

GIT WORKSHOP

A PRACTICAL INTRODUCTION

MORTEN EMMANUEL SCHIØLER

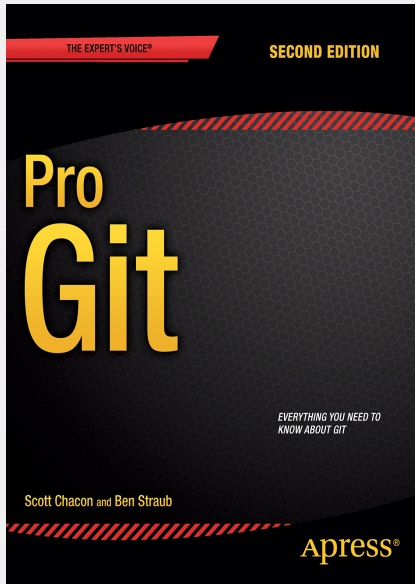
DEVELOPER COMMUNITY
DELOITTE CONSULTING

SEPTEMBER 2018



git

--distributed-is-the-new-centralized



Available as free ebook
<https://git-scm.com/book/en/v2>

- 1 Centralized vs. distributed version control
- 2 Deltas vs. snapshots
- 3 Commands
- 4 Template examples

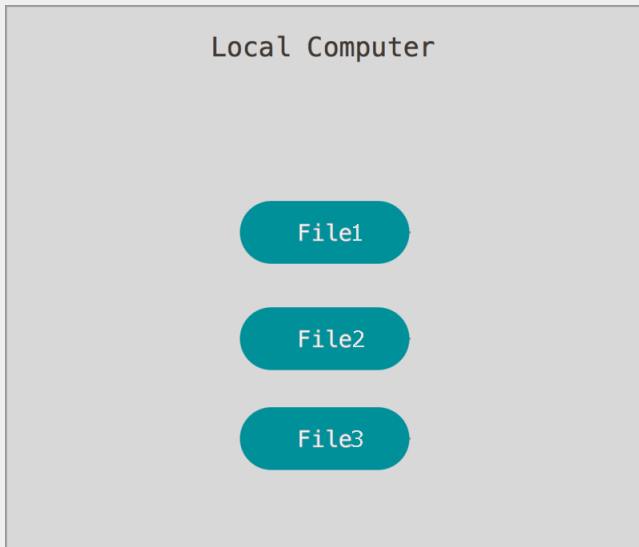
1 Centralized vs. distributed version control

