Git for Beginners

Anton Gres

References

- https://git-scm.com/docs
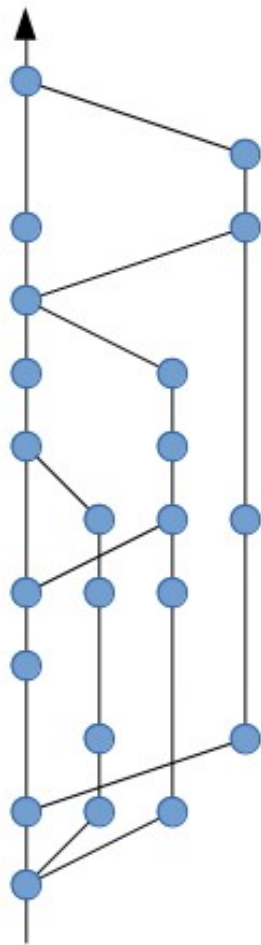
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- Wieso git

- Wie funktioniert git (Grundlegende Ideen)

- Live Demo

Wieso git?

- Freie Software
- Kein zentraler Server
- Nicht-lineare Entwicklung
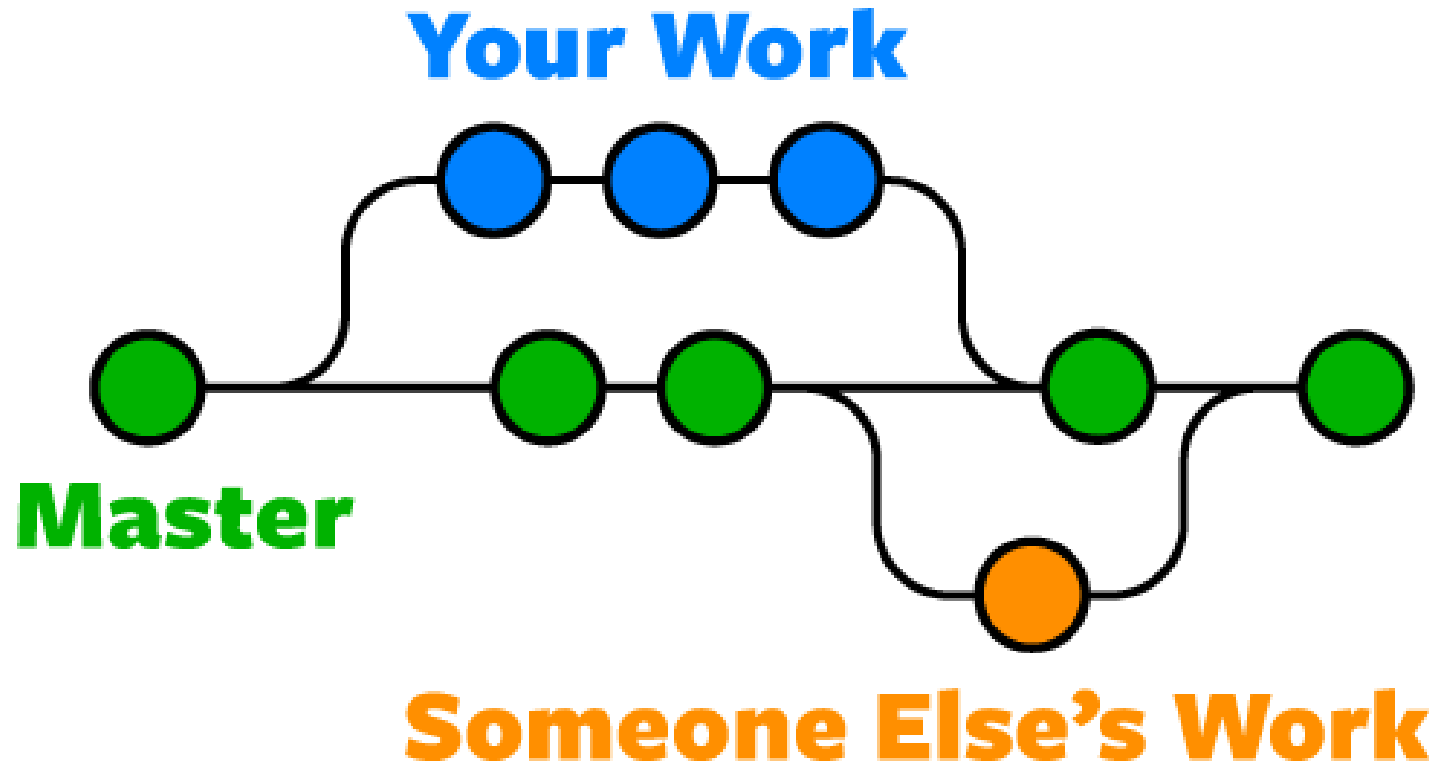
Wieso git?

