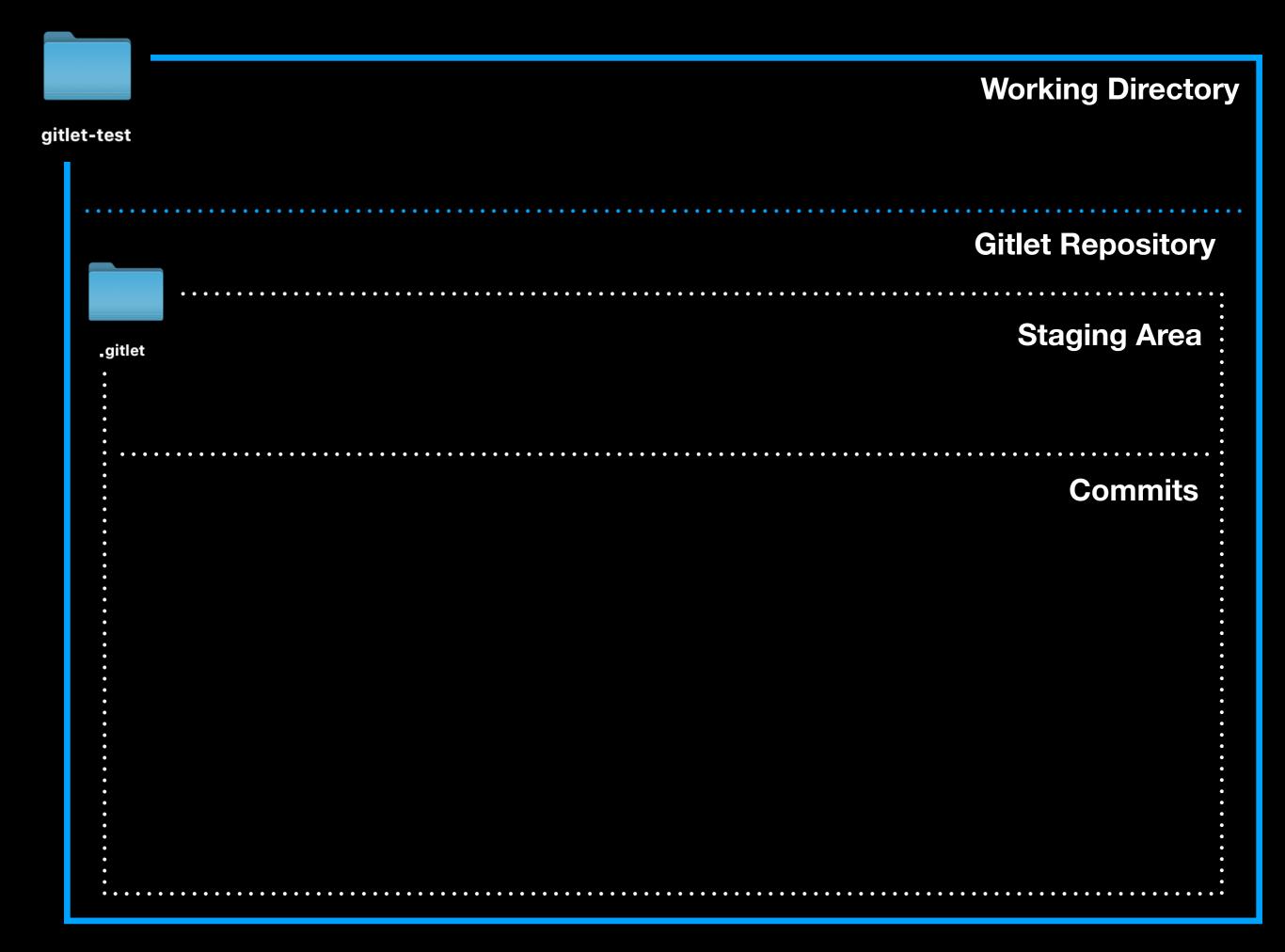
# Gitlet Introduction

## Some Advice

- Gitlet is the best
- Start early!
- Complete lab 12
- Read the spec

# Gitlet Introduction

java gitlet.Main init
 git init





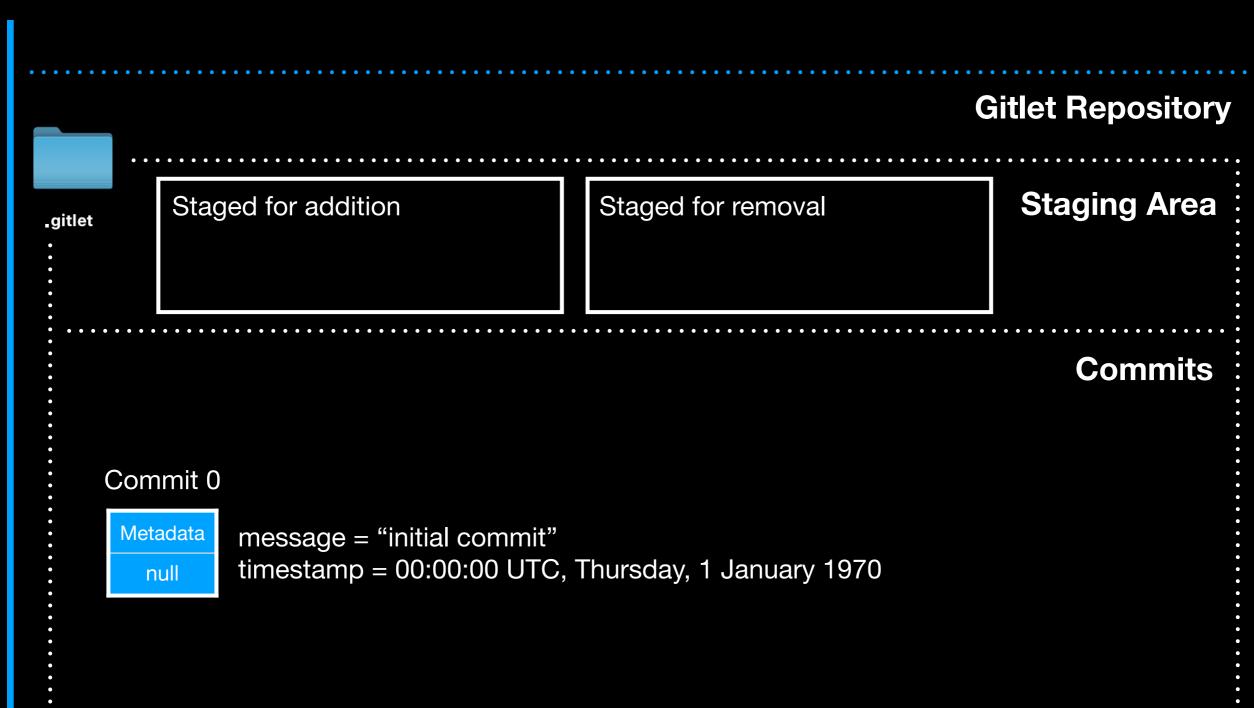
## **Working Directory**

		••••••	Gitlet Repository
gitlet	Staged for addition	Staged for removal	Staging Area
		••••••	Commits





