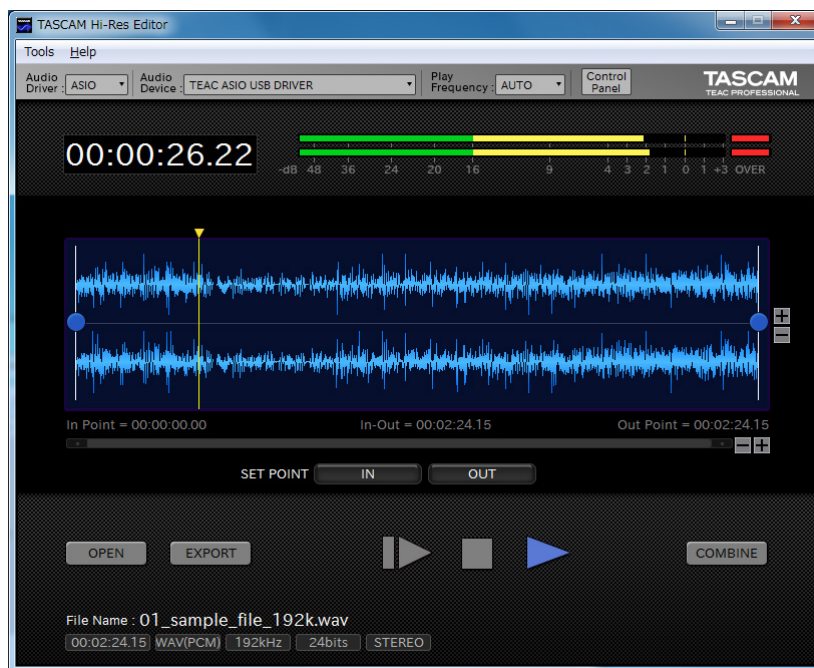


# TASCAM

D01264620A

# TASCAM Hi-Res Editor

## User's Manual



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TASCAM Hi-Res Editor is an audio file editing application that enables the conversion and editing of high-resolution DSD/PCM files recorded on a TASCAM DA-3000 or another device.

## Overview

- Editing of high-resolution DSD/PCM files possible
- Supports DSD files at 2.8, 5.6 and 11.2 MHz and PCM files at 44.1–384 kHz and 16, 24 and 32-bit
- Supports audio sources with one or two channels (mono, stereo)
- Supports Windows (Windows standard and ASIO 2.1 audio drivers)
- DSD native playback, which allows direct conversion of DSD to analog, is possible using a TEAC UD-501 or another DSD-compatible audio device

## DSD

Direct Stream Digital

- Waveform display is possible and allows intervals between set IN and OUT points to be converted and output
- Short fades can be added at IN/OUT points during file output (function can be turned on/off)
- Audio file formats and sampling frequencies, for example, can be converted  
Format conversion: PCM ← → DSD  
Convert sampling frequencies and quantization bit depths as desired
- Combine function can be used to join two audio files
- Editing with just a computer is possible

## Conventions used in this manual

The following conventions are used in this manual.

- DSD (.dsf/.dff) and PCM (.wav) files are sometimes referred to generally as “audio files”.
- Information shown on a computer display is written like this: “OPEN”.
- Additional information is provided as necessary as tips, notes and cautions.

### TIP

*These are tips about how to use the application.*

### NOTE

*These provide additional explanations and describe special cases.*

### CAUTION

*Failure to follow these instructions could result in injury, damage to equipment or lost recording data, for example.*

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## Operating environment

### Software specifications

#### ■ Audio file formats

DSD: DSF (.dsf), DSDIFF (.dff)  
PCM: WAV (.wav)

#### ■ File modes

Stereo, mono

#### ■ Sampling frequencies

DSD: 2.8, 5.6, 11.2 MHz  
PCM: 44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384 kHz

#### ■ Quantization bit depth

DSD: 1-bit  
PCM: 16-bit, 24-bit, 32-bit float

### System recommendations

#### ■ Supported operating systems

Windows 7 SP1 or later (32-bit, 64-bit)  
Windows 8/8.1 (32-bit, 64-bit)

