git clone https://github.com/user/repo.git

git basics

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Getting git repository

Listing 1: Creating new repository

```
git init git-presentation-repo
```

Listing 2: Clone remote repository

```
git clone https://github.com/user/repo.git
```

Initialized repository

What we did:

- Folder git-presentation-repo
- Subfolder .git with basic content
- Branch master

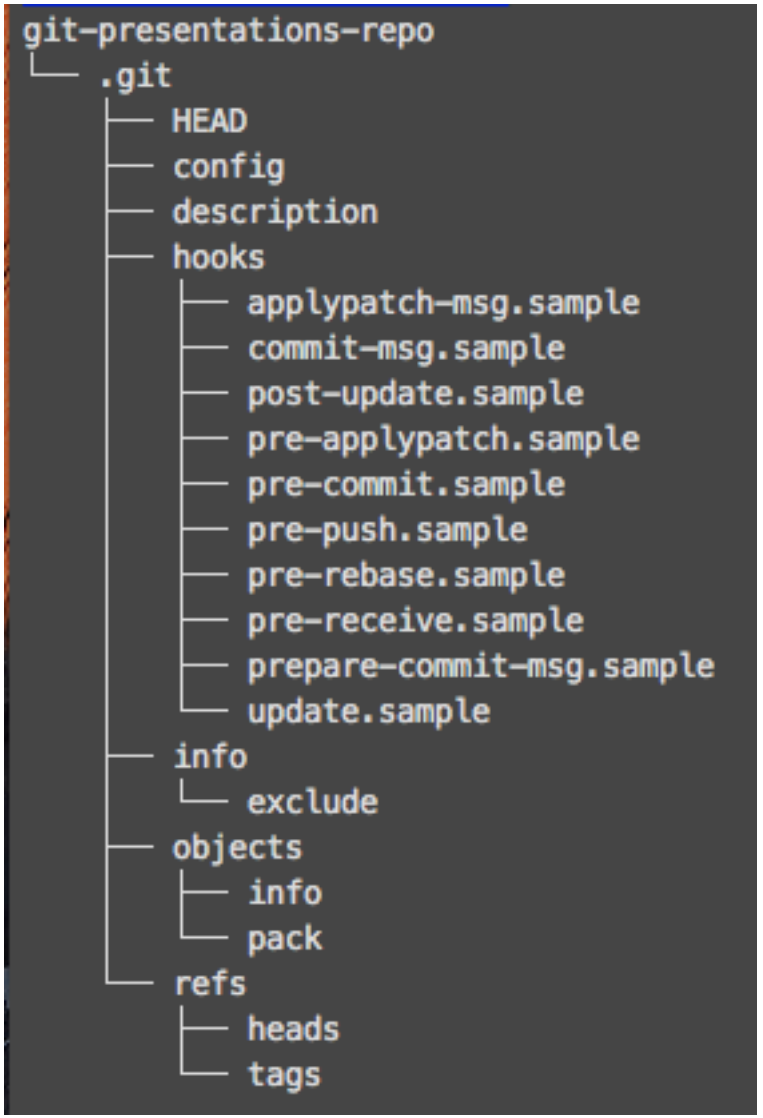
What we did not do:

- Not created tracked files or commits
- Not added remote repository

Verify:

