

Maintainability

What is maintainability

- Maintenance begins after the first commit and ends when no one is looking at your code
- Maintenance includes
 - Fixing bugs
 - Adding features
 - Reading code
 - Extracting code for use in other libraries
- Maintainable code makes these tasks easy

- Thinking about the future
- You want future maintainers to look at your code and understand your intentions easily, not curse your name

- No unstructured statements (goto, break outside a switch...)
- No use of "continue" statement within a loop
- File comment ratio (COMR) > 35%
- Capitalization rules for identifying code elements are followed
- The closing brace '}' is on a standalone line
- The code follow consistent indentation rules
- The code follow consistent whitespace rules
- File size (LOC) <1000
- No commented-out code
- Clearly show intent by annotating with types

More on type annotations:

- Optional
- Union
- Literal
- Annotated
- NewType
- Final
- List
- Dict
- tuple

Dataclasses and decorators