#### NOTE

*This application cannot be used with Windows XP or Windows Vista.*

#### ■ Computer hardware requirements

Windows-compatible computer

#### ■ CPU

Intel Core i-Series or later recommended

#### ■ Memory

2 GB or more (at least 4 GB recommended)

#### ■ Open disk space

At least 150 MB necessary

#### ■ Display resolution/colors

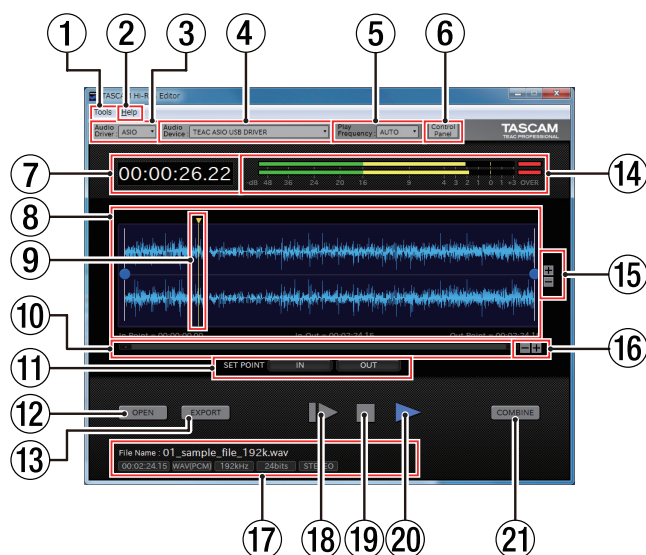
1024×768 (XGA) or larger (at least 1280×800 recommended)  
True Color (32-bit) recommended

#### ■ Required hardware

Windows-compatible audio interface or sound card (WASAPI or ASIO 2.1 or later)

## Names and functions of parts

### Home Screen overview



#### ① Tools

Opens the TOOLS menu.

OVER Indicator: Sets the amount of time that the OVER indicator lights.

Option	Meaning
Holds 2 sec. (default value)	OVER indicators disappear two seconds after lighting.
Holds Until Clicked	OVER indicators do not automatically disappear after lighting. Click an OVER indicator to make it disappear.

#### ② Help

Opens the HELP menu.

Manual: Select and click Japanese or English to open the operation manual for that language.

About: This shows the following options. Click an option to show related information on the screen.

Option	Meaning
This application	This opens the “About this application” screen that shows the software version.
Licenses	This opens the “Licenses” screen that shows information related to the open source software (OSS) used by this application.

③ **Audio Driver setting**

Sets the audio driver used for playback.

④ **Audio Device setting**

Sets the audio device used for playback.

⑤ **Play Frequency setting**

Sets the sampling frequency used for playback.

When set to AUTO, the open file will be played back at its sampling frequency.

⑥ **Control Panel button (ASIO only)**

Click this button when the Audio Driver setting is ASIO to open the setting screen for the device set as the "Audio Device".

⑦ **Time counter**

This shows the elapsed time during file playback.

When stopped, the playback time can be input to change the playback position. (See "Changing the playback position" on page 6)

⑧ **Waveform display**

This shows the waveforms of the audio file.

The IN/OUT points are shown with the audio file waveforms. (See "Setting IN/OUT points" on page 7)

⑨ **Cursor**

This shows the playback position. Click the waveform display area to move the cursor (playback position) to that point. (See "Changing the playback position" on page 6)

⑩ **Scrollbar**

When the waveform display is zoomed in, drag the scrollbar left or right to move the waveform left or right.

⑪ **SET POINT (IN/OUT) buttons**

Sets the IN/OUT point at the cursor position. (See "Setting IN/OUT points" on page 7)

⑫ **OPEN button**

Opens the "Open Audio File" screen where you can open audio files. (See "Opening audio files" on page 5)

⑬ **EXPORT button**

Opens the "Export File" screen where file conversion functions can be set and files exported. (See "Outputting audio files" on page 7)

⑭ **Level meters**

These show the audio levels during audio file playback.

If "OVER Indicator" in the Tools menu is set to "Holds Until Clicked," clicking a lit OVER indicator at the right end of these meters will turn it off.

⑮ **Waveform area amplitude zoom in/out (+/-) buttons**

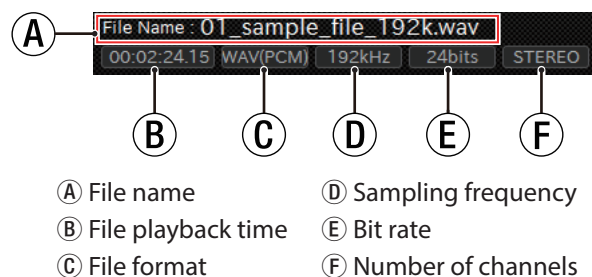
Use to zoom in/out on the waveform display in the amplitude (vertical) direction.

⑯ **Waveform area time axis zoom in/out (+/-) buttons**

Use to zoom in/out on the waveform display in the time axis (horizontal) direction.

⑰ **File information**

This shows information about the open audio file.

