Intellij Super

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JavaSpecialists

Productivity in 45 Minutes Dr Heinz M. Kabutz

Last Updated 2023-10-04





Why Intellij IDEA?

My story

- Started with Borland JBuilder 1997
- Then used Eclipse for a year in 2002
- Needed something to work with horrible messy Java code
 - And create some Swing GUIs at the same time
- Downloaded IntelliJ IDEA
 - No free version at the time
 - Used it for 30 days
 - Bought it
 - Paid twice
 - Once for the license and then reduced hours worked
 - But work was far more pleasant, less frustration, better life

e messy Java code ne time

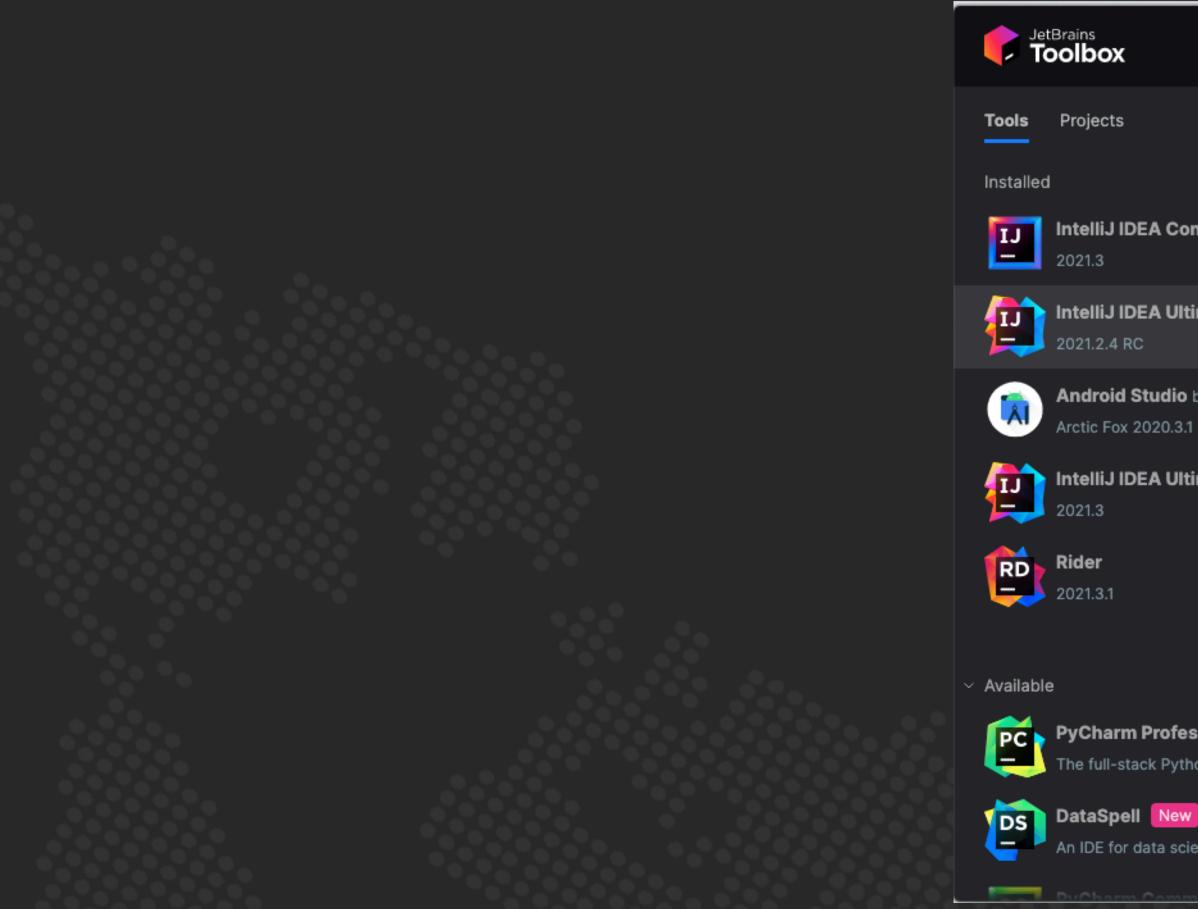
ours worked Istration, better life



Download JetBrains Toolbox

• Keeps the IDEs up to date

– https://www.jetbrains.com/toolbox-app/



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Versions of IntelliJ

Oltimate Edition

- Paid version, has many great features
- Early Access version is integrated with AI
 - See the keynote from yesterday