## **Working Directory**



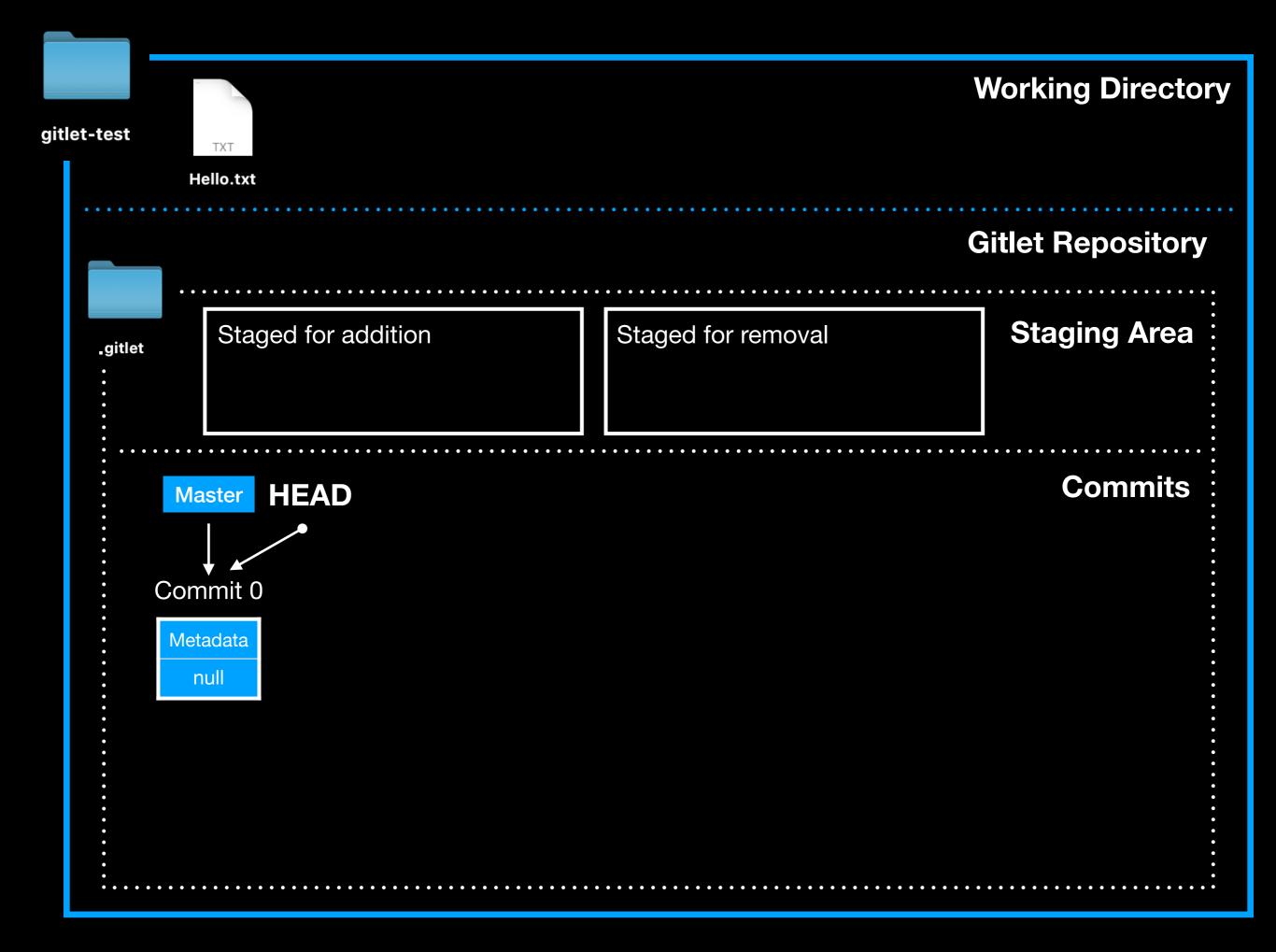




### **Working Directory**

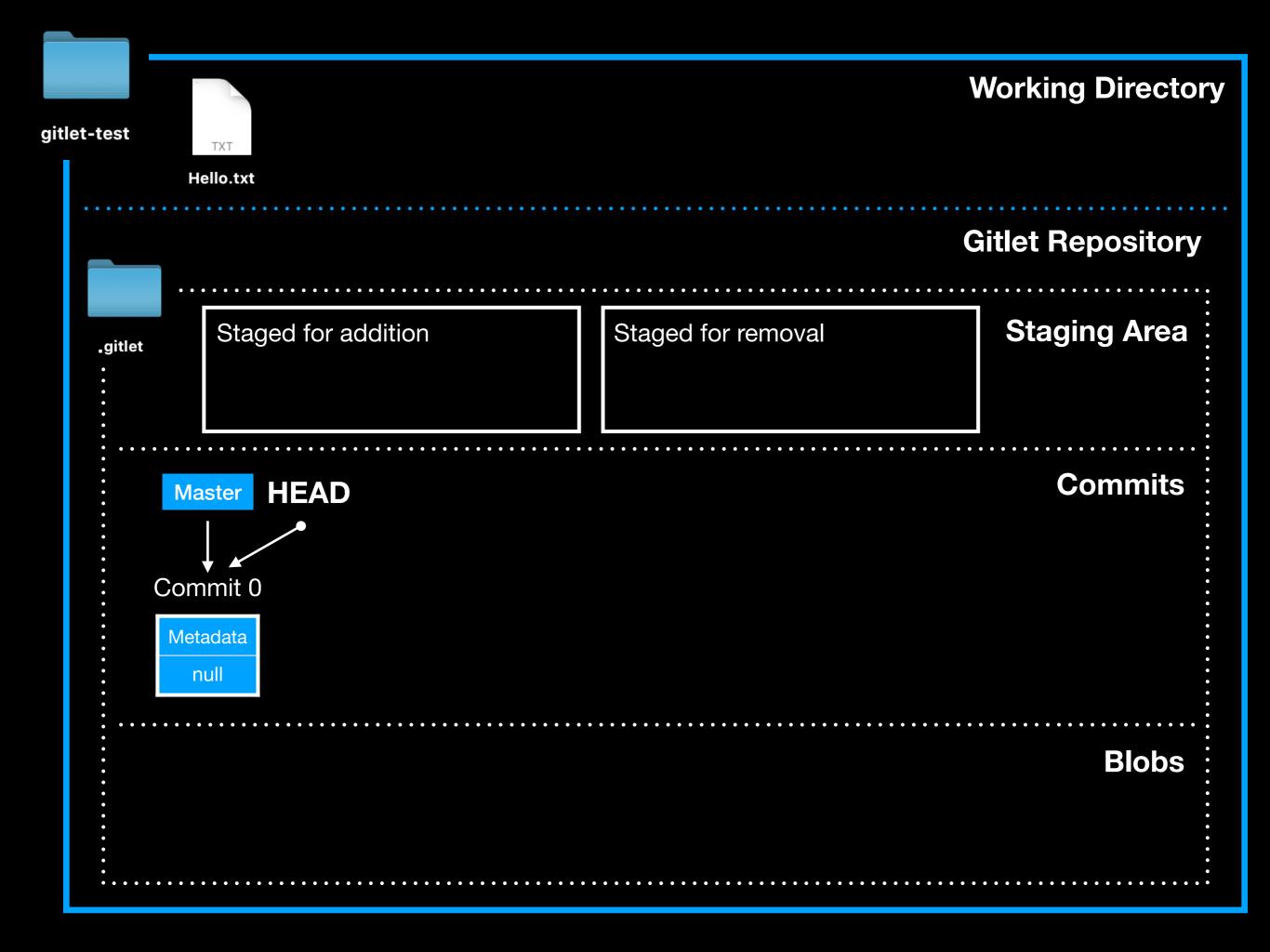


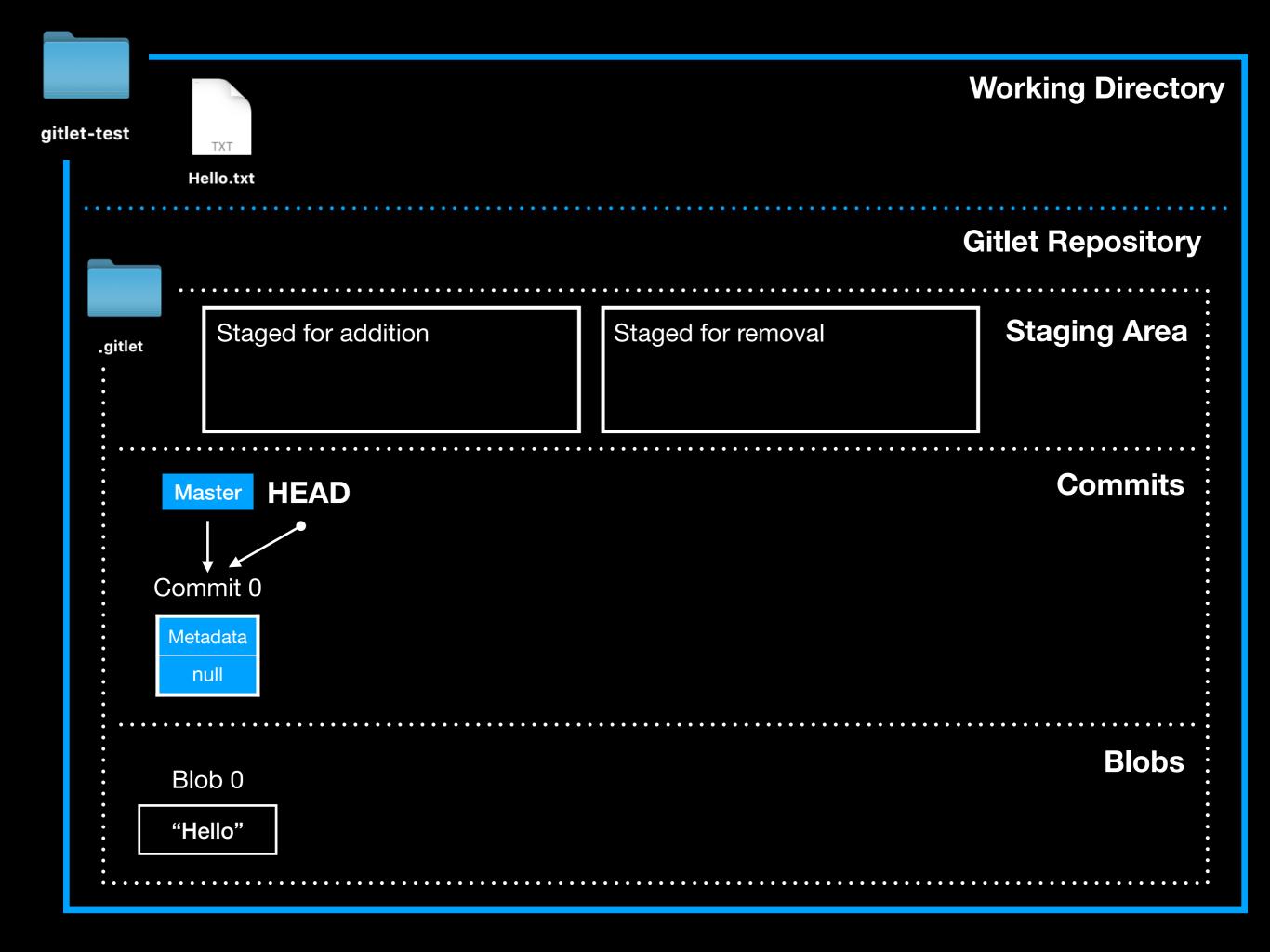
nano Hello.txt