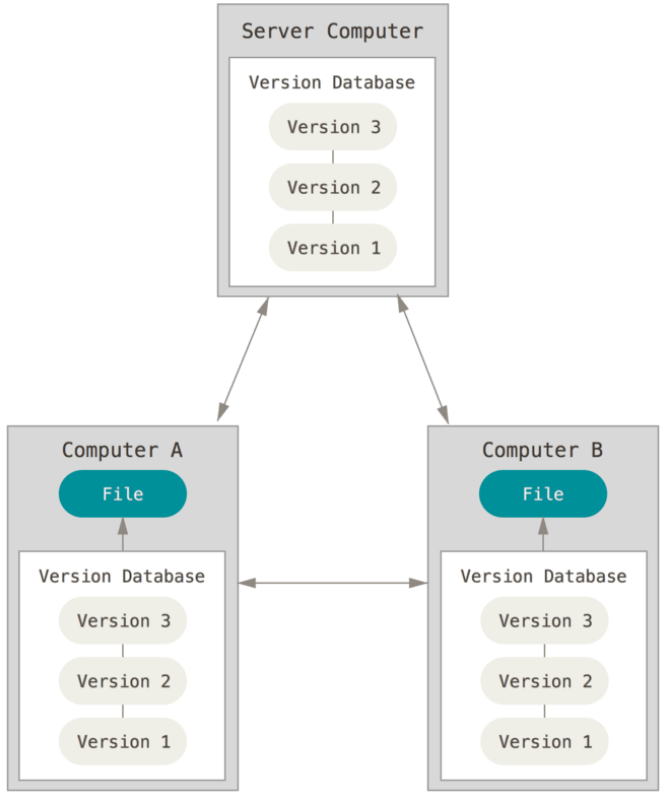
Listing 3: List all folders and files

```
find .
```



Version Control System (VCS)

- Distributed version control
- Each client has its copy of history
- Database can be altered offline



Adding remote

Listing 4: Add remote

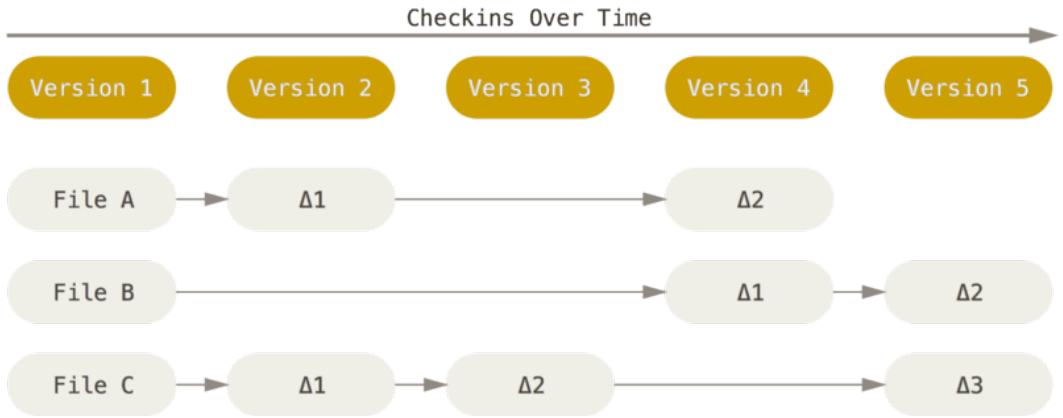
```
git remote add name\
https://github.com/user/repo.git
```

Listing 5: Add remote called origin

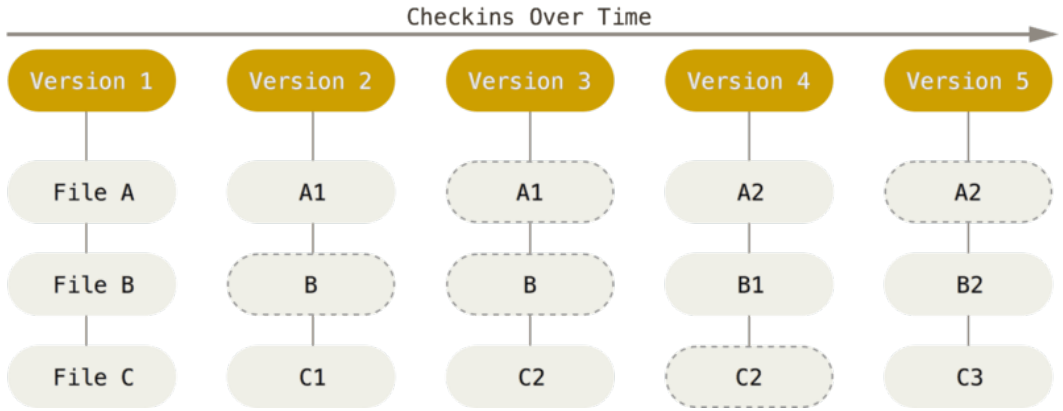
```
git remote add origin\
https://github.com/user/repo.git
```

