

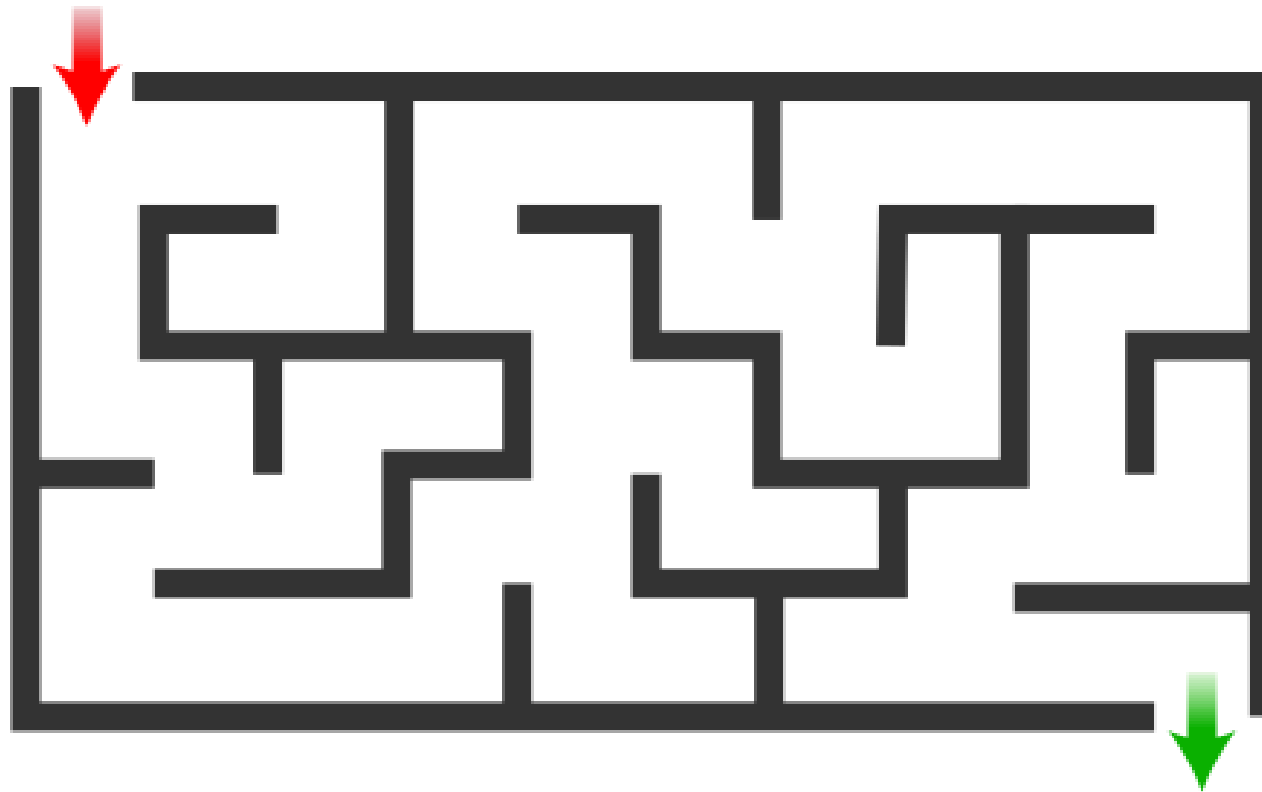
# Taking Shortcuts Beyond Your IDE

Annelore Egger

DEVNEXUS™

OPENVALUE  
Better software, faster

# Can You Find The Shortest Path?



**OPENVALUE**  
Better software, faster

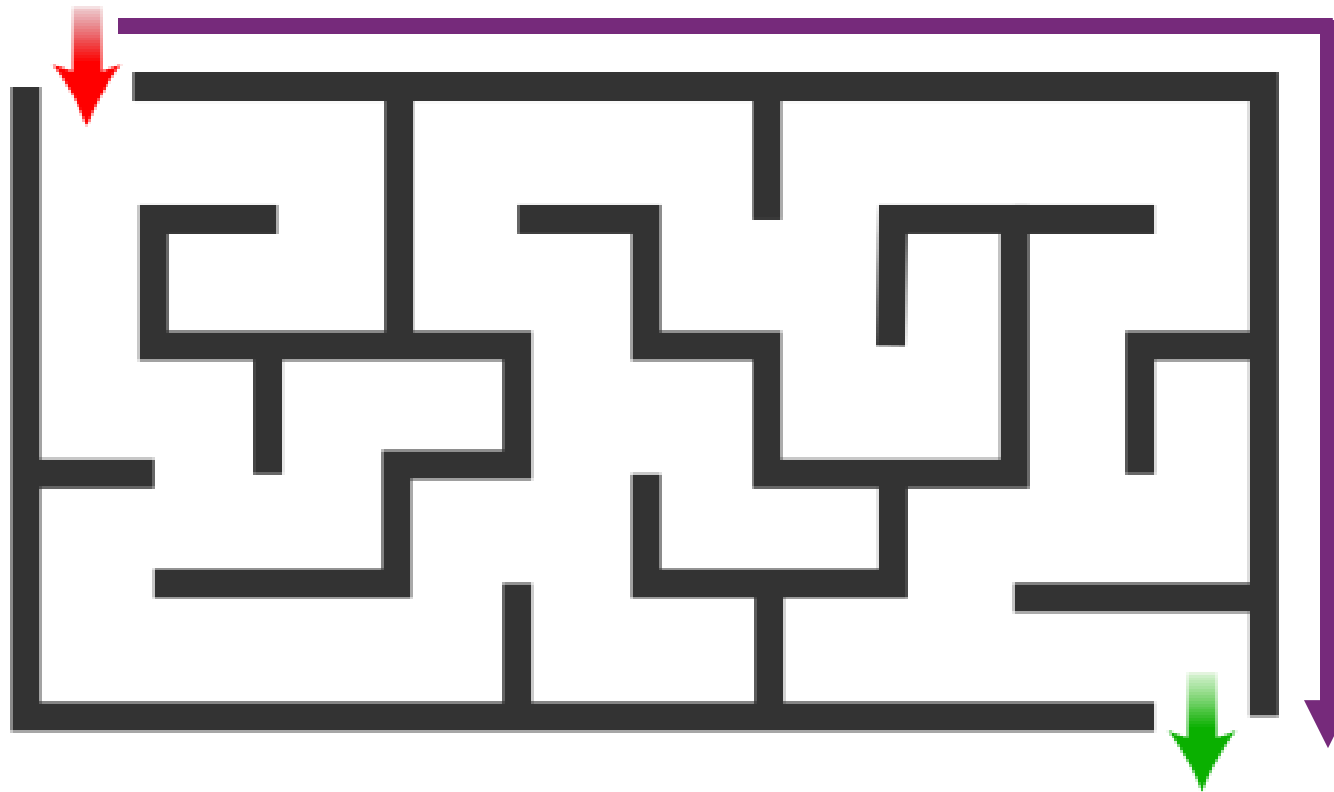
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# Do You Use Shortcuts Other Than Those?

Ctrl / ⌘

+

C

Ctrl / ⌘

+

V

Ctrl / ⌘

+

X

Ctrl / ⌘

+

S

Ctrl / ⌘

+

Z

# About Me

- Frequent shortcut user
- BSc in Computer Science
- 8 years of programming experience
- Software Engineer, OpenValue Switzerland since May 2024



# Motivation

- Time saving
- Developers usually strive to be more efficient, might overlook the easiest ways.
- Shortcuts are more than just the keyboard shortcuts



# IntelliJ Productivity Guide

IntelliJ IDEA uptime: 59 min, 14 sec, idle time: 21 sec, 821 ms

Code completion has saved you from typing at least 9.3K characters since 02.09.2024 (~158 per working day)

Quick-fixes have saved you from 177 possible bugs since 04.09.2024 (~3 per working day)

Feature	Group	Used ▼	Last Used
Editor delete line	Code Editing	957 times	one hour ago
Basic code completion	Code Completion	782 times	53 minutes ago
Switcher	Navigation	734 times	one hour ago
Variable name completion	Code Completion	535 times	one week ago
Find in files	Navigation	404 times	5 days ago
Go to declaration	Navigation	391 times	one week ago
Find	Navigation	372 times	one week ago
Search Everywhere	Navigation	317 times	5 days ago



# Advantages of Keyboard Shortcuts

- Efficiency
- Less context switches

Navigate to recent tabs  
(IntelliJ & VS Code)



