal flip, shift or rotation
	Compressed, degraded video signal due to imperfect recording, transmission or playback / recording device, noisy video

Pex built the world's largest video and audio database

The database represents the catalogue of all publicly available content on all major User Generated Content (UGC) platforms since their creation. This means that not only can Pex find copies moving forward, it can also find all historicals copies of a video or a song in just a few minutes, across all platforms.

18B

18 billion videos and songs indexed to date



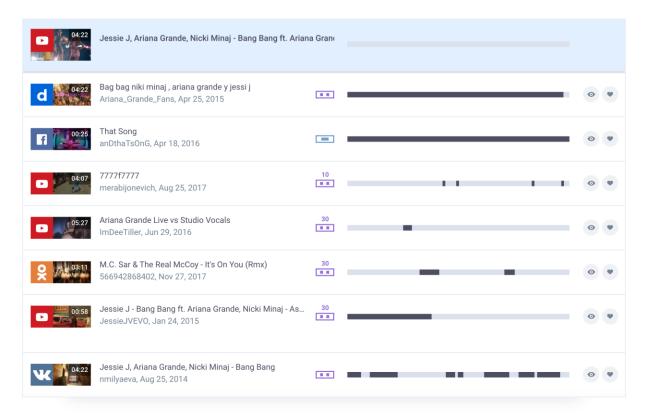
Over 50 million videos and songs added each day



All metadata (title, views, length, etc.) is updated daily

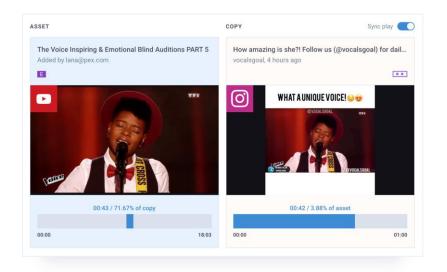
Examples

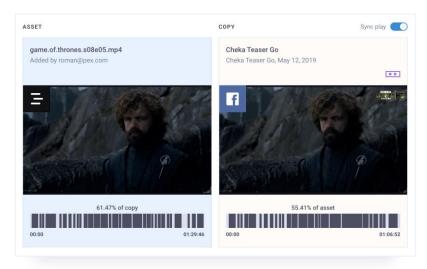
Copy results





Match review





Data on one song



Jessie J - Bang Bang

DISCOVER

NUMBER OF COPIES

255K

TOTAL VIEWS ON YT ORIGINAL

1.42B

TOTAL VIEWS, WITH COPIES

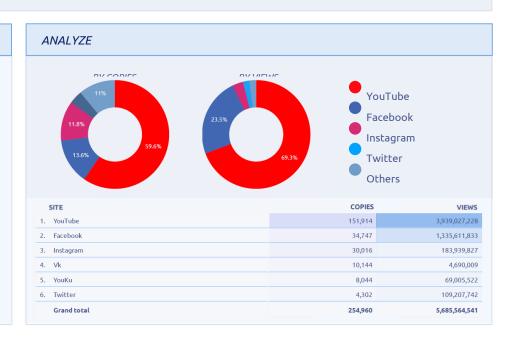
5.69B

UNIDENTIFIED VIEWS ON YT

852M

OTHER NON-MONETIZED VIEWS

1.7B



Attribution Engine

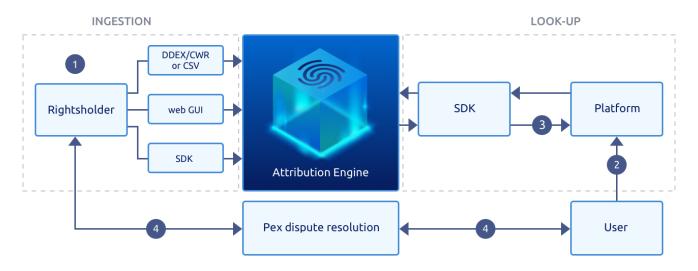
What is Attribution Engine

Attribution Engine is an automated clearinghouse for digital copyrights.

Built on top of our technology, the Attribution Engine enables digital media-sharing platforms to identify copyrighted material at the point of upload, and rightsholders to clearly communicate their copyrights and licensing requirements to platforms.



How it works



- 1 Rightsholders register media files/fingerprints, metadata, and licensing policies.
- When a user uploads to a platform, a fingerprint is generated and sent to the Attribution Engine via the SDK.
- 3 If copyrighted content is found, the licensing rule is returned to the platform.
- 4 If the user disagrees with the rule applied, they can dispute the application.

Features of Attribution Engine

For platforms

- No implementation costs, no maintenance costs, no penalty based on the amount of content to process (Pex takes a small % of revenue share from content licensed on the platform)
- ▶ Simple Software Development Kit (SDK) implementation to require minimal resources from the platform
- Capability to process 1,100 hours of content every second, allowing us to scale with the growth of online content
- Pex facilitates dispute resolution between uploaders and rightsholders
- ▶ Guaranteed lookup time within 5 seconds, enabling real-time uploads and live-streaming

Features of Attribution Engine

For rightsholders

- ▶ Rightsholders can use the Attribution Engine free of charge in perpetuity
- ▶ All rightsholders, not just a select few, can utilize the system
- Multiple ways to register content in order to help rightsholders large and small: DDEX, CSV, web interface, SDK, etc. (content file is not required)
- ▶ Rightsholders have granular control over which platforms and territories are cleared, licensed, or blocked
- Pex combines various copyright data to provide a complete ownership picture for any content
- ▶ Rightsholders are provided usage reports on the re-uses of their works

Features of Attribution Engine

For creators / users

- Pex recognizes all license types including public domain and creative commons
- Creators can look up what copyrighted content can be cleared or licensed
- Immediate identification of copyright status at the moment of the upload to reduce uncertainty
- The dispute resolution process enables quick resolutions of disputes between rightsholders and content uploaders

