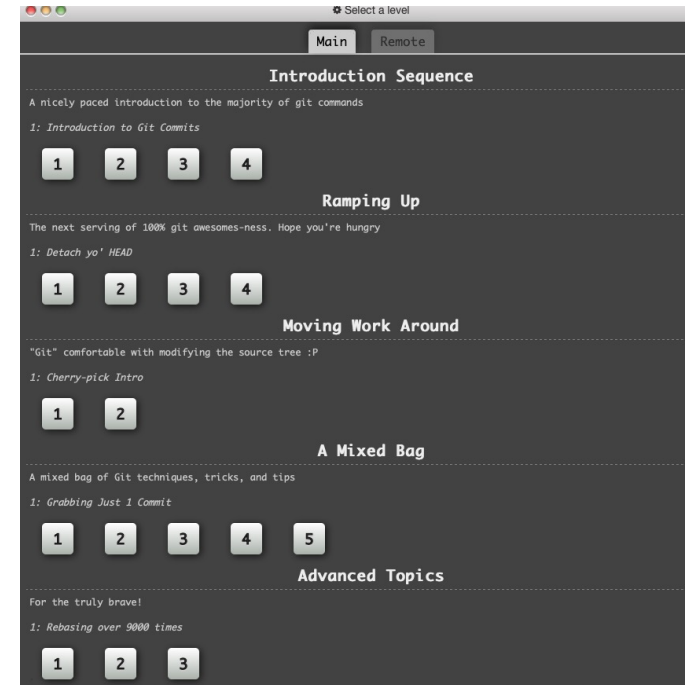# Continuous Delivery in agile Software Development

Exercise 01 (accompanying Chapter „Configuration Management, GIT")

FH-Prof. DI Dr. Marc Kurz

Part 1 - GIT Basics

– Go to https://learngitbranching.js.org

> on the Tab "Main" start with the "Ramping Up" Section (of course you could also start with the "Introduction Sequence") and process all chapters including "Advanced Topics"

> Make sure to document the way through the exercises properly (e.g. by screenshots) - prepare a PDF document out of that
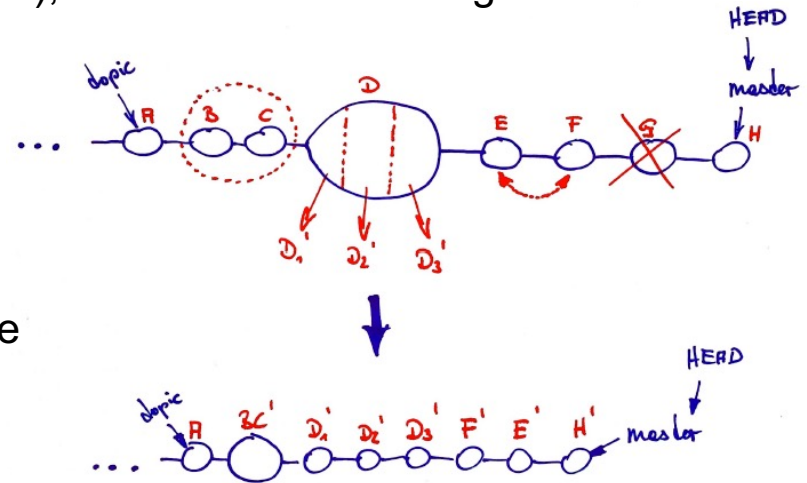
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Part 2 - GIT Remotes

- Go to https://learngitbranching.js.org
  - > on the Tab "Remote" process the chapters "Push & Pull -- Git Remotes"
  - > Make sure to document the way through the exercises properly (e.g. by screenshots) - prepare a PDF document out of that

  - > (if you are willing, feel free to also complete the chapter ""To Origin and Beyond -- Advanced Git Remotes)

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Part 3 - GIT Interactive Rebase

- Clone the repository https://github.com/mrckurz/cd2020-ex01.git to your local computer
- You will find a source tree that has a couple of commits in it...
- execute an interactive rebase (in the console), that does the following:
  - > Squash commits B and C
  - > split commit D into three commits
  - > exchange commits E and F
  - > delete commit G

- Make sure to document the way through the exercises properly (e.g. by screenshots)
  - > prepare a PDF document out of that

Part 4 - GIT ReReRe

- Describe what git rerere is, and how it works
- what might be a use case for this tool?

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Hints

- make sure to configure a proper editor for your work in the console (standard is vim...)
  - \> e.g.: **`git config --global core.editor "atom --wait"`**

- the following aliases might be helpful:
  - \> **`alias.s=status`**
  - \> **`alias.glog=log --pretty=oneline --graph -10 --decorate --abbrev-commit`**
  - \> **`alias.c=checkout`**
  - \> **`alias.r=reset --HEAD^`**
  - \> **`alias.ch=checkout`**
  - \> **`alias.co=commit`**
  - \> **`core.editor=atom --wait`**

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Exercise Submission

– Hand in the PDF document containing your results from Part 1, 2, 3 and 4 via Moodle no later than **March 27th, 23:55**

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