

## How to Scrape TikTok to Obtain Video Information?



Michael Lee

Expert Network Defense Engineer

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TikTok is one of the leading social media platforms with massive traffic. Just imagine how much valuable data TikTok can provide!

In this article, we'll explain how to scrape TikTok video information. Additionally, we'll demonstrate scraping this data through TikTok's hidden API or embedded JSON datasets. Let's get started!

### Why Scrape TikTok?

TikTok boasts enormous social engagement, making it possible to gather various insights for different use cases:

#### Trend Analysis

Trends on TikTok change rapidly, making it challenging to keep up with users' latest preferences. Scraping TikTok effectively captures these trend shifts and their impact, allowing for improved marketing strategies aligned with user interests.

#### Lead Generation

Scraping TikTok data enables businesses to identify marketing opportunities and new customers. This can be achieved by pinpointing influencers whose follower demographics match relevant business sectors.

#### Sentiment Analysis

TikTok web scraping serves as an excellent source for collecting text data from comments, which can be analyzed through sentiment models to gather opinions on specific topics.

### Challenges of Scraping TikTok

TikTok scraping refers to the process of extracting publicly available data from TikTok. While it may involve both manual and automated activities, it's typically an automated process executed by web crawlers or custom scripts that interact with



1. **User Profiles:** Information about TikTok users, including profile names, bios, and follower counts.

2. **Demographics:** Data related to user characteristics like age, gender, location, and interests.

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5. **Comments:** Text responses submitted by users, including text content, timestamps, and like counts.

6. **Engagement Metrics:** Information on how users interact with content (likes, comments, shares, views).

7. **Trends:** Data about popular topics, themes, or styles on TikTok.

## How to Build Your TikTok Scraper?

Let's simplify things! We now formally begin the step-by-step process of scraping TikTok video data. It's time to experience the tremendous value TikTok has to offer!

Before commencing the actual scraping process, let's first examine TikTok's video content structure together. This will enable us to more efficiently locate the required information and complete the data extraction in a more straightforward manner.

## What Data Can We Scrape from Videos?

- Video URL
- Video Description
- Music Name
- Release Date
- Tags
- Views
- Likes Count
- Comments Count
- Shares Count
- Bookmarks Count



**TikTok**

Search

- For You
- Explore
- Following
- Upload
- LIVE
- Get Coins
- Profile
- More

[Log in](#)

Company  
Program  
Terms & Policies  
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- + Likes 81.3K
- Comments 1536
- Bookmarks count 8802
- Shares count 3452

Posted date: 6d ago

Description and Tags: Kind Grandpa Does the Right Thing and Gets Rewarded! 😊+

Music title: original sound - Peter Vu And Friends

Comments (1532):

- Tony Montana: How come the men can not see it from the window? 😂😂😂 63
- Zahid: good 1
- Aung Tun: ok 1

## Video Page Analysis

To make data scraping more intuitive, we will analyze the following video as a reference:

<https://www.tiktok.com/@petervufriends/video/7476546872253893934>.

We firmly protect the privacy of the website. All data in this blog is public and is only used as a demonstration of the crawling process. We do not save any information and data.

## How to Locate the Data We Need?

Let's dive deep into the HTML structure! Here's what we need to extract from this video:

### View Count

The view count is typically prominently displayed on the video page. Simply open the developer tools and locate the relevant tag:

Python Copy



Screenshot of the Scrapeless browser extension interface showing a grid of TikTok video thumbnails. A red arrow points from the UI to the browser's developer tools (Elements tab) where a specific video's HTML code is highlighted. The highlighted code includes a `strong` element with the class `video-count` containing the text "281.4K".

```

<strong video-count="281.4K" class="video-count" data-e2e="search-common-link" data-label="Match more videos from the #KindnessMatters category" href="https://www.tiktok.com/@petervfriends/video/7483210454588019844">281.4K

```

## Video Description & Tags

As we initially observed, the video description and tags usually appear in the same section. However, some videos may not have descriptions or tags.

Screenshot of the Scrapeless browser extension interface showing a TikTok video page. A red arrow points from the UI to the browser's developer tools (Elements tab) where the video's description is highlighted. The description text is: "A Struggling Man's Integrity Is Put to the Test – The Results Are Heartwarming! 🌟 #KindnessMatters".