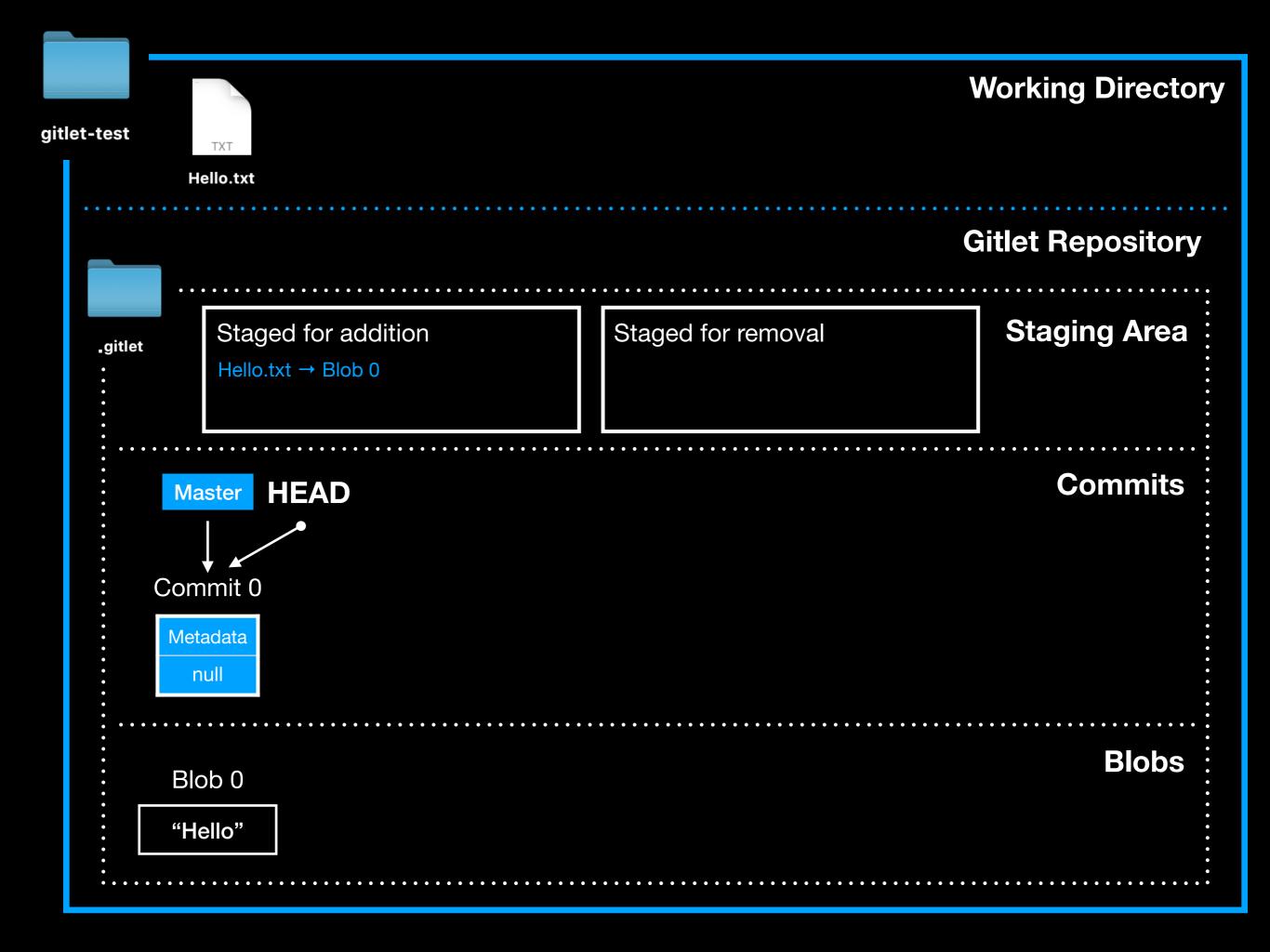


java gitlet.Main add Hello.txt

 git add Hello.txt

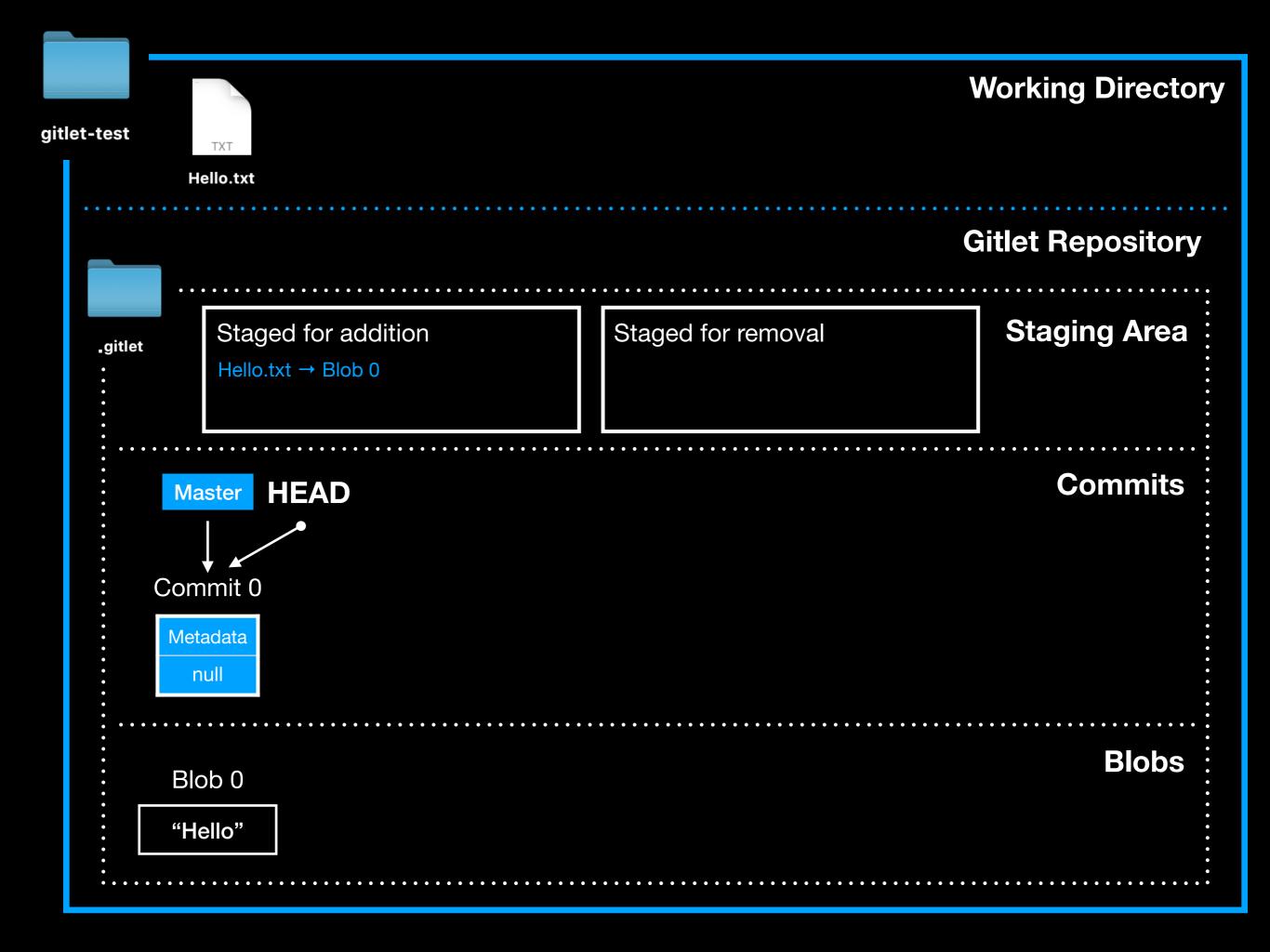


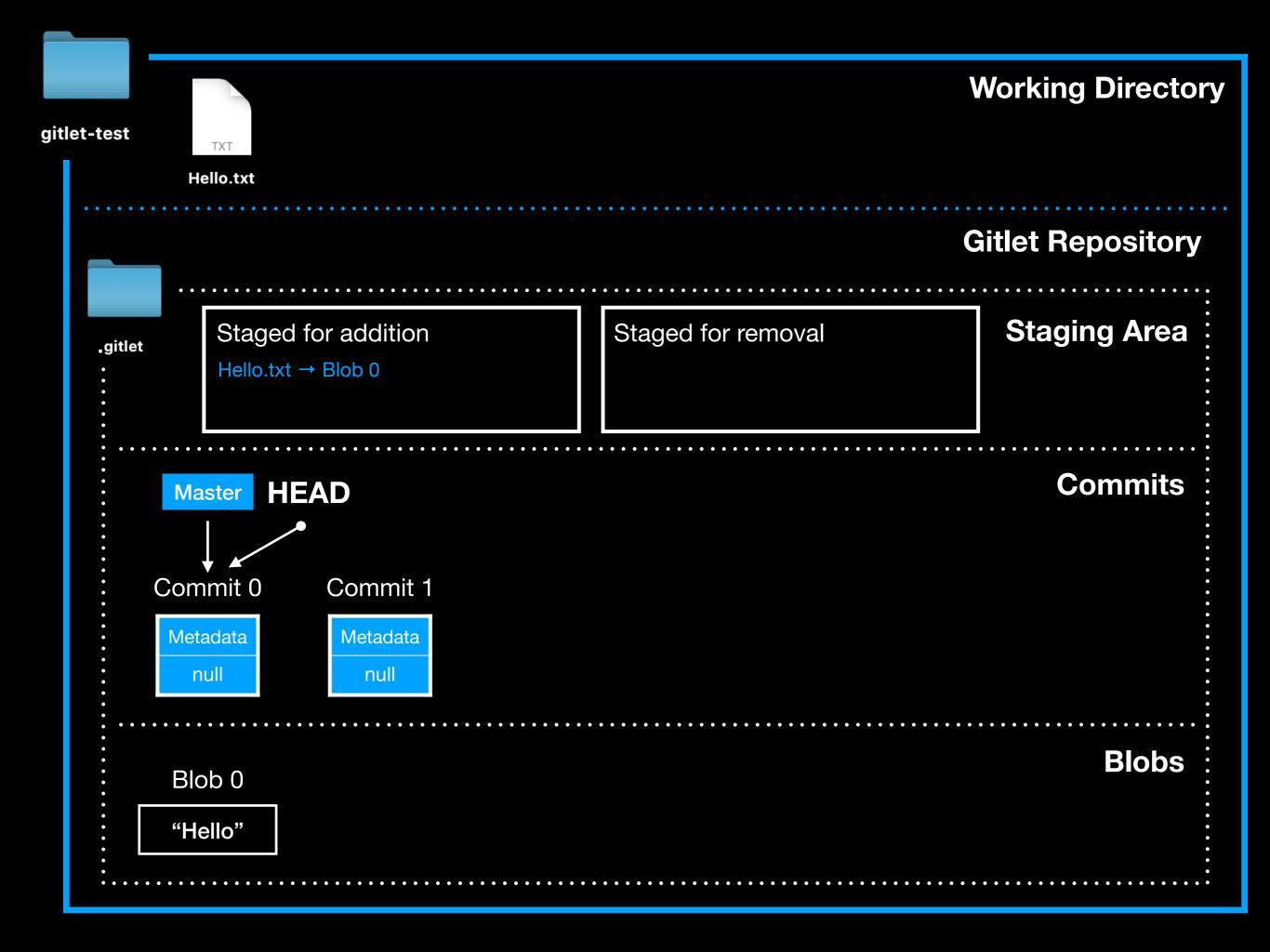


