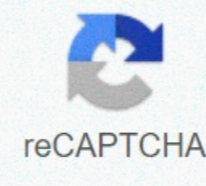




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## Python spyder auto format code

Even if you don't intend anybody else to read your code, there's still a very good chance that somebody will have to stare at your code and figure out what it does: That person is probably going to be you, twelve months from now[1], or as Zen of Python says "Readability Counts".PEP8 Style Guide:Since code is read more than it is written, it is very important to make sure that the code is readable. Python has coding conventions(PEP8 style guide) to maintain consistency in code and thereby making it more readable.There are lot of tools (like pep8, flake8, pylint) to check if Your code is in compliance with PEP8. Today most of the IDE/text editors have plugins which check for these errors and report it on the fly. If you are writing code from scratch, You can make sure that you are following coding conventions.However once in a while You have to read/bug-fix other people's code who don't follow these conventions(or You might even stumble across Your old piece of code). Once You are accustomed to style guide, it will be uneasy to read inconsistent code. Here is a badly formatted Python file opened in Emacs editor(with flymake & flake8 configured) If You don't like any of PEP8 rules, You can set Your own style guide for Your project. Most developers find limiting line length to 79 characters annoying. So they set their own line limit. You can even configure PEP8 checkers to take You own guidelines and check the code according to it. auto PEP8:Formatting code to PEP8 style is boring & time consuming process. So instead of manually formatting code, You can use autopep8 package which automatically formats Python code to conform to the PEP 8 style guide.To install the package run!f You have a file foo.py as show above, You can run\$ autopep8 --in-place --aggressive --aggressive foo.py which neatly formats the file like this Emacs Integration:As emacs is extremely configurable editor, with just couple of lines of lisp, we can integrate autopep8 to emacs. Just find where autopep8 is installed, write a function which runs autopep8 on current buffer, bind a key to that function; set a hook, so that when ever You save a file, it will be automatically run the function.This works reasonably well. But I do recommend using Elypy for Python development in emacs. I have just sent a pull request to integrate autopep8 with elpy.Formatting: PEP8 formatters like autopep8, pep8ify will remove only lint errors. But they can't handle badly code. little = more(3; sjk = ['a': 37, 'b': 42, 'c': 927] Above code remains same after pep8ifying also. But the code doesn't look good yet. You can use formatters like yapf, which will format the code even if the code is PEP8 compliant. Above code will be formatted to little = more(3; sjk = ['a': 37, 'b': 42, 'c': 927] Some times this even destroys Your manual formatting. For example BAZ = [(1, 2, 3, 4), [5, 6, 7, 8], [9, 10, 11, 12]] BAZ = [(1, 2, 3, 4), [5, 6, 7, 8], [9, 10, 11, 12]] But You can tell it to ignore some parts. BAZ = [(1, 2, 3, 4), [5, 6, 7, 8], [9, 10, 11, 12]] # yapf: disable Beyond PEP8:As we have learnt to auto PEP8 code, it is the time to look beyond PEP8. There is a good talk by Raymond Hettinger on that - Beyond PEP8, Best practices for beautiful intelligible code.Let Machines take care of PEP8 & Let Humans look Beyond PEP8.References:[1] Code is read much more often than it is written, so plan accordingly.Python - PEP8 style guide.Autopep8 - formats Python code to conform to the PEP 8.PEP8ify - modifies python source code to conform to PEP8.yapf - A formatter for Python files. Beyond PEP8 - Best practices for beautiful intelligible code. Elypy, the Emacs Lisp Python Environment.Read more articles about Python!Read more articles about Emacs! Written by Chhilar Anand Musings about programming, careers & life. By using Black, you agree to cede control over minutiae of hand-formatting. In return, Black gives you speed, determinism, and freedom from pycodestyle nagging about formatting. You will save time and mental energy for more important matters. Black makes code review faster by producing the smallest diffs possible. Blackened code looks the same regardless of the project you're reading. Formatting becomes transparent after a while and you can focus on the content instead. Try it out now using the Black Playground. Note - this is a beta product Black is already successfully used by many projects, small and big. Black has a comprehensive test suite, with efficient parallel tests, our own auto formatting and parallel Continuous Integration runner. However, Black is still beta. Things will probably be wonky for a while. This is made explicit by the "Beta" trove classifier, as well as by the "b" in the version number. What this means for you is that until the formatter becomes stable, you should expect some formatting to change in the future. That being said, no drastic stylistic changes are planned, mostly responses to bug reports. Also, as a safety measure which slows down processing, Black will check that the reformatted code still produces a valid AST that is effectively equivalent to the original (see the [Pragmatisms](#) section for details). If you're feeling confident, use --fast. Note Black is licensed under the MIT license. Dusty Phillips, writer: Black is opinionated so you don't have to be. Hynek Schlawack, creator of attrs, core developer of Twisted and CPython; An auto-formatter that doesn't suck is all I want for Xmas! Carl Meyer, Django core developer: At least the name is good. Kenneth Reitz, creator of requests and pipenv: This vastly improves the formatting of our code. Thanks a ton! Use the badge in your project's README.md. [[Code style: black] (20style-black-00000.svg)] (Using