Python HOW TO structure a Beginner OR Advanced Projects?

Video

https://youtu.be/6OSpm4uXqDw?si=DcuqUbdI24Y0awVo

Notes

· There is no standard rule as to what a Python directory should look like

Structure 1 Notes - For Small Projects

- o run.py trigger for running minimal functions (only a few)
 - imports functions from helpers.py
 - triggering the entire project
 - Contains a function such as run() and if name == 'main': to call it
- helpers.py/functions.py could contain all the functions
 - Contains the actual functionality of the project such as is_prime()
- constants.py Store constants

Structure 2 Notes - For Larger Projects

- Create separate folders for different functionality, essentially creating separate packages that can then be used in other projects
 - Create a prime folder and an email folder
 - Each contains its own helpers.py and constants.py
 - But also with a convention file init__.py and a file containing a class
- The __init__.py file allows you to write import email to import the package
 - Just like you can write import random

```
+--- email
| +--- constants.py
| +--- email.py
| +--- helpers.py
| +--- __init__.py
+--- prime_calculation
| +--- constants.py
| +--- helpers.py
| +--- prime_calculation.py
| +--- prime_calculation.py
| ---- run.py
```

- Is the operation performed on the object or by the object?
 - if it is done by the object, it should be a member operation. If it could apply to other things too, or is done by something else to the object then it should be a function (or perhaps a member of something else).

Resources

- Structures From Video https://github.com/jimdevops19/project-structures
- https://docs.python-guide.org/writing/structure/
- https://realpython.com/python-application-layouts/

https://stackoverflow.com/questions/193161/what-is-the-best-project-structure-for-a-
<u>python-application</u>