2 Deltas vs. snapshots

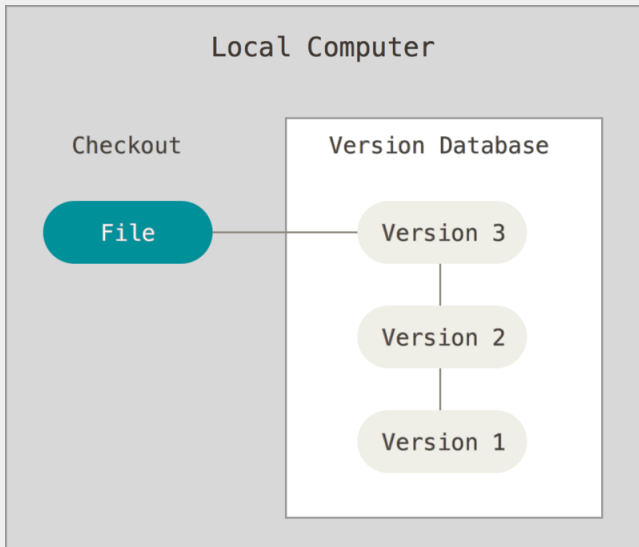
3 Commands

4 Template examples

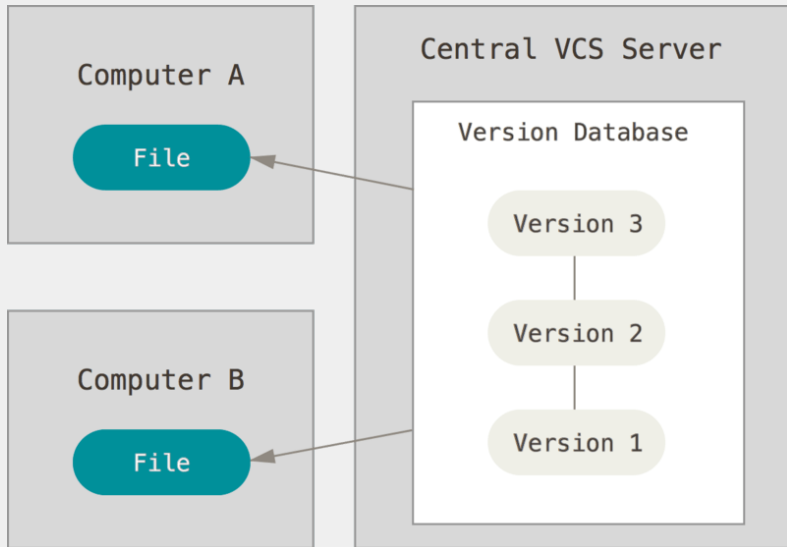
SIMPLE LOCAL VERSION CONTROL



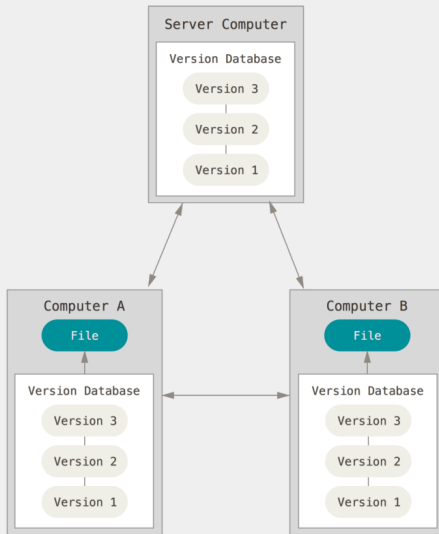
LOCAL VERSION CONTROL



CENTRALIZED VERSION CONTROL



DISTRIBUTED VERSION CONTROL



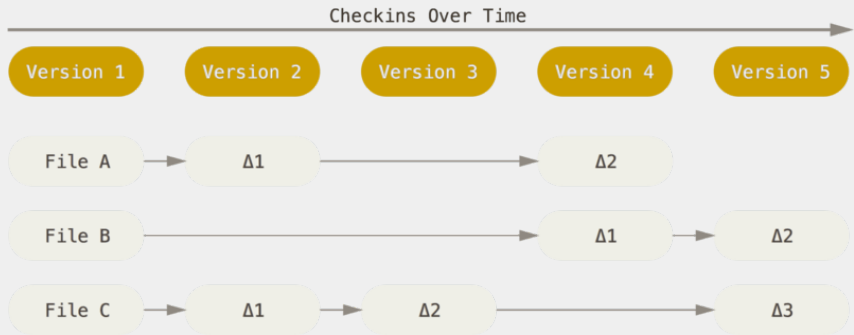
OUTLINE

1 Centralized vs. distributed version control

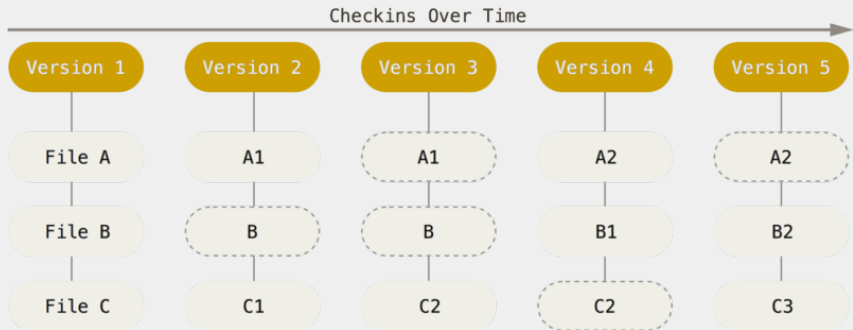
2 Deltas vs. snapshots

3 Commands

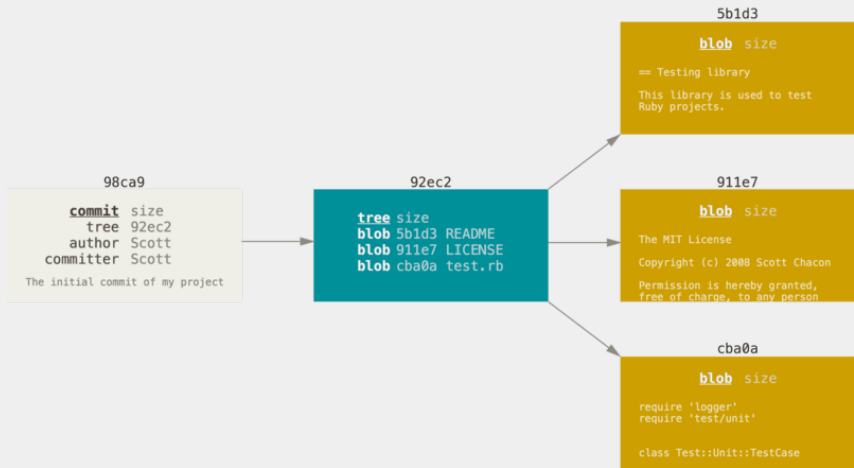
4 Template examples



SNAPSHOTS



THE GIT OBJECT MODEL



OUTLINE

1 Centralized vs. distributed version control

2 Deltas vs. snapshots

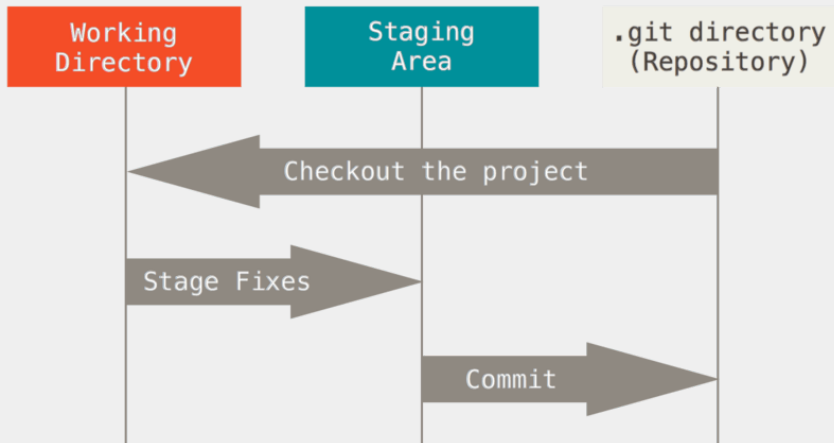
3 Commands

4 Template examples

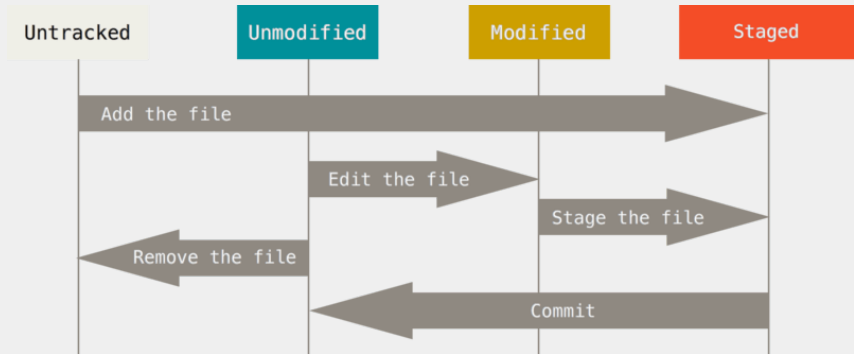
```
git init
```

git status

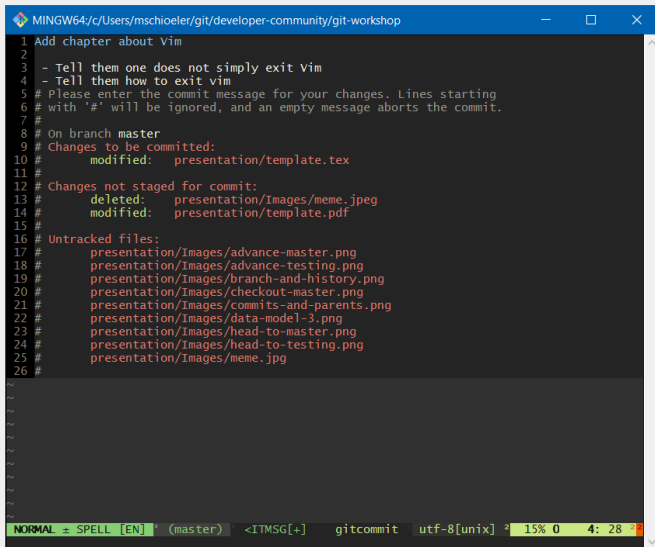
git add



git commit



git commit: VIM



```
1 Add chapter about Vim
2
3 - Tell them one does not simply exit vim
4 - Tell them how to exit vim
5 # Please enter the commit message for your changes. Lines starting
6 # with '#' will be ignored, and an empty message aborts the commit.
7 #
8 # On branch master
9 # Changes to be committed:
10 #   modified:   presentation/template.tex
11 #
12 # Changes not staged for commit:
13 #   deleted:    presentation/Images/meme.jpeg
