

Audacity is popular and widely used audio editor available for all the main platforms including Windows, Mac as well as various Linux distributions. Audacity functionality can be controlled via sophisticated user interface, but the editor suffers from a lack of support for an automated execution of scripts and therefore, using audacity e.g., to perform the same action on multiple files can be tedious.

The thesis aims at extending Audacity editor to allow using scripts in the audio editing workflow.

The first part of the thesis overviews Audacity's architecture, and discuss, how Audacity can be extended and what alternative applications are available. Then, the thesis describes the most important decisions that were taken, including the choice of scripting language, managing errors and designing user interface. Finally, the extension functionality is shown on several examples reflecting a typical use-cases.