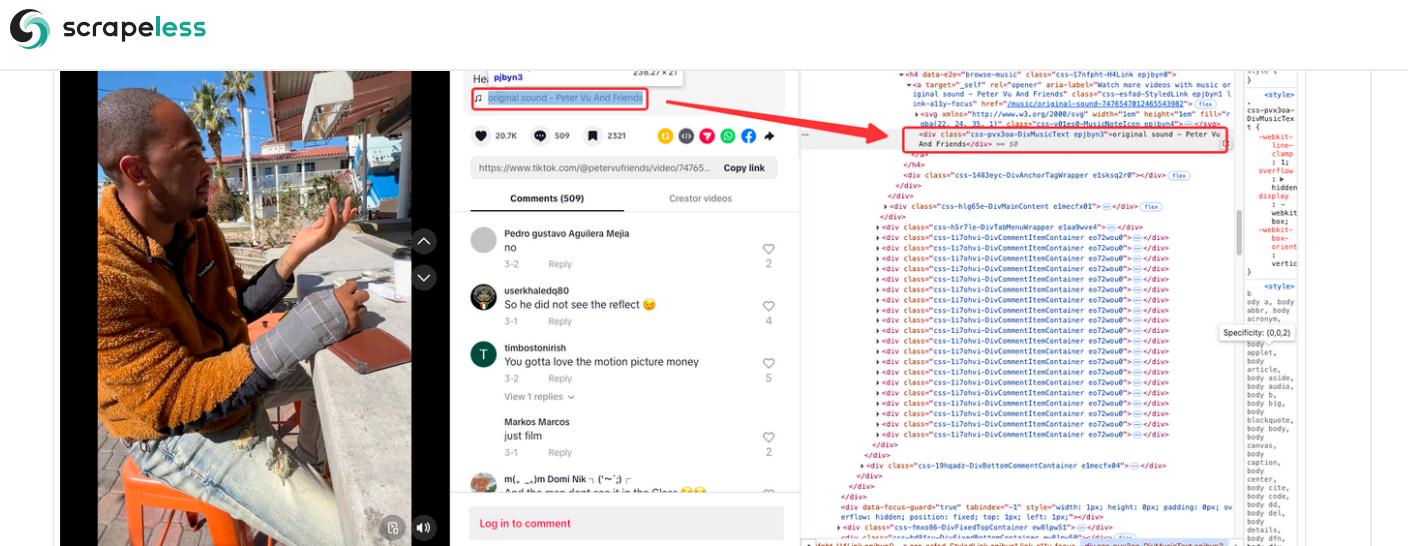
```

A Struggling Man's Integrity Is Put to the Test – The Results Are Heartwarming! 🌟 #KindnessMatters

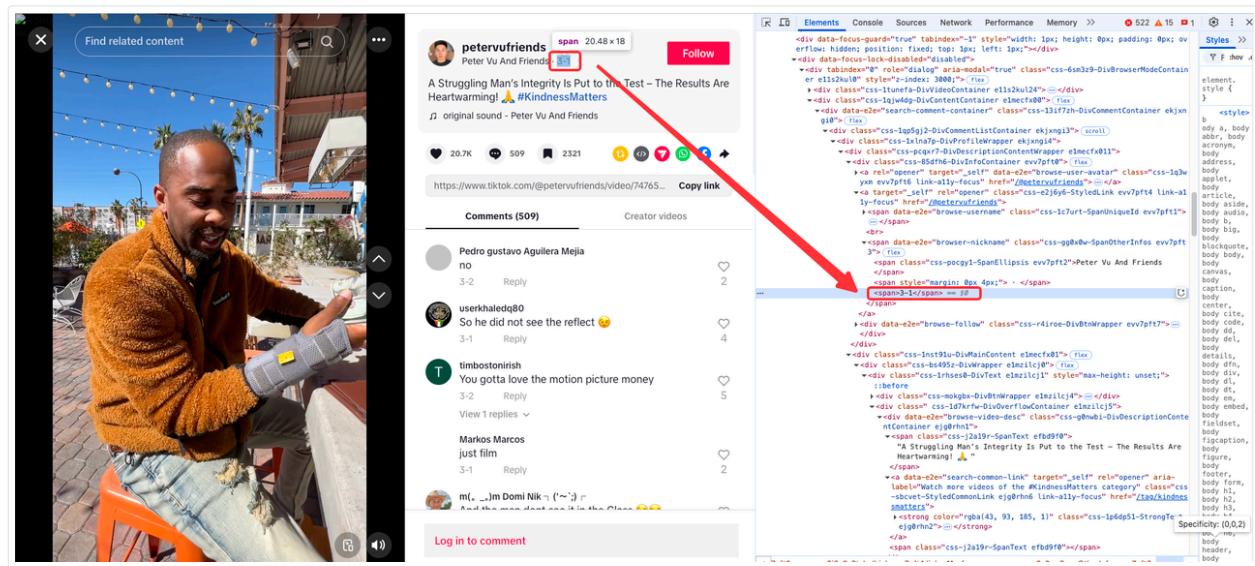
```

