Note Displacement Techniques in Mario Maker 2

By LoupAndSnoop

Special thanks: h267 (aka UncaughtCursor) calculated many displacements. Com_poser provided many fast autoscroll tricks.

<u>Important note:</u> ALL pictures in this guide show notes that all play at the same time. *Semisolids matter!*



What it is:

In music levels, a **note displacement** is a way to move a music note somewhere else, but iit plays at the same time

Why we use it:

In music levels, we frequently move music notes to solve one of 2 problems:

- We want to play two notes, but they conflict.
- A music note is in the way of the play area.

How it works:

There are a few main ways to displace notes:

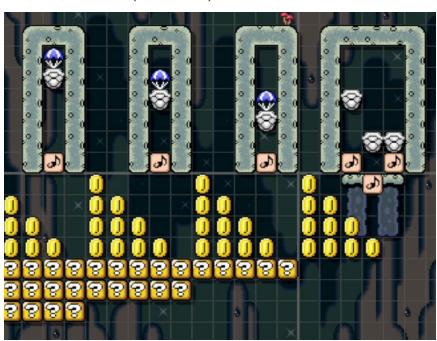
- 1. Instrument spawns to fall some distance to hit the music block and hits the note later.
- 2. A semisolid along the music block will add a small delay for when the note plays.
- 3. An assisted load with a lift makes an instrument load sooner.*
- 4. Putting a music block on tracks.*

Many note displacement setups are specific to a certain speed of autoscroll, so they will be broken up as such.

Specific Note Displacement Setups

These setups are specific to a certain speed of autoscroll (or pseudo-autoscoll). These are preferred because they do not cost extra entities. Coins and blocks act as a ruler.

Fast Autoscroll (Cheetah):



^{*}These cost an extra entity, and are less preferred.

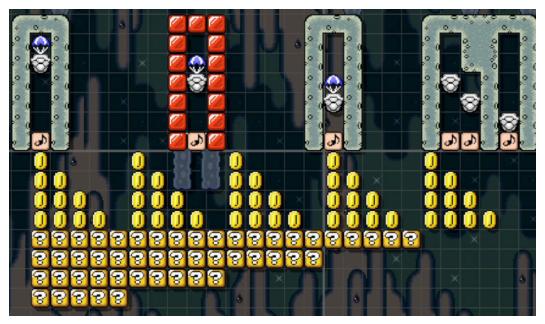
Medium Autoscroll (Rabbit):



Slow Autoscroll (Turtle):

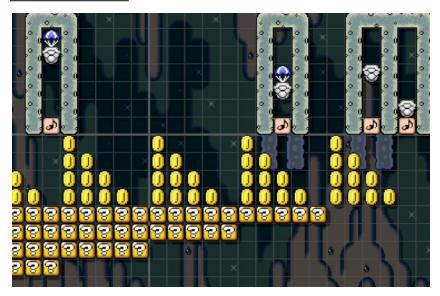


Running Speed



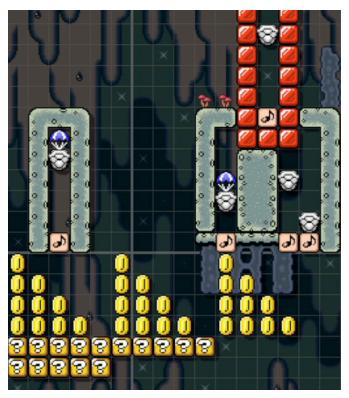
The note marked with red blocks has a slightly inaccurate time.

Blue Lava Lift:



Winged Block on Tracks / Walking:

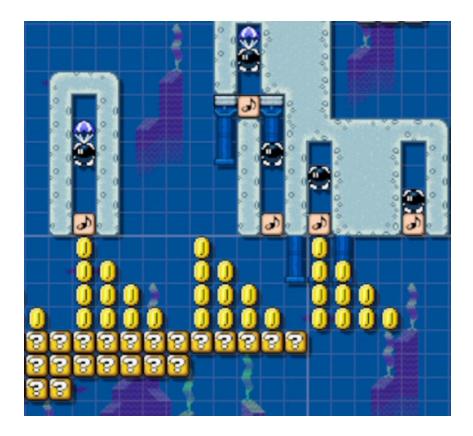
Winged block on tracks = walking speed. Flimsy lifts have a very slightly different speed and won't work for this.



The note in red is slightly inaccurate.

Winged Block on Tracks (Underwater/LowGrav)

See above. This should be the same timings as for Night Sky or Night Airship themes.



<u>Universal Note Displacement Setups</u>

These setups work for ALL speeds of autoscroll. They generally cost an extra entity, so avoid using them if you have other options.

Assisted load setups:

These setups abuse the fact that objects on lifts load early.

- Anywhere on the lift is fine, big or small.
- The center of the lift determines when it goes off.

There are music blocks hidden where you'd expect.





Boss Stacking: Stacking Bosses on top stops the note from playing twice when it spawns far.

- Boom-boom-free setups depend on the instrument.
- Boom-boom is not needed if the object is close enough to the spawn window.
- Make sure the stack stays together long enough to avoid a double hit.
- Boom-boom, Bowser Jr, and Bowser are mostly interchangeable.

For more guides, see this list of resources.