

(/)



Curriculum

Short Specializations ^

Average: 97.3% v

Software Linter

Definition

A software linter also known as a “linter” is a tool used to identify and report potential issues (syntax errors, undeclared variables, etc.) in a program. It can even report convention or style inconsistencies. It does so by highlighting them so that the programmer is aware, so changes can be made. There are a wide variety of linters as well as lint rules for specific programming languages and even for software frameworks.

There are typically two ways to lint code:

- Actively
- Passively

Active

Active checking is typically achieved by running a monitor tool that is constantly checking the file that your working on in order to spot inconsistencies and possible errors (e.g., having a specific linter along with some lint rules installed as a plug-in in your Code Editor).

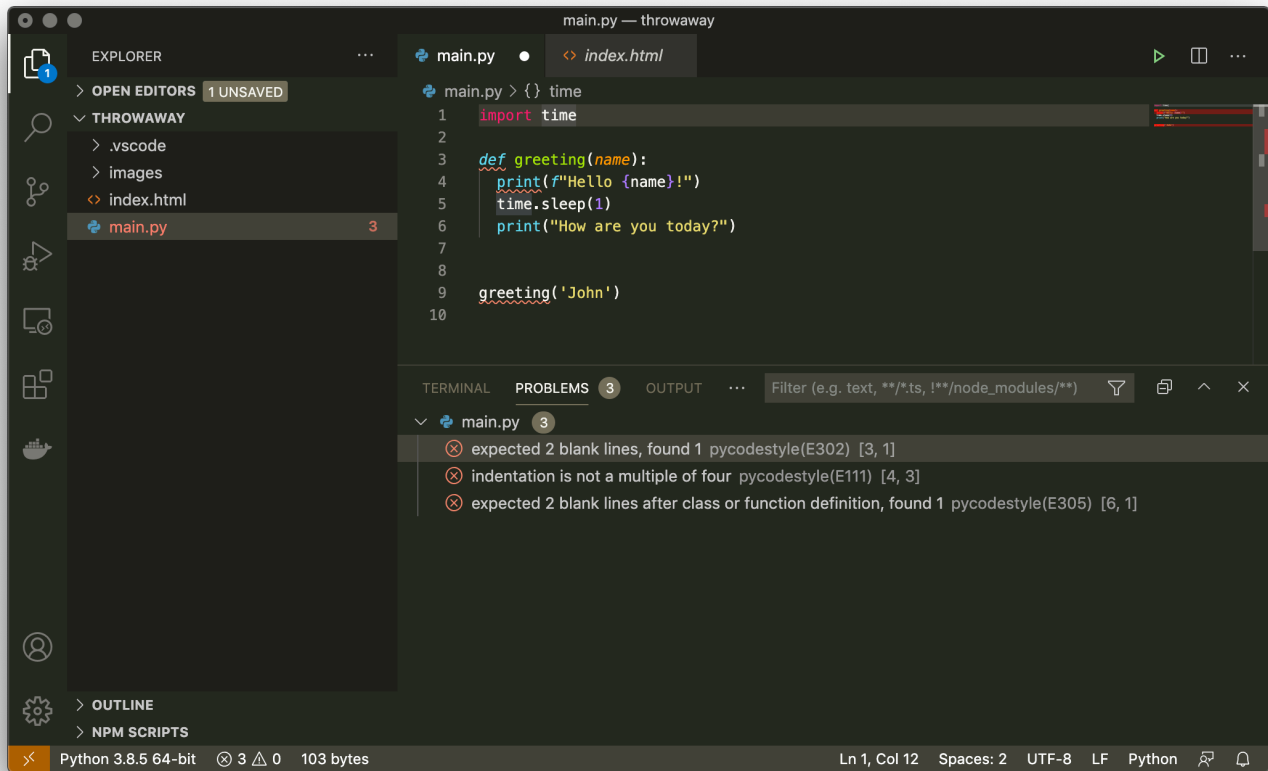
Passive

Passive checking is done by taking a piece of code, and manually running it through a tool to identify potential issues. For example, copying and pasting your code into a specific linter tool, or running the linter against a specific file using the command line. This tool can be installed locally or be available as a service (e.g., website on the Internet).

