

# Console scripts

Or: How to execute your scripts in a terminal

# Setup tools

- “setup.py” defines requirements, packages, etc
- See previous talk

[https://github.com/HamPUG/meetings/tree/master/2018/2018-02-12/setup\\_tools\\_pypi\\_mkdocs](https://github.com/HamPUG/meetings/tree/master/2018/2018-02-12/setup_tools_pypi_mkdocs)

- We are using the “console\_scripts” entry point

<https://python-packaging.readthedocs.io/en/latest/command-line-scripts.html#the-console-scripts-entry-point>

# setup.py

- Add “entry\_points” section:

```
entry_points={  
    "console_scripts": [  
        "msdp-hello=msdp.hello:sys_main",  
    ]  
}
```

- Format:

```
script_name=package.module:method
```

# Method

- Must return an int, to be used as exit code
- Calls the same method that “\_\_main\_\_” uses
- Example:

```
def sys_main():  
    try:  
        main() # actual method doing the arg parsing/work  
        return 0  
    except Exception:  
        return 1
```

# Full code

```
import argparse
import traceback

def main(args=None):
    parser = argparse.ArgumentParser()
    parser.add_argument("--text", help="the text to output", required=True)
    parsed = parser.parse_args(args=args)
    print(parsed.text)

def sys_main():
    try:
        main()
        return 0
    except Exception:
        print(traceback.format_exc())
        return 1

if __name__ == '__main__':
    main()
```

# ...and in action

- What happens when we install the project