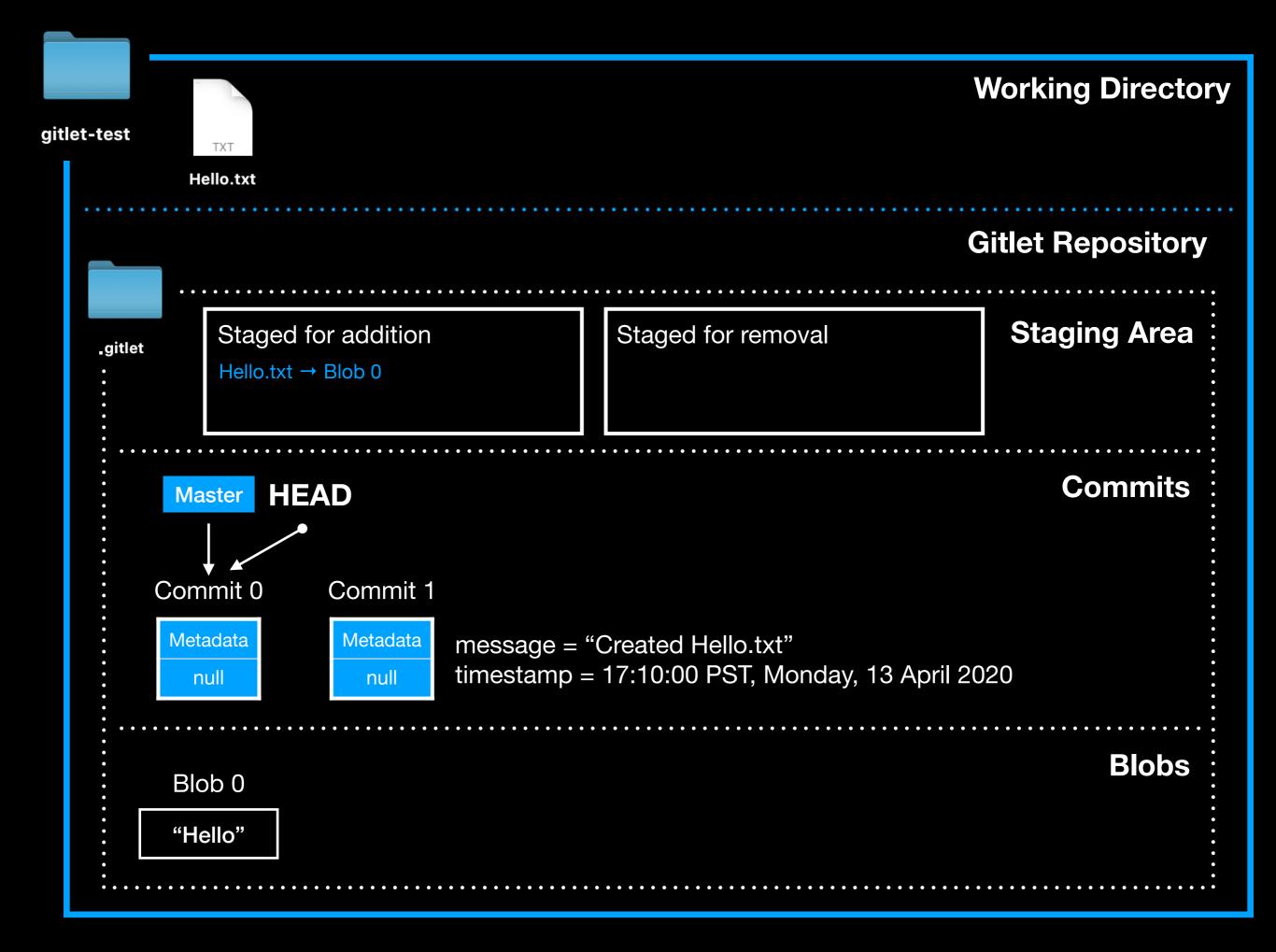


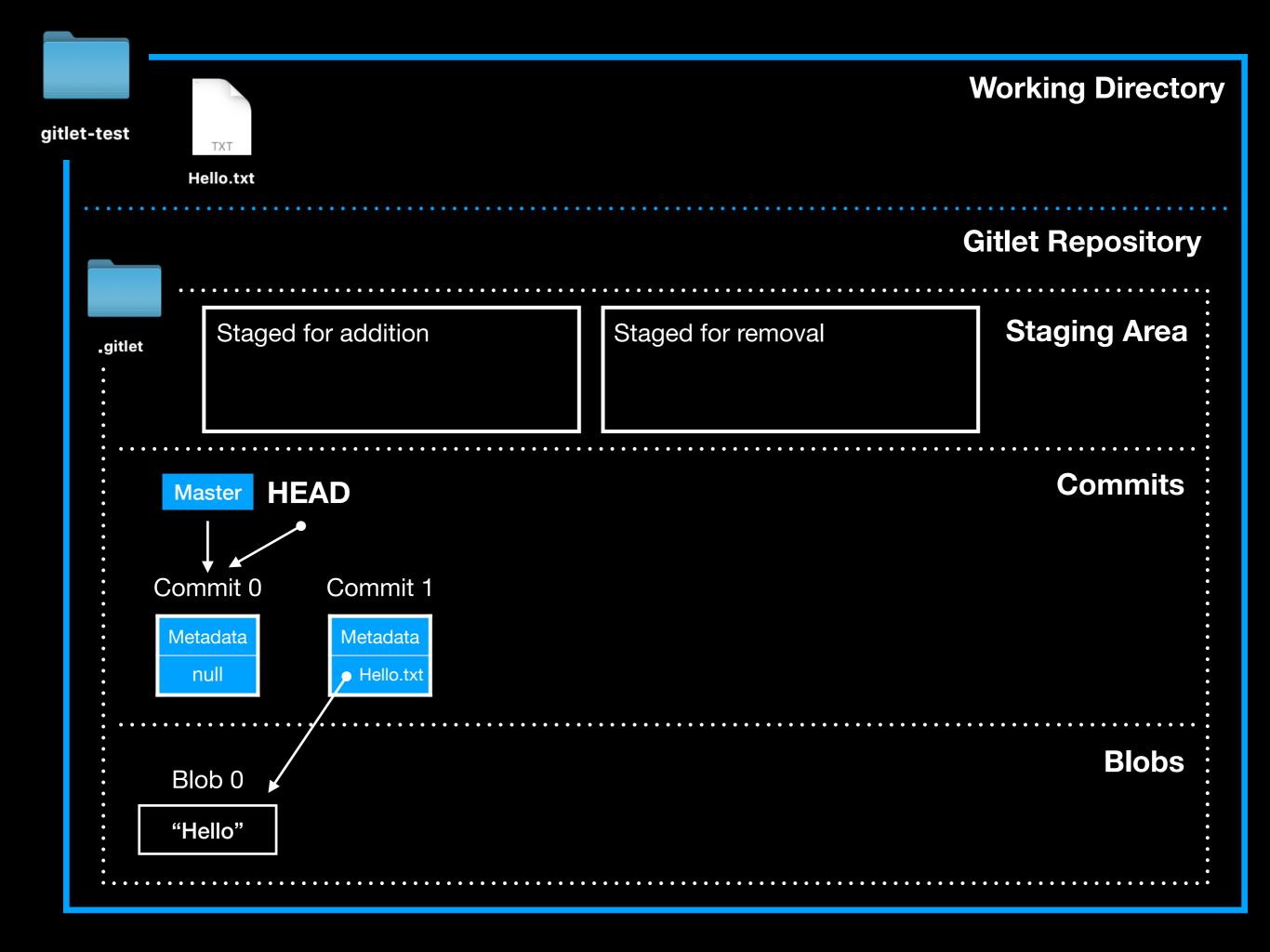
java gitlet.Main commit "Created Hello.txt"

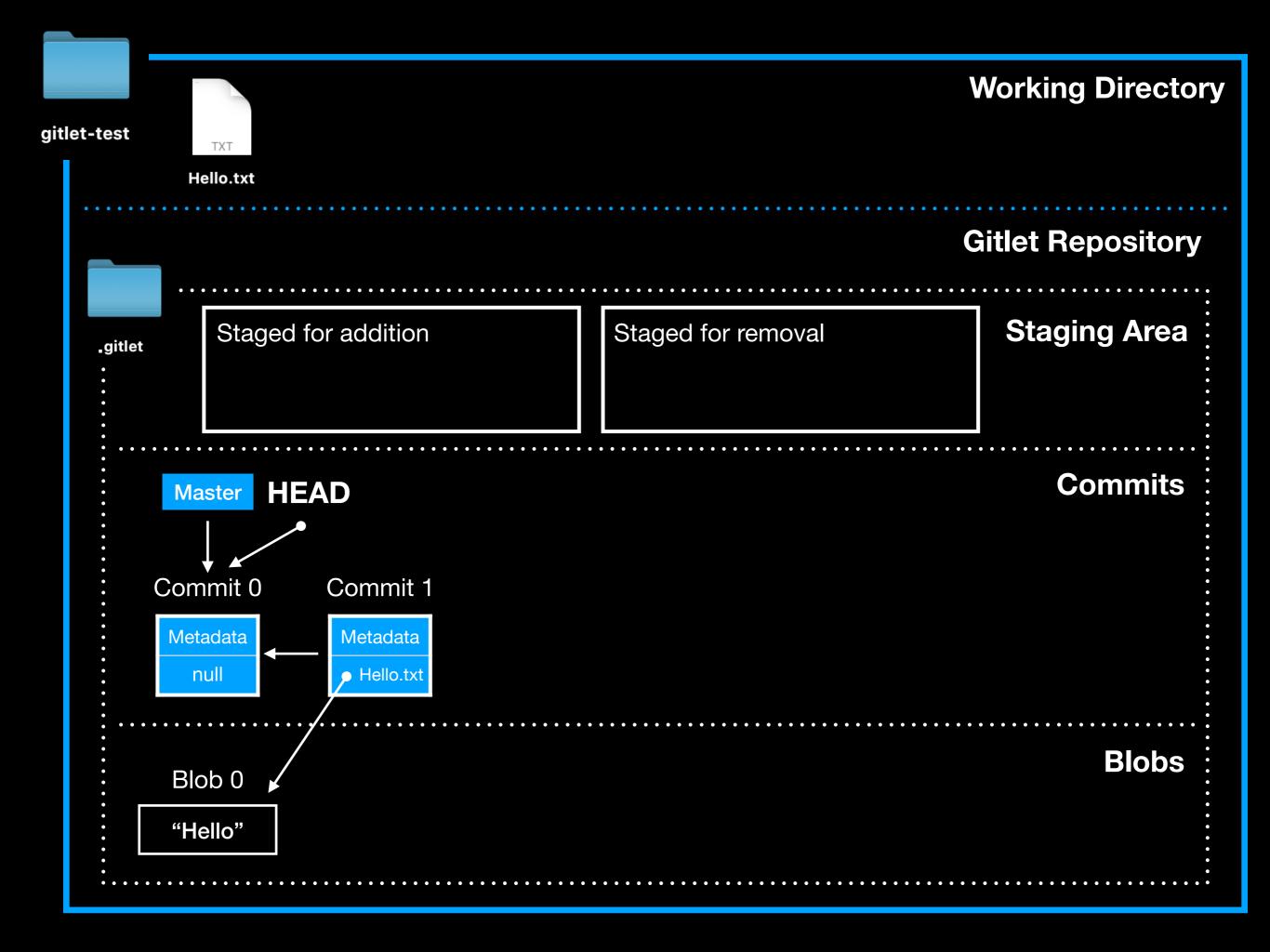
git commit -m "Created Hello.txt"

