



HANDBRAKE USER GUIDE

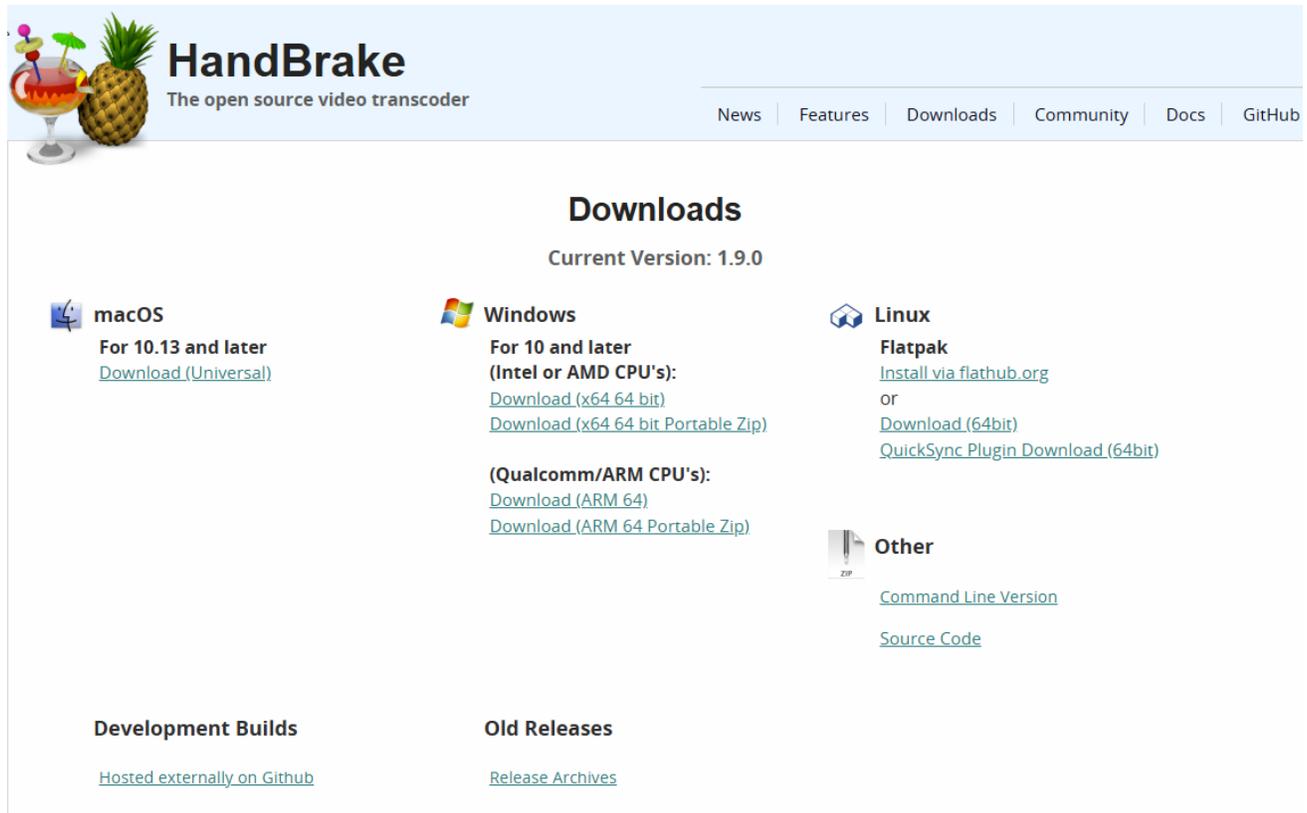
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INSTALLATION

Handbrake is a video encoding tool that you can use to change the storage size of a video with minimal loss of audio and video quality. This is useful when uploading videos to the web and sharing amongst students and colleagues. The settings provided in this guide are recommendations and can be adjusted based on your specific needs.



The screenshot shows the HandBrake website's 'Downloads' page. At the top left is the HandBrake logo featuring a cocktail glass and a pineapple, with the text 'HandBrake The open source video transcoder'. To the right are navigation links: News, Features, Downloads, Community, Docs, and GitHub. The main heading is 'Downloads' with 'Current Version: 1.9.0' below it. There are three main columns for operating systems: macOS (For 10.13 and later, Download (Universal)), Windows (For 10 and later (Intel or AMD CPU's): Download (x64 64 bit), Download (x64 64 bit Portable Zip); (Qualcomm/ARM CPU's): Download (ARM 64), Download (ARM 64 Portable Zip)), and Linux (Flatpak: Install via flathub.org, or Download (64bit), QuickSync Plugin Download (64bit)). Below these are 'Other' options: Command Line Version and Source Code. At the bottom, there are links for 'Development Builds' (Hosted externally on Github) and 'Old Releases' (Release Archives).