⑱ **▶ button**

Starts playback from the IN point. (See "Setting IN/OUT points" on page 7)

⑲ **■ button**

Stops playback of the audio file.

⑳ **▶ button**

Starts playback from the cursor position.

㉑ **COMBINE button**

Opens the "Combine Files" screen where two files can be joined together. (See "Combining audio files" on page 9)

## Opening audio files

### ■ Using the OPEN button to select a file

Click the OPEN button to open the "Open Audio File" screen, and select the file to playback.

### ■ Dragging and dropping a file to select it

Drag and drop the file you want to play to the TASCAM Hi-Res Editor screen.

## Selecting the audio device for audio output

1. Connect the audio device for audio output to the computer.
2. Click the Audio Driver setting area, and click the type of audio driver to use to set it.  
Options: ASIO (default value), WASAPI  
The selected audio driver will be shown. This enables the selection of an audio device that is compatible with the selected driver in the Audio Device area.
3. Click the options in the Audio Device setting area, and click the name of the audio device to use to set it.  
This shows the name of the selected audio device.

### NOTE

*The options shown in the Audio Device setting area depend on the drivers installed on the computer being used.*

## Playing audio files

1. Open a DSD file or PCM file for playback (audio output). (See "Opening audio files" on page 5)



- Set the audio device that outputs audio.(See "Selecting the audio device for audio output" on page 5)
- Set the sampling frequency in the Play Frequency setting area according to the desired playback (audio output) method. See "Settings by audio file type" on page 6 for details about settings.

### Changing the playback position

#### ■ Using the time counter to change the playback position

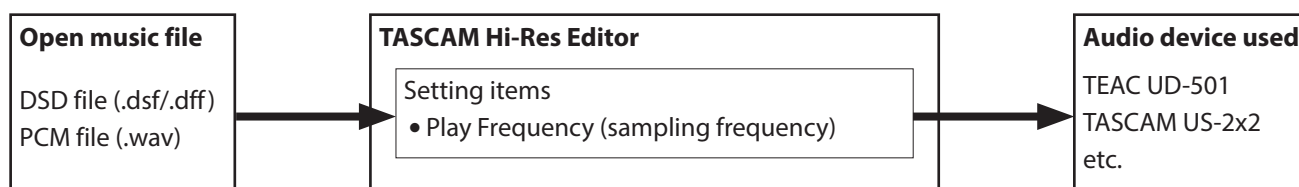
Click the time counter area and directly input the playback time to move the playback position.

#### ■ Using the cursor to change the playback position

Click the waveform display area to move the cursor (playback position) to that point.

### Settings by audio file type

Select the desired playback (audio output) method according to the open music file and the audio device used, and set the Play Frequency setting area.



Open music file	Audio device used	Playback (audio output) method	Play Frequency setting
DSD file (.dsf/.dff)	Audio device that supports both DSD and PCM audio (TEAC UD-501, etc.)	Play DSD audio without conversion	Set to AUTO (or the same sampling frequency shown in the file information area at the bottom of the Home Screen).
		Convert the sampling frequency of DSD audio and play as DSD audio	Set the sampling frequency to a value different from that shown in the file information area at the bottom of the Home Screen Options: 2.8 MHz, 5.6 MHz, 11.2 MHz
		Convert DSD audio to PCM audio and play it	Set the sampling frequency as desired. Options: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz
	Audio device that supports only PCM audio (TASCAM US-2x2, WASAPI device, etc.)	Convert DSD audio to PCM audio and play it	Set the sampling frequency as desired. For a WASAPI device, make the setting in the Windows Control Panel. Options: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz
PCM file (.wav)	Audio device that supports both DSD and PCM audio (TEAC UD-501, etc.)	Convert PCM audio to DSD audio and play it	Set the sampling frequency as desired. Options: 2.8 MHz, 5.6 MHz, 11.2 MHz
		Play PCM audio without conversion	Set to AUTO (or the same sampling frequency shown in the file information area at the bottom of the Home Screen).
		Convert the sampling frequency of PCM audio and play as PCM audio	Set the sampling frequency to a value different from that shown in the file information area at the bottom of the Home Screen Options: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz
	Audio device that supports only PCM audio (TASCAM US-2x2, WASAPI device, etc.)	Play PCM audio without conversion	Set to AUTO (or the same sampling frequency shown in the file information area at the bottom of the Home Screen).
		Convert the sampling frequency of PCM audio and play as PCM audio	Set the sampling frequency to a value different from that shown in the file information area at the bottom of the Home Screen For a WASAPI device, make the setting in the Windows Control Panel. Options: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz

## Setting IN/OUT points

Setting IN and OUT points enables the following functions.

