
unsilence

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CHAPTER
ONE

CONTENTS

1.1 Getting started

1.1.1 Installation

To install unsilence as a command line tool, you can use pipx.

```
# Installing pipx
$ pip install pipx

# Installing Unsilence as Command Line Software
$ pipx install unsilence

# If pipx asks you to, you also need to execute the following line
# as well as close and reopen your terminal window
$ pipx ensurepath
```

If you just want to use it as a python library, you could install it using pip.

```
# Installing Unsilence as Command Line Software
$ pip install unsilence
```

To install the command line tool directly from the GitHub source, you can use this:

```
# Clone the repository (stable branch)
$ git clone -b master https://github.com/lagmoellertim/unsilence.git unsilence

# Change Directory
$ cd unsilence

# Install pip packages
$ pip install -r requirements.txt
$ pip install pipx

# If pipx asks you to, you also need to execute the following line
# as well as close and reopen your terminal window
$ pipx ensurepath

# Install unsilence package
$ pipx install .
```

To install the library from the GitHub source, you can use this:

```
# Clone the repository (stable branch)
$ git clone -b master https://github.com/lagmoellertim/unsilence.git unsilence

#Change Directory
$ cd unsilence

# Install pip packages
$ pip install -r requirements.txt

# Install unsilence package
$ python3 setup.py install
```

1.2 API Reference

This page contains auto-generated API reference documentation¹.

1.2.1 unsilence

Subpackages

`unsilence.command_line`

Submodules

`unsilence.command_line.ChoiceDialog`

Module Contents

Functions

<code>choice_dialog(console, message[, default])</code>	A simple yes/no console dialog option
---	---------------------------------------

`unsilence.command_line.ChoiceDialog.choice_dialog(console: rich.console.Console, message: str, default: bool = None)`

A simple yes/no console dialog option :param console: rich.Console Instance :param message: Message should be asked :param default: Default value when enter is pressed without an input (None, True, False) :return: Answer (True, False)

¹ Created with `sphinx-autoapi`

unsilence.command_line.EntryPoint**Module Contents****Functions**

<code>main()</code>	Entry Point if this script is run as a script instead of a library
<code>run()</code>	Run the Console Interface for Unsilence

unsilence.command_line.EntryPoint.main()

Entry Point if this script is run as a script instead of a library :return: None

unsilence.command_line.EntryPoint.run()

Run the Console Interface for Unsilence :return: None

unsilence.command_line.ParseArguments**Module Contents****Functions**

<code>convert_to_path([should_exist, should_parents_exist])</code>	Sets options for the nested class
<code>number_bigger_than_zero(s)</code>	Returns the Number representation of s if it is bigger than zero, else an error occurs
<code>parse_arguments()</code>	Parses console arguments for the Unsilence Console Interface

**unsilence.command_line.ParseArguments.convert_to_path(should_exist=True,
should_parents_exist=True)**

Sets options for the nested class :param should_exist: If the file needs to exists :param should_parents_exist: If the files parents need to exist :return: Nested Handle Function

unsilence.command_line.ParseArguments.number_bigger_than_zero(s)

Returns the Number representation of s if it is bigger than zero, else an error occurs :param s: Input string :return: Integer or None

unsilence.command_line.ParseArguments.parse_arguments()

Parses console arguments for the Unsilence Console Interface :return: List of Console Line Arguments

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`unsilence.command_line.PrettyTimeEstimate`

Module Contents

Functions

<code>format_timedelta(seconds)</code>	Generates a pretty time representation for seconds (format: hour:minute:second)
<code>pretty_time_estimate(time_data)</code>	Generates a rich.table.Table object from the time_data dict (from lib.Intervals.TimeCalculations.calculate_time)

`unsilence.command_line.PrettyTimeEstimate.format_timedelta(seconds)`

Generates a pretty time representation for seconds (format: hour:minute:second) :param seconds: Amount of seconds (can be negative) :return: String representation

`unsilence.command_line.PrettyTimeEstimate.pretty_time_estimate(time_data: dict)`

Generates a rich.table.Table object from the time_data dict (from lib.Intervals.TimeCalculations.calculate_time) :param time_data: time_data dict (from lib.Intervals.TimeCalculations.calculate_time) :return: rich.table.Table object