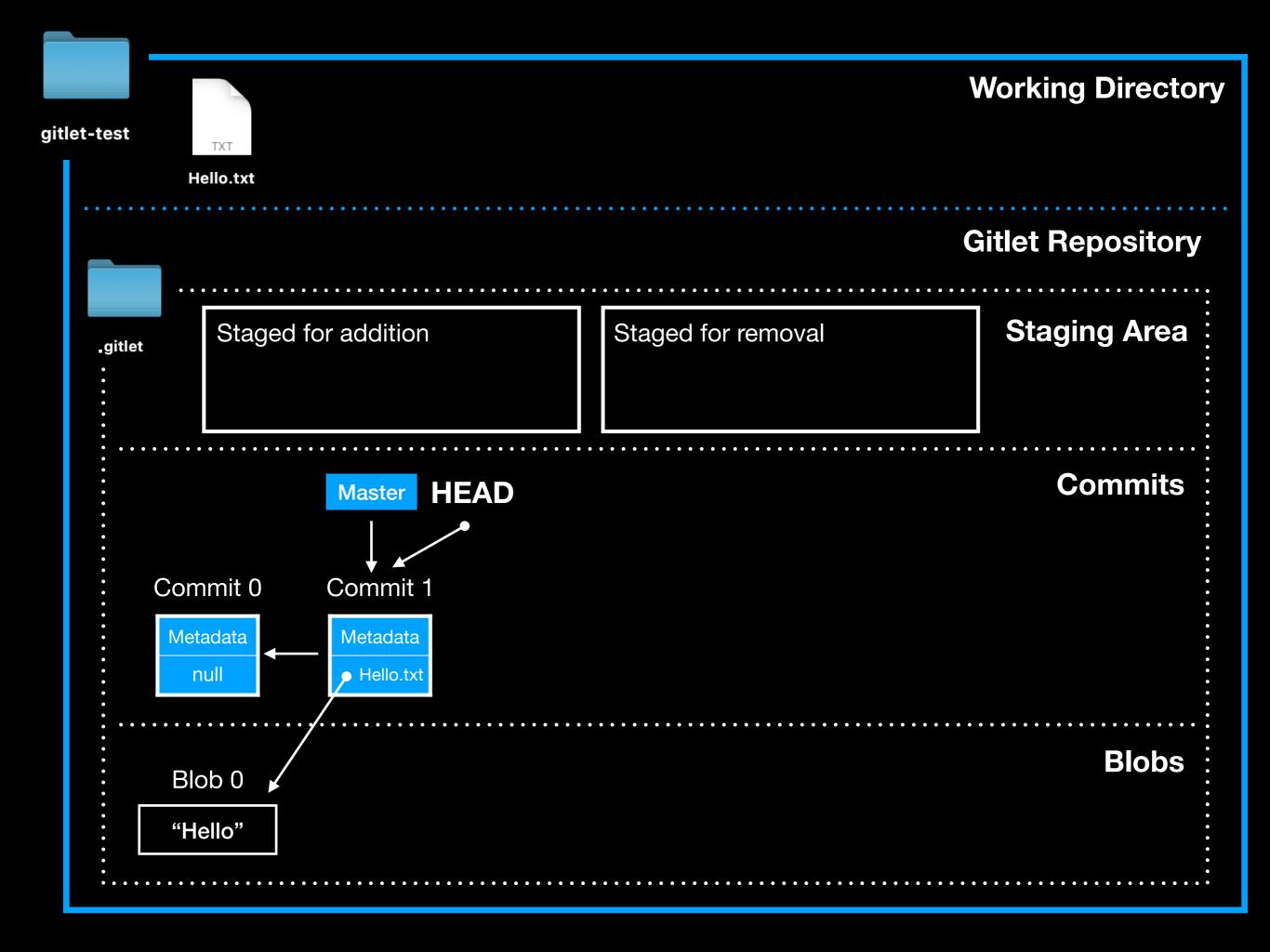








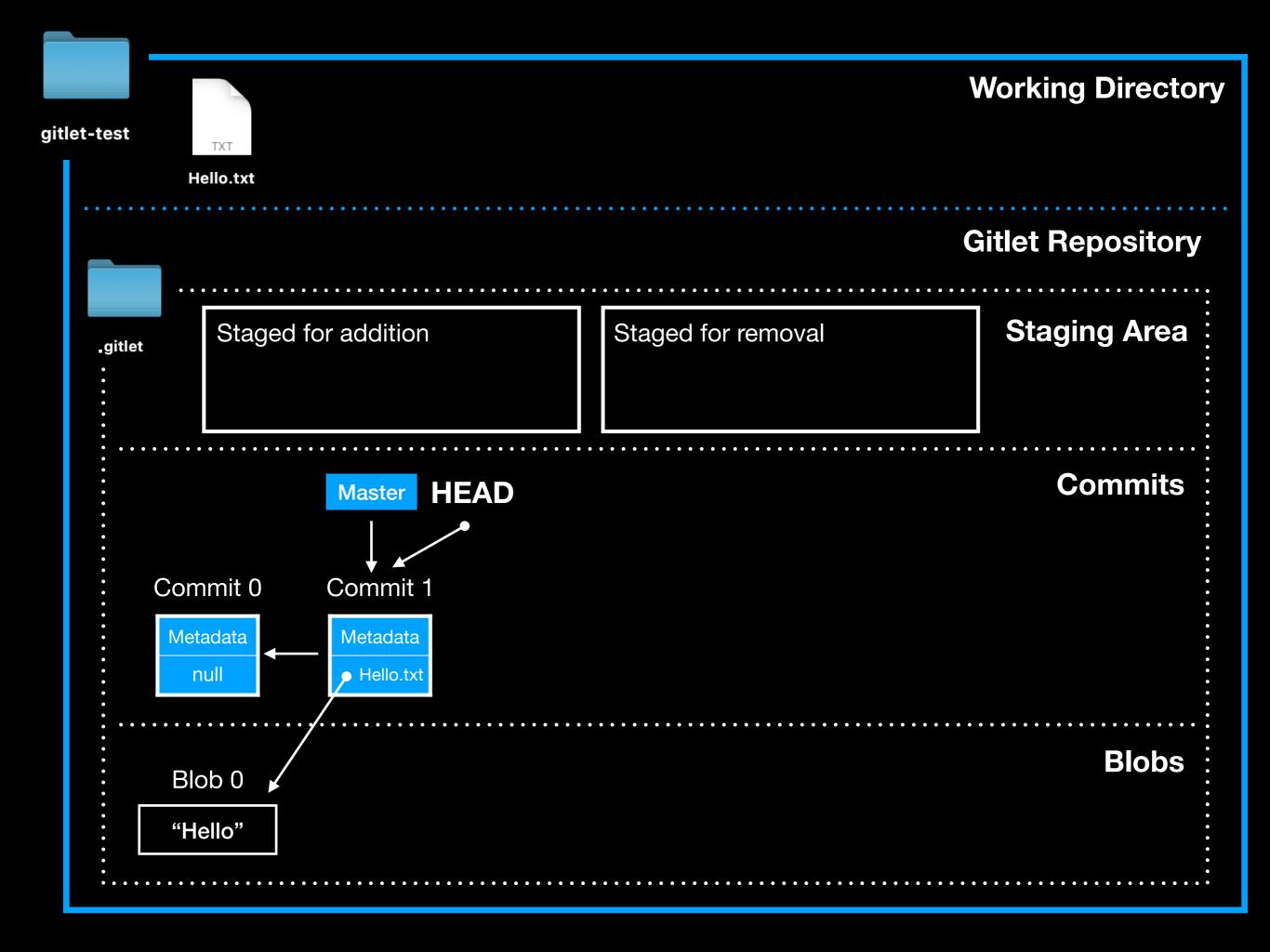


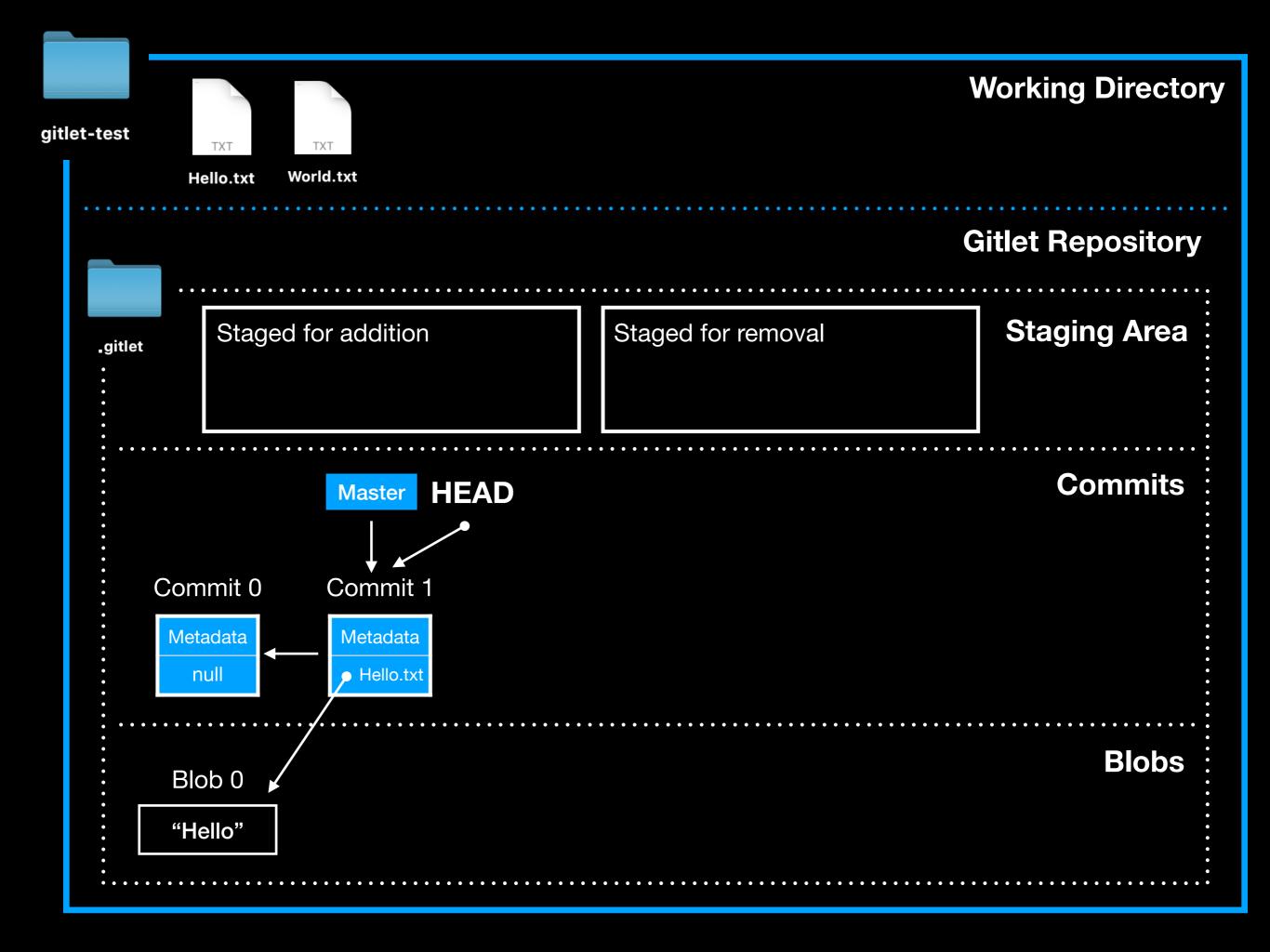


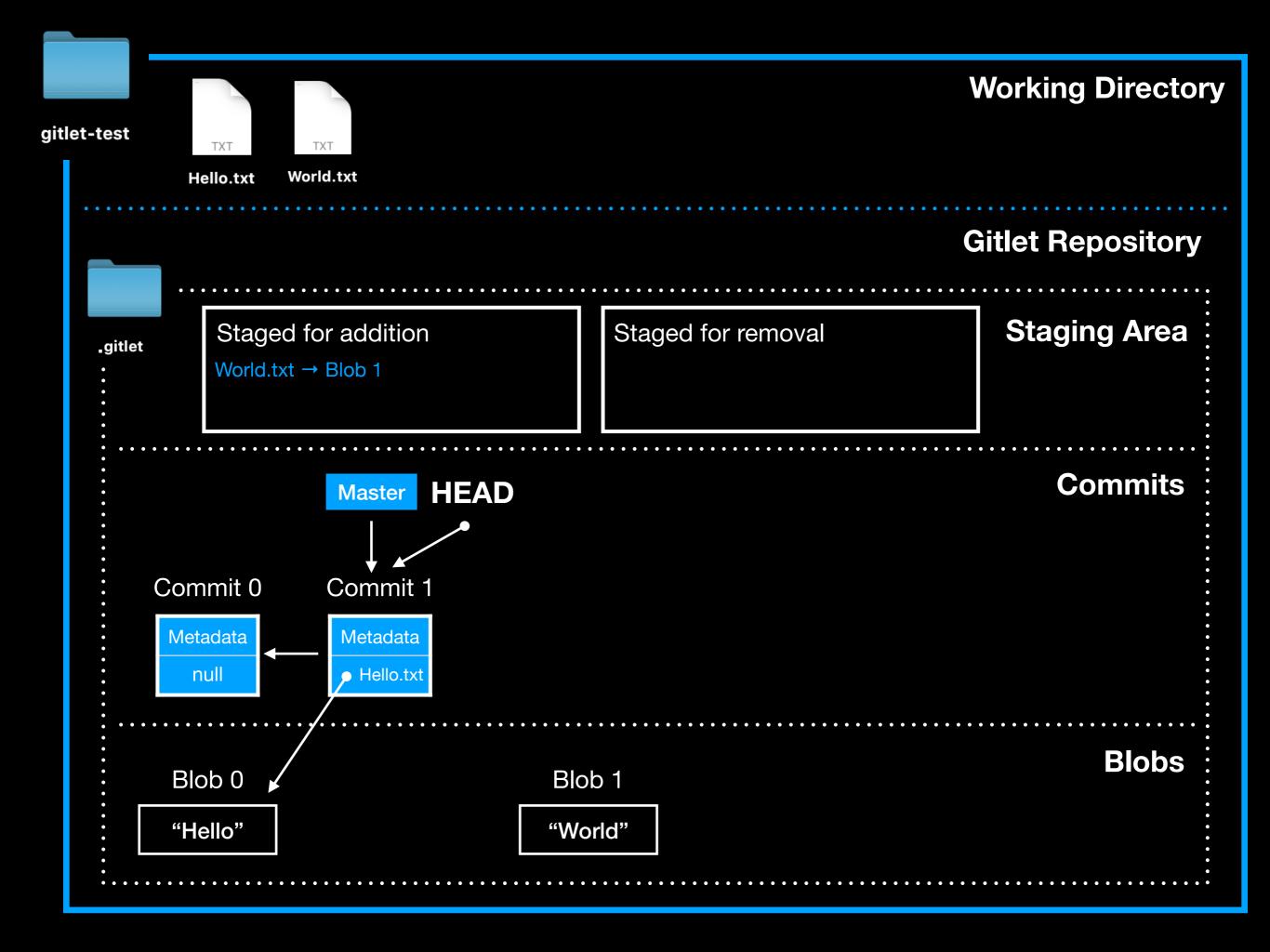