Visit the <https://handbrake.fr> and download the version that corresponds to your operating system.

Once installed, launch HandBrake by double-clicking the cocktail & pineapple icon (a single click may work depending on your system settings).



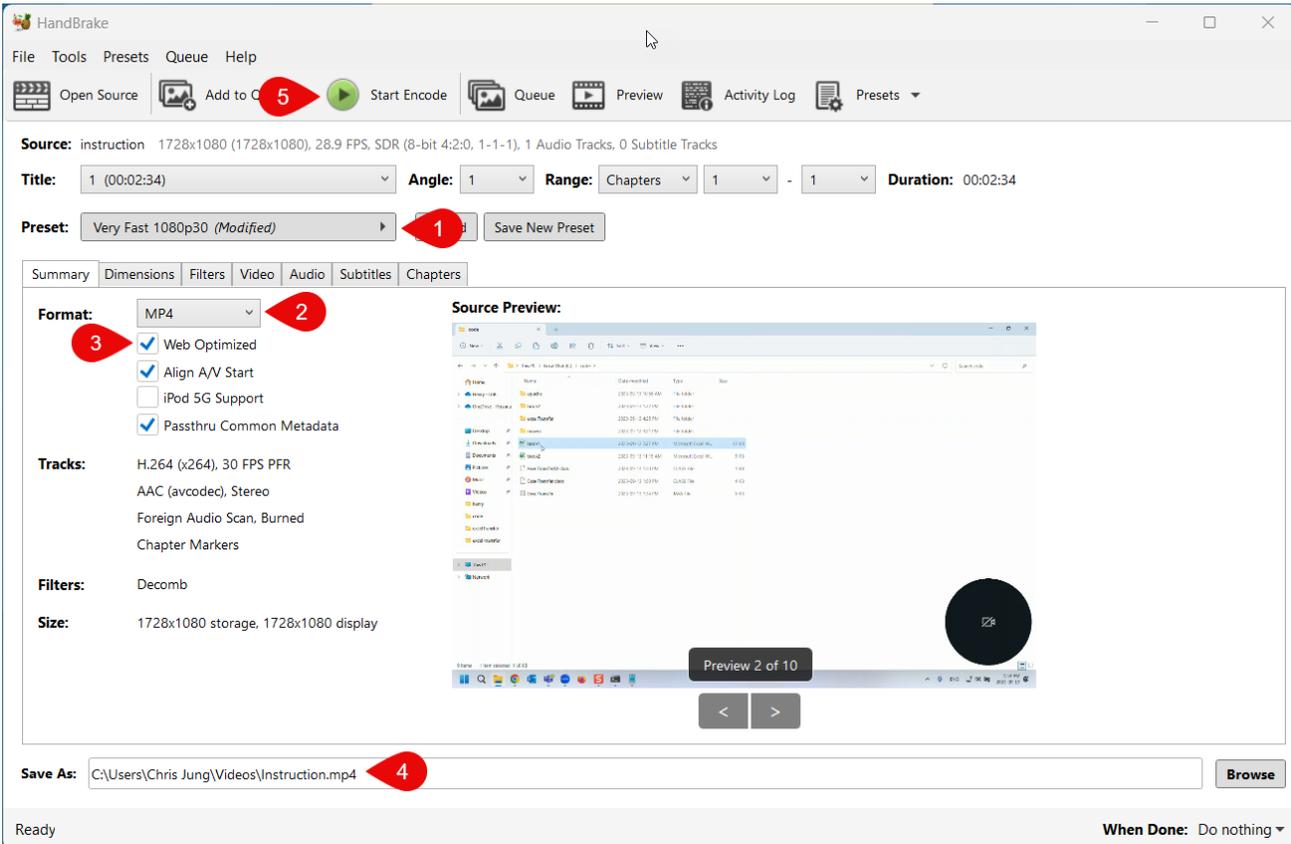
HandBrake



ENCODING

You can choose to adjust your video settings or use the presets in the summary tab to quickly encode your video.