- You feel more professional 😊

Navigate between  
applications



+

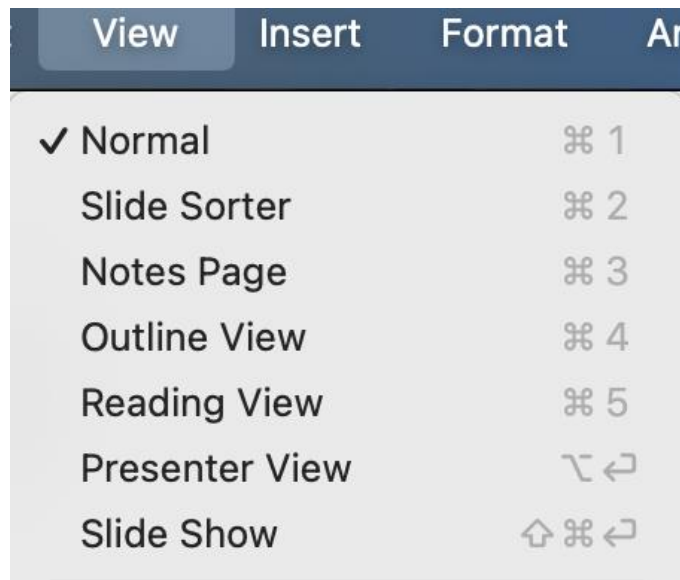


+

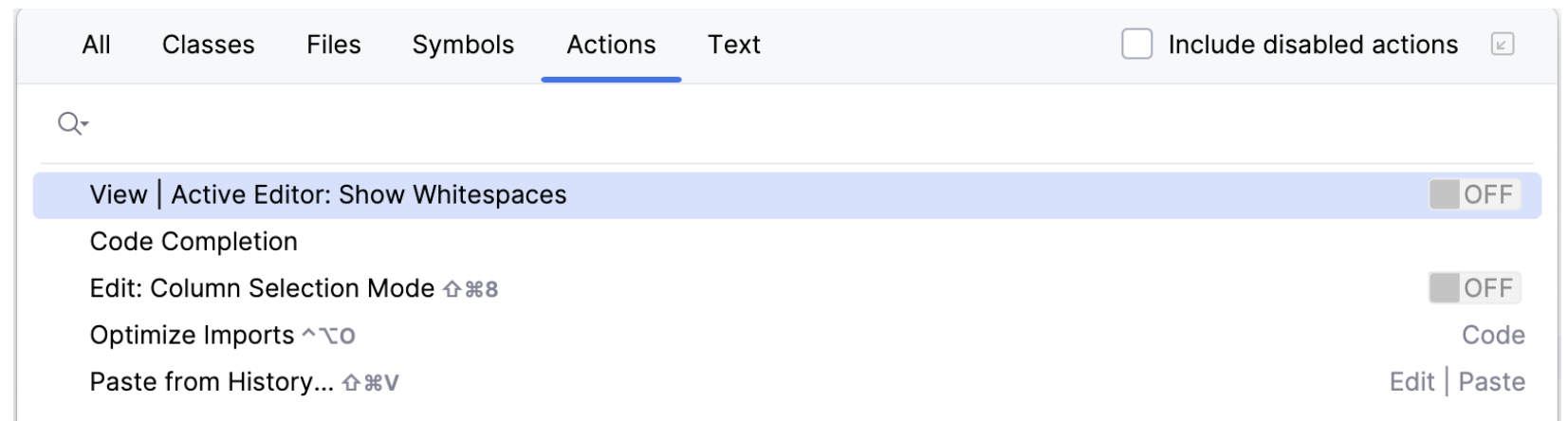
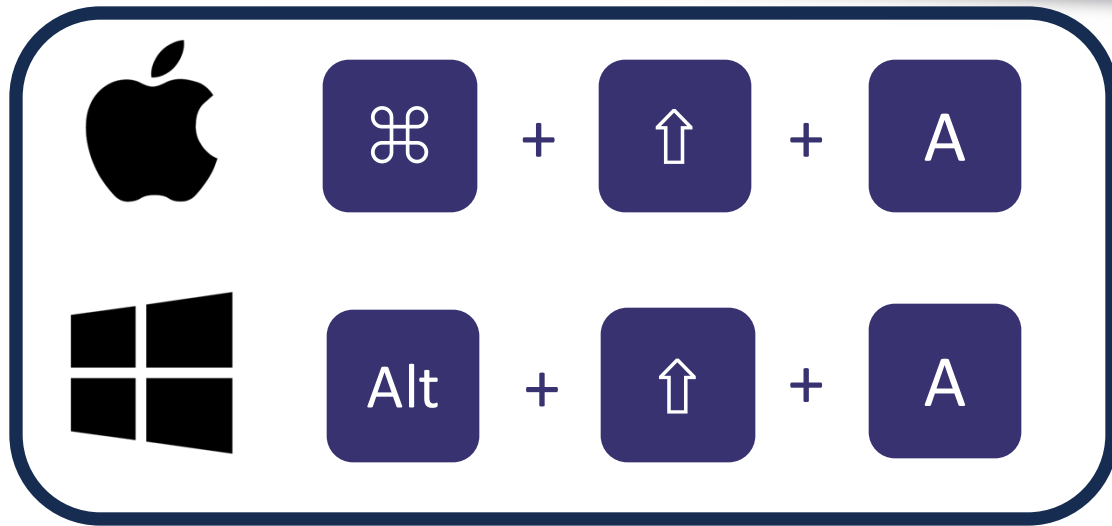