#### nano World.txt

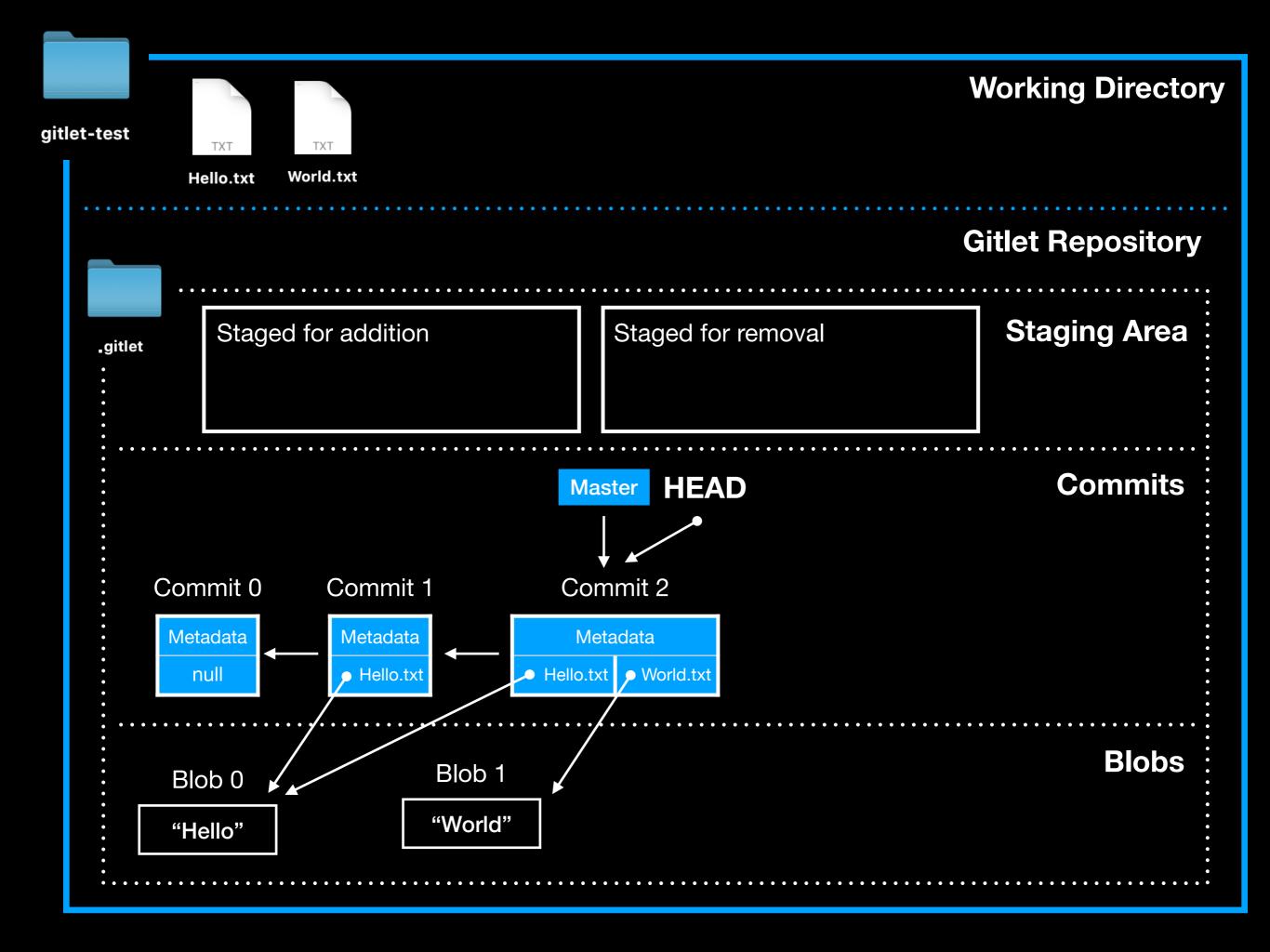
java gitlet.Main add World.txt

java gitlet.Main add Hello.txt







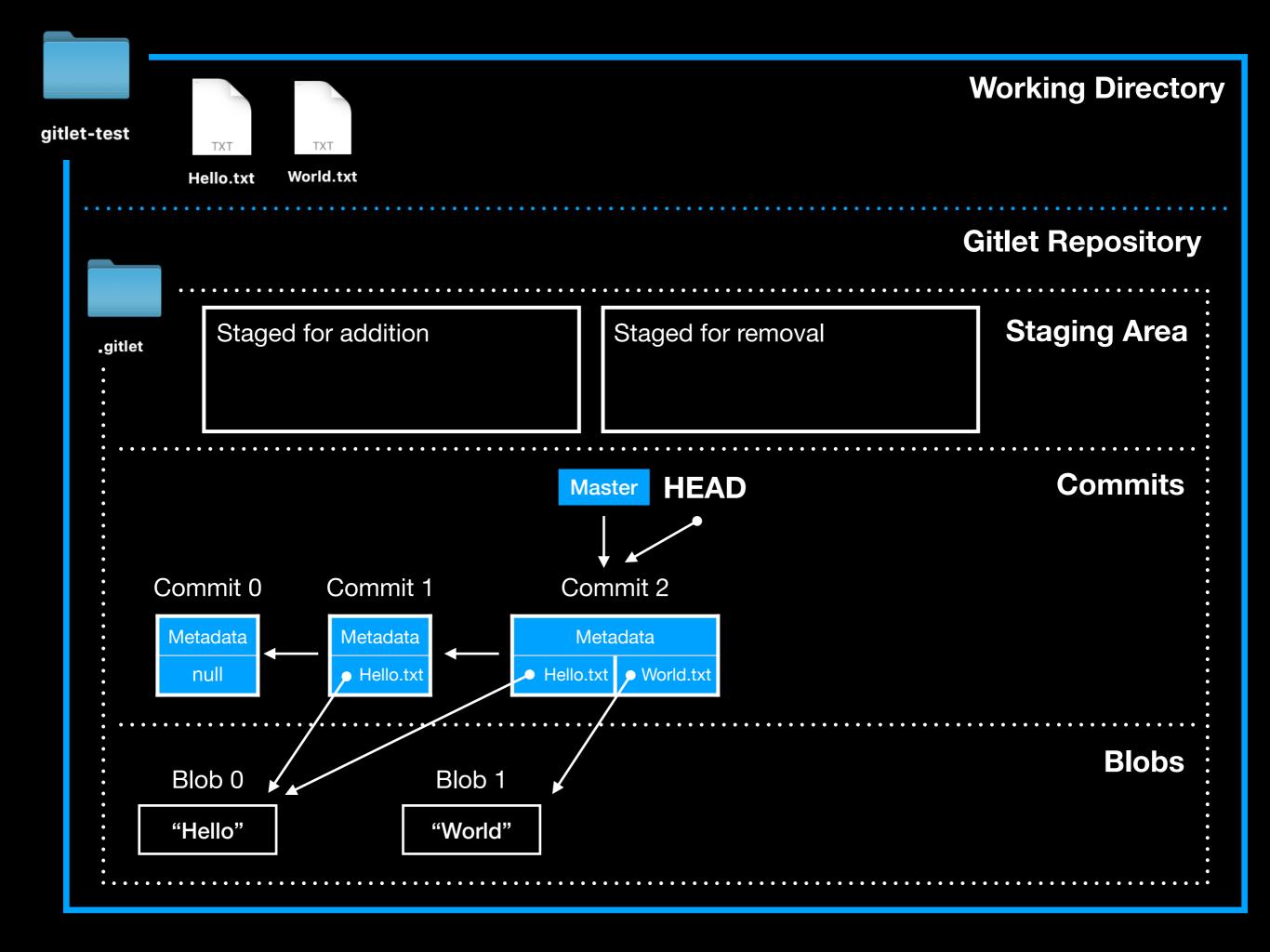


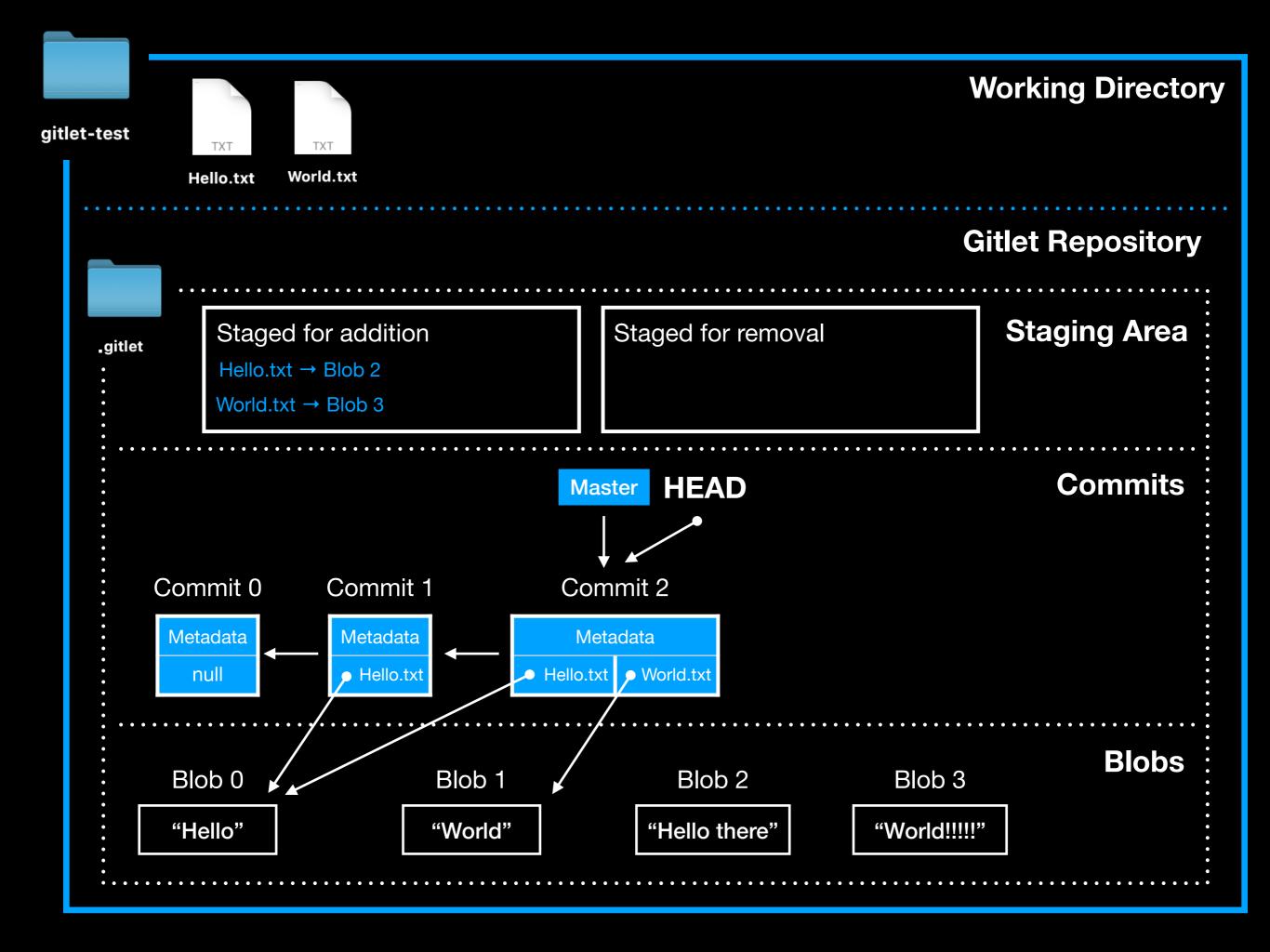
nano Hello.txt