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1. To encode quickly go to **Preset** and choose an encoding profile (choose **Very Fast 1080p30 (Modified)** for a quick high-definition video)

2. Choose a Format (Mp4 is recommended for compatibility and small file size)

3. Check the “Web Optimized” box for the smallest video optimized for sharing on the web.

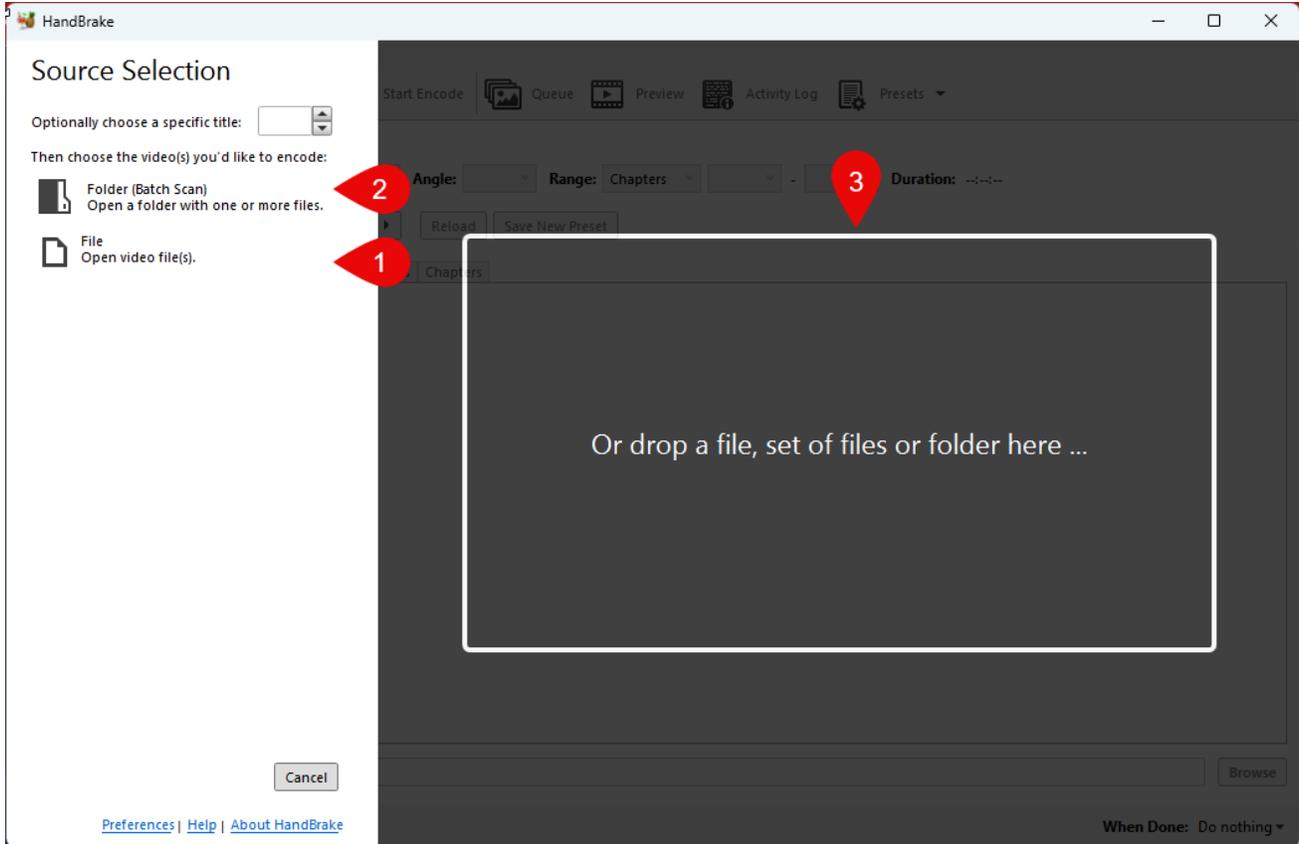
4. Click on the **Save As** field and choose the directory and file name of your new video. You can change it by typing directly in the box. You can select the **Browse** button to choose a different location. *Please take special care to note your destination. Otherwise, you won't be able to find your new video. You can move it later if you desire.*

5. Select the **Start Encode** button on the toolbar to make your new video.



ADD A FILE

The first step to encoding a video is to load your original video into Handbrake



1. Browse and open a specific video file: Use this if you have a single file to encode
2. Select a folder containing multiple files: This is helpful for batch processing
3. Alternately, you can Drag and drop files or folders to the right side of the screen..



ADJUST DIMENSIONS

When loading a video into HandBrake it will automatically be set to the video's native dimensions. You can change the dimensions of your video to fit larger or smaller screens. Changing your video to a larger dimension can result in artefacts and loss of sharpness.

