

Import From Source File

The `importlib`'s `util` sub-module has another neat trick that I want to cover. You can use **`util`** to import a module using just its name and file path. The following is a very derived example, but I think it will get the point across:

```
import importlib.util

def import_source(module_name):
    module_file_path = module_name.__file__
    module_name = module_name.__name__

    module_spec = importlib.util.spec_from_file_location(
        module_name, module_file_path)
    module = importlib.util.module_from_spec(module_spec)
    module_spec.loader.exec_module(module)
    print(dir(module))

    msg = 'The {module_name} module has the following methods:' \
        ' {methods}'
    print(msg.format(module_name=module_name,
                     methods=dir(module)))

if __name__ == '__main__':
    import logging
    import_source(logging)
```



In the code above, we actually import the **`logging`** module and pass it to our **`import_source`** function. Once there, we grab the module's actual path and its name. Then we call pass those pieces of information into the `util`'s **`spec_from_file_location`** function which will return the module's specification. Once we have that, we can use the same `importlib` mechanisms that we used in the previous section to actually import the module.

Now let's look at a neat 3rd party module that Python's **`__import__()`** function to import packages directly from github!

