

class pyflp.channel.Sampler

Bases: _SamplerInstrument

Represents the native Sampler, either as a clip or a channel.



arp

Miscellaneous functions -> Arpeggiator

au_sample_rate: int | None

AU-format sample specific.

content: Content

Sample settings • Content

cut_group

Cut group in the form of (Cut self, cut by).

Miscellaneous functions - Group

Hint

To cut itself when retriggered, set the same value for both.

delay

Miscellaneous functions -> Echo delay / fat mode

```
property envelopes: dict[Literal['Panning', 'Volume', 'Mod X', 'Mod Y', 'Pitch'],
    pyflp.channel.Envelope] | None
```

```
An Envelope each for Volume, Panning, Mod X, Mod Y and Pitch.
    Envelope / instruement settings
filter: Filter
fx: FX
    Sample settings (page) - Precomputed effects
insert
   The index of the Insert | the channel is routed to according to FL.
    "Current" insert = -1, Master = 0 and so on... till Mixer.max_inserts.
level_adjusts
    Miscellaneous functions -> Level adjustments
property lfos: dict[Literal['Panning', 'Volume', 'Mod X', 'Mod Y', 'Pitch'],
    pyflp.channel.SamplerLF0] | None
    An Leo each for Volume, Panning, Mod X, Mod Y and Pitch.
    Envelope / instruement settings (page)
property pitch_shift: int | None
    -4800 to +4800 (cents).
    RAISES:
        PropertyCannotBeSet – When a ChannelID. Levels event is not found.
playback: Playback
    Sample settings (page) - Playback
polyphony
    Miscellaneous functions -> Polyphony
property sample_path: Path | None
    Absolute path of a sample file on the disk.
    Sample settings (page) - File
    Contains the string %FLStudioFactoryData% for stock samples.
stretching: TimeStretching
    Sample settings (page) - Time stretching
time
    Miscellaneous functions -> Time
property tracking: dict[str, pyflp.channel.Tracking] | None
```

A Tracking each for Volume & Keyboard.

Miscellaneous functions -> Tracking

```
class pyflp.channel.Content
                                                                                           [source]
    Used by Sampler.
    Content
     Declicking mode Out only (no bleeding) -
    declick_mode: DeclickMode | None
                      9.0.0+
        Defaults to DeclickMode.OutOnly.
    keep_on_disk: bool | None
                      2.5.0+
        Whether a sample is streamed from disk or kept in RAM, defaults to False.
    load_regions: bool | None
        Load regions found in the sample, if any, defaults to True.
    load_slices: bool | None
        Defaults to False.
    resample: bool | None
                      2.5.0+
        Defaults to False.
```

[source]

A PAHDSR envelope for various Sampler paramters.

class pyflp.channel.Envelope

2.5.0+



See also

Sampler.envelopes

amount: int | None

Linear. Bipolar.

Туре	Value	Representation
Min	-128	-100%
Max	128	100%
Default	0	0%

attack: int | None

Linear.

Туре	Value	Representation
Min	100	0%
Max	65536	100%
Default	20000	31%

attack_tension: int | None

FL STUDIO **3.5.4**+

Linear. Bipolar.

Type	Value	Representation
Min	-128	-100%
Max	128	100%
Default	0	0%

decay: int | None

Linear.

Туре	Value	Representation
Min	100	0%
Max	65536	100%
Default	30000	46%

decay_tension: int | None

FL STUDIO 3.5.4+

Linear. Bipolar.

Туре	Value	Mix (wet)
Min	-128	-100%
Max	128	100%
Default	0	0%

enabled: bool | None

Whether envelope section is enabled.

hold: int | None

Linear.

Туре	Value	Representation
Min	100	0%
Max	65536	100%
Default	20000	31%

predelay: int | None

Linear. Defaults to minimum value.

Туре	Value	Representation
Min	100	0%
Max	65536	100%

release: int | None

Linear.

Туре	Value	Representation
Min	100	0%
Max	65536	100%
Default	20000	31%

release_tension: int | None

FL STUDIO **3.5.4**+

Linear. Bipolar.

Туре	Value	Mix (wet)
Min	-128	-100%
Max	128	100%
Default	-101	-79%

sustain: int | None

Linear.

Туре	Value	Representation
Min	0	0%
Max	128	100%
Default	50	39%

synced: bool | None

Whether envelope is synced to tempo or not.

class pyflp.channel.Filter

Used by Sampler.



```
mod_x: int | None
```

Filter cutoff. Min = 0. Max = 256. Defaults to maximum.

mod_y: int | None

Filter resonance. Min = 0. Max = 256. Defaults to minimum.

type: FilterType | None

Defaults to FilterType.FastLP.

class pyflp.channel.FX

Pre-computed effects used by Sampler.





```
See also
Sampler.fx, Reverb
```

```
boost: int | None
```

FL STUDIO 1.2.12+

Pre-amp gain. Defaults to minimum value.