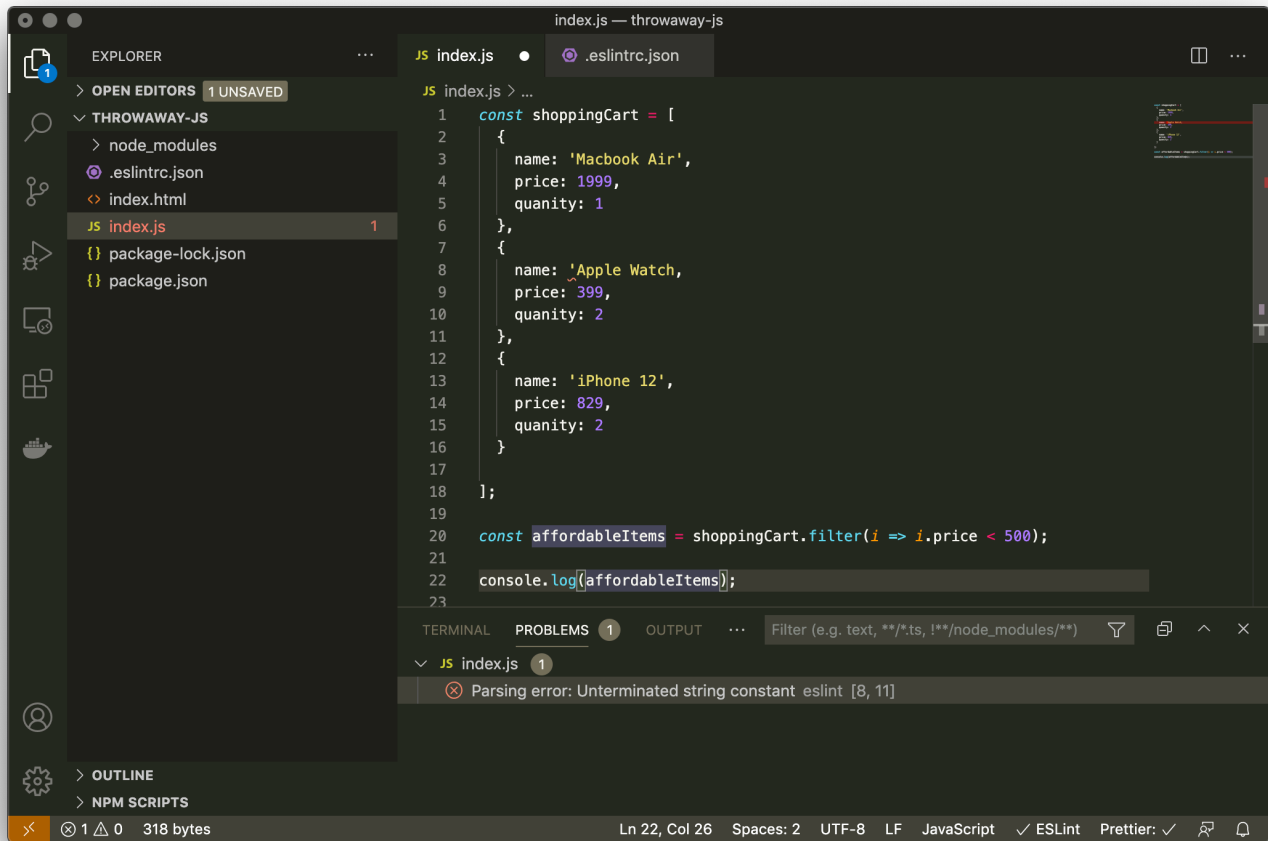
Examples



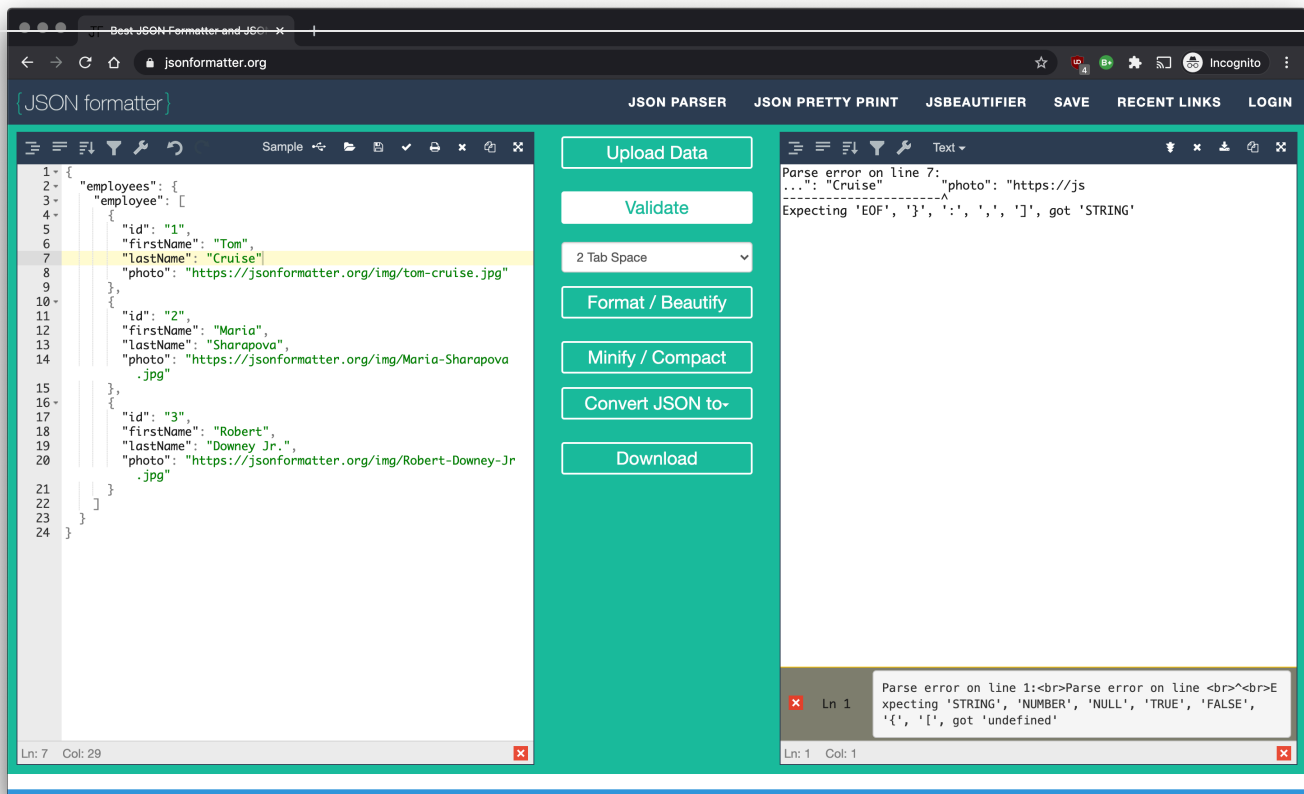
Screenshot of an active linter `pycodestyle` (Python) integrated into Visual Studio Code
(rltoken/p3Rsl0ymQdmS7j8GaoX-gQ)



Screenshot of an active linter ESLint (JavaScript) integrated into Visual Studio Code
(/rltoken/p3Rsl0ymQdmS7j8GaoX-gQ)



Screenshot of a passive online linter service JSON Formatter to validate a JSON data structure (/)



Fun fact: The term “lint” was derived from the name of the tiny bits of fiber and fluff shed by clothing.

References

- lint (software) - Wikipedia (/rltoken/OcBbDM8QALAmJA4iwFjGBA)
- ESLint - Pluggable JavaScript linter (/rltoken/Or1sNv7iTj-qzebPqIT2lg)
- pycodestyle - documentation (/rltoken/SwEhYt8xBLP0tYRzYrb6Rg)