# How You Can Start Using More Keyboard Shortcuts

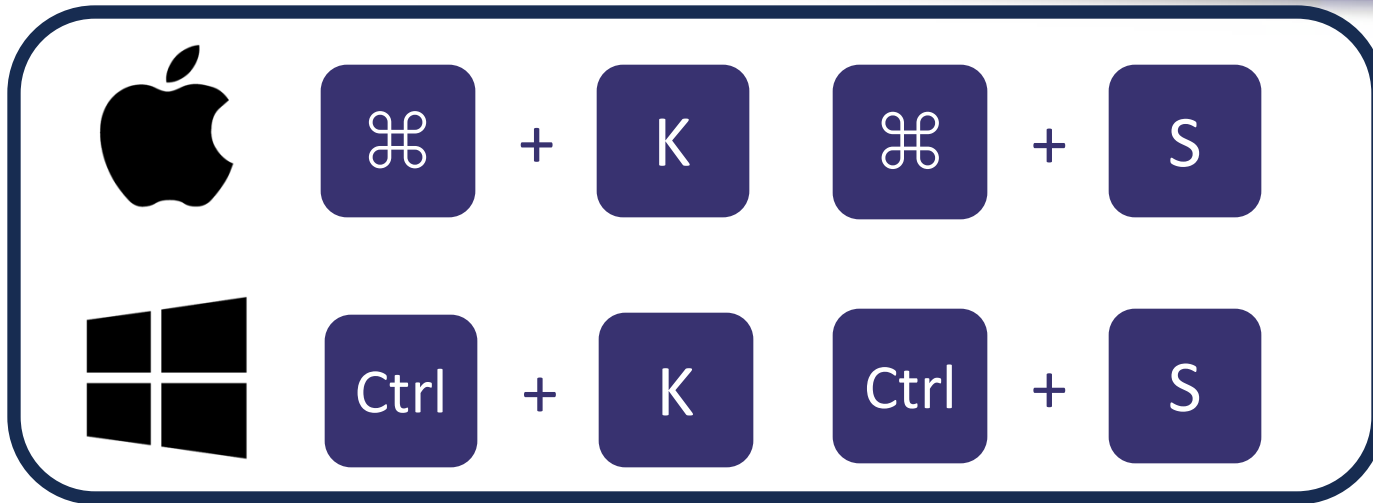
- Integrate learning shortcuts into your workflow
- Looking up shortcuts directly in the tool or online



# IntelliJ: List Actions



# VS Code: Keyboard Shortcuts Menu



Type to search in keybindings				
Command	Keybinding	When	Source	
Accept Inline Completion	7	accessibleViewIsShown && accessibleViewCurre...	System	
Accept Inline Suggestion	Tab	inlineEditIsVisible && tabShouldAcceptInline...	System	
Accept Next Word Of Inline Suggestion	→	inlineSuggestionVisible && !editorReadonly	System	
Accessible Diff Viewer: Go to Next Difference	F7	isInDiffEditor	System	
Accessible Diff Viewer: Go to Previous Differ...	F7	isInDiffEditor	System	
Add Cursor Above	↑	editorTextFocus	System	
Add Cursor Below	↓	editorTextFocus	System	

# Tools that help to learn shortcuts

- Plugins
  - [Key Promoter X](#) (IntelliJ), [Key Promoter](#) (VS Code)
- Other tools
  - [KeyCombiner](#) (for Mac, Windows and Linux)
  - Mac ([Cheatsheet](#), [ShortcutDetective](#),...)
  - Windows ([Microsoft PowerToys](#) see [shortcut guide](#))

## PowerPoint

- ⌘ , Preferences...
- ⌘ H Hide PowerPoint
- ⌘ H Hide Others
- ⌘ Q Quit PowerPoint
- ⌘ Q Quit and Keep Windows

## File

- ⌘ N New Presentation
- ⇧⌘ P New from Template...
- ⌘ O Open...
- ⇧⌘ O More...
- ⌘ W Close
- ⌘ S Save
- ⇧⌘ S Save a Copy...
- ⌘ P Print...

## Edit

- ⌘ Z Undo Move Object
- ⌘ Y Redo New Slide
- ⌘ X Cut
- ⌘ C Copy
- ⌘ V Paste
- ⇧⌘ V Paste Special...
- ⌘⇧⌘ V Paste and Match Formatting
- ⌘ A Select All
- ⌘ D Duplicate
- ⌘ F Find...
- ⇧⌘ F Advanced Find...
- ⇧⌘ H Replace...
- ⇧⌘ Z Toggle Drawing
- E Emoji & Symbols

## View

- ⌘ 1 Normal
- ⌘ 2 Slide Sorter
- ⌘ 3 Notes Page
- ⌘ 4 Outline View
- ⌘ 5 Reading View
- ⌘⇧ Presentation View
- ⇧⌘⇧ Presentation View
- ⇧⌘⇧ Show Outline
- ⌘ 1 Slide Master
- ⌘ 2 Handout Master
- ⌘ 3 Notes Master
- ⌘ R Ribbon
- ⇧⌘ G Guides
- ⌘ ^ Gridlines
- ⌘ O Fit to Window
- ⌘ ! Zoom In
- ⌘ - Zoom Out
- F Enter Full Screen

## Insert

- ⇧⌘ N New Slide
- ⇧⌘ D Duplicate Slide
- ⇧⌘ M Comment

## Format

- ⇧⌘ C Pick Up Colour Scheme
- ⇧⌘ 2 Slide Background...

