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Unit Converter

My Python project was to create a program that could convert different units of various properties into more common items or units that users would be able to understand and visualize. The goal was to create a program that would help students gain visual representations of different measurements. For my project, I used Spyder which is an open-source, software program for writing in the coding language of Python. The program uses eight different functions for the eight different measurements supported (weight, height, volume, amount, length, temperature, calorie count, time), a selection of dictionaries which assign units to numeric values, and a series of if statements. The resulting program successfully takes a property such as weight or volume from the user, offers a user a variety of units to select, takes a number of said units from the user, and the unit the user wants to convert to. After the data from the user is collected, Python dictionaries and a function convert the units and print them out for the user. In the future this project could be expanded to display graphics comparing the size of different units. This program can be very helpful in education because students will be able to view units as something they understand. Instead of just a milliliters and metric tons, students will be given memorable ways of picturing the units for themselves such as elephants or football fields. The program also supports standard unit conversions such as pounds to kilograms.