The image shows the HandBrake software interface. The 'Dimensions' tab is selected, indicated by a red callout '1'. The 'Resolution and Scaling' section is expanded, showing a dropdown menu with '1080p HD' selected, indicated by a red callout '2'. The 'Final Dimensions' section has the 'Automatic' checkbox checked, indicated by a red callout '3'. The interface also shows source and final dimensions, aspect ratio, and various other settings like orientation, cropping, and borders.

1. Click on the **Dimensions** tab

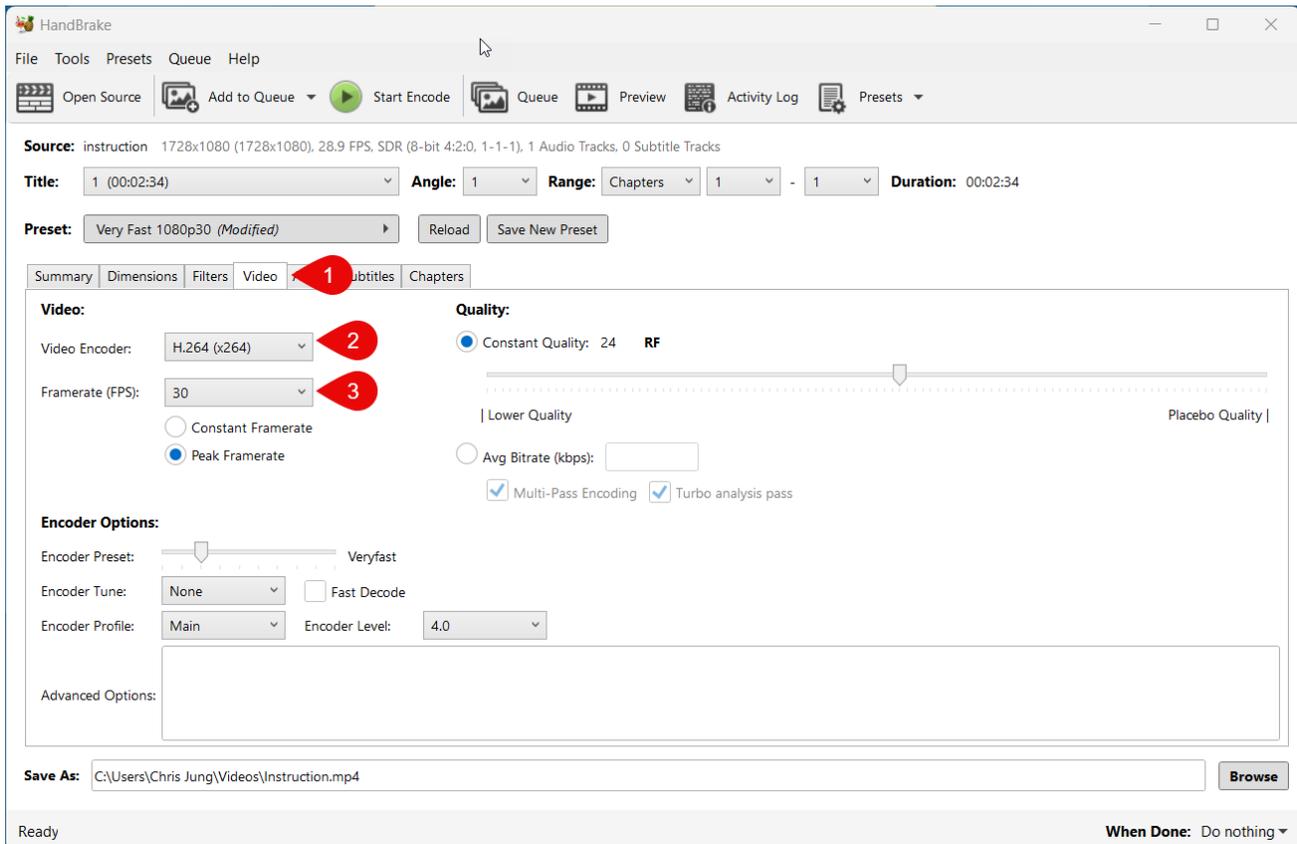
2. Under **Resolution and Scaling**, choose the type of resolution you require (e.g., "1080p HD" is recommended) for the **Resolution Limit**

3. Check the "Automatic" box to preserve your aspect ratio under **Final Dimensions**:



VIDEO SETTINGS

Adjust your video settings to set the framerate and encoding profile of your video. The lower framerate and encoder with a high compression profile will result in a video with a smaller file size, but lower playback quality.