Community Edition

- Free version, excellent tool for editing Java code
- This is what we will be using today (mostly)







Setting up Intellij IDEA

- Appearance & Behavior
 - Darcula Scheme most popular, but errors harder to see
 - Easy to switch between schemes with Ctrl + `
- Keymap, Mac OS X
 - Intellij IDEA classic has more finger friendly shortcuts on the Mac





Editor Settings

• Editor \rightarrow

– General → Smart Keys: Select Use "CamelHumps" words

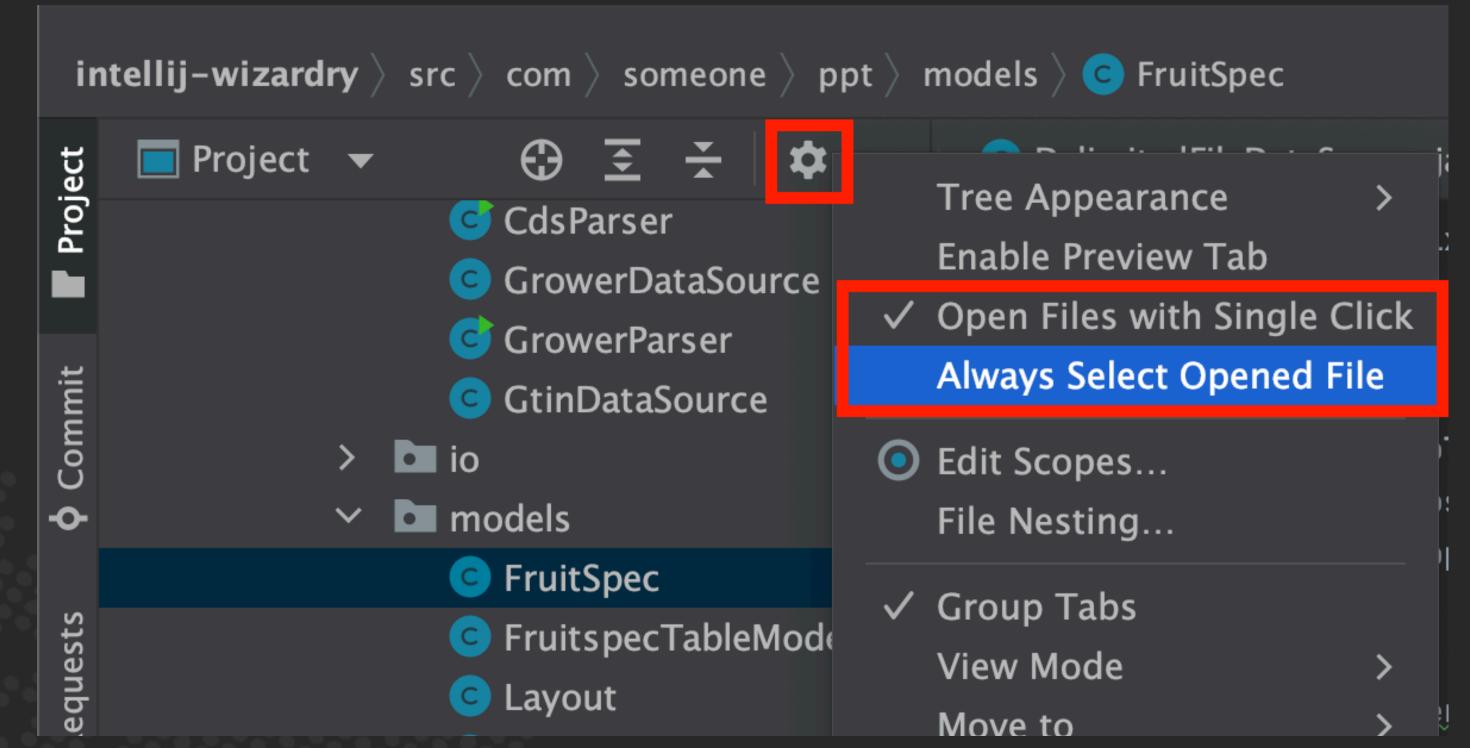




Autoscroll to/from source

Seems to be on by default now

- Lots of times saw programmers editing the wrong file
- ✓ Open Files with Single Click
- ✓ Always Select Opened File







