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# Keyboard shortcuts

Android Studio includes keyboard shortcuts for many common actions. Table 1 shows the default keyboard shortcuts by operating system.

**Note:** In addition to the default keymaps in table 1 below, you can select from a number of preset keymaps or create a custom keymap. For more about customizing your keyboard shortcuts, see [Configure Custom Keymaps \(#custom\)](#), below.

**Table 1.** Default keyboard shortcuts for Windows/Linux and Mac operating systems.

Description	Windows/Linux Mac	
<b>General</b>		
Save all	Control + S	Command + S
Synchronize	Control + Alt + Y	Command + Option + Y
Maximize/minimize editor	Control + Shift + F12	Control + Command + F12
Add to favorites	Alt + Shift + F	Option + Shift + F
Inspect current file with current profile	Alt + Shift + I	Option + Shift + I
Quick switch scheme	Control + ` (backquote)	Control + ` (backquote)
Open settings dialogue	Control + Alt + S	Command + , (comma)
Open project structure dialog	Control + Alt + Shift + S	Command + ; (semicolon)
Switch between tabs and tool window	Control + Tab	Control + Tab
<b>Navigating and searching within Studio</b>		

Search everything (including code and menus)	Press Shift twice	Press Shift twice
Find	Control + F	Command + F
Find next	F3	Command + G
Find previous	Shift + F3	Command + Shift + G
Replace	Control + R	Command + R
Find action	Control + Shift + A	Command + Shift + A
Search by symbol name	Control + Alt + Shift + N	Command + Option + O
Find class	Control + N	Command + O
Find file (instead of class)	Control + Shift + N	Command + Shift + O
Find in path	Control + Shift + F	Command + Shift + F
Open file structure pop-up	Control + F12	Command + F12
Navigate between open editor tabs	Alt + Right/Left Arrow	Control + Right/Left Arrow
Jump to source	F4 / Control + Enter	F4 / Command + Down Arrow
Open current editor tab in new window	Shift + F4	Shift + F4
Recently opened files pop-up	Control + E	Command + E
Recently edited files pop-up	Control + Shift + E	Command + Shift + E
Go to last edit location	Control + Shift + Backspace	Command + Shift + Backspace
Close active editor tab	Control + F4	Command + W
Return to editor window from a tool window	Esc	Esc
Hide active or last active tool window	Shift + Esc	Shift + Esc
Go to line	Control + G	Command + L
Open type hierarchy	Control + H	Control + H
Open method hierarchy	Control + Shift + H	Command + Shift + H
Open call hierarchy	Control + Alt + H	Control + Option + H

## Writing code

Generate code (getters, setters, constructors, hashCode/equals, toString, new file, new class)	Alt + Insert	Command + N
Override methods	Control + O	Control + O
Implement methods	Control + I	Control + I
Surround with (if...else / try...catch / etc.)	Control + Alt + T	Command + Option + T
Delete line at caret	Control + Y	Command + Backspace
Collapse/expand current code block	Control + minus/plus	Command + minus/plus
Collapse/expand all code blocks	Control + Shift + minus/plus	Command + Shift + minus/plus
Duplicate current line or selection	Control + D	Command + D
Basic code completion	Control + Space	Control + Space
Smart code completion (filters the list of methods and variables by expected type)	Control + Shift + Space	Control + Shift + Space
Complete statement	Control + Shift + Enter	Command + Shift + Enter
Quick documentation lookup	Control + Q	Control + J
Show parameters for selected method	Control + P	Command + P
Go to declaration (directly)	Control + B or Control + Click	Command + B or Command + Click
Go to implementations	Control + Alt + B	Command + Alt + B
Go to super-method/super-class	Control + U	Command + U
Open quick definition lookup	Control + Shift + I	Command + Y
Toggle project tool window visibility	Alt + 1	Command + 1
Toggle bookmark	F11	F3
Toggle bookmark with mnemonic	Control + F11	Option + F3
Comment/uncomment with line comment	Control + /	Command + /
Comment/uncomment with block comment	Control + Shift + /	Command + Shift + /

