

The goal of the work is to design and implement a compiler translating a significant subset of the Ruby language into PHP, with emphasis on the correct translation of dynamic and functional language elements and compatibility with the original Ruby language implementation. The work begins with an introduction of the Ruby language and an overview of its existing implementations, highlighting their interesting properties. The work then focuses on analysis of the individual language elements' properties and a description of their translation to PHP. Detailed overview of the implemented constructs and standard library elements is attached. The result of the work is practically usable compiler that can be further extended and used in the production environment after implementing remaining Ruby language elements.