- **Video description** is inside a `<span>` with a unique class: `css-j2a19r-SpanText`.
- **Video tags** are separate but share the same attribute: `data-e2e="search-common-link"`.

## Music Title



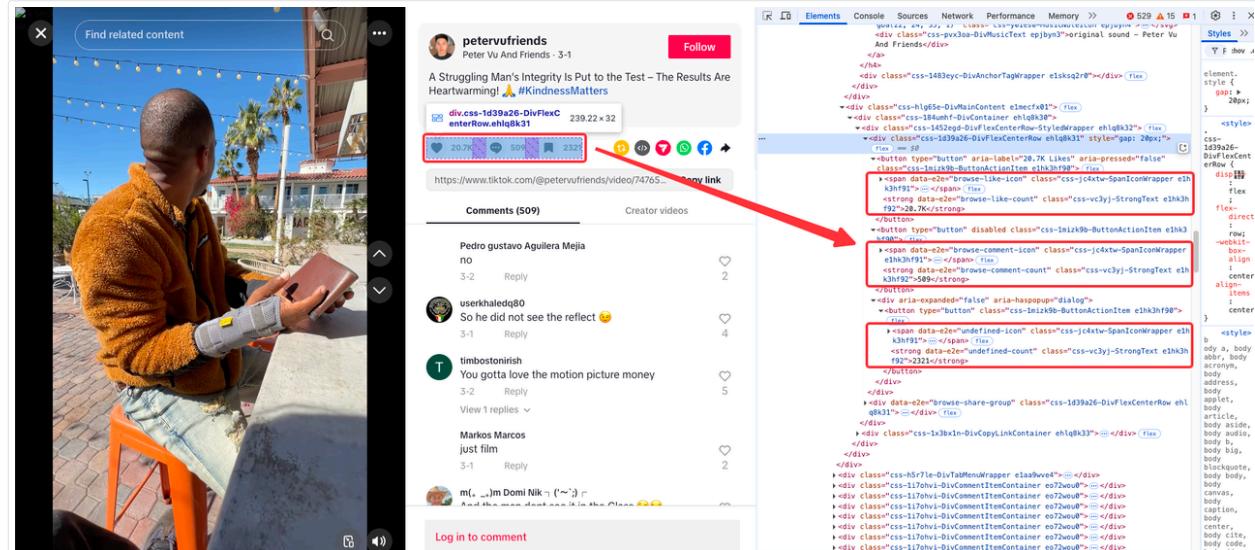
### Upload Date



The date is isolated as the last `<span>` within a parent element containing the attribute: `data-e2e="browser-nickname"`.

#### **Like, Comment, and Bookmark Counts**

These metrics usually appear together, and you can find them under the same collection:



To simplify your scraping process, here's a summary of the essential selectors:

- **Video URL:** <meta property="og:url">



- **Upload Date:** ['span[data-e2e="browser-nickname"] span:last-child']
- **Tags:** [data-e2e="search-common-link"]
- **View Count:** [data-e2e="video-views"]
- **Like Count:** [data-e2e="like-count"]
- **Comment Count:** [data-e2e="comment-count"]
- **Share Count:** [data-e2e="share-count"]
- **Bookmark Count:** [data-e2e="undefined-count"]

Congratulations! You now fully understand how to locate the necessary data. Next, let's officially build the scraper!