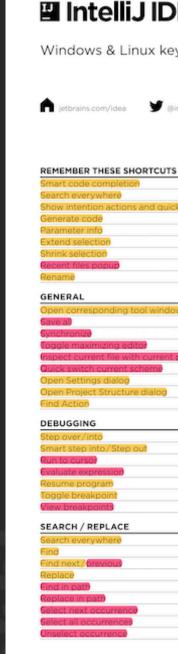


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Intellij IDEA Philosophy

- Intellij designed to be used mostly without mouse
- - Print out Help → Keyboard Shortcuts PDF
 - Memorize one new shortcut per day \approx 6 months



IntelliJ Super Productivity in 45 Minutes

ΒA		EDITING
ĽΑ		Basic code completion
		Smart code completion
		Complete statement
eymap		Parameter info
		Quick documentation lookud
		External Dod
		Grief Info
	3	Show descriptions of error at caret
intellijidea	blog.jetbrains.com/idea	Generate code
		Override methods
		Implement methods
		Surround with.
		Comment/uncomment with line comm
s		Comment/uncomment with block cor
	Ctrl+Shift+Space	Extend selection
	Double Shift	Shrink selection
ck-fixes	Alt+Enter	Context info
	Alt+ins	Show intention actions and quick-fixes
	Ctrl+P	Reformat code
	Ctrl+W	Optimize importe
	Ctrl+Shift+W	Auto-indent line(s)
	Ctrl+E	Indent/unindent selected lines
	Shift+F6	Cut current line to clipboard
		Copy current line to clipboard
		Paste from clipboard
2WC	Alt+#[0-9]	Paste from recent buffers
	Ctrl+S	Duplicate current line
	Ctrl+Alt+Y	Delete line at caret
	Ctrl+Shift+F12	Smart line join
profile	Alt+Shift+I	Smart line split
	Ctrl+BackQuote (`)	Start new line
	Ctrl+Alt+S	Toggle case for word at caret or selecte
	Ctrl+Alt+Shift+S	Select till code block end/start
	Ctrl+Shift+A	Delete to word end
		Delete to word start
	F8/F7	Expand/collapse code block
		Expand a)
	Shift+F7/Shift+F8 Alt+F9	Collapse all
		Close active editor tab
	Alt+F8 F9	
	Ctrl+F8	REFACTORING
	Ctrl+F8	Сору
	Ctri+Smit+P6	Move
		Safe Delete
	Double Shift	Rename
	Ctrl+F	Refactor this
	F3/Shift+F3	Change Signature
	Ctrl+R	Inline
	Ctrl+Shift+F	Extract Method
	Ctrl+Shift+R	Extract Variable
	Alt+J	Extract Field
	Challe Alber Chaite a L	Extract Constant

Ctrl+Alt+Shift+J

Alt+Shift+J

de completion	Ctrl+Space
de completion	Ctrl+Shift+Space
e statement	Ctrl+Shift+Enter
ar info	Ctrl+P
cumentation lookup	Ctrl+Q
Doe	Shift+F1
	Ctrl+mouse
scriptions of error at care?	Ctrl+F1
code	Alt+Insert
methods	Ctrl+O
nt methods	Ctrl+I
(with.)	Ctrl+Alt+T
t/uncomment with line comment	Ctrl+/
t/uncomment with block comment	Ctrl+Shift+/
election	Ctrl+W
lection	Ctrl+Shift+W
nfo	Alt+Q
ention actions and quick-fixes	Alt+Enter
ticode	Ctrl+Alt+L
imports	Ctrl+Alt+O
ent line(s)	Ctrl+Alt+I
nindent selected lines	Tab/Shift+Tab
ent line to clipboard	Ctrl+X, Shift+Del
rent line to clipboard	Ctrl+C,Ctrl+Inser
m clipboard	Ctrl+V, Shift+Inse
m recent buffers	Ctrl+Shift+V
e current liné	Ctrl+D
ne at caret	Ctrl+Y
e join	Ctrl+Shift+J
e split	Ctrl+Enter
v line	Shift+Enter
ase for word at caret or selected block	Ctrl+Shift+U
code block end/start	Ctrl+Shift+]/[
ward end	Ctrl+Delete
word start	Ctrl+Backspace
collapse code block	Ctrl+NumPad+/-
	Ctrl+Shift+NumP
<u>a)</u>	Ctrl+Shift+NumP
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NO.	Alt+Delete
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this	Ctrl+Alt+Shift+T
Signature	Ctrl+F6
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fethod	Ctrl+Alt+M
/ariable	Ctrl+Alt+V
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	Ch. 1 . Alt C