Deltas or snapshot

- Exposed as deltas



- Internally stored as snapshots

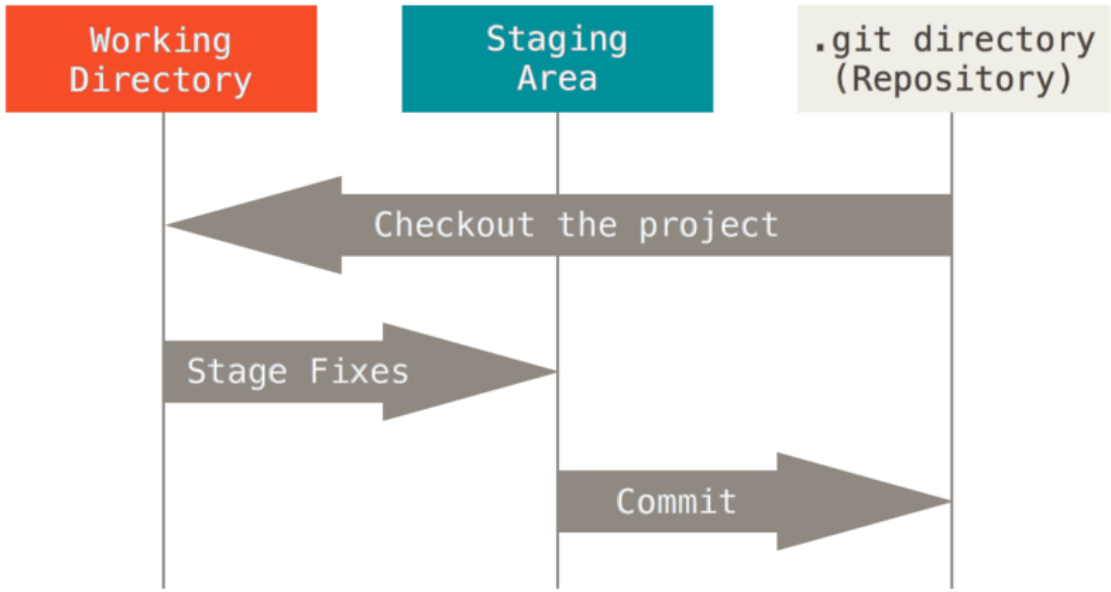


The Three States

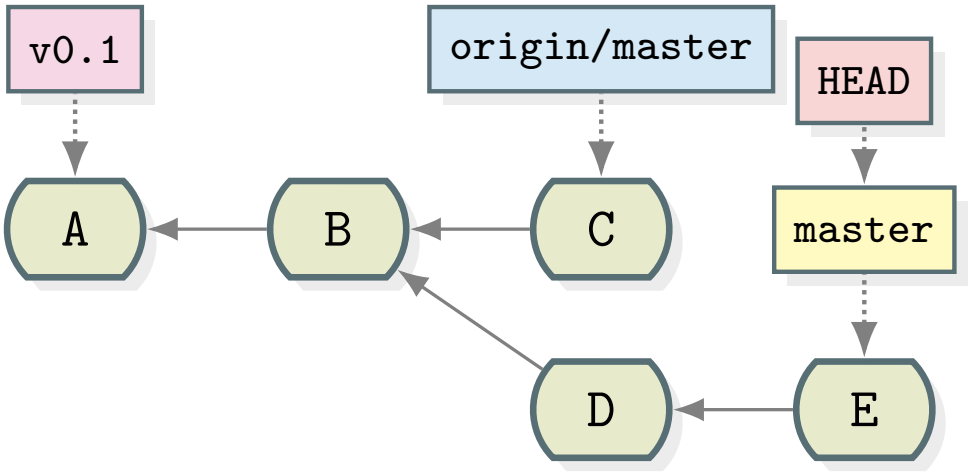
Working directory Current changes to the filesystem

