Code-Diff Parser and Visualization

Thank you for participating in this study. This tutorial will guide you through the installation process of the software. It should take about 15 minutes.

Requirements: Google Chrome, Java JRE 11 (or higher), Git Console

1 INSTALLATION

Download the repository:

- **CodeDiffParser**: Java program, that analyzes the two Git branches per merge request
- **CodeDiffVis**: Chrome extension for the visualization

1.1 CODEDIFFPARSER

You need to execute the following for each merge request manually. Later, the idea would be to install the parser on a Jenkins such that it automates that process.

You can use the pre-compiled version of CodeDiffParser or you can compile it yourself. Copy JAR and the script `run_codediffparser.sh`, i.e., to `C:\dev\study`.

Use a Unix-like command line tool (e.g. MINGW64) and execute the script `run_codediffparser.sh`. The JAR of the parser needs to be in the same directory.

- **./run_codediffparser.sh `source-branch` `target-branch` `git-project-url` local-maven-repo**
    - `./run_codediffparser.sh myfeature master https://gitlab.com/group/project.git ~/.m2/`

    After a successful execution, copy the resulting out.json into your CodeDiffVis directory. Chrome does not allow access to any other directory except to the extension itself.

1.2 CODEDIFFVIS

1. In Google Chrome, under chrome://extensions/ enable the «developer mode» (top right)
2. Choose «load unpacked» and select your CodeDiffVis directory (e.g. `C:\dev\study\CodeDiffVis`)
3. On the top right of your browser you should see a greyed-out symbol of CodeDiffVis

If you have already installed a previous version of CodeDiffVis, to update the extension you must click its reload button in the extension overview.

Now you are ready to proceed with «Tutorial – CodeDiffVis».