

## 17 Editors - Timeline

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## Timeline Editor

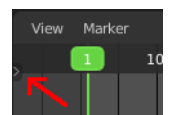
The Timeline Editor is the editor type that contains playback and record elements and some further animation settings. The Timeline editor is part of five editor types that deals with your animation data.

The Dope sheet editor has several areas. Usually you will just see the header. To reveal the rest of it you have to pull the upper border of the timeline editor upwards.

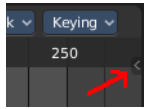


Header ( Green )

Channel list ( Green ). This channel list panel is hidden by default. You have to click at the small button up left to reveal it.



Sidebar ( Blue ). This Sidebar panel is hidden by default. You have to click at the small button up left to reveal it.



Viewport ( no color )

The header is divided into three parts too. Left tools and menus. Right Options. And in the middle the playback elements for the animation.



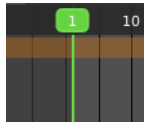
Menus ( Yellow )

Playback tools ( Green )

Options ( Blue )

## Time cursor

The Time Cursor is the green line. It is used to set and display the current time frame.



## Keyframes

The timeline displays the keyframes. Different from the Dope Sheet it displays all keyframe type with one icon. A rhombus shape.

## Markers

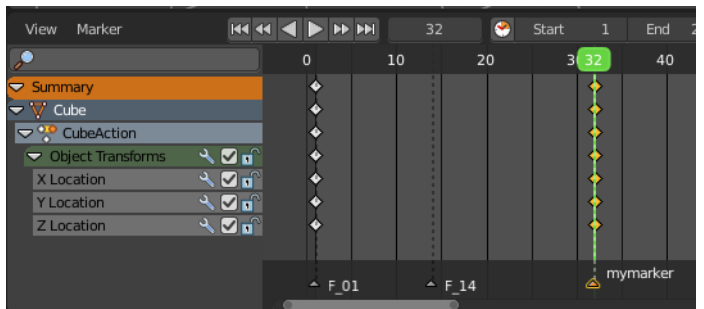
Markers are visible hints to denote frames with key points or significant events within an animation. A marker could mark a character's animation starts, the position change of a camera, or a door that opens.

Markers can be added, deleted and renamed from the Marker menu. Once created they reside at the bottom of the viewport.

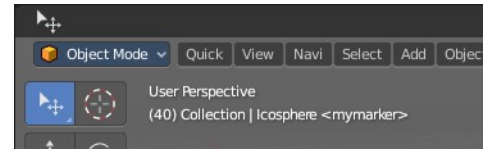
To select a marker click at it.

To move a marker click and drag.

The active marker is highlighted, and shows a dotted line upwards.



When a frame matches the marker position then the info string in the 3D view shows the name of this marker too.



## Viewport Navigation

Navigation in the viewport happens by mouse or hotkeys. Some of them does not have a menu entry. And needs to be explained here.

### Viewport navigation

Right mouse button moves the frame marker.

Clicking left at the number bar moves the frame marker.

Middle mouse button pans the view.

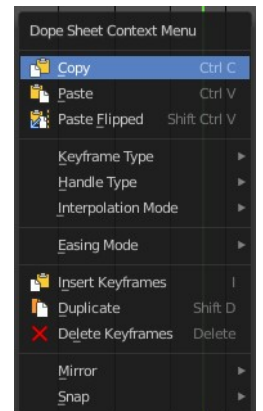
Holding ctrl + middle mouse button zooms the view.

Scroll Wheel zooms the view.

To drag a keyframe click at it and drag the mouse.

## Dope Sheet Context Menu

When you double right click into the timeline viewport then you will call the Dope Sheet context menu.



### Copy

Copies the currently selected keyframe(s).

### Paste

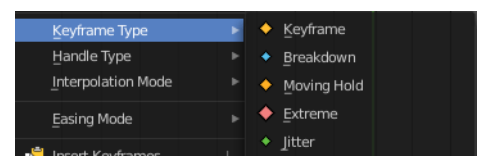
Pastes copied keyframe(s)

### Paste Flipped

Pastes copied keyframe(s), but flipped.