1. Click the **Video** tab

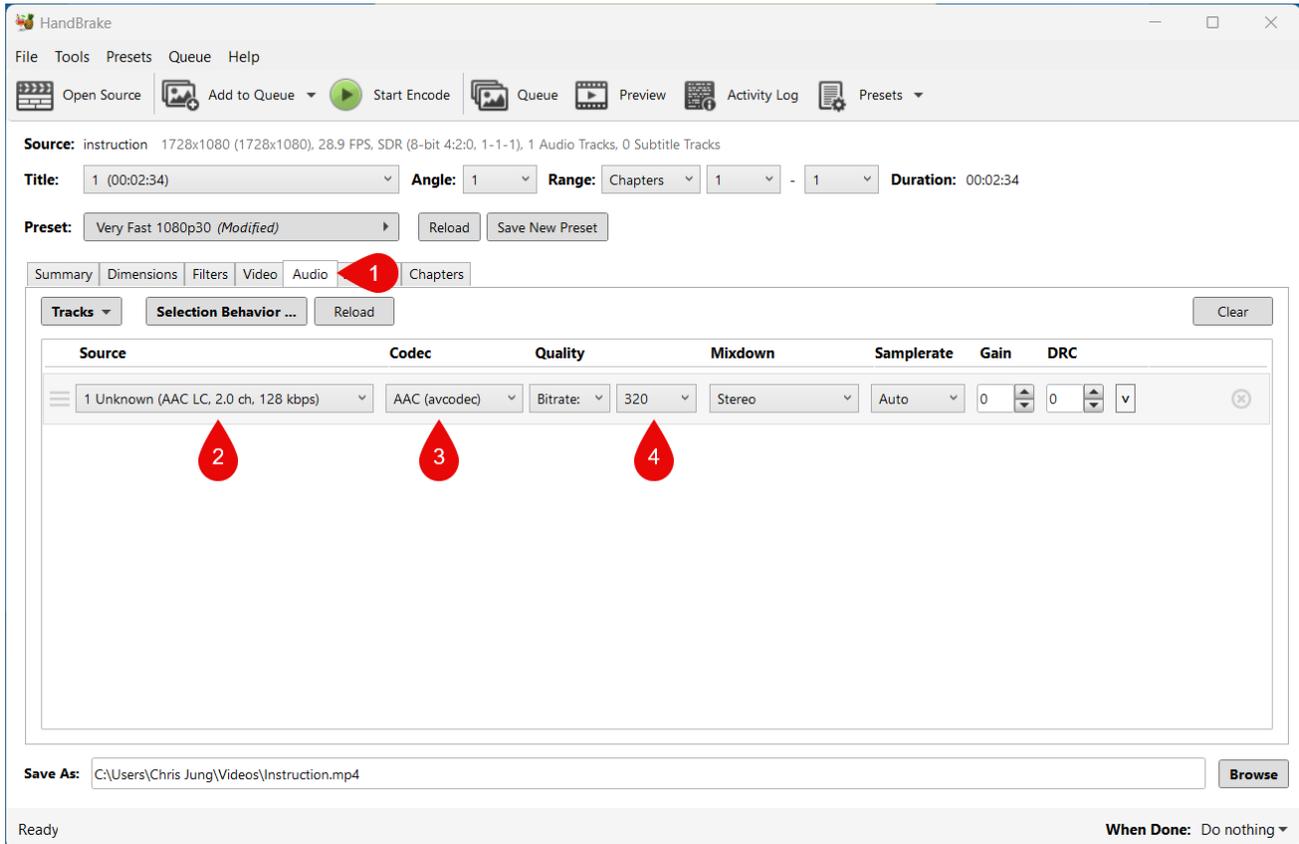
2. Under **Video Encoder**, choose an encoding profile (H.264 (X264) recommended). This is necessary to reduce the file size of your video.

3. **Adjust the Framerate (FPS):** The native framerate of your video will be displayed here, but you can further reduce your video size by reducing the framerate (NOTE: a low framerate will make your video choppy).



AUDIO SETTINGS

Adjust your audio settings to further reduce your file size or modify your audio mix from stereo to mono.
Note: that adjusting the audio will not enhance the original audio quality.



1. Click the **Audio** tab
2. Review the current audio settings under **Source**.
3. **Codec**, choose the audio codec you would like to convert to (AAC (avcodec) is suggested for the most lossless audio)
4. Under **Quality**, choose a Bitrate (320 bits are suggested)