Ctrl+Alt+C

Ctrl+Alt+P

Go to clase	Ctrl+N
Go to file	Ctrl+Shift+N
Go to symbol	Ctrl+Alt+Shift+N
Go to next/previous editor tab	Alt+Right/Left
Go back to previous tool window	F12
Go to editor (from tool window)	Esc
Hide active or last active window	Shift+Esc
Go to line	Ctrl+G
Recent files popup	Ctrl+E
Recent locations popup	Ctrl+Shift+E
Navigate back/forward	Ctrl+Alt+Left/Right
Navigate to last edit location	Ctrl+Shift+Backspac
Select current file or symbol in any view	Alt+F1
Go to declaration	Ctrl+B, Ctrl+Click
Go to implementation(s)	Ctrl+Alt+B
Open quick definition lookup	Ctrl+Shift+I
Go to type declaration	Ctrl+Shift+B
Go to super-method / super-clase	Ctrl+U
Go to previous/next method	Alt+Up/Down
Move to code block end/start	Ctrl+]/[
File structure popup	Ctrl+F12
Type hierarchy	Ctrl+H
Method hierarchy	Ctrl+Shift+H
Call hierarchy	Ctrl+Alt+H
Next/Previous highlighted error	F2/Shift+F2
Edit source/View source	F4/Ctrl+Enter
Show navigation bai	Alt+Home
Toggle bookmark	F11
Toggle bookmark with mnemonia	Ctrl+F11
Go to numbered bookmark	Ctrl+#[0-9]
Show bookmarks	Shift+F11
COMPILE AND RUN	
Build project	Ctrl+F9
Compile selected file, package or module	Ctrl+Shift+F9
Select configuration and run/debug	Alt+Shift+F10/F9
Run/Debug	Shift+F10/F9
Run context configuration from editor	Ctrl+Shift+F10
Run anything	Double Ctrl
USAGE SEARCH	
Find usages / Find usages in file	Alt+F7/Ctrl+F7
Highlight usages in file	Ctrl+Shift+F7
Show usage?	Ctrl+Alt+F7
VCS / LOCAL HISTORY	
Commit project to VC9	Ctrl+K
Update project from VCS	Ctrl+T
Push commite	Ctrl+Shift+K
WCS' quick popup	Alt+BackQuote (`)
LIVE TEMPLATES	
Surround with Live Template	Ctrl+Alt+J
	Ctrl+J



Help --> My Productivity

Track progress in how productive you have become

.

IntelliJ IDEA uptime: 1 day, 4 hr, idle time: 2 sec, 804 ms Code completion has saved you from typing at least 802,0K characters since 2014/01/09 (~611 per working day) Quick fixes have saved you from 18,906 possible bugs since 2014/01/12 (~15 per working day)

Feature	Group	Used 🔻	Last Used
Syntax aware selection	Code Editing	167,508 times	16 hours ago
Variable name completion	Code Completion	144,269 times	16 hours ago
Basic code completion	Code Completion	88,357 times	16 hours ago

To expand selection, press **#W**. Each time you press **#W**, the selection expands to other areas of code.

For example, the selection expands from a method name to the expression calling this method, then to the whole statement, then to the containing block, and so on.

