Developer Documentation

Useful development tooling

This page lists some software we consider useful.

Browser plugins

- [Refined GitHub](#) - GitHub on steroids
- [GitHub Issue Link Status](#) - proper coloring of linked issues and PRs.
- [Codecov Browser Extension](#) - displaying code coverage directly when browsing GitHub
- [Sourcegraph Browser Extension](#) - Navigate through source on GitHub

git hints

Here, we collect some helpful git hints

- https://github.com/blog/2019-how-to-undo-almost-anything-with-git
- [So you need to change your commit](#)
- awesome hints and tools regarding git: https://github.com/dictcp/awesome-git

Rebase everything as one commit on main

- Precondition: `JabRef/jabref` is [configured as upstream](#).
- Fetch recent commits and prune non-existing branches: `git fetch upstream --prune`
- Merge recent commits: `git merge upstream/main`
- If there are conflicts, resolve them
- Reset index to upstream/main: `git reset upstream/main`
- Review the changes and create a new commit using git gui: `git gui`
- Do a force push: `git push -f origin`

See also: https://help.github.com/articles/syncing-a-fork/

Tooling for Windows

(As Administrator - one time)

1 Install [chocolatey](#)

2 `choco install git.install -y --params "/GitAndUnixToolsOnPath /WindowsTerminal"`

3 `choco install notepadplusplus`

4 If you want to have your JDK also managed via chocolatey: `choco install temurin`

Then, each weak do `choco upgrade all` to ensure all tooling is kept updated.

General git tooling on Windows

- Use git for windows, no additional git tooling required
    - Git Credential Manager for Windows is included. Ensure that you include that in the installation. Aim: Store password for GitHub permanently for `https` repository locations
- Use notepad++ as editor for `git rebase -i`

Better console applications

CONEMU PLUS CLINK

- `choco install conemu clink`
- ConEmu -> Preview Version - Aim: Colorful console with tabs
    - At first start:
        - "Choose your startup task ...": `` `{Bash::Git bash}} ``
        - `OK`
        - Upper right corner: "Settings…" (third entrry Eintrag)
        - Startup/Tasks: Choose task no. 7 ("Bash::Git bash"). At "Task parameters" `/dir C:\git-repositories\jabref\jabref`
        - `Save Settings`
- clink - Aim: Unix keys (Alt+B, Ctrl+S, etc.) also available at the prompt of `cmd.exe`

OTHER BUNDLES

- Cmder - bundles ConEmu plus clink

Tools for working with XMP

- Validate XMP: https://www.pdflib.com/pdf-knowledge-base/xmp/free-xmp-validator