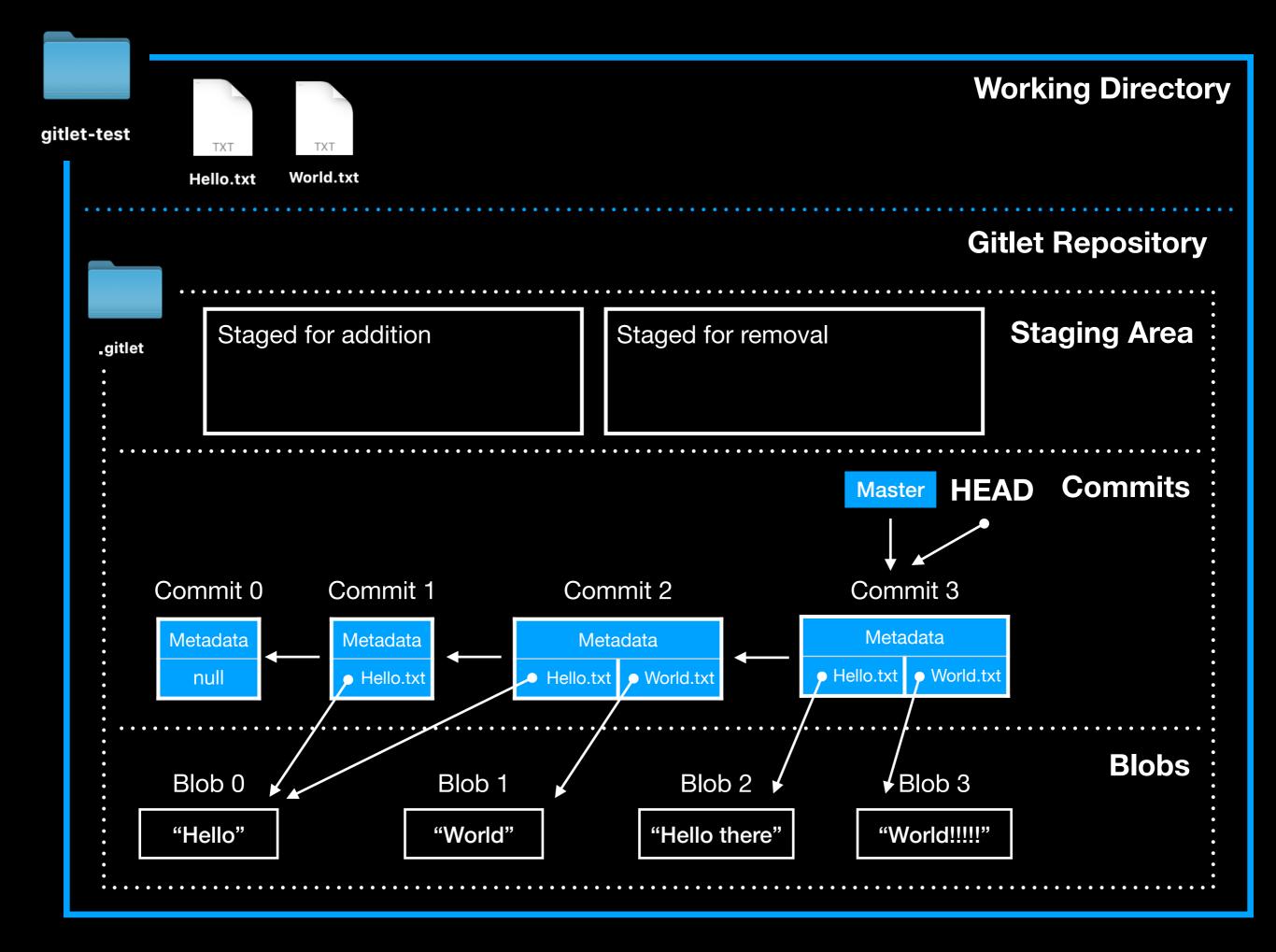
nano World.txt

java gitlet.Main add World.txt

java gitlet.Main add Hello.txt







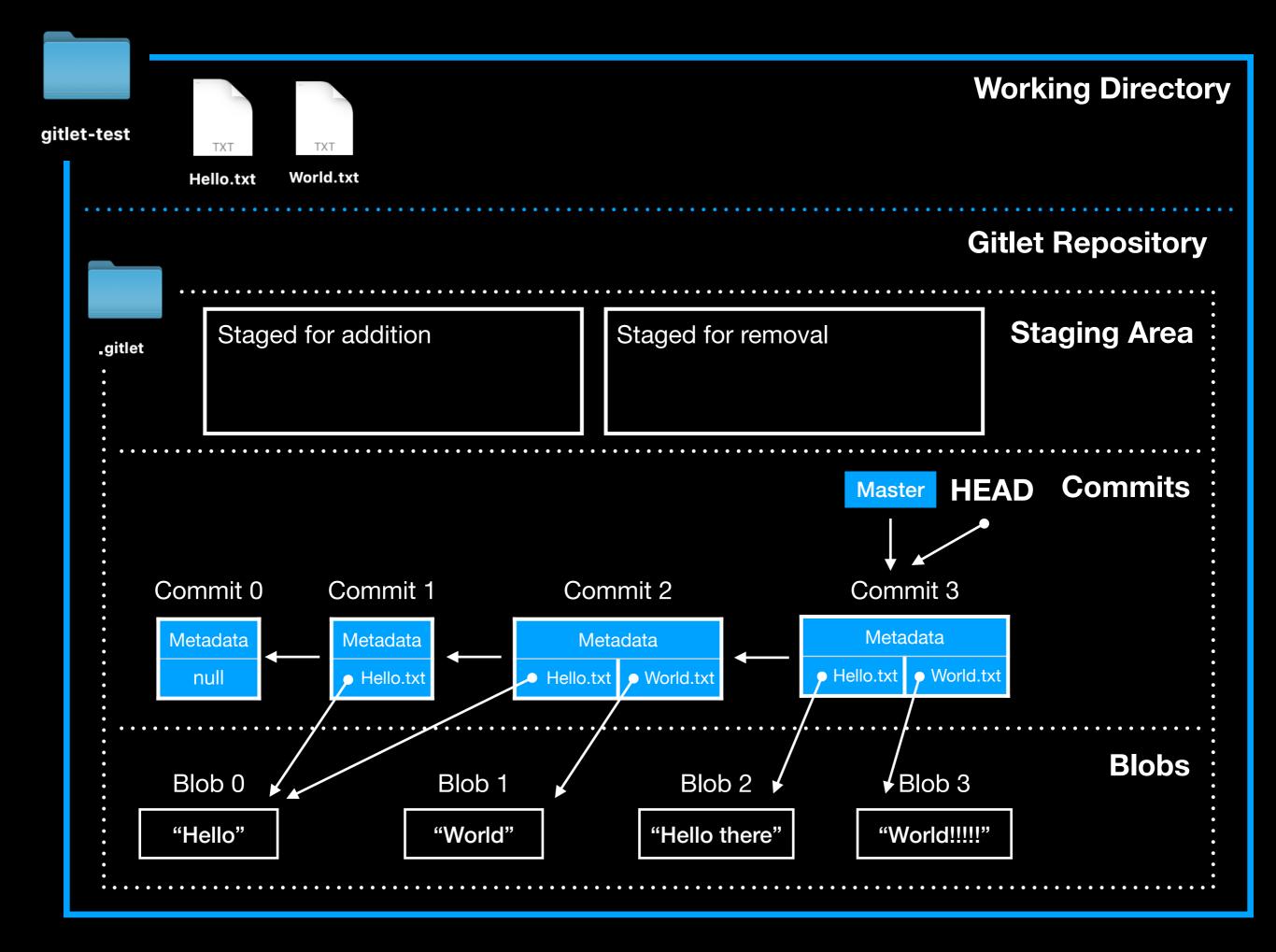
java gitlet.Main init java gitlet.Main log