Productivity Guide





Searching

Search Everywhere

- Windows/Linux: Double Shift
- Mac OS X: 仓仓

Search Everywhere and Include non-project items

- Windows/Linux: Quadruple Shift
- Mac OS X: 分分分分

• Kept on hitting this by mistake when pressing 1







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Livelock from Corrupt Local Files

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	× *		🕑 exercise_4_1/ByteGeneratorTest 🛛 🛪 🌀
 Concurrency (~/svn/courses/concurrency/samples/Concurrency) ib 			🎯 WildFactorizer 🛛 🗶 🖑 solutio
V Src			1 package concurrency.ch06_task_exec
concurrency			2
ch01_introduction			<pre>3 pimport concurrency.math.*;</pre>
ch02_thread_safety			4
exercise_2_1			5 aimport java.util.concurrent.atomic
solution_2_1			6 💡
Ch03_sharing_objects			7 public class WildFactorizer {
ch04_composing_objects			8 public static void main(String[]
exercise_4_1			<pre>9 long start = (1 << 19) - 1; // 10 AtomicLong next = new AtomicLong</pre>
exercise_4_2			<pre>10 AtomicLong next = new AtomicLo 11 for (int i = 0; i < 10000; i++</pre>
solution_4_1			12 long number = next.getAndInc
ch05_building_blocks			<pre>13 long[] factors = Factorizer.</pre>
exercise_5_1			<pre>14 if (factors.length == 1) {</pre>
 exercise_5_2 solution_5_1 			15 System.out.println(factors
solution_5_2			16 }
Choc_task_execution			17 }
exercise_6_1			18 🛆 }
solution_6_1			19 }
🕝 🚡 WildFactorizer			
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Recovering from Broken Indexes

- Intellij gets into a bad state if indexes are corrupted
 - File \rightarrow Repair IDE...
 - Try this first, stepping through until everything works
 - File \rightarrow Invalidate Caches...
 - Usually takes a while to reindex
 - But solves most of the problems
 - Try to not lose local history

IntelliJ Super Productivity in 45 Minutes

File	Edit	View	Navig	ate
Ne	w			
	Open			
Ор	en Rec	ent		
Clo	se Proj	ect		
15	Project	Struct	ure	
File	Prope	rties		
Loc	al Hist	ory		
	Save A	II		
G	Reload	All from	n Disk	٦
Rep	pair IDE			
		Caches	·	
Res	start ID	E		
Ма	nage ID	DE Setti	ngs	
Ne	w Proje	cts Set	up	
Sav	e File a	as Temp	plate	

Export - Print...

Power Save Mode





Opening old projects

• Modern versions of IntelliJ IDEA might go into infinite loops

– Need to kill with -9

• Create new project with existing sources and overwrite old project files







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Superkey for fixing almost anything

- Show intention actions and quick-fixes
 - Windows/Linux: Alt + Enter
 - Mac OS X: ∖_+



Generate new code

Generate Code

- Windows/Linux: Alt + Ins
- Mac OS X (Official): XN
- Mac OS X (Heinz): ^ → or ^N

Quick demo creating playground.Person

– Add final field, show difference between $\uparrow \rightarrow$ and $\diagdown \rightarrow$

I.Person



Before we continue ...

• Get our Data Structures in Java Course here

- tinyurl.com/devoxx-23
- Coupon expires today at 11:00 Brussels Time
 - But you have life-time access once you have redeemed it

• For those watching the recording

- Sign up to The Java Specialists' Newsletter
 - www.javaspecialists.eu
 - Reply to the welcome mail that you would like this course







Live Templates

We can generate code quickly with live templates

- psvm or main: Main method
- sout, soutv, soutm, soutp: Output
- iter, fori, itco, itar: Iteration

tinyurl.com/devoxx-23

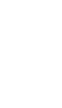












Navigation

Go to declaration

- Windows/Linux: Ctrl + B or Ctrl + Click
- Mac OS X: #B or #Click

• "Navigate back / forward"

- Windows/Linux: Ctrl + Alt + Left / Right
- Mac OS X: $\Re \setminus / \Re \setminus -$

tinyurl.com/devoxx-23





Should you throw away your mouse?