## Arrange

- ⌘ U Selection Pane...

## Tools

- ⇧⌘ L Smart Lookup...

## Slide Show

- ⇧⌘⇧ Play from Start
- ⌘⇧ Play from Current Slide
- ⌘⇧ Presentation View

## Window

- ⌘ M Minimise

- 28 F Fill
- 28 C Centre
- 28 ← Left
- 28 → Right
- 28 ↑ Top
- 28 ↓ Bottom
- 29 ← Left & Right
- 31 ← Left & Quarters
- 29 → Right & Left
- 31 → Right & Quarters
- 29 ↑ Top & Bottom
- 31 ↑ Top & Quarters
- 29 ↓ Bottom & Top
- 31 ↓ Bottom & Quarters
- 28 R Return to Previous Size

## Help

- ⌘ ? PowerPoint Help

## Screenshots

- ⇧⌘ 3 Save Screenshot
- ⇧⌘⇧ 3 Copy Screenshot
- ⇧⌘ 4 Save Screenshot (Selection)
- ⇧⌘⇧ 4 Copy Screenshot (Selection)

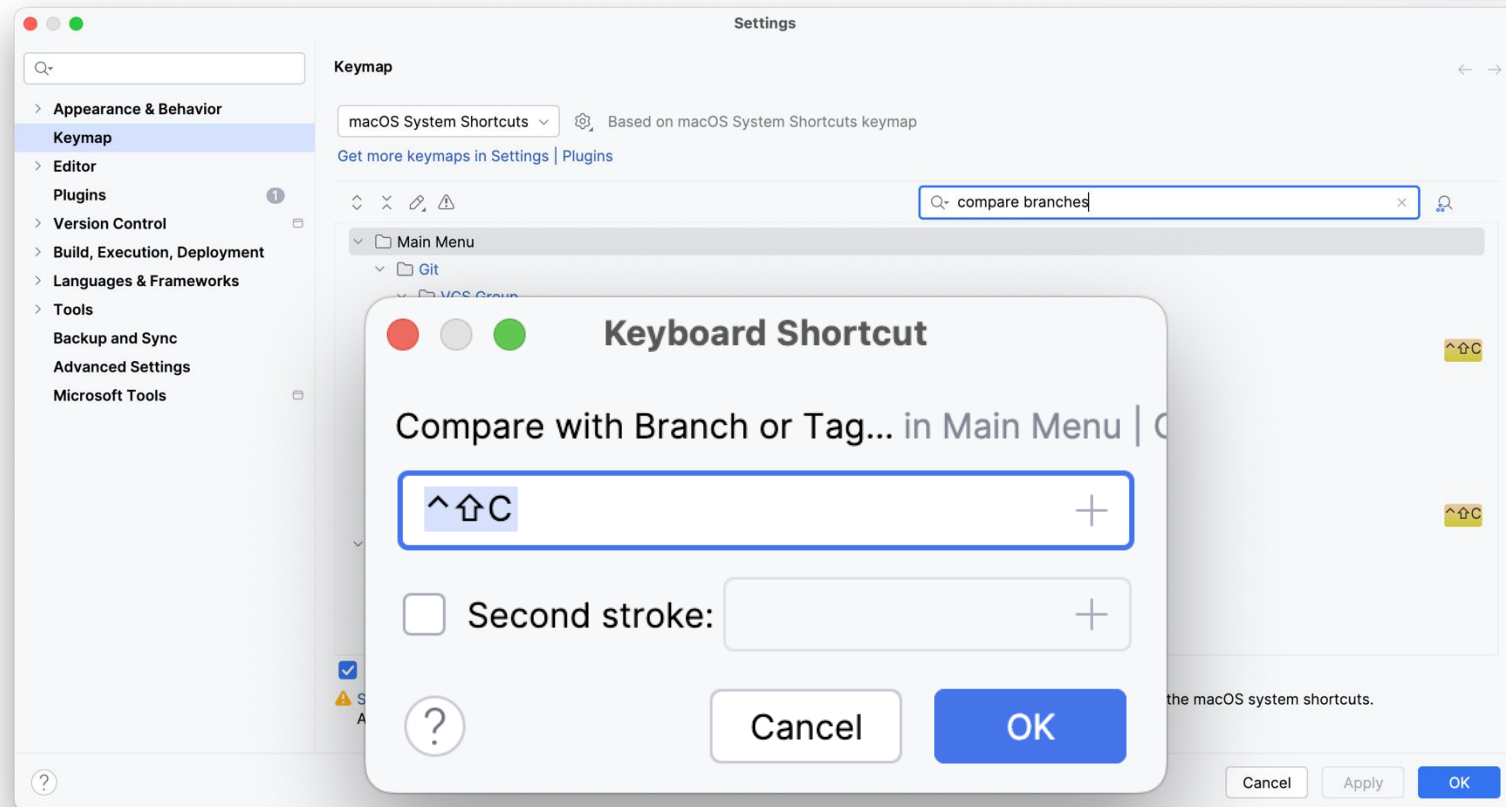
## CheatSheet

- ⌘ command
- ⌘ option/alt
- ⇧ control/ctrl
- ⇧ shift

# Custom Shortcuts

- [IntelliJ](#)
- [VS Code](#)
- Other Tools
  - [Karabiner Elements](#)
  - [Keysmith](#)

# Custom Shortcuts In IntelliJ





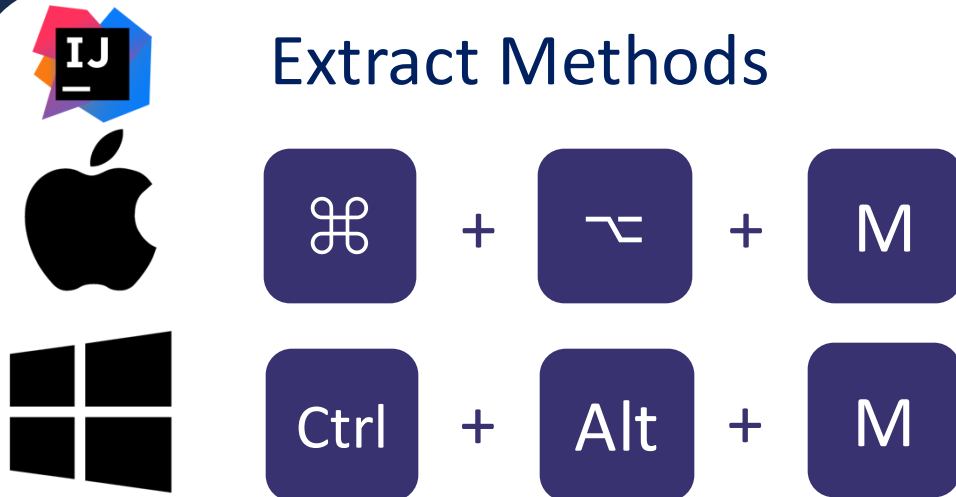
# Shortcuts in Your IDE

- Refactoring ([IntelliJ](#), [VS Code](#))
  - Rename
  - Extract Methods
  - Inline

