Visualization of volume data is nowadays still actual theme in computer graphics. The reason is a significant role of volume data in fields such as medicine, biology or simulation of physics experiments.

In order to create informative visualizations of volume data, it is necessary to create so-called "transfer functions" that maps input values to a displayable quantity. Creating transfer functions is often difficult and lengthy process. Often considerable expertise is also required from the user.

The aim of this work is to design user interface for creating and editing transfer functions, which would work as intuitively as possible. The basic requirement is a direct interaction between transfer function and displayed data. The result of this work is user interface, which does not put high demands on specialized knowledge of the user.