the badge in README.rst... image:: 20style-black-00000.svg target: Looks like this: The Python extension provides many features for editing Python source code in Visual Studio Code: Also see Linting and Jupyter Support. Autocomplete and IntelliSense Autocomplete and IntelliSense are provided for all files within the current working folder and for Python packages that are installed in standard locations. While editing, you can right-click different identifiers to take advantage of several convenient commands Go to Definition (F12) jumps from your code into the code that defines an object. This command is helpful when you're working with libraries. Peek Definition (~^F12 (Windows Alt+F12, Linux Ctrl+Shift+F10)), is similar, but displays the definition directly in the editor (making space in the editor window to avoid obscuring any code). Press Escape to close the Peek window or use the x in the upper right corner. Go to Declaration jumps to the point at which the variable or other object is declared in your code. Peek Declaration is similar, but displays the declaration directly in the editor. Again, use Escape or the x in the upper right corner to close the Peek window. Customize IntelliSense behavior To customize the behavior of the analysis engine, see the code analysis settings and autocomplete settings. You can also customize the general behavior of autocomplete and IntelliSense, even to disable these features entirely. See Customizing IntelliSense. Tip: Check out the IntelliCode extension for VS Code (preview). IntelliCode provides a set of AI-assisted capabilities for IntelliSense in Python, such as inferring the most relevant auto-completions based on the current code context. For more information, see the IntelliCode for VS Code FAQ. Enable IntelliSense for custom package locations To enable IntelliSense for packages that are installed in other, non-standard locations, add those locations to the python.autoComplete.extraPaths collection in the settings file (the default collection is empty). For example, you might have installed Google App Engine installed in custom locations, specified in app.yaml if you use Flask. In this case you'd specify those locations as follows: Windows: "python.autoComplete.extraPaths": [ "C:/Program Files (x86)/Google/google\_appengine", "C:/Program Files (x86)/Google/google\_appengine/lib/flask-0.12" ] macOS/Linux: "python.autoComplete.extraPaths": [ "~/.local/lib/Google/google\_appengine", "~/.local/lib/Google/google\_appengine/lib/flask-0.12" ] The python.autoComplete.addBrackets setting (default false) also determines whether VS Code automatically adds parentheses (()) when auto-completing a function name. For example, if you set addBrackets to true: "python.autoComplete.addBrackets": true, and then write import os followed by os.getc, you'll see autocomplete for os.getcwd() to your source code and place the cursor inside the parentheses. When the setting is false, only os.getcwd is added to the file. For more on IntelliSense generally, see IntelliSense. Troubleshooting If autocomplete and IntelliSense are not working for a custom module, check the following causes: Cause Solution The path to the python interpreter is incorrect Check the pythonPath setting. Restart VS Code if you make a correction. The custom module is located in a non-standard location (not installed using pip). Add the location to the python.autoComplete.extraPaths setting and restart VS Code. Quick Fixes The add imports Quick Fix allows you to quickly complete import statements. Begin by typing a package name within the editor and you will notice a Code Action is available to automatically complete the line of source code (as long as you have the module installed within the environment). Hover over the text (marked with a squiggle) and then select the Code Action light bulb when it appears. You can then select from a list of potential imports. Note that the functionality in the below examples is provided by the Pylance language server. The add imports Code Action also recognizes some of the popular abbreviations for the following common Python packages: numpy as np, tensorflow as tf, pandas as pd, matplotlib.pyplot as plt, matplotlib, as mpl, math as m, scipy as sp, and holoviews as hv. The import suggestions list is ordered with import statements for packages (or modules) at the top, followed by statements for additional modules and/or members (classes, objects, etc.) from specified packages. Run Selection/Line in Terminal (REPL) The Python: Run Selection/Line in Python Terminal command (Shift+Enter) is a simple way to take whatever code is selected, or the code on the current line if there is no selection, and run it in the Python Terminal. An identical Run Selection/Line in Python Terminal command is also available on the context menu for a selection in the editor. VS Code automatically removes indents based on the first non-empty line of the selection, shifting all other lines left accordingly. Source code that runs in the terminal/REPL is cumulative until the current instance of the terminal is closed. The command opens the Python Terminal if necessary; you can also open the interactive REPL environment directly using the Python: Start REPL command. (Initial startup might take a few moments especially if the first statement you run is an import.) On first use of the Python: Run Selection/Line in Python Terminal command, VS Code may send the text to the REPL before that environment is ready, in which case the selection or line is not run. If you encounter this behavior, try the command again when the REPL has finished loading. Formatting Formatting makes code easier to read by human beings by applying specific rules and conventions for line spacing, indents, spacing around operators, and so on (see an example on the autopep8 page). Formatting