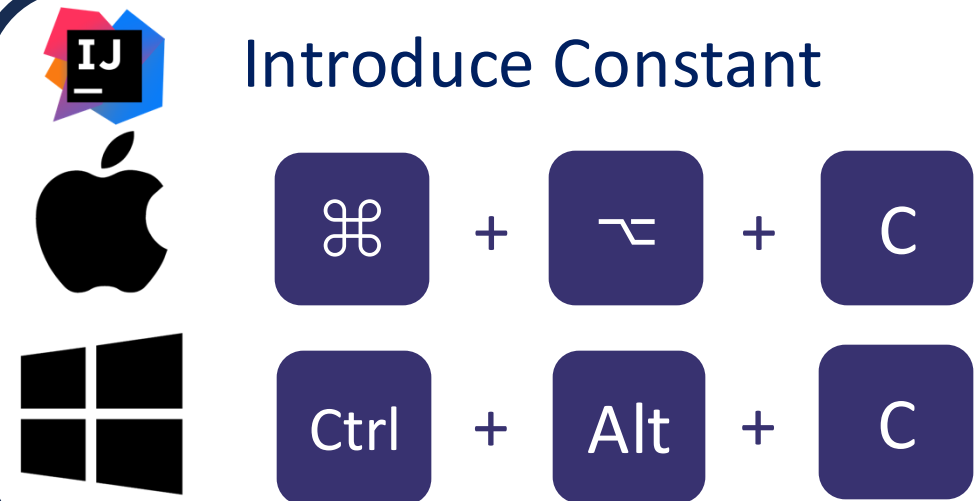
## Rename Variables



## Extract Methods



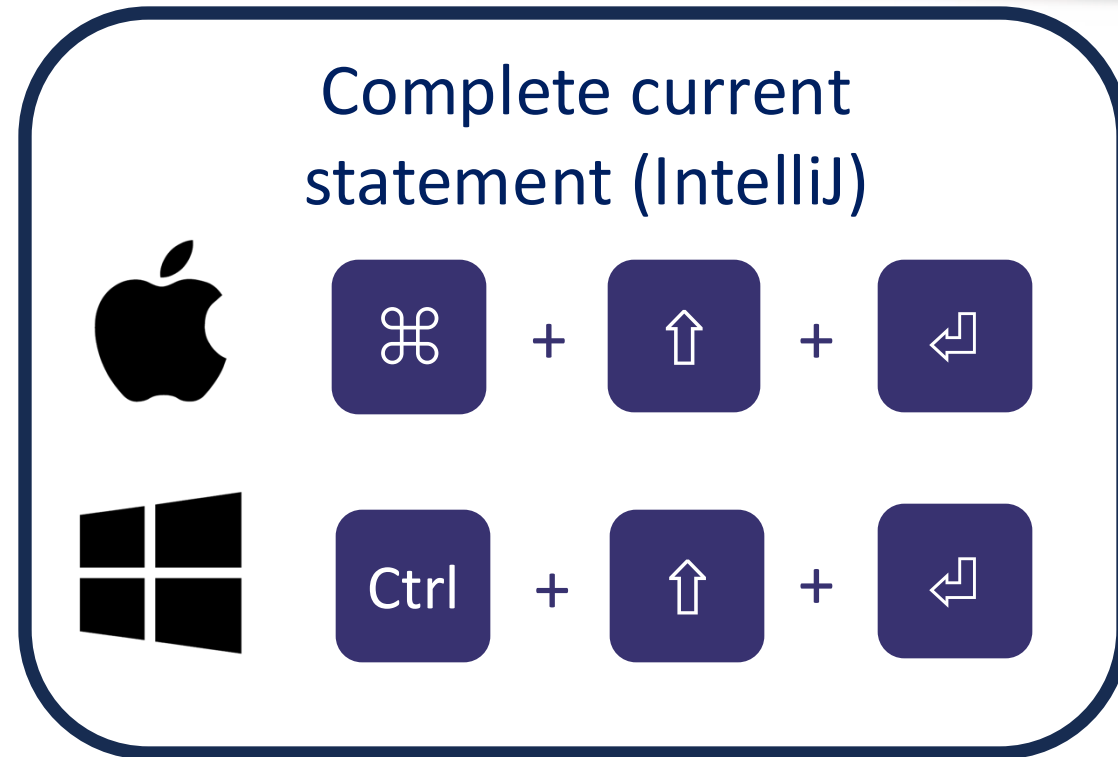
## Introduce Constant



```
1 package temperatureconverter;
2
3 import java.util.Scanner;
4
5 public class TemperatureConverter {
6     public static void main(String[] args) {
7         Scanner foo = new Scanner(System.in);
8
9         System.out.println("Temperature Converter");
10        System.out.println("1: Celsius to Fahrenheit");
11        System.out.println("2: Fahrenheit to Celsius");
12        System.out.print("Choose an option: ");
13        int choice = foo.nextInt();
14
15        if (choice == 1) {
16            System.out.print("Enter temperature in Celsius: ");
17            double celsius = foo.nextDouble();
18            double fahrenheit = (celsius * 9 / 5) + 32;
19            System.out.println("Temperature in Fahrenheit: " + fahrenheit);
20        } else if (choice == 2) {
21            System.out.print("Enter temperature in Fahrenheit: ");
22            double fahrenheit = foo.nextDouble();
23            double celsius = (fahrenheit - 32) * 5 / 9;
```

# Shortcuts in Your IDE

- Code generation
- Code completion



All

Classes

Files

Symbols

Actions

Text








Include non-project items



Type / to see commands

	LiveTemplate.java	src/main/java/org/springframework/samples/petclinic/system	spring-petclinic	
	Vets.java	src/main/java/org/springframework/samples/petclinic/vet	spring-petclinic	
	CrashController.java	src/main/java/org/springframework/samples/petclinic/system	spring-petclinic	
	ClinicServiceTests.java	src/test/java/org/springframework/samples/petclinic/service	spring-petclinic	
	WelcomeController.java	src/main/java/org/springframework/samples/petclinic/system	spring-petcli...	
	Specialty.java	src/main/java/org/springframework/samples/petclinic/vet	spring-petclinic	
	Vet.java	src/main/java/org/springframework/samples/petclinic/vet	spring-petclinic	
	VetController.java	src/main/java/org/springframework/samples/petclinic/vet	spring-petclinic	
	VetRepository.java	src/main/java/org/springframework/samples/petclinic/vet	spring-petclinic	
	PetClinicRuntimeHints.java	src/main/java/org/springframework/samples/petclinic	spring-petclinic	
	README.md	.	spring-petclinic	
	pom.xml	.	spring-petclinic	
	CacheConfiguration.java	src/main/java/org/springframework/samples/petclinic/system	spring-petc...	

