git: under the covers - demo notes

# Creating a repo

## Create folders/files

/refs/  
 /heads/

/tags/

/objects/  
/HEAD

echo “ref: refs/heads/master” > HEAD

## Test it works

git status

# Committing

git ls-files –stage

## Staging

1. Create new file
2. git add .
3. Index added: git ls-files –stage
4. Object added: git cat-file -p/-t [hash]

## Committing

1. git commit –message “hello world”
2. new: 2 new objects, refs/heads/master, logs

## Second commit

1. Edit file -> stage -> commit
2. /refs/heads/master points to new commit
3. New commit points to old commit(s)