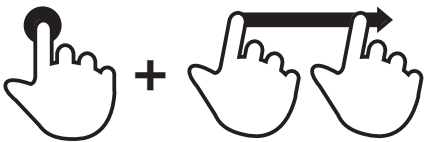# Input Caret Behaviors

Tap

Move caret position to location of gesture.

Press + **Drag**

Move caret position to location of press, display magnifier loupe, and move caret with drag.

On Release
(after manipulating input caret)

Display contextual menu (ideally, only display 'Paste' if there is content that can be pasted currently on the clipboard):

| Select | Select All | Paste |

Selection Behaviors

Double Tap

Selects smallest sub-expression at location of gesture. Note: tapping 'Select' on the aforementioned contextual menu has the same behavior, at the location of the cursor.

Press + **Drag**
(with existing selection)

Adjust selection by pressing & dragging on selection endpoint. Magnifier loupe is displayed while dragging endpoint.

Two-finger Press

Select area between fingers. Once selection is made, it can be dynamically adjusted by pinch/spread gestures (as follows) without needed to lift fingers.

Pinch & Spread
(with existing selection)

Dynamically adjust the selection area with multitouch. Magnifier loupe is not displayed.

On Release
(with existing selection)

Display contextual menu (ideally, only display 'Paste' if there is content that can be pasted currently on the clipboard):

| Cut | Copy | Paste |

Parentheses Behaviors

Press & Hold (1 sec)
(on parenthesis)

Makes parentheses 'active' (this is independent of text selection; if text selection is made, parentheses selection is deactivated). Touch affordances are displayed on parenthesis. Note: newly input parentheses are activated by default.

$$(((4+3)+2)+1)$$

Press + **Drag**
(with existing selection)

Adjust position of parenthesis by pressing & dragging on touch affordance. Magnifier loupe is displayed while dragging parenthesis. Note that parenthesis can only be moved within the current level of hierarchy (cannot be moved outside of an outer set of parentheses or a function template).

Parentheses are 'deactivated' in the same ways that a text selection would be deselected -- via a tap, another input, a different selection being made, etc.

Note: Selecting parentheses should be a bit **hard**, but it needs to be **possible**. A user needs to **want** to do this; generally, a user will put parentheses where they want them in the first place.