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# **pycmx Documentation**

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## API Reference

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# CHAPTER 1

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## Parse Function

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`pymx.parse_cm_events.parse_cm3600` (*f*: *TextIO*)

Parse a CMX 3600 EDL.

**Parameters** *f* (*TextIO*) – a file-like object, anything that’s readlines-able.

**Returns** An `pymx.edit_list.EditList`.



## CHAPTER 2

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### pycmx Classes

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**class** pycmx.edit\_list.**EditList** (*statements*)  
Represents an entire edit decision list as returned by `parse_cmx3600()`.

**channels**  
Return the union of every channel channel.

**events**  
A generator for all the events in the edit list

**format**  
The detected format of the EDL. Possible values are: “3600”, “File32”, “File128”, and “unknown”.

**sources**  
A generator for all of the sources in the list

**title**  
The title of this edit list.

**unrecognized\_statements**  
A generator for all the unrecognized statements in the list.

**class** pycmx.event.**Event** (*statements*)  
Represents a collection of *Edit* s, all with the same event number.

**edits**  
Returns the edits. Most events will have a single edit, a single event will have multiple edits when a dissolve, wipe or key transition needs to be performed.

**number**  
Return the event number.

**unrecognized\_statements**  
A generator for all the unrecognized statements in the event.

**class** pycmx.edit.**Edit** (*edit\_statement*, *audio\_ext\_statement*, *clip\_name\_statement*,  
*source\_file\_statement*, *trans\_name\_statement=None*)  
An individual source-to-record operation, with a source roll, source and recorder timecode in and out, a transition and channels.

**aux\_source**

An auxiliary source is the source of this event.

**black**

Black video or silence should be used as the source for this event.

**channels**

Get the `ChannelMap` object associated with this Edit.

**clip\_name**

Get the clip name, as attested by a “\* FROM CLIP NAME” or “\* TO CLIP NAME” remark on the EDL. This will return `None` if the information is not present.

**line\_number**

Get the line number for the “standard form” statement associated with this edit. Line numbers are zero-indexed, such that the “TITLE:” record is line zero.

**record\_in**

Get the record in timecode.

**record\_out**

Get the record out timecode.

**source**

Get the source column. This is the 8, 32 or 128-character string on the event record line, this usually references the tape name of the source.

**source\_file**

Get the source file, as attested by a “\* SOURCE FILE” remark on the EDL. This will return `None` if the information is not present.

**source\_in**

Get the source in timecode.

**source\_out**

Get the source out timecode.

**transition**

Get the `Transition` object associated with this edit.

**class** `pymx.transition.Transition` (*transition, operand, name=None*)

A CMX transition: a wipe, dissolve or cut.

**cut**

*True* if this transition is a cut.

**dissolve**

*True* if this transition is a dissolve.

**effect\_duration**

The duration of this transition, in frames of the record target.

In the event of a key event, this is the duration of the fade in.

**key\_background**

*True* if this edit is a key background.

**key\_foreground**

*True* if this edit is a key foreground.

**key\_out**

*True* if this edit is a key out. This material will be removed from the key foreground and replaced with the key background.



**kind**  
Return the kind of transition: Cut, Wipe, etc

**wipe**  
*True* if this transition is a wipe.

**wipe\_number**  
Wipes are identified by a particular number.

**class** `pymx.channel_map.ChannelMap` (*v=False, audio\_channels={}*)  
Represents a set of all the channels to which an event applies.

**a1**  
True if A1 is included

**a2**  
True if A2 is included

**a3**  
True if A3 is included

**a4**  
True if A4 is included

**audio**  
True if an audio channel is included

**channels**  
A generator for each audio channel

**get\_audio\_channel** (*chan\_num*)  $\rightarrow$  bool  
True if *chan\_num* is included

**set\_audio\_channel** (*chan\_num, enabled: bool*)  
If *enabled* is true, *chan\_num* will be included

**video**  
True if video is included



## CHAPTER 3

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