14 #   modified:   presentation/template.pdf
15 #
16 # Untracked files:
17 #   presentation/Images/advance-master.png
18 #   presentation/Images/advance-testing.png
19 #   presentation/Images/branch-and-history.png
20 #   presentation/Images/checkout-master.png
21 #   presentation/Images/commits-and-parents.png
22 #   presentation/Images/data-model-3.png
23 #   presentation/Images/head-to-master.png
24 #   presentation/Images/head-to-testing.png
25 #   presentation/Images/meme.jpg
26 #
```

NORMAL ± SPELL [EN] (master) <ITMSG[+] gitcommit utf-8[unix] 15% 0 4: 28

git commit: VIM



Normal mode

- h, j, k, l =
- i goes to insert mode
- :wq writes and quits
- :q! quits without saving

Insert mode

- Type like a normal text editor
- Esc goes back to Normal mode

git branch

git checkout

OUTLINE

- 1 Centralized vs. distributed version control
- 2 Deltas vs. snapshots
- 3 Commands
- 4 Template examples**

This is a slide with the plain style and it is numbered.

This slide has an empty title and is aligned to top.

NO SLIDE NUMBERING

This slide is not numbered and is citing reference [?].

The packages `inputenc` and `FiraSans`^{1,2} are used to properly set the main fonts.

This theme provides styling commands to typeset *emphasized*, **alerted**, **bold**, *example text*, ...