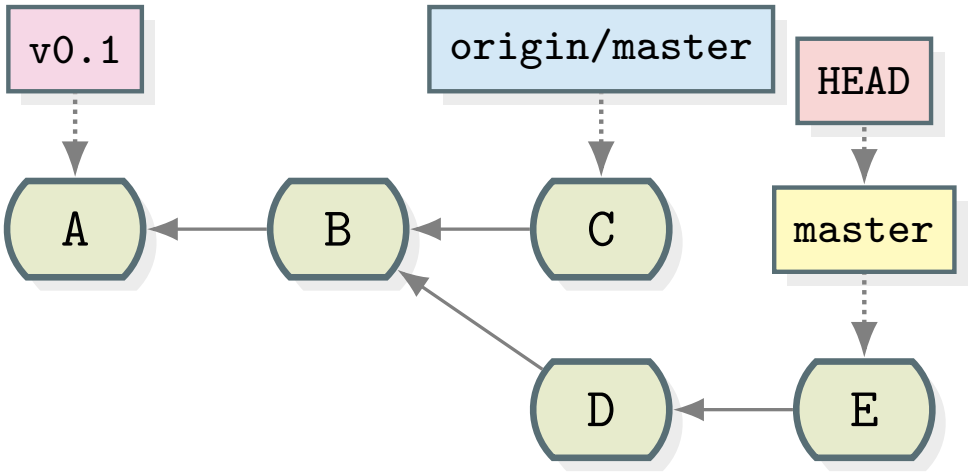
Staging area Changes marked for commit

Commited Internally stored as snapshots



```
diff --git a/git-basics.tex b/git-basics.tex
index 2969036..92232d6 100644
--- a/git-basics.tex
+++ b/git-basics.tex
@@ -7,6 +7,23 @@
 \usetheme{netvor}
 \usepackage{color}
 \usepackage{gitdags}
+\usepackage{listings}
+
+% Settings
+\lstset{basicstyle=\ttfamily,
+  showstringspaces=false,
+  commentstyle=\color{red},
+  keywordstyle=\color{blue}
+}
+
+\lstdefinelanguage{diff}{
```


