Mod-tap behaviors
A cheatsheet

legend

'input' keypress

timer

'output' keypress

Made by Okke Formsma (https://github.com/okke-formsma/)
with a lot of help from Sergey Vlasov (https://github.com/sigprof)

https://github.com/qmk/qmk_firmware/issues/8971
https://docs.google.com/spreadsheets/d/1IaaOMbl6zLBb5Jswyr90Lp9hGx3xl
yugVSfD_oEk4po/edit#gid=0

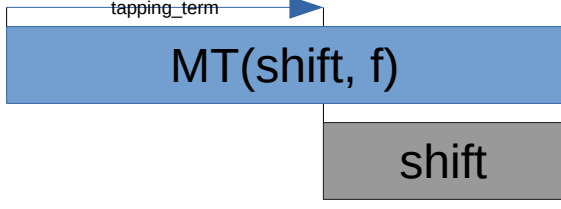**1.**

tapping_term
MT(shift, f)
f
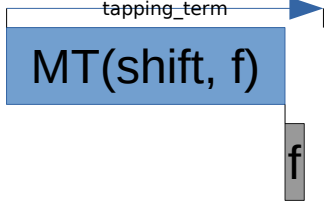
The tap case. MT is released before tapping_term expires, a short keypress is simulated.
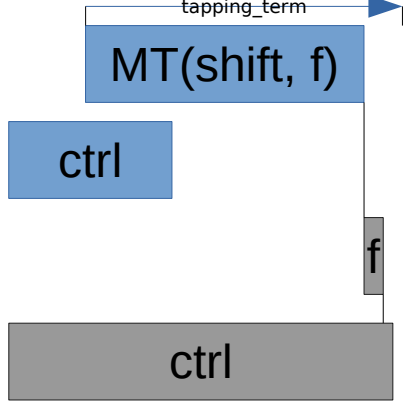
Output: f

2.

tapping_term
MT(shift, f)
shift

The hold case. MT is released after tapping_term expires. When tapping_term expires, shift is 'pressed' and released when the MT is released.
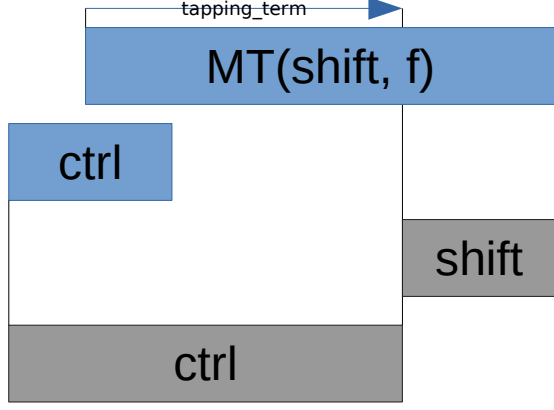
Output: shift

3.a

tapping_term
MT(shift, f)
ctrl
f
ctrl

When a modifier is active when the mod-tap key is pressed, the modifier(s) should be preserved until the mod-tap decision can be made
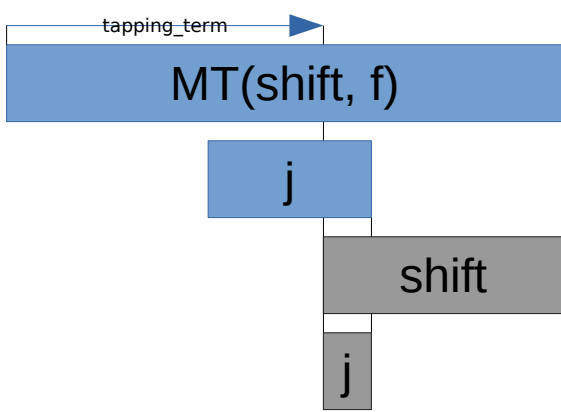
Output: ctrl-f

3.b

tapping_term
MT(shift, f)
ctrl
shift
ctrl

When a modifier is active when the mod-tap key is pressed, the modifier(s) should be preserved until the mod-tap decision can be made
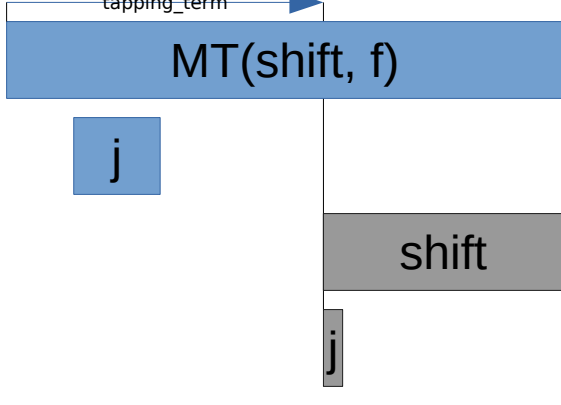
4.a