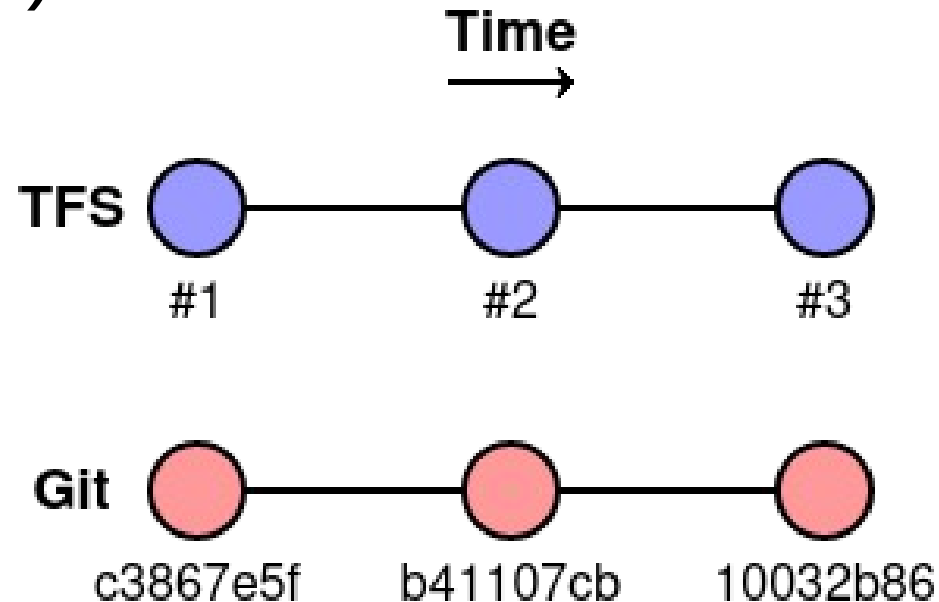Non-linear history

Linear history

Wieso git?

Wie funktioniert git

- Veränderungen werden durch einzelne **commits** dargestellt (Delta-basiert == Snapshots)