### Keyframe Type

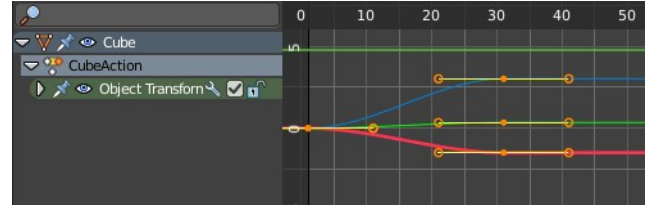
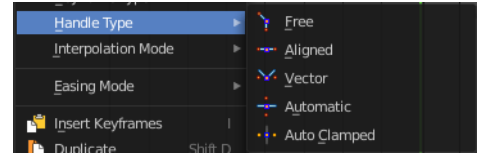
Recolor the currently selected keyframes.



## Handle Type

Set the handle type for the currently selected keyframes.

This is a feature for the Graph editor, where each curve point has its own handler with which you can influence the curve behavior. But the handler type also influences how the animation curve acts at the chosen keyframes. So it has its use in the dope sheet editor too.



## Interpolation Mode

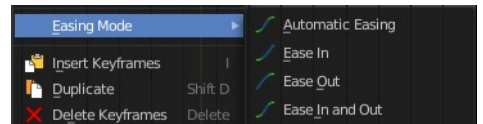


The Interpolation mode defines how the curve acts from keyframe to keyframe. You can have a linear curve between two keyframes instead of a bent one for example.

The easing methods here in the interpolation mode menu are for the easing shape. There is also an easing menu where you can choose a easing method.

## Easing Mode

The easing methods in the interpolation mode menu are for the easing shape. This menu allows you to choose an easing method.



## Insert Keyframes

Insert a keyframe at the current position.

## Duplicate

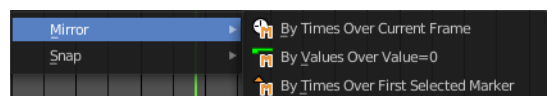
Duplicate the selected keyframe(s).

## Delete Keyframes

Delete the selected keyframe(s).

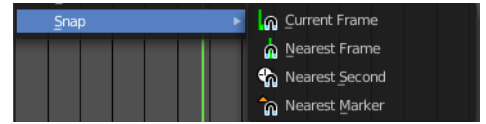
## Mirror

Mirrors the animation by the given method.



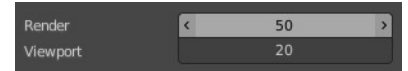
## Snap

Snaps the selected keyframes by the given method.



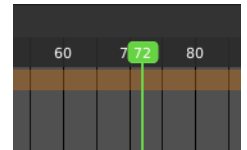
## Slider snapping

Snapping also works at sliders. Hover with the mouse over the slider, start to slide, and holding down **ctrl** will snap the sliders in incremental steps.



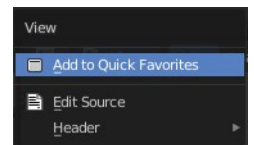
When it's a default value between 0 and 1 then it usually snaps in 0.1 steps. When it's a default value over 1 then it usually snaps in steps of 10.

The increment snapping also works at the frame slider. here the incremental snapping happens by the frame rate that you have defined. With a frame rate of 24 it will snap in steps of 24 frames when holding down ctrl.



## Quick Favorites menu

When you right click at a menu or a button, then a right click menu will open. Tools have usually a Add to Quick Favorites menu entry.



The Quick Menu is empty by default. With Add to Quick favorites you can add this menu to the Quick menu.

In the 3D view we have a menu called Quick in the header, which shows this content then. In the Dope Sheet Editor you can just call it with its hotkey. Q. It has no regular menu entry here.

