

CCD Cheat Sheet

TOOLS: pylint

General rules

- Follow standard conventions.
- Keep it simple stupid.

Comment Rules

- Always explain yourself
- No redundancy
- Don't comment out code. Just remove.
- Use as explanation of intent.
- Use as clarification of code.
- Use as warning of consequences.

Code smells

- Rigidity. The software is difficult to change. A small change causes a cascade of subsequent changes.
- Fragility. The software breaks in many places due to a single change.
- Immobility. You cannot reuse parts of the code in other projects because of involved risks and high effort.
- Needless Complexity.
- Needless Repetition.

Names

- Descriptive names
- Pronounceable names.
- Searchable names.
- Replace magic numbers with named constants.

Source code structure

- Declare variables close to their usage.
- Similar functions should be close.
- Place functions in the downward direction.
- Keep lines short.
- **Don't break indentation.**

Function Rules

- Small
- Do one thing
- Descriptive names
- Few arguments
- No side effects

Tests

- One assert per test.
- Readable.
- Fast.
- Independent.
- Repeatable.