# Phpstorm reformat code in directory

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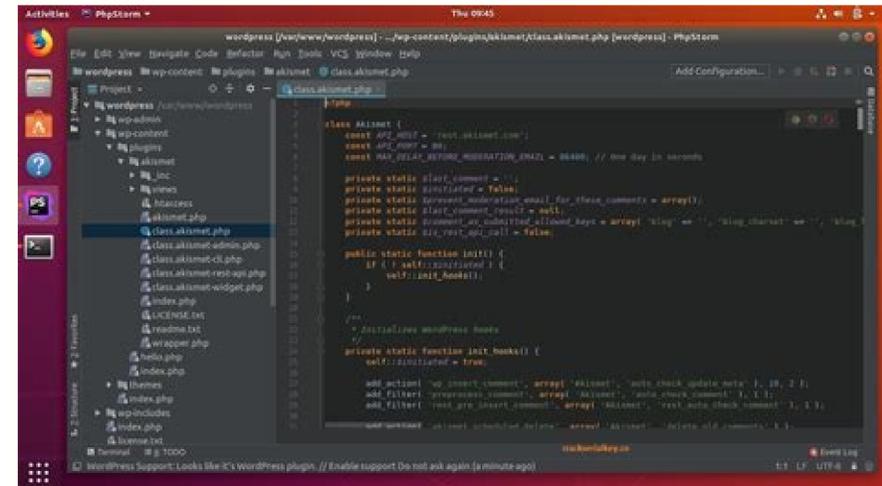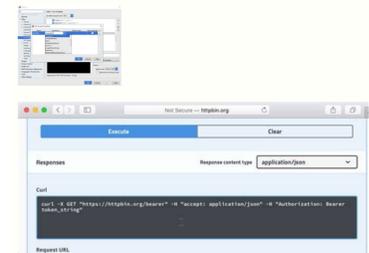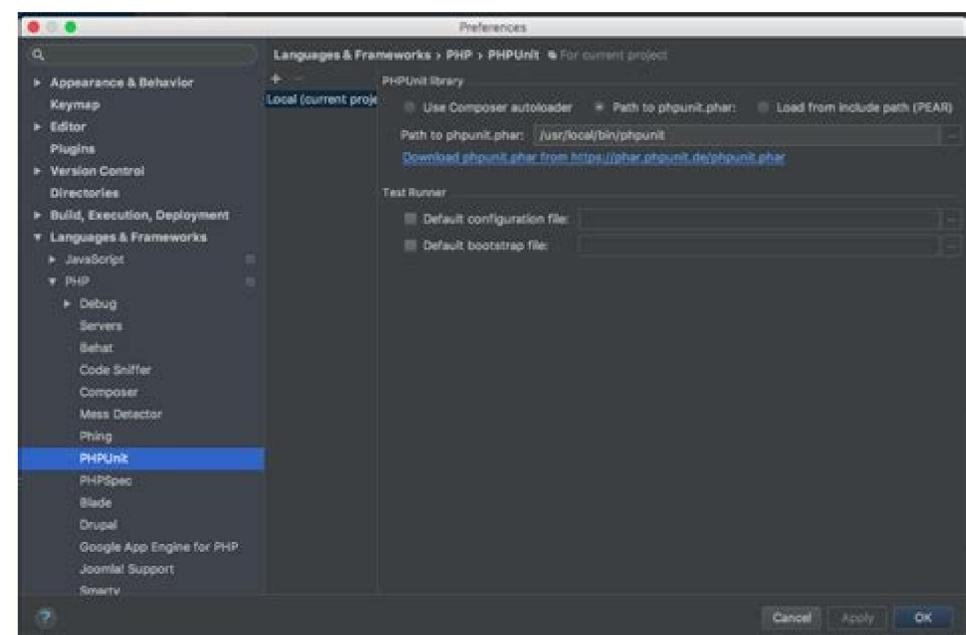Phpstorm reformat code in directory

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WebStorm lets you reformat your code according to the requirements you've specified in your current code style scheme or the .editorconfig file. If anything is not defined in .editorconfig, it's taken from the project settings. You can reformat a part of code, the whole file, group of files, a directory, and a module. You can also exclude part of code or some files from the reformatting. If you are using specific linters or formatters, refer to corresponding pages, for example, Prettier or ESLint. In the editor, select a code fragment you want to reformat. Before reformatting, you can take a look at the code style settings that are applied to the selected code: press Alt+Enter and click Adjust code style settings. From the main menu, select or press Ctrl+Alt+L. If you don't select a code fragment, WebStorm will reformat the whole file. Either open your file in the editor and press Ctrl+Alt+Shift+L or in the Project tool window, right-click the file and select .Keep pressing Shift and select additional files for a group reformatting. In the dialog that opens, if you need, select the following reformatting options: Optimize imports: select this option if you want to remove unused imports, add missing ones, or organize import statements. For more information, refer to the Optimize imports section. Rearrange entries: select this option if you need to rearrange your code based on the arrangement rules specified in the code style settings. Code cleanup: select this option to run the code cleanup inspections. Do not keep line breaks: reformat line breaks according to the code style settings. This option overrides the existing. If you want to see the exact changes made to your code before reformatting, use the Local History feature. In the project view, right-click a folder and from the context menu, select Reformat Code or press Ctrl+Alt+L. In the dialog that opens, specify the necessary options and click OK. You can reformat line indents based on the specified settings. While in the editor, select the necessary code fragment and press Ctrl+Alt+I. If you need to adjust indentation settings, in the Settings/Preferences dialog (Ctrl+Alt+S), go to .On the appropriate language page, on the Tabs and Indents tab, specify the appropriate indents options and click OK. In some cases, the option Detect and use existing file indents for editing located in the Indent Detection section in can override your settings. In this case WebStorm will display a notification. You can configure the IDE to reformat code in modified files automatically when your changes are saved. Press Ctrl+Alt+S to open the IDE settings and select . Enable the Reformat code option. Additionally, you can configure the way the IDE will reformat your code. Click Configure scope to specify the patterns of filenames and directories that you want to exclude from reformatting. From the All file types list, select the types of files in which you want to reformat code. Select Whole file or Changed lines if your project is under version control. If you select Changed lines, reformatting will apply only to the lines of code that have been changed locally, but not yet checked in to the repository. You can exclude a group of files and directories from reformatting , code arrangement, and import optimization. In the Settings/Preferences dialog (Ctrl+Alt+S), go to .Switch to the Formatter tab and in the Do not format field, enter the files and directories that you want to exclude using a glob pattern. You can specify several glob patterns separated with a semicolon ; . If you click , the field will expand, and each pattern will be shown on a separate line. Apply the changes and close the dialog. In the Settings/Preferences dialog (Ctrl+Alt+S), go to .Switch to the Formatter tab and enable the Turn formatter on/off with markers in code comments option. In the editor, at the beginning of a region that you want to exclude, create a new comment Ctrl+/ and type @formatter:off. At the end of the region, create another line comment and type @formatter:on. The code between the markers won't be reformatted. The example shows two code fragments. One of them, line 2 - line 8, is enclosed in the @formatter:off and @formatter:on markers while the other one, line 11 - line 17, is not. The original formatting of the code inside the markers (line 2 - line 8) is preserved while the code without markers (line 11 - line 17) is reformatted: The original formatting is not preserved in either code fragment. You can select formatting rules which will be ignored when you reformat the code. For example, you can adjust the IDE to keep simple methods and functions in one line, whereas normally they are expanded into multiple lines after code reformatting. Go to , select your programming language, and open the Wrapping and Braces tab. In the Keep when reformatting section, select the formatting rules which you want to ignore and deselect those which should be applied. Reformat your code (Ctrl+Alt+L). WebStorm will reformat your code in accordance with the current style settings, keeping existing formatting for the rules which you've selected. You can rearrange your code according to the arrangement rules set in the Code Style page of the Settings/Preferences dialog. You can exclude specific files and folders from arrangement. For more information, refer to Exclude files from reformatting. In the Settings/Preferences dialog (Ctrl+Alt+S), go to .Select a language for which you want to create arrangement rules. On the Arrangement tab, specify the appropriate options such as grouping and matching rules. Click OK to save the changes. In the editor, select the code entries you want to rearrange and from the main menu, select . You can configure the IDE to rearrange code elements in modified files automatically when your changes are saved. Press Ctrl+Alt+S to open the IDE settings and select .Enable the Rearrange code option. Additionally, you can click Configure arrangement rules to specify the rules for reordering code elements for the selected language. Last modified: 25 July 2022 I've been using a Macro for years in PHPStorm that, when I hit Cmd+S, reformatted my code based on the project's settings. While reformatting on every save may be overkill, it does mean that my code does remain clean, neat and consistent. In PHPStorm 2021.1, this Macro had 5 steps: Select All Reformat Code Save All Editor Up Editor Down Those last two steps allowed the caret to stay in the same position, and to have all of the content de-selected (after step 1's Select All). But in PHPStorm 2021.2, the caret behaviour of selected text has changed, and steps 4 and 5 here led to some undesirable behaviour. Steps 1-3 are all fine, but...4 moved the caret to the top of the document5 moved the caret down one lineThis actually meant that on every save, I was actually moved back to Line 2 of every file. On longer files, that's a bit silly. Actually, no, it's a bit frustrating. In PHPStorm 2021.2, I have re-recorded a Macro, with 4 steps – and to be honest, I feel should actually work in earlier versions: Select All Reformat Code Save All Escape So now rather than touching the caret at all, a simple Escape deselects all of the content too, and leaves the caret in place. While this feels like a bug given it has only cropped up with PHPStorm 2021.2, it actually is more a sign of an earlier bug with 2021.1 and earlier: moving the caret up and down when the entire text is selected does actually make sense to move to the top and down one line. So in that regard, 2021.2 actually fixed the issue. But regardless, if you're a Format and Save fan like me, tweak your Macro to keep the formatting love on every save. Update from PHPStorm The team at Jetbrains reached out and brought to my attention that PHPStorm 2021.2 actually has a new feature too - "Actions on Save" - which is able to do the same thing, without using a Macro. Find out more details in the new features for PHPStorm 2021.2 post. This dialog appears when you select a action on the directory. Item Description Directory This is a read-only field that displays the name of the selected directory. Options This area displays options for your code reformatting. You can select from the following options: Include subdirectories select this checkbox to have source code from files in the nested directories reformatted. This checkbox only appears when the nested directories exist. Optimize imports select this checkbox to remove unused import statements from the code within the selected scope. Rearrange entries select this checkbox to reorder your source code entries. Cleanup