

YouTube SEO Keyword Pro

This is a single-file, AI-powered tool designed to help content creators generate highly optimized titles, keywords, and content ideas for YouTube videos to maximize search visibility and viral potential.

The application is built using **HTML, Tailwind CSS, and pure JavaScript** and uses the **Gemini API** with **Google Search Grounding** for real-time data analysis.

🚀 Key Features

1. Generate Keywords & Title:

- Suggests a high-CTR, SEO-optimized title.
- Provides researched High-Ranking Keywords and Strategic Long-Tail Keywords.
- Generates Top Trending Hashtags.
- Results can be downloaded instantly as a `.txt` file for easy copying into YouTube Studio.
- Uses Google Search for real-time trend analysis.

2. ⚡ Generate SEO Description Draft:

- Creates a fully structured, SEO-friendly video description draft based on the topic.

3. ⚡ Brainstorm Related Video Ideas:

- Researches complementary trending content to suggest 5-7 ideas for a follow-up video series.
- Uses Google Search for content gap analysis.

🛠 How to Run Locally or Deploy

Since this is a single HTML file, deployment is extremely simple.

Option 1: Quick Local Run

1. Save the `index.html` file.
2. Open the file directly in any web browser.

Option 2: Deploy to GitHub Pages (Recommended)

1. **Commit:** Add `index.html` and this `README.md` to your GitHub repository.
2. **Settings:** Go to your repository's **Settings** tab.
3. **Pages:** Navigate to the **Pages** section.
4. **Source:** Set the source to your main branch (e.g., `main` or `master`) and select the root directory (`/`).
5. **Deploy:** Click **Save**. Your application will be live in minutes!

🔑 API Key Configuration

This application requires access to the Google Gemini API.

Note: The JavaScript code includes `const apiKey = "";` as a placeholder. For deployment in other environments, you must obtain a key from the Google AI Studio and securely inject it into the `const apiUrl` fetch request or use an environment variable.