doesn't affect the functionality of the code itself. (Linting, on the other hand, analyzes code for common syntactical, stylistic, and functional errors as well as unconventional programming practices that can lead to errors. Although there is a little overlap between formatting and linting, the two capabilities are complementary.) The Python extension supports source code formatting using either autopep8 (the default), black, or yapf. General formatting settings Setting(python.formatting.) Default value Description provider "autopep8" Specifies the formatter to use, either "autopep8", "yapf", or "black". Formatter-specific settings The following settings apply to the individual formatters. The Python extension looks in the current pythonPath for the formatter. To use a formatter in another location, specify that location in the appropriate custom path setting. The pip install commands may require elevation. Formatter install steps Arguments setting(python.formatting.) Custom python path setting(python.formatting.) autopep8 pip install pep8pip install --upgrade autopep8 autopep8Args autopep8Path black (see note) pip install black blackArgs blackPath yapf pip install yapf yapfArgs yapfPath Note: By default, the Black formatter can't be installed when a Python 2 environment is active. Attempting to do so may display the message "Formatter black is not installed. Install?". If you try to install Black in response, another message appears saying "Could not find a version that satisfies the requirement black" No matching distribution found for black." To work around this issue and use the Black formatter with Python 2, first install Black in a Python 3 environment. Then set the python.formatting.blackPath setting to that install location. When using custom arguments, each top-level element of an argument string that's separated by space on the command line must be a separate item in the args list. For example: "python.formatting.autopep8Args": ["--max-line-length", "120", "--experimental"], "python.formatting.yapfArgs": ["--style", "(based\_on\_style: chromium, indent\_width: 20)"], "python.formatting.blackArgs": ["--line-length", "100"] In the second example, the top-level element (based\_on\_style: chromium, indent\_width: 20) is a single value contained in braces, so the spaces within that value don't delineate a separate element. Troubleshooting If formatting fails, check the following possible causes: Cause Solution The path to the python interpreter is incorrect. Check the pythonPath setting. The formatter is not installed in the current environment. Open a command prompt, navigate to the location specified in the pythonPath setting, and run pip install for the formatter. The path to the formatter is incorrect. Check the value of the appropriate python.formatting.Path setting. Custom arguments for the formatter are incorrect. Check that the appropriate python.formatting.Path setting does not contain arguments, and that python.formatting.Args contains a list of individual top-level argument elements such as "python.formatting.yapfArgs": ["--style", "(based\_on\_style: chromium, indent\_width: 20)"]. Pop up with warning message Black does not support the "Format Select" command. black does not support formatting sections of code, it can be prevented with the following settings ["python": {"editor.formatOnPaste": false, "editor.formatOnSaveMode": "file"}. Refactoring The Python extension adds the following refactoring commands: Extract Variable, Extract Method, and Sort Imports. Extracts all similar occurrences of the selected text within the current scope, and replaces it with a variable. The new method is given the name newvariablenNN where NNN is a random number. Invoked by: Context Menu: right-click a selection and select Extract Variable. Command Palette (⇧⌘P (Windows, Linux Ctrl+Shift+P)), then Python Refactor: Extract Variable. Assign a keyboard shortcut to the python.refactorExtractVariable command. Extracts all similar occurrences of the selected expression or block of within the current scope, and replaces it with a method call. The new method is given the name newmethodNNN where NNN is a random number. Invoked by: Context Menu: right-click a selection and select Extract Method. Command Palette (⇧⌘P (Windows, Linux Ctrl+Shift+P)), then Python Refactor: Extract Method. Assign a keyboard shortcut to the python.refactorExtractMethod command. Sort Imports Sort Imports uses the sort package to consolidate specific imports from the same module into a single import statement and to organize import statements in alphabetical order. Invoked by: Right-click in editor and select Sort Imports (no selection is required) Command Palette (⇧⌘P (Windows, Linux Ctrl+Shift+P)), then Python Refactor: Sort Imports Assign a keyboard shortcut to the python.sortImports command Custom arguments to sort are specified in the python.sortImports.args setting, where each top-level element, as separated by spaces on the command line, is a separate item in the array. "python.sortImports.args": ["--rc", "--atomic"]. To use a custom isort script, use the python.sortImports.path setting to specify the path. Further configurations can be stored in an .isort.cfg file as documented on isort Configuration. Note: For those migrating from isort4 to isort5, some CLI flags and config options have changed, refer to the project's isort5 Upgrade Guide. Next steps Linting - Enable, configure, and apply a variety of Python linters. Debugging - Learn to debug Python both locally and remotely. Testing - Configure test environments and discover, run, and debug tests. Basic Editing - Learn about the powerful VS Code editor. Code Navigation - Move quickly through your source code. IntelliSense - Learn about IntelliSense features. 01/29/2019

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