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

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git basics

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May 26, 2018



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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/stemberamichal/Perfect

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:

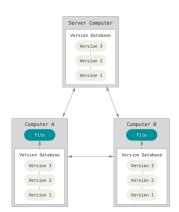
Listing 3: List all folders and files

```
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



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Adding remote

Listing 4: Add remote called origin

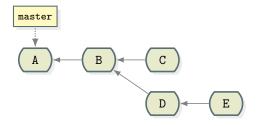
```
git remote add origin\
  https://github.com/stemberamichal/Perfect
```

Listing 5: Add another remote

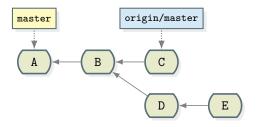
```
git remote add perfect\
  https://github.com/PerfectlySoft/Perfect
```

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Fetch repositories

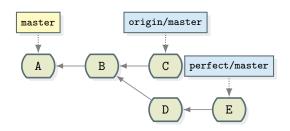


git fetch origin



git fetch origin

git fetch perfect



git fetch origin

git fetch perfect

git fetch --all



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Deltas or snapshot

Exposed as deltas

 Internally stored as snapshots

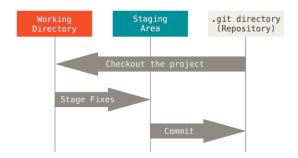




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The Three States

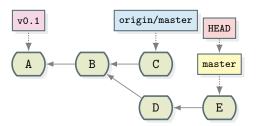
Working directory Current changes to the filesystem Staging area Changes marked for commit Committed Internally stored as snapshots



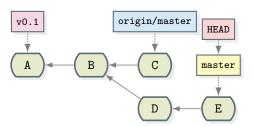
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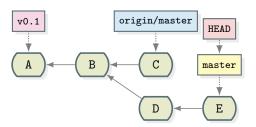
```
diff --git a/git-basics.tex b/git-basics.tex
index 2969036..92232d6 100644
--- a/git-basics.tex
+++ b/git-basics.tex
00 -7,6 +7,23 00
 \usetheme{netvor}
 \usepackage{color}
 \usepackage{gitdags}
+\usepackage{listings}
+
+% Settings
+\lstset{basicstyle=\ttfamily,
   showstringspaces=false,
   commentstyle=\color{red},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

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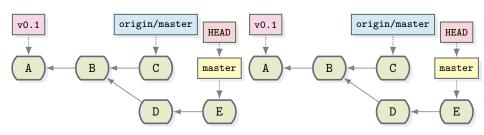


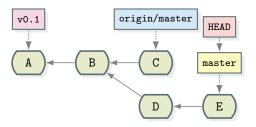
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