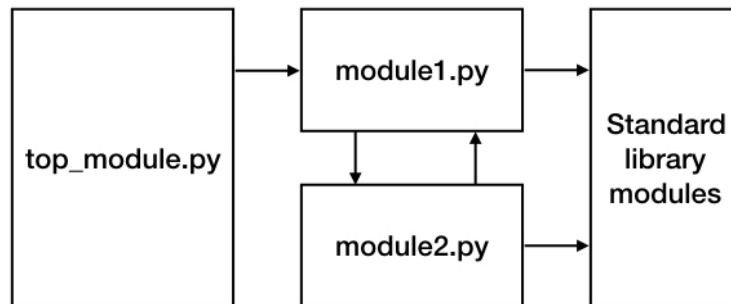Python | Modules

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What Are Modules?

We use various forms of modules daily such as, televisions, calculators, and cell phones, each are pre-programmed devices created to perform specific tasks. Likewise, in python, modules are packaged code, programs and statements already written for the purpose of convenient and organized reuse. Each module is saved within a given name or *'namespace'*. Python comes already with a collection of these modules that you can call upon by their namespace such as (csv, json, math, etc.). These extensions save compile time and your own when writing your code. You can even create your own if you find yourself writing the same functions over and over.

How to Use Modules *(find, compile, run)*

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1. *Import* - statement to locate module file that is referenced
2. *From* - let's client use particulars from imported module
3. *Imp.reload* - reloads the module's code without stopping python

Example:

- *top_module.py* ---bs4 (beautifulsoup4)
- *module1.py* --- beautifulsoup
- *module2.py* --- urlibb.request
- *standard library modules* --- sp = urllib.request.urlopen('*url*') .read()

Code Exercise

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1. Create your own calculator using the math module.