code select this option to run the code cleanup inspections. Only changes uncommitted to VCS If this checkbox is selected, then reformatting will apply only to the files that have been changed locally, but not yet checked in to the repository. This checkbox is only available for the files under version control. Filters This area displays options for the filters that you can apply to the code reformatting action. You can select from the following options: Scope select this checkbox to choose, from the list, a scope to which you want to apply your reformatting options. If you want to configure a custom scope, click button to open the Scopes dialog .File mask(s) select this checkbox to choose, from the list, file extensions to which you want to apply your reformatting options. Run Click this button to start reformatting the source code within the specified scope. Last modified: 25 March 2022 As a developer, you're going to be making changes to a codebase. That's why, as Harold Abelson put it, "Programs must be written for people to read." If a codebase is not clearly formatted, debugging becomes more difficult than it should be. Though usually overlooked, little changes like reformatting and proper indentation of your code can obviously differentiate a professional developer's code base from someone just learning. Keeping your code well-formatted and indented can help you write code that's easier to read. This makes collaboration on your projects easier and also increases the pace of debugging and other codebase maintenance; it's easier to troubleshoot code with good readability and structure. Despite the numerous benefits of properly formatted code, you might still get by as a developer without being disciplined about this, especially given that it can be time consuming. What if you could automate it? This article will introduce you to a simple method for automatically reformatting your code with IntelliJ IDEA. You'll learn how to reformat code with IntelliJ, as well as how to exclude part of the codebase from reformatting, using different shortcuts. The Benefits of Reformatting It's important to remember that formatting and commenting code aren't required for a function to work. Any code, with or without formatting, is entirely capable of being read and executed by a compiler. Reformatting, on the other hand, makes markup considerably easier to read for humans. The only thing that matters to a compiler is that the code is valid and error-free, not how good or nicely indented it is. But humans are concerned about the latter because they are the ones reading it. Just as with plain text, nobody loves to read shapeless content, without headings, paragraphs, or any sort of indentation. Some of the necessary reformatting techniques involve: Indentation Style and spelling of functions While space Capitalization and naming Among others! Debugging is a necessary evil that the average developer will run into frequently throughout their career. But where do you start when your codebase is cluttered and disorganized? When source code is properly formatted and indented, the code looks less clustered. This makes it easier to determine where the application's different modules fall, and therefore easier to find issues and errors. Reformatting code in IntelliJ IDEA is based on the requirements specified in the code style settings on the IDE. Although, when you make use of the EditorConfig in your project, the settings you've specified in the .editorconfig file by default override the ones specified in the code style settings anytime you reformat your code. Reformatting in IntelliJ is not really different than in other IDEs. There are options for reformatting a particular block of code as well as a whole file. There may be times when your whole code block is pretty long and you want everything reformatted, with the exclusion of a few specific areas. In this case, individually selecting the parts of your code you want formatted is definitely not the way to go. In situations like that, IntelliJ's reformatting definitely comes in handy. We'll be exploring that and other use cases as we continue. Tips for Formatting Code First, let's cover a few basic tips for formatting code in general: Ensure your code is properly commented. Use comments to convey intention and meaning. Even if you're the only one reading your code, this is still helpful for recalling what blocks of your code are intended for, say, if you