

The overall goal of the thesis is to explore new approaches to debugging managed code, namely visualization of data in the program being debugged. Particular goals of the work are: (a) to build an object graph visualizer, which displays selected data structure used in the program as directed graph, (b) improve visualization of object collections by providing an overview of collection contents and supporting broad range of collection types.

The work is implemented for the SharpDevelop open source IDE for .NET. The author cooperates with the SharpDevelop team and the results of the work have been already incorporated into the new version of the IDE.