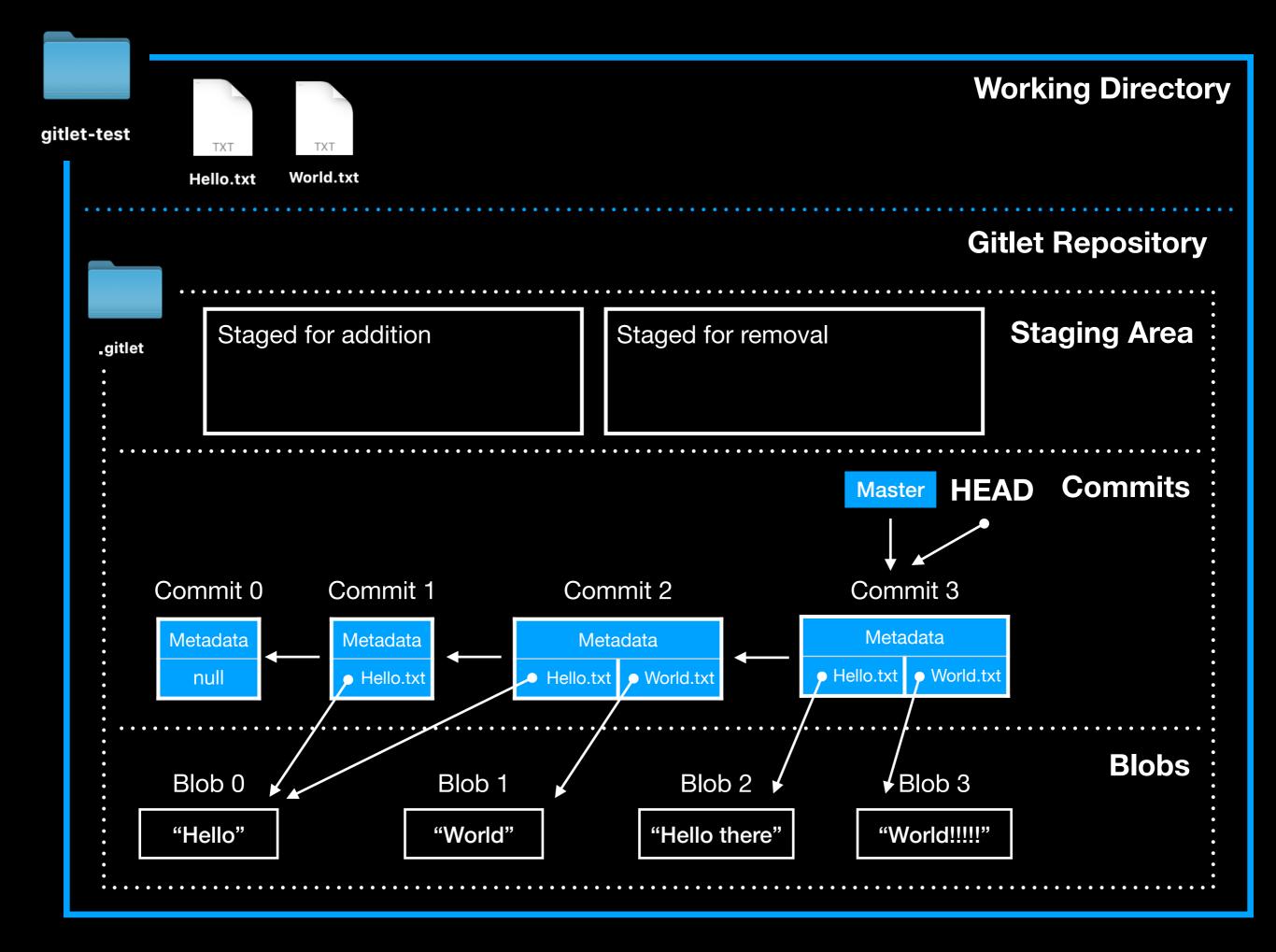
//Read from.gitlet all the files you need to run

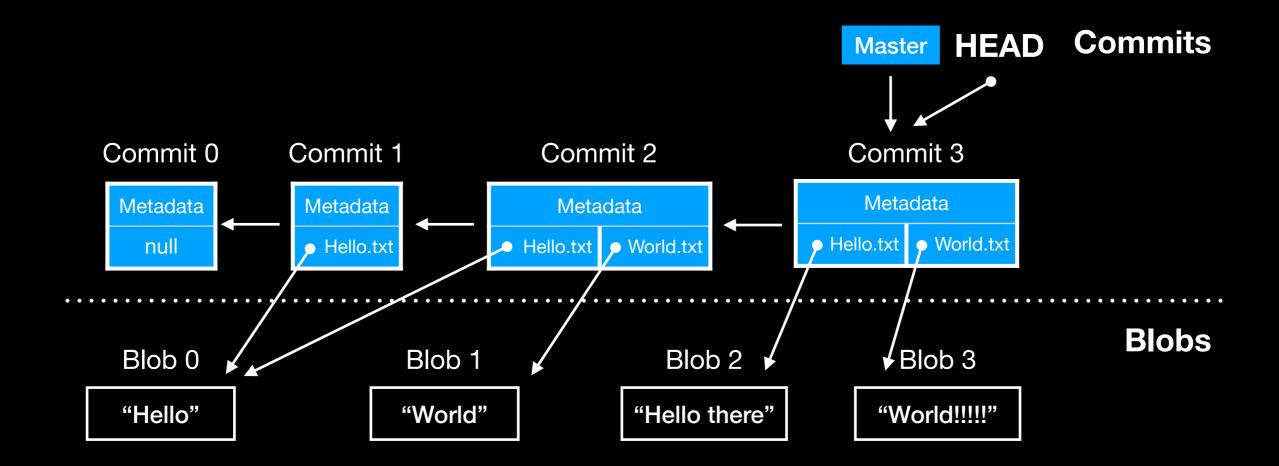
\*\*\*\*

//Write onto disk (.gitlet folder) all the new objects you created / modified

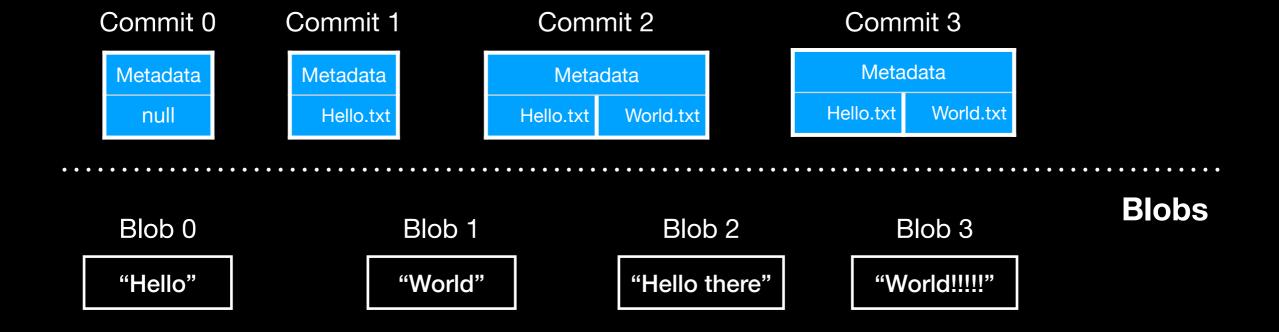
# Diving Into the Technical Details







### Master HEAD Commits





Commit 0

Commit 1

Commit 2

Commit 3

Metadata null

O Metadata
Hello.txt
Blob 0

Metadata

Hello.txt World.txt

Blob 0 Blob 1

Metadata

Hello.txt World.txt

Blob 2 Blob 3

Blob 0

"Hello"

Blob 1

Blob 2

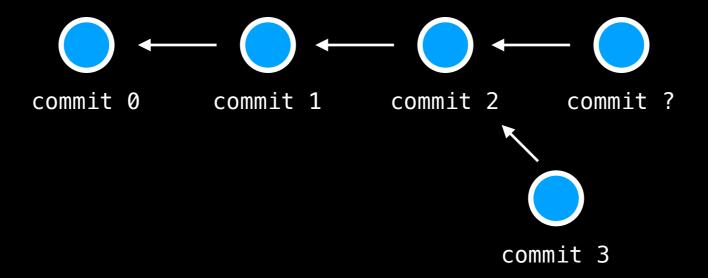
Blob 3

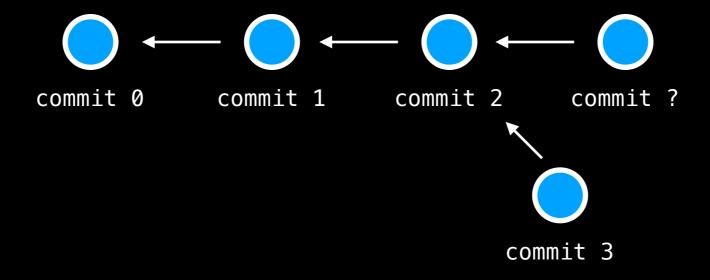
"World!!!!!"

**Blobs** 

"World"

"Hello there"





SHA1() = 8e95382d558549303e6



f3af0eb43

Metadata

null

9639c673b

Metadata
Hello.txt
a699ba6

71b40c70

73b	Metadata	
39c6	Hello.txt	World.txt
963	a699ba6	9639c673b

5e6194cbf

0/2	Metadata	
p400	Hello.txt	World.txt
11	0e93cac	0e84daf

**Blobs** 

a699ba6

"Hello"

9639c673b

"World"

0e93cac

"Hello there"

0e84daf

"World!!!!!"



f3af0eb43

Metadata null 9639c673b

43	Metadata
f0eb	Hello.txt
f3a	a699ba6

71b40c70

73b	Metadata	
9068	Hello.txt	World.txt
963	a699ba6	9639c673b

5e6194cbf

070	Meta	data
p400	Hello.txt	World.txt
71	0e93cac	0e84daf

a699ba6
001001010
byte[]

9639c673b 111001010 byte[] 0e93cac 111011010 byte[] 0e84daf 1110011111 byte[] **Blobs**