Readability

- Style guides exist for a reason.
- Well written, non obscure code is more likely to be re-used.
- Potential employers are more likely to be impressed by well structured code.
- Comments!!!!!
- ’I can understand it so other people can too’ has never been a valid viewpoint.
Appropriate design choices

- In open source coding, especially at the start of a project, there is no rush.
- Choose the right Language.
- Choose the right programming methodology *OOP*, *Procedural*, *Functional*.
- It matters more that the chosen methodology matches the problem then whether or not it is in vogue.
- Have some design ideas, and make them visible to others, write some User Stories, put these online in your repository.
This is probably the biggest problem in open source development.

Why is it worse for open source then it is for the commercial world?

Why should avoiding this problem be a priority for you?

Automatic Documentation
Wiki pages (gitlab/github et al provide these)

Avoid static documentation formats (hand coded web pages)

Documentation can be auto-generated from your source, provided you provide rich comments in the right format

Doxygen
Testing

- What do we mean by testing code.
- When do you start testing.
- What testing approaches are there?
- Black Box testing.
- Edge cases determination.
- Unit testing.
If you don’t use an online git repository, your code will essentially be invisible.

'Many Eyes’ Principle is only true in theory.

All Bugs need to be reported in your online documentation gitlab/github has ’issues’ functionality.

All work to fix them, successful or not, must be reported in ’issues’, because of the potential employer visibility aspect.
Bug Tracking/Fixing 2

- Bugs aren’t really significant externally till you get to tentative release level of development, although for shared development.
- Non trivial bugs still go in issues.
- For shared development, planning and timeline management should also go online
- Trello is a good place to do this.
KEEP IN MIND THAT I'M SELF-TAUGHT, SO MY CODE MAY BE A LITTLE MESSY.

LEMME SEE— I'M SURE IT'S FINE.

...WOW!
THIS IS LIKE BEING IN A HOUSE BUILT BY A CHILD USING NOTHING BUT A HATCHET AND A PICTURE OF A HOUSE.

IT'S LIKE A SALAD RECIPE WRITTEN BY A CORPORATE

IT'S LIKE SOMEONE TOOK A TRANSCRIPT OF A COUPLE