# Desmos Graphing Calculator (macOS) cheat sheet

## General symbols

| | |
|---|---|
| ^ | Superscript |
| _ | Subscript |
| < then = | ≤ |
| > then = | ≥ |
| Prime | |
| Type frac: fraction | |
| Type sqrt: √ | |
| Type cbrt: □ | |
| Type nthroot: nth root | |
| Type sum: ∑ | |
| Type int: ∫ | |
| Type prod: ∏ | |
| Type pi: π | |
| Type theta: θ | |
| - then > | → |

## Table entry

| | |
|---|---|
| Shift + Tab | Previous cell |
| Tab | Next cell |
| Up arrow | Previous row |
| Down arrow | Next row |
| Left arrow | Previous column |
| Right arrow | Next column |
| Ctrl + Up arrow | First row in column |
| Ctrl + Down arrow | Last row in column |
| Ctrl + Left arrow | First column in row |
| Ctrl + Right arrow | Last column in row |
| Ctrl + H | Speak column header |

## Sliders

| | |
|---|---|
| Left arrow | Decrease value |
| Fn + Down arrow | Decrease value by larger increment |
| Right arrow | Increase value |
| Fn + Up arrow | Increase value by larger increment |
| Fn + Left arrow | Lowest value |
| Fn + Right arrow | Highest value |

## Audio tracing

| | |
|---|---|
| Option + T | Enable or disable Audio Trace Mode |
| Option + S | Summarize selected curve |
| Option + G | Describe the graph axes |
| Left arrow or Up arrow or J | Previous point |
| Right arrow or Down arrow or L | Next point |
| Fn + Up arrow or Shift + Tab or K | Previous point of interest |
| Fn + Down arrow or Tab or I | Next point of interest |
| Fn + Left arrow or U | First point |
| Fn + Right arrow or N | Last point |
| P | Speak point of interest count |
| X | Speak X coordinate |
| Y | Speak Y coordinate |
| C | Speak color |
| B | Speak branch |
| T | Speak type of selected point |
| O | Move to origin |
| Option + Up arrow | Move to previous curve |
| Option + Down arrow | Move to next curve |
| H | Hear graph |
| [0 - 9] | Hear only branch 1 through 10 |
| Option + 1 | … to 5: adjust playback speed (1 slowest, 5 fastest) |
| V | Increase volume |
| Shift + V | Decrease volume |
| A | Announce active slider animations |

## Slider trace

| | |
|---|---|
| S | Toggle slider trace mode |
| Left arrow or J | Decrease value of selected slider |
| Fn + Down arrow | Decrease value of selected |

| | |
|---|---|
| | slider by larger increment |
| Right arrow or L | Increase value of selected slider |
| Fn + Up arrow | Increase value of selected slider by larger increment |
| Fn + Left arrow or U | Move to lowest value of selected slider |
| Fn + RIGH or N | Move to highest value of selected slider |
| Down arrow or Tab or K | Select next slider |
| Up arrow or Shift + Tab or I | Select previous slider |

## Interactive points

| | |
|---|---|
| Ctrl + Cmd + P | Focus first interactive point on screen |
| Tab | Go to next interactive point |
| Shift + Tab | Go to previous interactive point |
| Right arrow | Increase X |
| Left arrow | Decrease X |
| Up arrow | Increase Y |
| Down arrow | Decrease Y |
| Shift + Right arrow | Increase X by larger amount |
| Shift + Left arrow | Decrease X by larger amount |
| Shift + Up arrow | Increase Y by larger amount |
| Shift + Down arrow | Decrease Y by larger amount |
| X | Speak X coordinate |
| Y | Speak Y coordinate |
| L | Speak label |
| C | Speak color |

## Common actions

| | |
|---|---|
| Esc | Close a dialog |
| Shift + Cmd + E | Show or hide the expression list |
| Ctrl + Cmd + E | Focus the expression list |
| Ctrl + Shift + O | Open options for the focused expression |
| Ctrl + Shift + D | Delete the focused expression |
| Ctrl + Cmd + X | Add an expression |
| Ctrl + Cmd + O | Add a note |
| Ctrl + Cmd + F | Add a folder |
| Cmd + Up arrow | Collapse the selected folder |
| Cmd + Down arrow | Expand the selected folder |
| Cmd + Shift + Up arrow | Collapse all folders |
| Cmd + Shift + Down arrow | Expand all folders |
| Ctrl + Cmd + I | Add an image |
| Ctrl + Cmd + T | Add a table |
| Cmd + Z | Undo |
| Cmd + Shift + Z | Redo |
| Ctrl + Option + D | Turn edit list mode on or off |
| Ctrl + Cmd + G | Open or close the graph settings menu |

## Web browser only

| | |
|---|---|
| Cmd + / | Open keyboard shortcuts dialog |
| Cmd + O | Open a graph |
| Cmd + S | Save a graph |
| Cmd + P | Print a graph |
| Ctrl + Cmd + A | Open or close the account menu |
| Ctrl + Cmd + H | Open or close the help menu |
| Ctrl + Cmd + L | Open or close the language menu |
| Ctrl + Cmd + S | Open or close the share menu |

## Braille

| | |
|---|---|
| Ctrl + N | Switch to nemeth |
| Ctrl + U | Switch to UEB |
| Ctrl + Q | Switch to print |
| Ctrl + 6 | Turn braille typing on or off |

## Expression entry and navigation

| | |
|---|---|
| Up arrow or Shift + Tab | Move to previous expression |
| Down arrow or Tab | Move to next expression |
| Backspace | Remove selected empty expression |
| Left arrow | Previous character |

| | |
|---|---|
| Right arrow | Next character |
| Up arrow | Move to numerator within fraction |
| Down arrow | Move to denominator within fraction |
| Tab | Exit current block |
| Fn + Left arrow | Beginning of current block |
| Fn + Right arrow | End of current block |
| Ctrl + Fn + Left arrow | Beginning of current expression |
| Ctrl + Fn + Right arrow | End of current expression |
| Shift + Left arrow | Increase selection left |
| Shift + Right arrow | Increase selection right |
| Backspace | Delete selection |
| Cmd + A | Select all |
| Ctrl + Option + Up arrow | Speak parent block |
| Ctrl + Option + Down arrow | Speak focused block |
| Ctrl + Option + Left arrow | Speak left-adjacent block |
| Ctrl + Option + Right arrow | Speak right-adjacent block |
| Down arrow | Speak selection |
| Ctrl + Option + Shift + Right arrow | Speak answer |

Source: Desmos

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*More information:* *defkey.com/desmos-graphing-calculator-macos-shortcuts*

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