

The goal of this thesis is to design and implement a program, which, given two similar versions of source code written in JavaScript, generates a GIF animation showing a step-by-step process of rewriting the first version into the other. Another goal is to design the program in a way, so that the list of supported languages can be extended.

To achieve this goal, a simple, language-independent representation of source code is defined and for every considered transformation within this simplified representation, a cost function is defined. Based on this cost function, the cheapest sequence of transformations is found, which is then used to generate the final animation.