

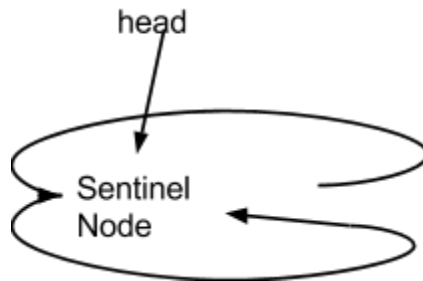
## Basic Storage Design Plan for Gitlet

### Overview: Data structure as a doubly linked list

For each of the commands below, describe in detail what files on your computer change after the command is executed. Only list changes made to files. Do not list details regarding the reading of files. Since you're using the Google Docs template, feel free to make fancy diagrams using Insert->Drawing (though this isn't required).

**\$ java Gitlet init**

- If it does not already exist, a new folder called .gitlet is created in the current directory.

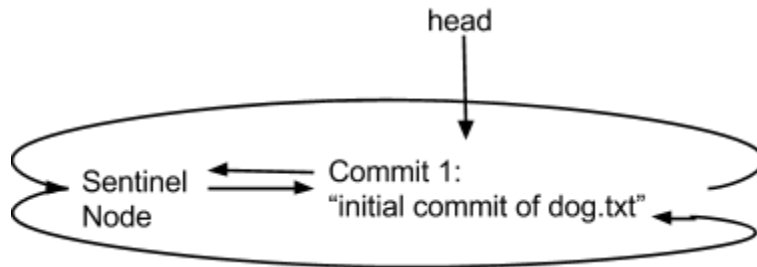


**\$ java Gitlet add dog.txt**

Stage dog.txt to the upcoming commit. Modification of the file up to add has been recorded.

**\$ java Gitlet commit "initial commit of dog.txt"**

Saves a snapshot of staged, inherited, and marked for removal for this commit. The only files that have been changed are the ones that have been added.



```
$ java Gitlet add dog.txt
```

Stage dog.txt to the upcoming commit. The current state of dog.txt has been recorded, regardless of whether or not the file has been changed.

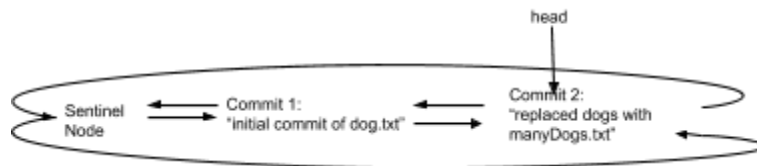
```
$ cp manyDogs.txt dog.txt
```

```
$ java Gitlet add dog.txt
```

Stage dog.txt to the upcoming commit. The current state of dog.txt has been recorded, where the contents of manyDogs.txt has been copied into dog.txt.

```
$ java Gitlet commit "replaced dog.txt with manyDogs"
```

Saves a snapshot of staged, inherited, and marked for removal for this commit. dogs.txt has been changed.



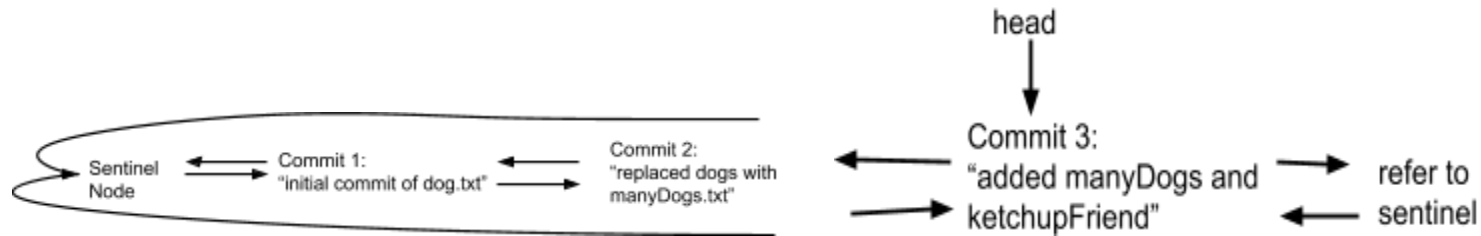
```
$ java Gitlet add manyDogs.txt
```

Stage manyDogs.txt to the upcoming commit. The current state of manyDogs.txt has been recorded.

```
$ java Gitlet add ketchupFriend.txt
```

Stage ketchupFriend.txt to the upcoming commit. The current state of ketchupFriend.txt has been recorded.

```
$ java Gitlet commit "added manyDogs and ketchupFriend"
```



```
$ java Gitlet commit YOLO
```

Since nothing has been staged or marked for removal, the program aborts.

```
$ cp doge.txt manyDogs.txt
```

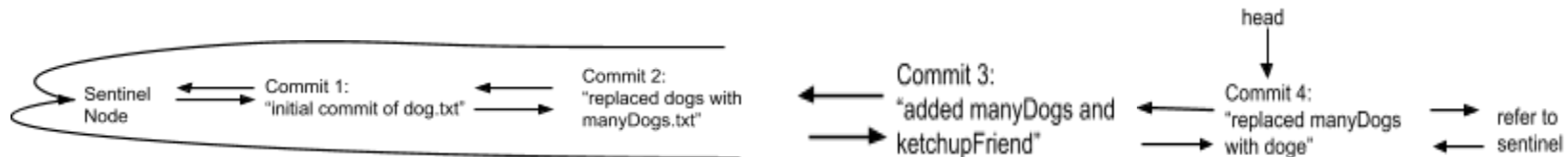
```
$ java Gitlet add manyDogs.txt
```

manyDogs.txt has been changed because the contents of doge.txt were copied into manyDogs.txt.

manyDogs.txt has been staged for the upcoming commit.

```
$ java Gitlet commit "replaced manyDogs with doge"
```

Saves a snapshot of staged, inherited, and marked for removal files for this commit. manyDogs.txt has been changed.



```
$ java Gitlet add dog.txt
```

Stage dog.txt for the upcoming commit, and its current state has been recorded.

```
$ java Gitlet commit "added dog yet again"
```

Saves a snapshot of staged, inherited, and marked for removal files for this commit. dog.txt may not have been changed.