Min	Max
0	256

clip: bool | None

Whether output is clipped at 0dB for boost.

crossfade: int | None

Linear. Defaults to minimum value

Туре	Value	Representation
Min	0	0%
Max	256	100%

cutoff: int | None

Filter Mod X. Defaults to maximum value. Min = 16. Max = 1024.

fade_in: int | None

Quick fade-in. Defaults to minimum value. Min = 0. Max = 1024.

fade_out: int | None

FL STUDIO **1.7.6+**

Quick fade-out. Defaults to minimum value. Min = 0. Max = 1024.

fade_stereo: bool | None

Properties derived from enum flags.

```
fix_trim: bool | None
```

Trim • Fix legacy precomputed length.

Has no effect on the value of trim.

freq_tilt: int | None

Shifts the frequency balance. Bipolar.

Min	Max	Default
0	256	128

inverted: bool | None

Named (Reverse polarity) in FL's interface.

length: float | None

Min = 0.0, Max = 1.0. Defaults to minimum value.

Named SMP START in FL's interface.

normalize: bool | None

Maximizes volume without clipping by normalizing peaks to 0dB.

pogo: int | None

Pitch bend effect. Bipolar.

Min	Max	Default
0	512	256

remove_dc: bool | None

FL STUDIO **2.5.0**+

Whether DC offset (if present) is removed.

resonance: int | None

Filter Mod Y. Min = 0. Max = 640. Defaults to minimum value.

reverb: Reverb

reverse: bool | None

Whether sample is reversed or not.

ringmod: Tuple[int, int] | None

Ring modulation returned as a tuple of (mix, frequency).

Limits for both:

Min	Max	Default
0	256	128

start: float | None

Min = 0.0, Max = 1.0. Defaults to minimum value.

Always set to 0.0 irrespective of the knob position unless a sample is loaded.

stereo_delay: int | None

FL STUDIO 1.3.56+

Linear. Bipolar.

Min	Max	Default
0	4096	2048

swap_stereo: bool | None

Whether left and right channels are swapped or not.

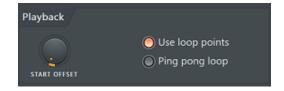
trim: int | None

Silence trimming threshold. Defaults to minimum. Linear.

Туре	Value	Representation
Min	0	0%
Max	256	100%

class pyflp.channel.Playback

Used by Sampler.



ping_pong_loop: bool | None

Properties bound directly to one of fixed size or string events.

start_offset: int | None

Linear. Defaults to minimum value.

Туре	Value	Representation
Min	0	0%
Max	1072693248	100%

use_loop_points: bool | None

Properties derived from enum flags.

class pyflp.channel.Reverb

[source]

FL STUDIO **1.4.0**+

Precalculated reverb used by Sampler.

property mix: int | None

Mix % (wet). Defaults to minimum value.

Min	Max
0	256

property type: ReverbType | None

class pyflp.channel.SamplerLFO

[source]

FL STUDIO **2.5.0**+

A basic LFO for certain **Sampler** parameters.



See also

Sampler.lfos

amount: int | None

Linear. Bipolar.

Туре	Value	Representation
Min	-128	-100%
Max	128	100%
Default	0	0%

attack: int | None

Linear.

Туре	Value	Representation
Min	100	0%
Max	65536	100%
Default	20000	31%

predelay: int | None

Linear. Defaults to minimum value.

Туре	Value	Representation
Min	100	0%
Max	65536	100%

retrig: bool | None

Whether LFO phase is in global / retriggered mode.

shape: LFOShape | None

Sine.

TYPE:

Sine, triangle or pulse. Default

speed: int | None

Logarithmic. Provides tempo synced options.

Туре	Value	Representation
Min	200	0%
Max	65536	100%
Default	32950	50% (16 steps)

synced: bool | None

Whether LFO is synced with tempo.

class pyflp.channel.TimeStretching



Used by Sampler.



mode: StretchMode | None

Properties obtained from a construct. Struct.

multiplier: float | None

Logarithmic. Bipolar.

Туре	Value	Representation
Min	0.25	25%
Max	4.0	400%
Default	0	100%

pitch: int | None

Pitch shift (in cents). Min = -1200. Max = 1200. Defaults to 0.

time: MusicalTime | None

Returns a tuple of (bars, beats, ticks).

Enums

```
class pyflp.channel.DeclickMode
                                                                                       [source]
    Crossfade = 5
    Generic = 3
    OutOnly = 0
    Smooth = 4
    Transient = 2
    TransientNoBleeding = 1
class pyflp.channel.LFOShape
                                                                                       [source]
   Used by LFO.shape.
    Pulse = 2
    Sine = 0
    Triangle = 1
class pyflp.channel.ReverbType
                                                                                       [source]
   Used by Reverb.type.
    A = 0
    B = 65536
 class pyflp.channel.StretchMode
                                                              [source]
     Auto = 5
     E2Generic = 6
     E2Mono = 8
     E2Speech = 9
     E2Transient = 7
     E3Generic = 1
     E3Mono = 2
```

Resample = 0

SliceMap = 4

SliceStretch = 3

Stretch = -1



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