`unsilence.command_line.TerminalSupport`

Module Contents

Functions

`repair_console()`

`unsilence.command_line.TerminalSupport.repair_console()`

`unsilence.lib`

Subpackages

`unsilence.lib.detect_silence`

Submodules

`unsilence.lib.detect_silence.DetectSilence`

Module Contents

Functions

<code>detect_silence(input_file, **kwargs)</code>	Detects silence in a file and outputs the intervals (silent/not silent) as a lib.Intervals.Intervals object
---	---

`unsilence.lib.detect_silence.DetectSilence.detect_silence(input_file: pathlib.Path, **kwargs)`

Detects silence in a file and outputs the intervals (silent/not silent) as a lib.Intervals.Intervals object :param input_file: File where silence should be detected :param kwargs: Various Parameters, see below :return: lib.Intervals.Intervals object

kwargs:

silence_level: Threshold of what should be classified as silent/audible (default -35) (in dB)
 silence_time_threshold: Resolution of the ffmpeg detection algorithm (default 0.5) (in seconds)
 short_interval_threshold : The shortest allowed interval length (default: 0.3) (in seconds)
 stretch_time: Time the interval should be enlarged/shrunken (default 0.25) (in seconds)
 on_silence_detect_progress_update: Function that should be called on progress update

(called like: func(current, total))

unsilence.lib.intervals

Submodules

unsilence.lib.intervals.Interval

Module Contents

Classes

<code>Interval</code>	Represents a section in time where the media file is either silent or audible
-----------------------	---

`class unsilence.lib.intervals.Interval.Interval(start=0, end=0, is_silent=False)`

Represents a section in time where the media file is either silent or audible

Initializes an Interval object :param start: Start time of the interval in seconds :param end: End time of the interval in seconds :param is_silent: Whether the interval is silent or not

property start

Get the start time :return: start time in seconds

property end

Get the end time :return: end time in seconds

property duration

Returns the duration of the interval :return: Duration of the interval

`enlarge_audible_interval(stretch_time, is_start_interval=False, is_end_interval=False)`

Enlarges/Shrinks the audio interval, based on if it is silent or not :param stretch_time: Time the interval should be enlarged/shrunken :param is_start_interval: Whether the current interval is at the start (should not enlarge/shrink) :param is_end_interval: Whether the current interval is at the end (should not enlarge/shrink) :return: None

copy()
Creates a deep copy of this Interval :return: Interval deepcopy

serialize()
Serializes the current interval into a dict format :return: serialized dict

static deserialize(serialized_obj: dict)
Deserializes a previously serializes Interval and generates a new Interval with this data :param serialized_obj: previously serializes Interval (type dict) :return: Interval

__repr__()
String representation :return: String representation

unsilence.lib.intervals.Intervals**Module Contents****Classes**

<i>Intervals</i>	Collection of lib.Intervals.Interval
class unsilence.lib.intervals.Intervals(interval_list: list = None)	Collection of lib.Intervals.Interval
	Initializes a new Interval Collection :param interval_list: list of intervals, optional
property intervals	Returns the list of intervals :return:
add_interval(interval)	Adds an interval to the collection :param interval: interval to be added :return: None
optimize(short_interval_threshold=0.3, stretch_time=0.25)	Optimizes the Intervals to be a better fit for media cutting :param short_interval_threshold: The shortest allowed interval length (in seconds) :param stretch_time: The time that should be added/removed from a audible/silent interval :return: None
__combine_intervals(short_interval_threshold)	Combines multiple intervals in order to remove intervals smaller than a threshold :param short_interval_threshold: Threshold for the shortest allowed interval :return: None
__enlarge_audible_intervals(stretch_time)	Enlarges/Shrinks intervals based on if they are silent or audible :param stretch_time: Time the intervals should be enlarged/shrunken :return: None
remove_short_intervals_from_start(audible_speed=1, silent_speed=2)	Removes Intervals from start that are shorter than 0.5 seconds after speedup to avoid having a final output without an audio track :param audible_speed: The speed at which the audible intervals get played back at (float) :param silent_speed: The speed at which the silent intervals get played back at (float) :return: The new, possibly shorter, Intervals object
copy()	Creates a deep copy :return: Deep copy of Intervals

serialize()