v0.1
origin/master
HEAD
A
B
C
master
D
E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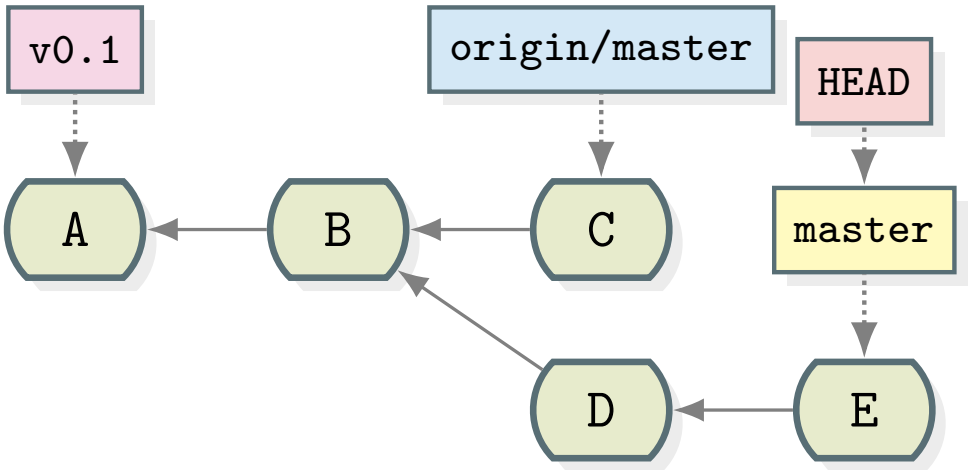
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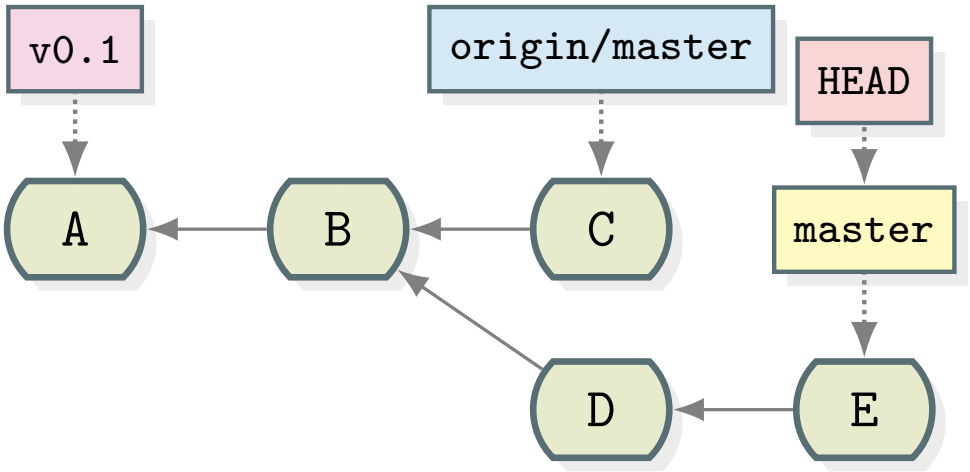
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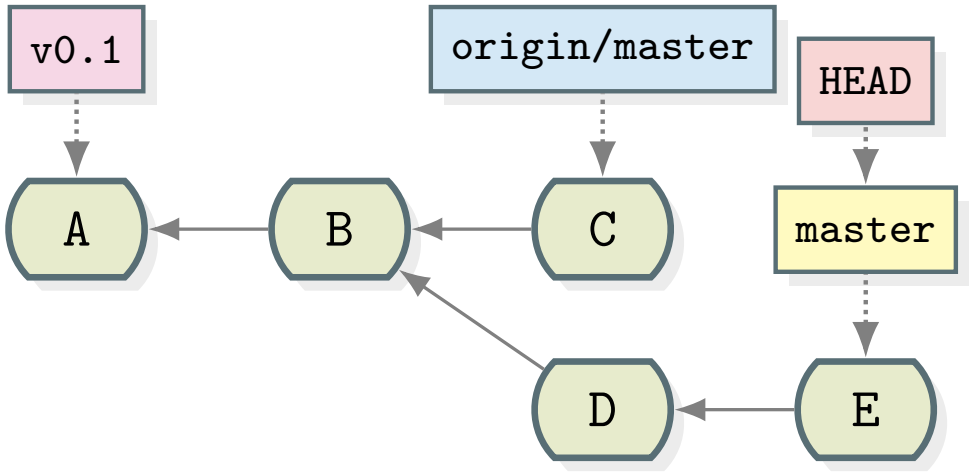
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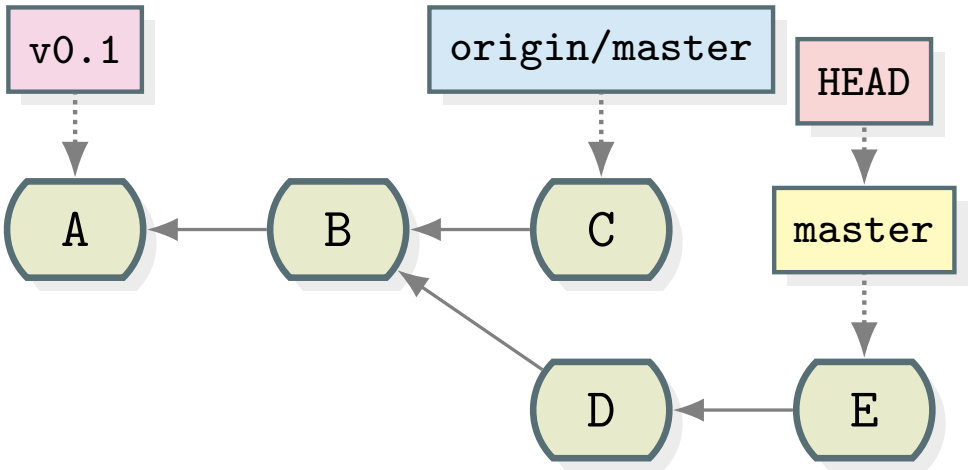
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