tapping_term
MT(shift, f)
j
shift
j

The mod-tap decision can be made only after the tapping_term of the MT is expired or the MT is released. The 'j' key press is not handled immediately.
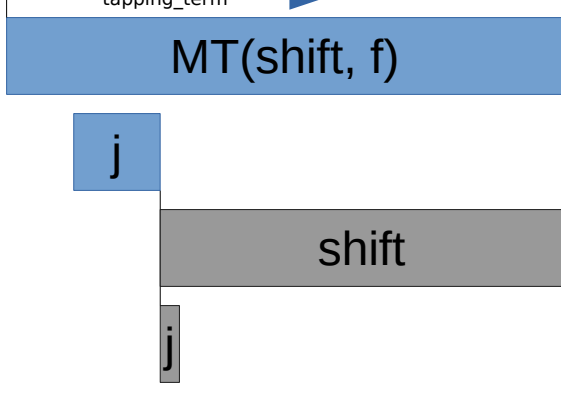
Output: J

4.b

tapping_term
MT(shift, f)
j
shift
j

PERMISSIVE_HOLD false

The MT behavior is decided when the tapping_term expires.

Output: J

4.b'

tapping_term
MT(shift, f)
j
shift
j

PERMISSIVE_HOLD true

The MT behavior is triggered as soon as the 'j' key is released.
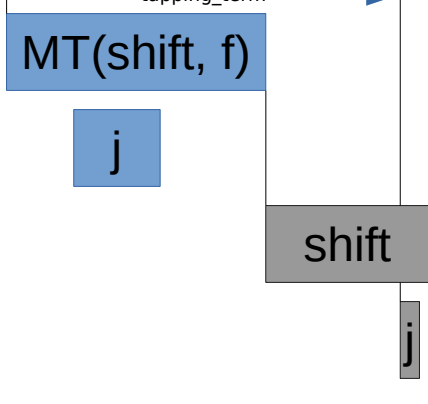
Output: J

4.c

tapping_term
MT(shift, f)
j
shift
j

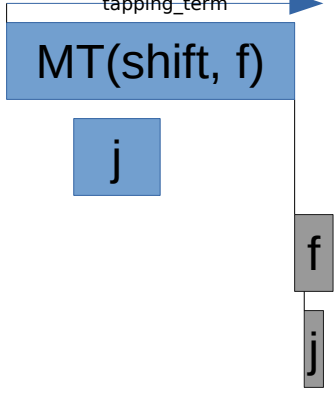PERMISSIVE_HOLD false
IGNORE_MOD_TAP_INTERRUPT false

The MT behavior is decided as the MT key is released.
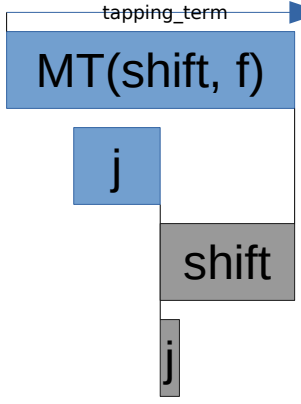
Output: J

4.c'

tapping_term
MT(shift, f)
j
f
j

PERMISSIVE_HOLD false
IGNORE_MOD_TAP_INTERRUPT true

The MT behavior is decided as the MT key is released.

Output: fj

4.c''

tapping_term
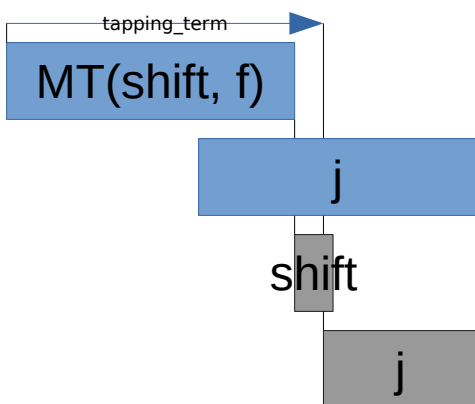MT(shift, f)
j
shift
j

PERMISSIVE_HOLD true

The MT behavior is decided when the 'j' key is released.

Output: J

4.d

tapping_term
MT(shift, f)
j
shift
j

IGNORE_MOD_TAP_INTERRUPT false

The MT behavior decided on the release of the MT key.

Output: J

4.d'

tapping_term
MT(shift, f)
j
f
j

IGNORE_MOD_TAP_INTERRUPT true

The MT behavior decided on the release of the MT key.

Output: fj