From: Ferruh Yigit <ferruh.yigit@amd.com>
To: Jiawen Wu <jiawenwu@trustnetic.com>,
      Jian Wang <jianwang@trustnetic.com>,
      Ferruh Yigit <ferruh.yigit@intel.com>
Subject: [PATCH] net/txgbe: fix out of bound access
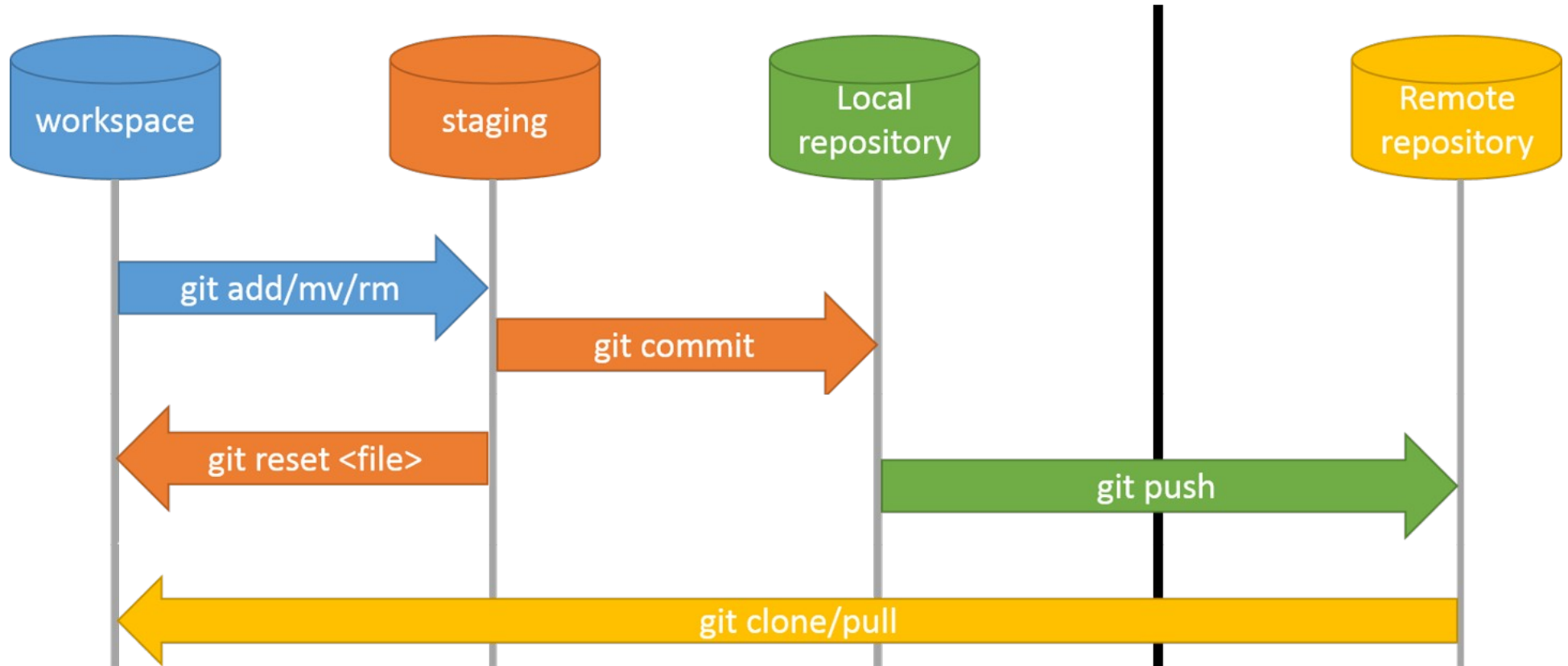Date: Thu, 16 Nov 2023 14:07:18 +0000

[...]

```
diff --git a/drivers/net/txgbe/base/txgbe_mng.c b/drivers/net/txgbe/base/txgbe_mng.c
index df7145094f84..9797b1b8b5da 100644
--- a/drivers/net/txgbe/base/txgbe_mng.c
+++ b/drivers/net/txgbe/base/txgbe_mng.c
@@ -147,6 +147,10 @@ txgbe_host_interface_command(struct txgbe_hw *hw, u32 *buffer,
       * two byes instead of one byte
       */
      if (resp->cmd == 0x30) {
+             if (length < ((dword_len + 2) << 2)) {
+                     err = TXGBE_ERR_HOST_INTERFACE_COMMAND;
+                     goto rel_out;
+             }
              for (; bi < dword_len + 2; bi++)
                      buffer[bi] = rd32a(hw, TXGBE_MNGMBX, bi);
```

--
2.34.1

Wie funktioniert git – Zustände + Cheatsheet

Live Demo

Antons more commands Cheatsheet

Command	Description
Git init <directory>	Creates an empty git repository
Git status	Show any modified, added, removed and staged files since the last commit
Git add -A	Stage all changes in the repository
Git log (--oneline)	Show a list of commits made to the repository
Git diff --cached	Show staged files
Git checkout <hash>	Restore commits in the history

Now do your part

https://learngitbranching.js.org/
https://ohmygit.org

https://github.com/H-O-M-E-Weingarten/jh23