

# Video Editor - Universal Video Tool

---

A modern desktop application combining video downloading capabilities with a powerful video editing suite. Built with Python and PyQt6, featuring AI-powered subtitles and professional export.



## ✨ Highlights

---

- 🎬 **Download videos** from TikTok, Douyin, YouTube, and more
  - 🤖 **AI Auto Caption** with translation support (Chinese → Vietnamese)
  - ⚡ **MLX Whisper** acceleration on Apple Silicon (M1/M2/M3)
  - 📝 **Live subtitle preview** on video player
  - 🎯 **Burn subtitles** into exported videos
  - 📦 **One-click installers** for macOS and Windows
- 

## Download & Install

---

### macOS

Download `VideoEditor-macOS.dmg` → Open → Drag to Applications

### Windows

Download `VideoEditor-Setup.exe` → Run → Next → Install

[Download Latest Release →](#)

---

## Features

### Video Downloader

Platform	Status	Notes
TikTok	✓	No watermark
Douyin	✓	Auto cookie handling
YouTube	✓	Shorts + Videos
Threads	✓	Meta's platform
Facebook/Instagram	⚠	May need cookies

### Video Editor

- **Timeline:** Multi-track editing with magnetic snapping
- **Transform:** Position, Scale, Rotation controls
- **Audio:** Volume, Fade, Waveform visualization
- **Color:** Brightness, Contrast, Saturation, Hue
- **Effects:** Filters & Stickers library

### AI Features

Feature	Description
<b>Auto Caption</b>	Speech-to-text using Whisper AI
<b>Translation</b>	Auto translate to Vietnamese, English, etc.
<b>MLX Whisper</b>	5-10x faster on Apple Silicon
<b>Live Preview</b>	See subtitles on video while playing
<b>Burn-in Export</b>	Subtitles embedded in final video

## Export

- Resolution: 720p / 1080p / 4K
  - FPS: 24 / 30 / 60
  - FFmpeg bundled (no external install needed)
  - ASS subtitles with custom styling
- 

## Development Setup

---

### Prerequisites

- Python 3.9+
- FFmpeg (bundled in releases, optional for dev)

### Install

```
git clone https://github.com/faker6996/tool_dwonload_tiktok.git
cd tool_dwonload_tiktok

python -m venv venv
source venv/bin/activate # Windows: venv\Scripts\activate

pip install -r requirements.txt
playwright install
```

### Run

```
python main.py
```

### Optional: MLX Whisper (Apple Silicon only)

```
pip install mlx-whisper # 5-10x faster transcription
```

---

## Building

---

### Automatic (GitHub Actions)

Push to `main` or create a tag:

```
git tag v1.0.0
git push --tags
```

Releases will have:

- `VideoEditor-macOS.dmg` - macOS installer
- `VideoEditor-Setup.exe` - Windows installer

### Manual Build

```
# macOS
./scripts/build_mac.sh

# Windows
scripts\build_windows.bat
```

---

## Project Structure

---

```
├─ src/
│   ├── core/           # Business logic
│   │   ├── ai/         # Whisper, TTS, Translation
│   │   ├── export/     # FFmpeg renderer
│   │   ├── platforms/  # TikTok, Douyin, YouTube
│   │   └── timeline/   # Timeline, Track, Clip
│   └── ui/             # PyQt6 UI
│       ├── panels/     # Player, Timeline, Inspector
│       └── dialogs/    # Export, Settings
```

```
|      └─ pages/      # Download, Edit pages
|─ scripts/          # Build scripts
|─ assets/           # Icons, resources
└─ .github/workflows/ # CI/CD
```

---

## Roadmap

---

### ✅ Completed:

- Multi-platform video download
- Timeline-based video editor
- AI auto caption with Whisper
- Translation (Chinese → Vietnamese)
- Live subtitle preview
- Subtitle burn-in export
- MLX Whisper for Apple Silicon
- Professional installers (DMG/EXE)

### ➡ SOON Future:

- Cloud sync
  - More effects & transitions
  - Keyframe animation
  - Mobile companion app
- 

## Contributing

---

1. Fork the repository
  2. Create feature branch
  3. Submit pull request
-

## License

---

Educational purposes only.

---

Made with  for video creators