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

Michal Štembera git basics January 26, 2018 1 / 10

git basics

Michal Štembera

January 26, 2018



Table of contents

- What is git
 - Subsection no.1.1
- 2 Section no. 2
 - Lists I
- Section no. 2
 - Lists I
- Section no. 2
 - Lists I

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:

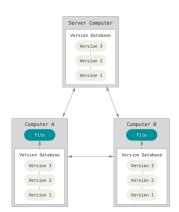
Listing 3: List all folders and files

```
find
```

```
git-presentations-repo
        HEAD
        config
        description
        hooks
            applypatch-msq.sample
           commit-msq.sample
            post-update.sample
            pre-applypatch.sample
            pre-commit.sample
            pre-push.sample
           pre-rebase.sample
           pre-receive.sample
            prepare-commit-msq.sample
            update.sample
        info
         — exclude
        objects
           info
           pack
            heads
            tags
```

Version Control System (VCS)

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



Michal Štembera git basics January 26, 201

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

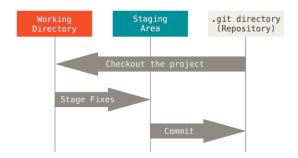




Michal Štembera git basics January 26, 2018 7 / 10

The Three States

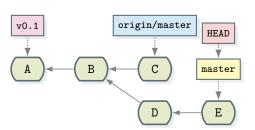
Working directory Current changes to the filesystem Staging area Changes marked for commit Committed Internally stored as snapshots



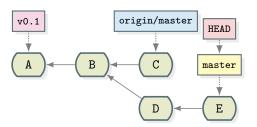
Michal Štembera git basics

```
diff --git a/git-basics.tex b/git-basics.tex
index 2969036..92232d6 100644
--- a/git-basics.tex
+++ b/git-basics.tex
00 -7,6 +7,23 00
 \usetheme{netvor}
 \usepackage{color}
 \usepackage{gitdags}
+\usepackage{listings}
+
+% Settings
+\lstset{basicstyle=\ttfamily,
   showstringspaces=false,
   commentstyle=\color{red},
   keywordstyle=\color{blue}
+ }
+\lstdefinelanguage{diff}{
```

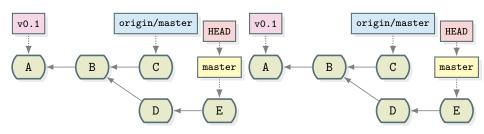
Michal Štembera git basics January 26, 2018 9 /

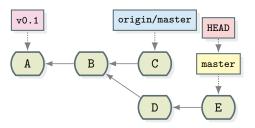


Michal Štembera git basics January 26, 2018 10 / 10



Michal Štembera git basics January 26, 2018 10 / 10





Michal Štembera git basics January 26, 2018 10 / 10