# SonarLint

- ✓  EntityUtils.java (1 issue)
  - ⬆️ (-, -) Add a private constructor to hide the implicit public one. 12 years ago
- ✓  Owner.java (1 issue)
  - ⬆️ (-, -) Merge this if statement with the enclosing one. [+1 location] 1 year ago
- ✓  OwnerController.java (1 issue)
  - 🔴 (-, -) Define a constant instead of duplicating this literal "error" 3 times. [+3 locations] 3 months ago
- >  OwnerControllerTests.java (16 issues)
- ✓  PetController.java (1 issue)
  - 🟢 (-, -) Immediately return this expression instead of assigning it to the temporary variable "owner". 3 months ago

# Useful IDE Features

- Download suggested plugins
- Add business terms to the dictionary (and download additional languages)
- Look at suggestions but also question them!
- “clean IDE”
- [Local History](#)
- [Live templates](#)

```
1 package org.springframework.samples.petclinic.system;
```

```
🌊 | OFF
```

```
2
```

```
3 public class LiveTemplate { no usages new *
```

```
4     public static void main(String[] args) { new Integer() }
```

```
7 }
```

```
8
```

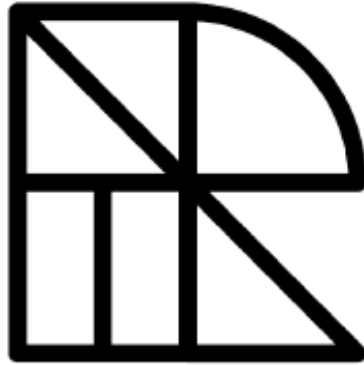
# Helpful Automations

- IntelliJ Before Commit
  - Code formatting
  - Optimizing imports
  - Running SonarLint
- [Git hooks](#)
- Regularly run git fetch
- Automatic saving (e.g., VS Code, KeePass)



# Version upgrades

- [OpenRewrite](#)



- [renovate](#)



# OpenRewrite Example

- [Java 21 Upgrade](#)
- Searched 1064 Files, 88 Files changed → max. effort 15 minutes
- Changes:
  - Introduction of `.formatted` instead of `String.format`
  - `getFirst` instead of `get(0)`, `getLast` instead of `get(x.size() - 1)`
  - `instanceof` pattern matching
- Simplifications
- Using new features
- → Leads to more consistency

# Renovate

↑	@@ -31,7 +31,7 @@
31	31 "devDependencies": {
32	32 "@eslint/compat": "1.2.7",
33	33 "@eslint/eslintrc": "3.3.0",
34	- "@eslint/js": "9.20.0",
34	+ "@eslint/js": "9.21.0",
35	35 "@playwright/test": "1.50.1",
36	36 "@tailwindcss/vite": "4.0.8",
37	37 "@testing-library/dom": "10.4.0",
↕	@@ -45,7 +45,7 @@
45	45 "@vite-pwa/assets-generator": "0.2.6",
46	46 "@vitejs/plugin-react": "4.3.4",
47	47 "@vitest/browser": "3.0.6",
48	- "eslint": "9.20.1",
48	+ "eslint": "9.21.0",
49	49 "eslint-config-prettier": "10.0.1",
50	50 "eslint-plugin-react": "7.37.4",
51	51 "eslint-plugin-react-hooks": "5.1.0",
↓	@@ -337,17 +337,17 @@

# Using Existing Libraries

- Check if a solution already exists before implementing something new
- Properly document your framework
- Using your own framework takes more time as new employees have to be trained

# More Shortcuts

- Column selection/multi-cursor editing
- Middle button/back button on mouse
- GitHub Copilot, JetBrains AI, ChatGPT → check company policy first!



8



1



```
1 server.host=localhost
2 server.port=8080
3 server.timeout=3000
4
5 database.url=jdbc:mysql://localhost:3306/mydb
6 database.user=root
7 database.password=secret
8
9 logging.level=INFO
10 logging.file=app.log
```

11

## More Shortcuts

- Column selection/multi-cursor editing
- Middle button/back button on mouse
- GitHub Copilot, JetBrains AI, ChatGPT → check company policy first!

# Pitfalls

- Custom shortcuts or shortcuts from a tool could override an existing shortcut
- Be careful when refactoring (sometimes IDEs are almost too good)
- Keyboard shortcuts not the same across platforms



## Shortcuts conflicts

16:48

Find Action... and 11 more shortcut conflict with macOS shortcuts. Modify these shortcuts or change macOS system settings.

[Modify Shortcuts](#) [Don't Show Again](#)



# When NOT to take Shortcuts

- Keep proper code review process
- Think about what the tools propose to do
  - Do not ignore warnings/errors

Consciously decide **when** to take shortcuts

# Conclusion

- If there is something you do often: can it be simplified/automated?
- Try one new shortcut or automation technique each week
- Do what works for you

Thank you for your attention

 annelore.egger@openvalue.ch

 anneloreegger

 [/in/annelore-dev](https://www.linkedin.com/company/annelore-dev)

 @AnneloreEgger

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## Further resources

- [Top 15 IntelliJ IDEA Shortcuts](#)

## Sources

- Icons from: <https://uxwing.com/>