- Only the interval between the IN and OUT points is included when a file is output. (See “Outputting audio files” on page 7)
- Click the ► button to start playback from the IN point.
- Playback will stop automatically at the OUT point.

## Setting the IN/OUT points

### ■ Setting with the waveform display area markers

Drag the blue circles left and right to set the positions of the IN and OUT points.

### ■ Setting with the SET POINT IN/OUT buttons

Click a SET POINT IN/OUT button to set the IN/OUT point at the cursor position.

## Outputting audio files

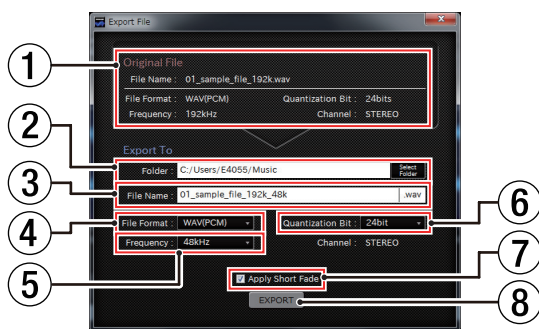
Regardless of the format and sampling frequency of the open file, you can select the format (DSD/PCM) and sampling frequency used when outputting a file. When outputting in PCM format, you can also select the quantization bit depth. See “Settings by output file type” on page 8 for details.

Only the interval between the IN and OUT points is included when a file is output.

- Outputting part of the open file  
Use the IN and OUT points to set the interval to be output to the file.
- Outputting the entire open file

Set the IN point at the beginning of the open file and the OUT point at the end of the open file. (The IN and OUT points are at these positions when a file is first opened.)

Click the EXPORT button on the Home Screen to open the following screen.



### ① Original File information

This shows information about the open audio file.

### ② Folder

Input the folder where the audio file will be output.

Click the Select Folder button to open the Select Destination Folder screen where folders can be selected.

### ③ File Name

Input the name to use for the output audio file.

### ④ File Format

Set the audio file format to use for the output audio file.

Options: WAV (PCM), DSDIFF (DSD), DSF (DSD)

### ⑤ Frequency

Set the sampling frequency to use for the output audio file. The options shown depend on the File Format setting.

File Format setting	Frequency options
WAV (PCM) (default value)	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz
DSDIFF (DSD)	2.8 MHz, 5.6 MHz, 11.2 MHz
DSF (DSD)	

### ⑥ Quantization Bit

Set the quantization bit depth of the output audio file. The options shown depend on the File Format setting.

File Format setting	Frequency options
WAV (PCM)	16-bit, 24-bit, 32-bit float
DSDIFF (DSD)	1-bit (fixed)
DSF (DSD)	

### ⑦ Apply Short Fade option

Turn the short fade function on or off. (See “Turning the short fade function on/off” on page 8)

### ⑧ EXPORT button

Start file conversion.

## Outputting audio files

1. Open the source audio file. (See “Opening audio files” on page 5)
2. To output only part of the open audio file, use the IN and OUT points to set the interval to be output to the file.

### NOTE

*To output the entire open file, set the IN point at the beginning of the open file and the OUT point at the end of the open file.*

*The IN and OUT points are at these positions when a file is first opened.*

3. Click the EXPORT button on the Home Screen to open the Export File screen.
4. Set the audio file format, sampling frequency and quantization bit rate for the output audio file. See “Settings by output file type” on page 8 for details about settings.
5. Set whether or not to add short fades to the output audio file. (See “Turning the short fade function on/off” on page 8)
6. Click the EXPORT button at the bottom of the screen.

The “Exporting...” screen opens and file output starts.

7. “Completed.” appears when file output is finished.

Click the “OK” button.

#### NOTE

- *When outputting a file, the size of the output file could be larger than the original file.*  
*When outputting files for playback on another device, be sure to confirm the maximum file size and other operation limits of that device.*
- *Due to limits of the file format, PCM (.wav) files larger than 4GB cannot be made.*

#### Turning the short fade function on/off

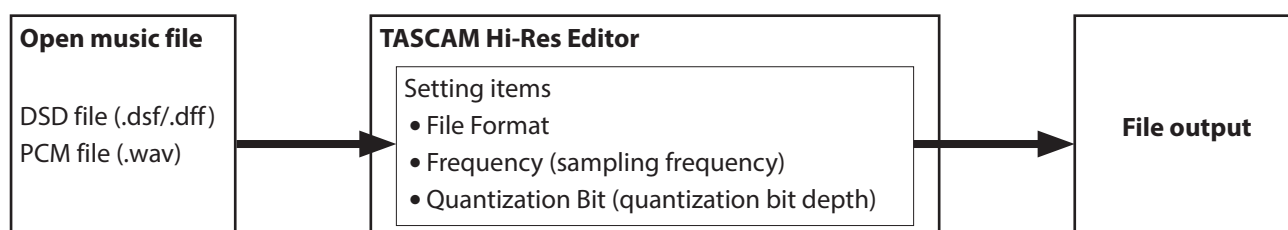
When this software is installed, the short fade function is on by default. (A check (✓) appears in the box next to “Apply Short Fade”.)