Serializes this collection :return: Serialized list

static deserialize(serialized_obj)

Deserializes a previously serialized object and creates a new Instance from it :param serialized_obj: Serialized list :return: New instance of Intervals

__repr__()

String representation :return: String representation

unsilence.lib.intervals.TimeCalculations**Module Contents****Functions**

<code>calculate_time(intervals,</code>	<code>audible_speed,</code>	Generates a time estimate on the time saved if the current
<code>silent_speed)</code>		speed settings get applied

unsilence.lib.intervals.TimeCalculations.calculate_time(intervals:

`unsilence.lib.intervals.Intervals.Intervals,`
`audible_speed: float, silent_speed: float)`

Generates a time estimate on the time saved if the current speed settings get applied :param intervals: Intervals which should be estimated (lib.Intervals.Intervals) :param audible_speed: The speed at which audible intervals should be played back at :param silent_speed: The speed at which silent intervals should be played back at :return: Time calculation dict

unsilence.lib.render_media**Submodules****unsilence.lib.render_media.MediaRenderer****Module Contents****Classes**

<code>MediaRenderer</code>	The Media Renderer handles the rendering of Intervals objects, so it processes the complete video and concatenates
----------------------------	--

class unsilence.lib.render_media.MediaRenderer.MediaRenderer(temp_path: pathlib.Path)

The Media Renderer handles the rendering of Intervals objects, so it processes the complete video and concatenates the different intervals at the end

Initializes a new MediaRenderer Object :param temp_path: The temp path where all temporary files should be stored

unsilence

```
render(input_file: pathlib.Path, output_file: pathlib.Path, intervals: unsilence.lib.intervals.Intervals.Intervals,  
      **kwargs)
```

Renders an *input_file* and writes the final output to *output_file* :param *input_file*: The file that should be processed :param *output_file*: Where the processed file should be saved :param *intervals*: The Intervals that should be processed :param *kwargs*: Keyword Args, see below :return: None

kwargs:

audio_only: Whether the output should be audio only (bool) *audible_speed*: The speed at which the audible intervals get played back at (float) *silent_speed*: The speed at which the silent intervals get played back at (float) *audible_volume*: The volume at which the audible intervals get played back at (float) *silent_volume*: The volume at which the silent intervals get played back at (float) *drop_corrupted_intervals*: Whether corrupted video intervals should be discarded or tried to recover (bool) *threads*: Number of threads to render simultaneously (int > 0) *on_render_progress_update*: Function that should be called on render progress update

(called like: func(current, total))

on_concat_progress_update: Function that should be called on concat progress update

(called like: func(current, total))

```
static __concat_intervals(file_list: list, concat_file: pathlib.Path, output_file: pathlib.Path,  
                           update_concat_progress)
```

Concatenates all interval files to create a finished file :param *file_list*: List of interval files :param *concat_file*: Where the ffmpeg concat filter file should be saved :param *output_file*: Where the final output file should be saved :param *update_concat_progress*: A function that is called when a step is finished

(called like function(current, total))

Returns

None

[unsilence.lib.render_media.RenderIntervalThread](#)

Module Contents

Classes

<i>RenderIntervalThread</i>	Worker thread that can render/process intervals based on defined options
<pre>class unsilence.lib.render_media.RenderIntervalThread.RenderIntervalThread(<i>thread_id</i>, <i>input_file</i>: <i>pathlib.Path</i>, <i>render_options</i>: types.SimpleNamespace, <i>task_queue</i>: queue.Queue, <i>thread_lock</i>: threading.Lock, **<i>kwargs</i>)</pre>	

Bases: `threading.Thread`

Worker thread that can render/process intervals based on defined options

Initializes a new Worker (is run in daemon mode) :param `thread_id`: ID of this thread :param `input_file`: The file the worker should work on :param `render_options`: The parameters on how the video should be processed, more details below :param `task_queue`: A queue object where the worker can get more tasks :param `thread_lock`: A thread lock object to acquire and release thread locks :param `kwargs`: Keyword Args, see below for more information