• Everything can be done with keyboard in IDEA

- It is useful to learn to touch type
- I usually have left hand on keyboard and right on mouse
 - Easy enough to find the correct keys index fingers on F & J

• For navigating, I find the mouse faster

- Hold down Ctrl or *#* and everything becomes a hyperlink
- Scrolling with mouse or touchpad smoother

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Bookmarks

Quick navigation between locations in project

Set with

- Windows/Linux: Ctrl + Shift + #[0-9]

Navigate with

- Windows/Linux: Ctrl + #[0-9]
- Mac OS X: ^0 ... ^9



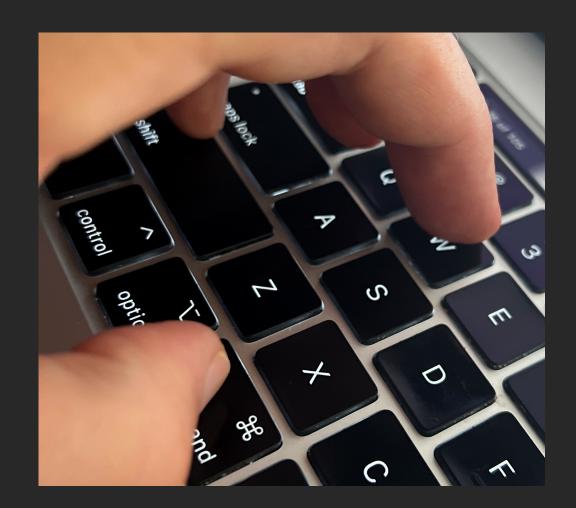
Syntax Aware Selection

• "Extend Selection"

- Windows/Linux: Ctrl + W
- Mac OS X (Official): ∖\↑
- Mac OS X (Heinz): 光W
 - Closes windows in other Mac OS X programs
 - But my left thumb and middle finger and pinkie do this nicely
 - By FAR my most used shortcut, 167k times since 2014
- Shrink Selection
 - Windows/Linux: Ctrl + Shift + W
 - Mac OS X (Official): ∖↓
 - Mac OS X (Heinz): 光分W

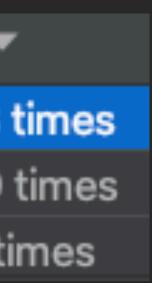
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ntax aware selection	Code Editing	167,508
ariable name completion	Code Completion	144,269
isic code completion	Code Completion	88,357 ti

pinkie do this nicely nes since 2014









Move code up / down

Move Code Up"

- Windows/Linux: Ctrl + Shift + Up
- Mac OS X: 光介1

Move Code Down"

- Windows/Linux: Ctrl + Shift + Down
- Mac OS X: 光分↓

• Note: If nothing is selected, we consider current line to be selected







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Surround with Live Template

- Surround with Live Template"
 - Windows/Linux: Ctrl + Alt + J
 - Mac OS X: ⊮∖J

• Again context aware, for example with Java

C. Surround with Callable RL. Surround with ReadWriteLock.readLock WL. Surround with ReadWriteLock.writeLock I. Iterate Iterable or array

Output Demo: changing main(String[]) to main(String...)





Define your own Live Templates

OPROFILE PROFILE PR

• e.g. Wrap code in System.nanoTime()

– Fantastic for demos, use JMH for serious benchmarks Abbreviation: nanoTime Description: System.nanoTime() Template text:

long \$TIME\$ = System.nanoTime(); try { \$SELECTION\$ } finally { \$TIME\$ = System.nanoTime() - \$TIME\$; System.out.printf("\$TIME\$ = %dms%n", (\$TIME\$/1 000 000));

}







Column Select Editing

• With the mouse

- Windows/Linux: Alt + Drag Mouse
- Mac OS X: Σ +drag mouse

With keyboard toggle column selection mode

- Windows/Linux: Alt + Shift + Insert
- Mac OS X (Heinz): 光个仓C
- Make sure to turn column selection mode off afterwards





Demo

Inside the FruitSpec, create an enum that holds all the fields

public enum Field { BARCODE("BarCode"), RUNNUMBER("RunNumber"), PUC("PUC"), /* etc. ... */ GTIN("GTIN"); private final String name;

> Field(String name) { this.name = name;





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Assign shortcut for Presentation Mode I used Command + Option P, same as for Keynote Output Change fonts or zoom level for presentation mode in Appearance & Behavior -> Appearance -> Presentation Mode





Define different Color Schemes for Resolutions

• E.g. Darcula Talks 1080p, Darcula Talks 720p, etc.

