

AutoML Group Engineering Guidelines (being updated as needed)

technical tool / shortcut learning

<https://www.shortcutfoo.com>

Coding styles

- follow PEP8 and google python style guide
 - <https://www.python.org/dev/peps/pep-0008/>
 - <https://google.github.io/styleguide/pyguide.html>
 - *everyone should have their syntax checking tools, in their text editor, installed to make sure syntax are checked*
 - see below on how to install tools for sublime text

Testing cases (under development)

- having simple testing cases to make sure code works

Rules to follow

- Do NOT repeat code, always reuse pieces.
 - Basically, when a PR is submitted, there should be repeat pieces of code.
 - A bit more explanations on why it is bad and what should we do: Most importantly it makes later modification of code very hard. Additionally, when we do code review, we spend efforts to recognize repeating code, what's worse, if there's changes to the repeated code, it's even harder to see. So ideally (not strictly enforced) if we do want to move code around, ***moving the code*** and ***modifying the code*** should be separate PRs. The ***moving the code*** PR itself should not modify the functionality. The ***modifying the code*** PR should be easy for the reviewer to see the differences.

Code review

Purposes

- Find problems and make suggestions
- Understand the reviewed code
- Learn from others' code

Submitters need to

- make sure necessary tests are implemented
- when PR is ready, notify everyone (for now) in the slack channel
- read reviewers' comments
- make changes as needed according to reviewers' comments
- respond to reviewers' comments and link (commit number) to the changes you made

Reviewers need to

- make comments directly on the page of pull requests
- ask questions and make comments as needed

Syntax checking and auto-correcting tools for sublime text

Setup package control in sublime

<https://packagecontrol.io/installation>

Install python flake8 lint

<https://packagecontrol.io/packages/Python%20Flake8%20Lint>

Then go to Preferences - Package Settings - Python Flake8 Lint - Settings User and paste the content below

```
{
    "popup": false,
    "ignore": ["E303", "E402", "D100", "D101", "D102", "D103", "D105", "D205", "D400", "W503"],
}
```

Later we might discuss what to add/remove for ignore

Install autopep8

<https://packagecontrol.io/packages/AutoPEP8>

Then go to Preferences - Package Settings - AutoPep8 - Settings User
and paste the content below

```
{  
    "ignore": "E24, E303",  
}
```

Later we might discuss what to add/remove for ignore

Error code that we might consider removing

http://www.pydocstyle.org/en/2.1.1/error_codes.html

D202	No blank lines allowed after function docstring
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