`run()`

Start the worker. Worker runs until stop() is called. It runs in a loop, takes a new task if available, and processes it :return: None

`stop()`

Stops the worker after its current task is finished :return:

```
__render_interval(interval_output_file: pathlib.Path, interval: unsilence.lib.intervals.Interval.Interval,
                  apply_filter=True, drop_corrupted_intervals=False,
                  minimum_interval_duration=0.25)
```

Renders an interval with the given render options :param `interval_output_file`: Where the current output file should be saved :param `interval`: The current Interval that should be processed :param `apply_filter`: Whether the AV-Filter should be applied or if the media interval should be left untouched :param `drop_corrupted_intervals`: Whether to remove corrupted frames from the video or keep them in unedited :return: Whether it is corrupted or not

```
__generate_command(interval_output_file: pathlib.Path, interval: unsilence.lib.intervals.Interval.Interval,
                    apply_filter: bool, minimum_interval_duration: float)
```

Generates the ffmpeg command to process the video :param `interval_output_file`: Where the media interval should be saved :param `interval`: The current interval :param `apply_filter`: Whether a filter should be applied or not :return: ffmpeg console command

```
static clamp_speed(duration: float, speed: float, minimum_interval_duration=0.25)
```

unsilence.lib.tools

Submodules

unsilence.lib.tools.ffmpeg_version

Module Contents

Functions

`is_ffmpeg_usable()`

`unsilence.lib.tools.ffmpeg_version.is_ffmpeg_usable()`

Submodules**unsilence.Unsilence****Module Contents****Classes**

<i>Unsilence</i>	Unsilence Class to remove (or isolate or many other use cases) silence from audible video parts
------------------	---

class unsilence.Unsilence.Unsilence(*input_file*: *pathlib.Path*, *temp_dir*: *pathlib.Path* = *Path('.tmp')*)

Unsilence Class to remove (or isolate or many other use cases) silence from audible video parts

Parameters

- ***input_file* (*Path*)** – The file that should be processed
- ***temp_dir* (*Path*)** – The temp dir where temporary files can be saved

detect_silence(kwargs)**

Detects silence of the file (Options can be specified in kwargs)

Parameters****kwargs** – Remaining keyword arguments are passed to *detect_silence()***Returns**A generated *Intervals* object**Return type***Intervals***set_intervals(*intervals*: unsilence.lib.intervals.Intervals.Intervals)**

Set the intervals so that they do not need to be re-detected

Parameters***intervals* (*Intervals*)** – Intervals collection**Returns**

None

get_intervals()Get the current *Intervals* so they can be reused if wanted**Returns**

Intervals collection

Return type*Intervals***estimate_time(*audible_speed*: float = 6, *silent_speed*: float = 1)**

Estimates the time (savings) when the current options are applied to the intervals

Parameters

- ***audible_speed* (*float*)** – The speed at which the audible intervals get played back at
- ***silent_speed* (*float*)** – The speed at which the silent intervals get played back at

Raises

ValueError – If silence detection was never run

Returns

Dictionary of time information

Return type

dict

render_media(*output_file*: *pathlib.Path*, ***kwargs*)

Renders the current intervals with options specified in the kwargs

Parameters

- **output_file** (*Path*) – Where the final file should be saved at
- ****kwargs** – Remaining keyword arguments are passed to *render()*

Returns

None

cleanup()

Cleans up the temporary directories, called automatically when the program ends

Returns

None

unsilence.__main__

Package Contents

Classes

<i>Unsilence</i>	Unsilence Class to remove (or isolate or many other use cases) silence from audible video parts
<i>Interval</i>	Represents a section in time where the media file is either silent or audible
<i>Intervals</i>	Collection of lib.Intervals.Interval

class unsilence.Unsilence(*input_file*: *pathlib.Path*, *temp_dir*: *pathlib.Path* = *Path('.tmp')*)

Unsilence Class to remove (or isolate or many other use cases) silence from audible video parts

Parameters

- **input_file** (*Path*) – The file that should be processed
- **temp_dir** (*Path*) – The temp dir where temporary files can be saved

detect_silence(***kwargs*)

