

A small program that takes a 4:3 aspect ratio video file, and transforms it to a 16:9 video using the GoPro SuperView method

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superview-gui.go	Fix #28 - remove pgm files aft...	4 years ago

README

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Superview

all contributors 4

This is a small Go program that takes a 4:3 aspect ratio video file, and transforms it to a 16:9 video using the [GoPro SuperView](#) method. This means that the image is not naively scaled, but a dynamic scaling is applied where the outer areas are stretched more while the center parts stay close to the original aspect rate.

This is not a 1-1 copy of the GoPro algorithm, but an attempt to reach similar quality of output using the open-source [FFmpeg](#) encoder.

Credits for the idea go to *Banelle*, who wrote the [initial \(Python\) implementation](#).

Here is a quick animation showing the scaling, note how the text in the center stays the same:

Requirements

This program requires FFmpeg to be installed on your computer. If needed, please install it using one of these ways:

- **Linux:** install from your local package manager, for example: `apt install ffmpeg`
- **Windows:** Download from <https://www.gyan.dev/ffmpeg/builds/> and extract the `ffmpeg-release-full 7ZIP` file in the same directory as `superview`
- **macOS:** Download from <https://evermeet.cx/ffmpeg/> and put in the same folder as `superview`, or install using Homebrew: `brew install ffmpeg`

Installation

Download the latest release from the [releases page on GitHub](#). There are two versions: a graphical version called `superview-gui` and a command line program called `superview-cli`.

Usage

GUI

To run `superview-gui`, simply double-click the icon. Choose an input video file, optionally change some settings and click "Encode". The program will ask you where to save the output.



CLI

To use `superview-cli`, run the program with the `-i` (input file) parameter. Optionally, you can provide a `-o` (output) and `-b` (bitrate) parameter. Full usage instructions:

Usage:

`superview-cli [OPTIONS]`

Application Options:

`-i, --input=FILE` The input video filename
`-o, --output=FILE` The output video filename (default: output.mp4)
`-e, --encoder=ENCODER` The encoder to use, use `-h` to see a list. If not specified, it takes the standard encoder of the input file codec
`-b, --bitrate=BITRATE` The bitrate in bytes/second to encode in. If not specified, take the same bitrate as the input file
`-s, --squeeze` Squeeze 4:3 video stretched to 16:9 (e.g. Caddx Tarsier 2.7k60)

Help Options:

`-h, --help` Show this help message

Development

If you want `superview` from source, run `go build superview-gui.go` or `go build superview-cli.go` depending on which version you'd like to build. See [build.sh](#) for an example how to cross-compile.

Contributors ✨

Thanks goes to these wonderful people ([emoji key](#)):

 Roman Kuraev 🙄 💻	 dangr0 🦊	 DG 🙄 ⚠️	 Nova_Max 💻
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This project follows the [all-contributors](#) specification. Contributions of any kind welcome!

Releases 10

 **Release v0.10** Latest
on Dec 31, 2020

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Languages

 **Go** 83.7%  **Shell** 16.3%