revisit your codebase after taking a vacation. Do not use tabs for spaces while on the same line. This decreases the readability of your code. Add TODO to code blocks to help you keep tabs on future implementations. That way, when you reformat your code, it doesn't give the illusion of your work being finished. Don't use code reformatting as a quick fix for syntax errors. Avoid deep nesting. This is a common practice among some developers, but deep nesting your code hinders readability and gives room for errors that might not be easily spotted at a glance. Code Reformatting in IntelliJ Before we explore the different ways of formatting code in IntelliJ, start by creating a sample Java project in your IDE. Open up IntelliJ—you should see a screen like this: Click Next and finish the project initialization setup. Now that your project is set up, it's time to add some sample code to help you understand code reformatting in IntelliJ. This is a simple word counter from the University of Texas: import java.io.File; import java.io.IOException; import java.util.Map; import java.util.Scanner; import java.util.TreeMap; public class SimpleWordCounter { public static void main(String[] args) { {File f = new File("ciaFactBook2008.txt"); Scanner sc; sc = new Scanner(f); Map wordCount = new TreeMap(); while(sc.hasNext()) { String word = sc.next(); if(!wordCount.containsKey(word))wordCount.put(word, 1); else wordCount.put(word, wordCount.get(word) + 1);} // show results for(String word : wordCount.keySet()) System.out.println(word + " " + wordCount.get(word)); System.out.println(wordCount.size()); } catch(IOException e) {System.out.println("Unable to read from file."); } } } Reformatting Code Fragments Let's start by formatting code fragments. To achieve this, simply highlight the portion of code you intend to format and click Code > Reformat Code. You can see that the highlighted section of your code— in this case, lines 11–17—has been properly formatted. Let's take a look at the before and after of our code fragment reformatting. If you notice in the first image, the declaration and initialization of your variable happened on the same line as your try declaration. The closing curly brackets are also jumbled up with your else block. But after highlighting that portion of your code and using the reformatting option, you have a code block that's pleasing to the eye. The full code in your class now looks something like this. Notice that only the block of code you selected got reformatted. Reformatting Entire Files To reformat an entire file, open up your editor, place your cursor anywhere, and click Code > Reformat File. You'll get a prompt asking you to choose relevant reformatting options for the whole file. This action reformats all your code in the active editor. So your code becomes something like this: Reformatting a Module or Directory To achieve this, all you have to do is right-click on the module in the project tool window and select Reformat Code. In the pop-up window, select any of the three options that apply to what you need: Optimize Imports: Choose this if you want to add missing imports statements and also get rid of unused imports. Cleanup Code: For running the code cleanup. Once you are done, simply click OK. Exclude Code from Reformatting Let's walk through what to do if you have a block of code that you don't want to include while formatting an entire file. Go to File > Settings or use the keyboard shortcut Ctrl+Alt+S. Go to Editor > Code Style and choose the Enable formatter markers in comments checkbox. Now navigate to a part of your code and using the reformatting option, you have a code block that's pleasing to the eye. Tips of Shortcuts for Reformatting Reformat Code: Ctrl + Alt + Shift + L Reformat File: Ctrl + Alt + L Add a Line Comment: Ctrl + / Add a Block Comment: Ctrl + Shift + / Conclusion Paying attention to your code formats is just as important for a developer as getting it to work in the first place. You never can tell who'll be visiting your mass of code eventually—having an easy-to-read, well-structured codebase speaks well of a professional developer. Thanks to IntelliJ, formatting your code does not have to be as difficult as writing the code itself. Next time you're writing code using IntelliJ, incorporate these tips to help you reformat your code and make it easier on yourself when you need to debug in the future.

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