- Fonts should be easily readable when watching on a smart phone
- Might need to use white background with bad projector
- Switch quickly with Control + `







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Basic Code Completion

Output Construction Construction Construction Construction Construction Construction Construction Construction

- Windows/Linux: Ctrl + Space
- Mac OS X: ^Space

import java.util.List;

public class Demo { List<String> names = new

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public static void main(String[] args) { List<String>{...} (java.util) 🖸 ArrayList<> (java.util) 😉 String java.lar 🧲 CinkedList<> (java util) 🕝 Demo playground Content C (c) AbstractList<String>{...} (java.util) AbstractSequentialList<String>{...} (ja...) Stack<> (java.util) CopyOnWriteArrayList<> (java.util.concu...) c Anchor (com.lowagie.text) ArrayCtack (are anache commone collecti Press \triangleleft to insert, \rightarrow to replace





Smart Code Completion

- This gives much better result I always use this
 - Windows/Linux: Ctrl + Shift + Space

import java.util.List;

public class Demo {

```
public static void main(String[] args) {
                                       List<String> names = new
                                                                                                                                                                                                                                                                                           List<String>{...} (java.util)
                                                                                                                                                                                                                                                                               Anchor (com.lowagie.text)
                                                                                                                                                                                                                                                                         Generation Content Conten
                                                                                                                                                                                                                                                                         CinkedList<> (java.util)

    AbstractList<String>{...} (java.util)

                                                                                                                                                                                                                                                                        Sector<> (java.util)
                                                                                                                                                                                                                                                                         G AbstractSequentialList<String>{...}
                                                                                                                                                                                                                                                                        Stack<> (java.util)
                                                                                                                                                                                                                                                                         Complete Complet
                                                                                                                                                                                                                                                                         CopyOnWriteArrayList<> (java.util.concu...)
                                                                                                                                                                                                                                                                         G ArrayStack (org.apache.commons.collecti...)
                                                                                                                                                                                                                                                                         Chanter (com lourate text)
                                                                                                                                                                                                                                                                            Press \triangleleft to insert, \rightarrow to replace
```





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Alter Class / Field / Method

Move

- Windows/Linux: F6
- Mac OS X: F6
- "Rename …"
 - Windows/Linux: Shift + F6
- "Change Signature" applies to methods
 - Windows/Linux: Ctrl + F6
 - Mac OS X: [#]F6





Extract Method

Select a block of code and "Extract Method"

- Windows/Linux: Ctrl + Alt + M
- Mac OS X: ℋ∖M

Some restrictions

- Cannot have more than one return value
- Block must represent a set of statements or expressions

Additional benefits

- Extracting a method can discover other, similar, code





Demo

}

• Extract snippets from generatePcdRemarks() method in PcdGenerator

String remark = resultSet.getString("Remark1"); if (!"".equals(remark)) { remarks.put(remark, remark); }

'remark = resultSet.getString("Remark2"); if (!"".equals(remark)) { remarks.put(remark, remark); }

remark = resultSet.getString("Remark3"); if (!"".equals(remark)) { remarks.put(remark, remark);







Inline Code

• Applies to methods, fields, local variables

• "Inline"

- Windows/Linux: Ctrl + Alt + N
- Mac OS X: ℋ∖N

Output Conveniently close to "Extract Method" shortcut







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Analyzer

- Intellige Int
- Code \rightarrow Inspect Code ...
 - Whole project
 - Or: Right-click in project \rightarrow Analyze \rightarrow Inspect Code ...
 - Inspection profile: Default IDE
- It checks for the most glaring code inconsistencies
 - Let's try it out together





Java Language Migration Aids

\odot **Demos**

- Use enhanced switch in
 - CdsGenerator#generateCfg()
 - PcdGenerator#generatePcdTemplate()
- Use pattern variable in ElegantTable#initGui()
- Use try-with-resource in LineSocket#receiveFile()







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- tinyurl.com/devoxx-23
- Coupon expires today at 11:00 Brussels Time
 - But you have life-time access once you have redeemed it

tinyurl.com/devoxx-23











Conclusion IntelliJ Super Productivity

- Many more keystrokes and features to learn
- One new one per day
- Happy coding!

