

GIT BEST PRACTICES

Rationale: We are going to be using industry standard Git practices. This is good practice for writing consistent, well-formatted, and readable code. This consistency among our team also allows for more efficient workflow and less confusion about what code should look like.

- Commit early and commit often
 - Each feature should have one or more commit
- Commit messages
 - Every commit should have a summary (50 chars or less)
 - Commit summaries should be written in present tense, start with an uppercase letter, and complete the sentence “This commit will _____”
 - Every commit may also have a longer commit message
 - Any more extensive feature should have a longer commit message
 - Commit messages detail the feature being implemented/bug being fixed, plus a description of why the changes were being made
- Branching
 - Each new feature should get its own branch
 - Don’t merge branches for features that have not been completed
 - Each feature branch will eventually be merged into the master
- Merge/Rebase
 - Prefer to rebase changes on master whenever possible
 - Every merge should get a pull request
 - Merges can only happen after review and approval from at least two other members of the team
- Public history
 - Don’t change the shared public history of the git repo without all of the other members of the team’s knowledge/presence

PYTHON BEST PRACTICES

- Indentation
 - 4 spaces (not tabs)
 - Rationale: Python standard
- Variable / Function names
 - Snake case, unless global variables are uppercase, in which case use underscores
 - Rationale: Python standard
- Commenting
 - Function-level docstrings
 - Each function have a comment describing its purpose, inputs, and outputs
 - In-line comments for more complicated code
 - Rationale: Makes code readable and understandable for other team members
- Filenames
 - Snake case
 - Rationale: It’s good to be consistent.

CODING BEST PRACTICES

- Indentation
 - 2 spaces (not tabs)
 - Rationale: Kip is using terminal code editor with 80 char-wide screens
- Variable / Function names
 - Camelcase, unless global variables are uppercase, in which case use underscores
 - Rationale: We like camelcase more. It's also good to be consistent.
- Commenting
 - Function-level comments
 - Each function have a comment describing its purpose, inputs, and outputs
 - In-line comments for more complicated code
 - Rationale: Makes code readable and understandable for other team members
- Filenames
 - Camelcase
 - Rationale: We like camelcase more. It's also good to be consistent.