FiraSans also provides support for mathematical symbols:

$$e^{j\pi} + 1 = 0.$$

¹<https://fonts.google.com/specimen/Fira+Sans>

²<http://mozilla.github.io/Fira/>

These blocks are part of 1 slide, to be displayed consecutively.

Block

Text.

These blocks are part of 1 slide, to be displayed consecutively.

Block

Text.

Alert block

Alert **text**.

BLOCKS

These blocks are part of 1 slide, to be displayed consecutively.

Block

Text.

Alert block

Alert **text**.

Example block

Example **text**.

This text appears in the left column and wraps neatly with a margin between columns.

Placeholder

Image

Items:

- Item 1
 - ▶ Subitem 1.1
 - ▶ Subitem 1.2
- Item 2
- Item 3

Enumerations:

1. First
2. Second
 - 2.1 Sub-first
 - 2.2 Sub-second
3. Third

Descriptions:

First Yes.
Second No.

TABLE

Discipline	Avg. Salary
Engineering	\$66,521
Computer Sciences	\$60,005
Mathematics and Sciences	\$61,867
Business	\$56,720
Humanities & Social Sciences	\$56,669
Agriculture and Natural Resources	\$53,565
Communications	\$51,448
Average for All Disciplines	\$58,114

Table: Table caption

THANKS FOR USING **Focus!**

REFERENCES

BACKUP SLIDE

This is a backup slide, useful to include additional materials to answer questions from the audience.

The package `appendixnumberbeamer` is used to refrain from numbering appendix slides.