Select successively increasing code blocks	Control + W	Option + Up
Decrease current selection to previous state	Control + Shift + W	Option + Down
Move to code block start	Control + [	Option + Command + [
Move to code block end	Control + ]	Option + Command + ]
Select to the code block start	Control + Shift + [	Option + Command + Shift + [
Select to the code block end	Control + Shift + ]	Option + Command + Shift + ]
Delete to end of word	Control + Delete	Option + Delete
Delete to start of word	Control + Backspace	Option + Backspace
Optimize imports	Control + Alt + O	Control + Option + O
Project quick fix (show intention actions and quick fixes)	Alt + Enter	Option + Enter
Reformat code	Control + Alt + L	Command + Option + L
Auto-indent lines	Control + Alt + I	Control + Option + I
Indent/unindent lines	Tab/Shift + Tab	Tab/Shift + Tab
Smart line join	Control + Shift + J	Control + Shift + J
Smart line split	Control + Enter	Command + Enter
Start new line	Shift + Enter	Shift + Enter
Next/previous highlighted error	F2 / Shift + F2	F2 / Shift + F2

## Build and run

Build	Control + F9	Command + F9
Build and run	Shift + F10	Control + R
Apply changes (with <a href="https://developer.android.com/studio/run/index.html#instant-run">Instant Run</a> (https://developer.android.com/studio/run/index.html#instant-run))	Control + F10	Control + Command + R