## Complete Scraping Code

Skipping unnecessary explanations—here's the ready-to-use scraping code for immediate implementation:

Python Copy ⌂

## Scraping Result

```

downloaded_videos
  7476546872253893934.mp4
venv
tiktok_scraper.py
tiktok_scraper.log
tiktok_video_data.json
unlocker.py
External Libraries
Scratches and Consoles

run: test x
2025-03-26 17:24:46,755 - INFO - likes: 20.7K
2025-03-26 17:24:46,755 - INFO - comments: 507
2025-03-26 17:24:46,755 - INFO - shares: 605
2025-03-26 17:24:46,755 - INFO - bookmarks: 2321
2025-03-26 17:24:46,755 - INFO - views: N/A
2025-03-26 17:24:46,756 - INFO - description: A Struggling Man's Integrity Is Put to the Test - The Results Are Heartwarming! ↗
2025-03-26 17:24:46,756 - INFO - musicTitle: original sound - Peter Vu And Friends
2025-03-26 17:24:46,756 - INFO - date: 3-1
2025-03-26 17:24:46,756 - INFO - author: N/A
2025-03-26 17:24:46,756 - INFO - tags: ['#KindnessMatters']
2025-03-26 17:24:46,756 - INFO - videoUrl: https://www.tiktok.com/@petervufriends/video/7476546872253893934
2025-03-26 17:24:46,756 - INFO - local_path: downloaded_videos/7476546872253893934.mp4

Process finished with exit code 0

```

Obviously, **we need complex programming and measures:** set delays, bypass CAPTCHA, etc. to achieve data crawling. So how to quickly obtain TikTok data? Powerful [third-party Scraping API](#) is your best choice!

## Scraping API: Collect TikTok Data Easily

### Why use an API to retrieve Walmart product details?

#### 1. Improved Efficiency

Manual search for product data is slow and error-prone. API allows automatic retrieval of Walmart product information, ensuring fast and consistent data collection.

#### 2. Accurate, real-time data

The Scrapeless API extracts data directly from Walmart product pages, ensuring that the retrieved information is up-to-date and accurate. This prevents errors caused by delayed manual entry or outdated sources.



- Inventory tracking: Check product availability to optimize supply chain management.
- Review analysis: Analyze customer feedback to improve products and services.
- Market research: Identify popular products and make informed business decisions.

## What does TikTok Scraper do?

This TikTok data scraper is a powerful unofficial TikTok API that provides you with large-scale TikTok data for your own data projects, business reports, and as a basis for new applications. With this best TikTok scraper, you can get:

- All results from the selected hashtag including details: popular videos, timestamps, views, shares, comments, and number of videos, etc.
- All posts from the selected user profile including details: name, nickname, ID, bio, followers/following, plays, shares, and comments, etc.
- Individual video posts with specific video URLs.
- Video and music related data.

## Scraping TikTok data using API

### Step 1. Create your API Token

To get started, you'll need to obtain your API Key from the Scrapeless Dashboard:

- Log in to the [Scrapeless Dashboard](#).
- Navigate to **API Key Management**.
- Click **Create** to generate your unique API Key.
- Once created, simply click on the API Key to copy it.

API Key	Status	Created	Expiration Date	IP Whitelist	Call Logs	Note	Operations
[Redacted]	Active	Nov 25, 2024 17:45	Jan 01, 10000 07:59		<a href="#">Detail</a>	default token	<a href="#"></a> <a href="#"></a>

### Step 2. Enter TikTok API

- Click Scraping API under For Data
- Find TikTok and enter



The screenshot shows the Scrapeless platform interface. On the left, there's a sidebar with sections like 'For Scraping', 'For Data', 'Analytics', 'Billing', 'Subscription', and 'Settings'. Under 'For Scraping', 'Scraping API' is selected and highlighted with a red box. The main area displays several services: Shopee, Shopee Stock, Amazon, Walmart, Lazada, Arrow, Shein, TikTok (which is also highlighted with a red box), Temu, Solucoes Certidão Internet, Solucoes, Kayak, and Expedia. A message at the bottom right says 'More services coming soon :)'.

