AWS Machine Learning Foundations Course

# Software Practices I

## Writing clean code

Use meaningful names, and proper whitespace.

## Writing modular code

* DRY (Don’t repeat yourself)
* Abstract out logic to improve readability—like into a function
* Minimize number of entities
* Functions should do one thing—Single responsibility principle
* Arbitrary variable names can be more effective in certain functions
* Minimize number of arguments to a functions to 3

Writing efficient code

* Code that runs infrequently for a short time need not be highly optimized
* Code that needs to run fast, such as a live feed, should be highly optimized
* Code can be refactored to be optimized after an initial solution
* Use vector operations over loops whenever possible
* Refactor using different data structures to make code more efficient
* When searching for solutions, it’s better to experiment with different solutions to find methods that are optimum, rather than stick with the most popular solution

Related links: [What makes sets faster than lists?](https://stackoverflow.com/questions/8929284/what-makes-sets-faster-than-lists/8929445#8929445)

# References

*What makes sets faster than lists?* (n.d.). Retrieved from https://stackoverflow.com/questions/8929284/what-makes-sets-faster-than-lists/8929445#8929445

Hello

# Hello

## Hello

### Hello

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