When the short fade function is on (✓ appears next to “Apply Short Fade”), a fade in and fade out will be added to the beginning and end of the output audio file.

Remove the check (✓) to turn the short fade function off.

#### Settings by output file type

Select the desired file output method according to the open music file, and set “File Format”, “Frequency” and “Quantization Bit” in the “Export to” area.



Open music file	File output method	“Export to” area settings
DSD file (.dsf/.dff)	Output DSD audio to a file without conversion	Set “File Format” to “DSDIFF (DSD)” or “DSF (DSD)” and set “Frequency” to the same value as shown in the “Original File” area.
	Convert the sampling frequency of the DSD audio and output DSD audio to a file	Set “File Format” to “DSDIFF (DSD)” or “DSF (DSD)” and set “Frequency” to a value different than the one shown in the “Original File” area. Options: 2.8 MHz (default value), 5.6 MHz, 11.2 MHz
	Convert DSD audio to PCM audio and output a file	Set “File Format” to “WAV (PCM)” and set “Frequency” and “Quantization Bit” as desired. Frequency options: 44.1 kHz, 48 kHz (default value), 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz Quantization Bit options: 16-bit, 24-bit (default value), 32-bit float
PCM file (.wav)	Convert PCM audio to DSD audio and output a file	Set “File Format” to “DSDIFF (DSD)” or “DSF (DSD)” and set “Frequency” as desired. Options: 2.8 MHz (default value), 5.6 MHz, 11.2 MHz
	Output PCM audio to a file without conversion	Set “File Format” to “WAV (PCM)” and set “Frequency” and “Quantization Bit” to the same values shown in the “Original File” information area on the Export File screen.
	Convert the sampling frequency and quantization bit depth of PCM audio and output PCM audio to a file	Set “File Format” to “WAV (PCM)” and set “Frequency” and “Quantization Bit” as desired. Frequency options: 44.1 kHz, 48 kHz (default value), 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz Quantization Bit options: 16-bit, 24-bit (default value), 32-bit float

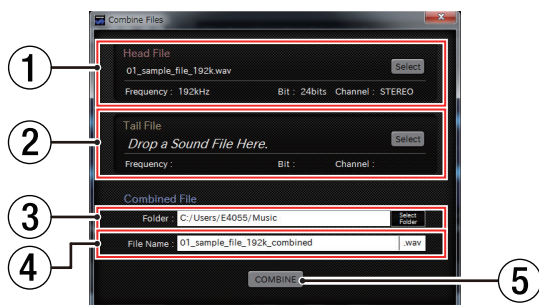


## Combining audio files

You can use the combine function of this application to join two files together.

The files to be combined must have the same file format, sampling frequency and quantization bit depth.

Click the COMBINE button on the Home Screen to open the following screen.



### ① Head File information

This shows information about the file that will become the first part of the combined file. Click the SELECT button to open the Select File screen where you can select files.

### ② Tail File information

This shows information about the file that will become the second part of the combined file. Click the SELECT button to open the Select File screen where you can select files.

### ③ Folder

Input the folder where the combined file will be saved. Click the Select Folder button to open the Select Destination Folder screen where folders can be selected.

### ④ File Name

Input the name to be used for the combined file.

### ⑤ COMBINE button

Click to start file combination.

## Procedure to combine audio files

1. Drag and drop the first file to combine to the Head File information area. You can also click the SELECT button to open the Select Audio File screen where you can select a file to combine.
2. Drag and drop the second file to combine to the Tail File information area. You can also click the SELECT button to open the Select Audio File screen where you can select a file to combine.
3. Input the folder where the combined file will be saved in the Folder area.
4. Input the name to be used for the combined file in the File Name area.
5. Click the COMBINE button at the bottom of the screen. The "Exporting..." screen will appear and file combination will start.
6. "Completed." appears when file combination is finished. Click the "OK" button.

## NOTE

- *File combination will output a file with a larger size. When outputting files for playback on another device, be sure to confirm the maximum file size and other operation limits of that device.*
- *Due to limits of the file format, PCM (.wav) files larger than 4GB cannot be made.*

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- Qt LGPL edition  
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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