

In this thesis, we implement a parser combinator library in C# inspired by Parsec. Parser combinators refer to a style of parsing where a parser is modeled as function from string to some structured result. Afterward, higher-order functions called combinators are used to combine simple parsers into more complex ones. Other such libraries exist, but in our estimation, they contain various deficiencies. We create an implementation without these faults and also introduce two new modules for parsing indentation-sensitive languages and permutations. We additionally implement two example parsers to showcase our library.