### Step 3. Request parameter configuration

The TikTok actor currently has two scraping scenarios:

- **TikTok search info:** Scrape video search results for specific keywords.
- **TikTok user info:** Scrape profile information of a specified user.

There will be different action requests in each scenario. You can click the folding arrow to find the data information you need to scrape accurately. Take TikTok search info as an example:

The screenshot shows the configuration for the 'scraping.tiktok.search' scenario. It includes fields for 'API Key' (with a 'Copy' button) and parameters for 'action' (set to 'search\_users'), 'count' (set to 10), and 'offset' (set to 0). A large red arrow points from the text 'A red arrow points to the "search\_users" option in the dropdown menu.' to the 'search\_users' option in the 'action' dropdown menu, which is also highlighted with a red box. The 'action' dropdown also contains 'search\_videos' and 'top\_search' options.

Are you ready? After understanding the basic information, we can officially start scraping data!

- Now you only need to complete the parameter configuration on the left side of the actor according to your needs



The screenshot shows the Scrapeless interface for scraping TikTok video data. On the left sidebar, under 'For Scraping', 'Scraping API' is selected. In the main area, an 'API Key' dropdown is set to '30DFA1' and a 'Copy' button is visible. A red box highlights the search parameters: 'action' is 'search\_users', 'keyword' is 'nike', 'count' is '10', and 'offset' is '0'. Below these fields is a 'Start Scrapping' button. To the right, there's a code editor titled 'Integrate Scrapeless Into Your Codebase' showing Python code for sending a request to the API. The Python code uses the requests library to post data with headers and JSON payload. A green button at the bottom right of the code editor says 'Run (localhost:8000)'. At the bottom of the page, a note states 'Service call pricing starts at \$2.7000 per 1k Requests. Check Analytics for details.' with a 'View All Prices' link.

- After confirming that everything is correct, just click Star Scrapping to easily get the scraping results.

The screenshot shows the same Scrapeless interface after the 'Start Scrapping' button was clicked. A red arrow points from the 'Start Scrapping' button to the 'Task finished successfully' message in a green box at the bottom right. The message contains a checkmark icon and the text 'Task finished successfully.'

## Get the TikTok Video Data Now!

From now on, you should have a working scraper that can extract data from TikTok. This is a great start, but you can definitely go further.

Whether you are analyzing TikTok trends, conducting research, or satisfying your data curiosity, you now have powerful tools to explore the TikTok data warehouse without many headaches.

The Scrapeless Scraping API saves you from the hassle of complex code. Simply configure a few parameters to get the latest data instantly.

[Start a free trial now!](#)

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## Scrapeless Deep SerpApi: The Fastest Google Search Data API for SEO & LLMs and RAG

Scrapeless Deep SerpApi has been online. Figure out more about this powerful tool.

Alex Johnson 05-Mar-2025

A screenshot of the Scrapeless Deep SerpApi landing page. It features a dark header with the Scrapeless logo and the text "Scrapeless Deep SerpApi". Below the header, it says "Google Search API: Starting at just 0.1\$/1K" with a small orange graphic. The main content area has a dark background with white text: "Introducing Scrapeless: Intelligent Web Scraping Toolkit is Officially Launched — Unlock a New Era of Data Scraping!". Below this, there's a snippet of text: "Scrapeless is launching globally! It is an advanced web scraping solution designed to help enterprises simplify data acquisition with..." and the author information "Alex Johnson 06-Jan-2025".

## Introducing Scrapeless: Intelligent Web Scraping Toolkit is Officially Launched — Unlock a New Era of Data Scraping!

Scrapeless is launching globally! It is an advanced web scraping solution designed to help enterprises simplify data acquisition with...

Alex Johnson 06-Jan-2025



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Learn how to efficiently scrape product details from Google Shopping using Scrapeless. Get accurate data on prices, descriptions, and...

Emily Chen 28-Feb-2025

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