Detects silence of the file (Options can be specified in kwargs)

Parameters

****kwargs** – Remaining keyword arguments are passed to *detect_silence()*

Returns

A generated Intervals object

Return type

Intervals

set_intervals(*intervals*: unsilence.lib.intervals.Intervals.Intervals)

Set the intervals so that they do not need to be re-detected

Parameters

intervals ([Intervals](#)) – Intervals collection

Returns

None

get_intervals()

Get the current Intervals so they can be reused if wanted

Returns

Intervals collection

Return type

[Intervals](#)

estimate_time(*audible_speed*: float = 6, *silent_speed*: float = 1)

Estimates the time (savings) when the current options are applied to the intervals

Parameters

- **audible_speed** (*float*) – The speed at which the audible intervals get played back at
- **silent_speed** (*float*) – The speed at which the silent intervals get played back at

Raises

ValueError – If silence detection was never run

Returns

Dictionary of time information

Return type

dict

render_media(*output_file*: pathlib.Path, *kwargs*)**

Renders the current intervals with options specified in the kwargs

Parameters

- **output_file** (*Path*) – Where the final file should be saved at
- ****kwargs** – Remaining keyword arguments are passed to [render\(\)](#)

Returns

None

cleanup()

Cleans up the temporary directories, called automatically when the program ends

Returns

None

class unsilence.Interval(*start*=0, *end*=0, *is_silent*=False)

Represents a section in time where the media file is either silent or audible

Initializes an Interval object :param start: Start time of the interval in seconds :param end: End time of the interval in seconds :param is_silent: Whether the interval is silent or not

property start

Get the start time :return: start time in seconds

property end
Get the end time :return: end time in seconds

property duration
Returns the duration of the interval :return: Duration of the interval

enlarge_audible_interval(stretch_time, is_start_interval=False, is_end_interval=False)
Enlarges/Shrinks the audio interval, based on if it is silent or not :param stretch_time: Time the interval should be enlarged/shrunken :param is_start_interval: Whether the current interval is at the start (should not enlarge/shrink) :param is_end_interval: Whether the current interval is at the end (should not enlarge/shrink) :return: None

copy()
Creates a deep copy of this Interval :return: Interval deepcopy

serialize()
Serializes the current interval into a dict format :return: serialized dict

static deserialize(serialized_obj: dict)
Deserializes a previously serializes Interval and generates a new Interval with this data :param serialized_obj: previously serializes Interval (type dict) :return: Interval

__repr__()
String representation :return: String representation

class unsilence.Intervals(interval_list: list = None)
Collection of lib.Intervals.Interval
Initializes a new Interval Collection :param interval_list: list of intervals, optional

property intervals
Returns the list of intervals :return:

add_interval(interval)
Adds an interval to the collection :param interval: interval to be added :return: None

optimize(short_interval_threshold=0.3, stretch_time=0.25)
Optimizes the Intervals to be a better fit for media cutting :param short_interval_threshold: The shortest allowed interval length (in seconds) :param stretch_time: The time that should be added/removed from a audible/silent interval :return: None

__combine_intervals(short_interval_threshold)
Combines multiple intervals in order to remove intervals smaller than a threshold :param short_interval_threshold: Threshold for the shortest allowed interval :return: None

__enlarge_audible_intervals(stretch_time)
Enlarges/Shrinks intervals based on if they are silent or audible :param stretch_time: Time the intervals should be enlarged/shrunken :return: None

remove_short_intervals_from_start(audible_speed=1, silent_speed=2)
Removes Intervals from start that are shorter than 0.5 seconds after speedup to avoid having a final output without an audio track :param audible_speed: The speed at which the audible intervals get played back at (float) :param silent_speed: The speed at which the silent intervals get played back at (float) :return: The new, possibly shorter, Intervals object

copy()
Creates a deep copy :return: Deep copy of Intervals

serialize()

Serializes this collection :return: Serialized list

static deserialize(*serialized_obj*)

Deserializes a previously serialized object and creates a new Instance from it :param *serialized_obj*: Serialized list :return: New instance of Intervals

__repr__()

String representation :return: String representation

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TWO**

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