## Debugging

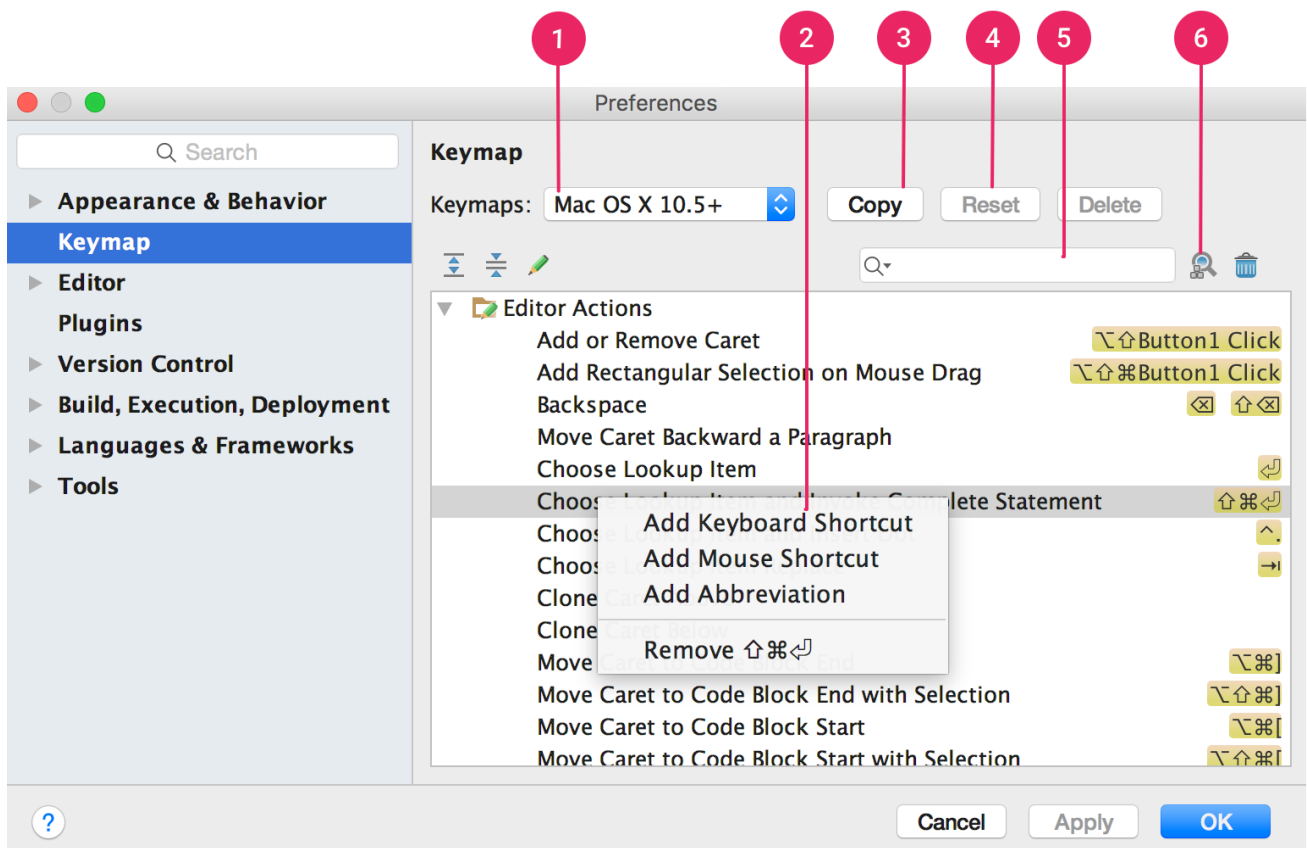
Debug	Shift + F9	Control + D
Step over	F8	F8
Step into	F7	F7
Smart step into	Shift + F7	Shift + F7
Step out	Shift + F8	Shift + F8
Run to cursor	Alt + F9	Option + F9
Evaluate expression	Alt + F8	Option + F8
Resume program	F9	Command + Option + R
Toggle breakpoint	Control + F8	Command + F8
View breakpoints	Control + Shift + F8	Command + Shift + F8
<b>Refactoring</b>		
Copy	F5	F5
Move	F6	F6
Safe delete	Alt + Delete	Command + Delete
Rename	Shift + F6	Shift + F6
Change signature	Control + F6	Command + F6
Inline	Control + Alt + N	Command + Option + N
Extract method	Control + Alt + M	Command + Option + M
Extract variable	Control + Alt + V	Command + Option + V
Extract field	Control + Alt + F	Command + Option + F
Extract constant	Control + Alt + C	Command + Option + C
Extract parameter	Control + Alt + P	Command + Option + P

Version control / local history		
Commit project to VCS	Control + K	Command + K
Update project from VCS	Control + T	Command + T
View recent changes	Alt + Shift + C	Option + Shift + C
Open VCS popup	Alt + ` (backquote)	Control + V

## Configure custom keymaps

You can choose from a number of preset keymaps or modify a preset keymap to create a new custom keymap in the keymap settings for Android Studio.

To open the keymap settings, choose **File > Settings** (on Mac, **Android Studio > Preferences**) and navigate to the **Keymap** pane.



**Figure 1.** The Android Studio keymap settings window.

- 1 Keymaps dropdown:** Select the desired keymap from this menu to switch between preset keymaps.

- 2 **Actions list:** Right click on an action to modify it. You can add additional keyboard shortcuts for the action, add mouse shortcuts to associate an action with a mouse click, or remove current shortcuts. If you are using a preset keymap, modifying an action's shortcuts will automatically create a copy of the keymap and add your modifications to the copy.
- 3 **Copy button:** Select a keymap from the dropdown menu to use as a starting point, and click **Copy** to create a new custom keymap. You can modify the keymap name and shortcuts.
- 4 **Reset button:** Select a keymap from the dropdown menu and click **Reset** to revert it to its original configuration.
- 5 **Search box:** Type here to search for a keyboard shortcut by the action name.
- 6 **Search by Shortcut:** Click **Find Actions by Shortcut** and type a shortcut to search for actions by shortcut.

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