



MiniLang Compiler

An Overview of Design and Implementation

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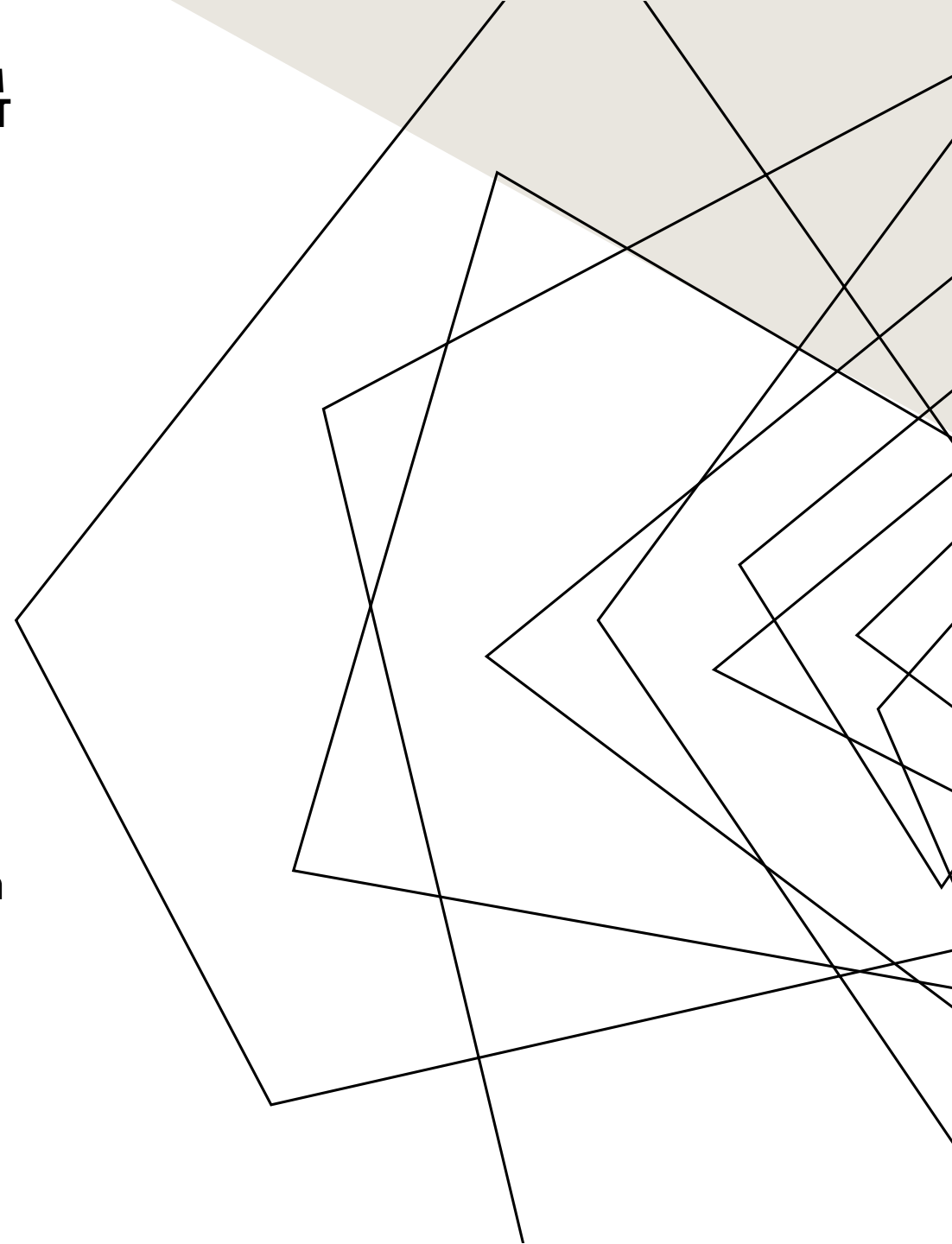
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STRUCTURE OF THE MINILANG COMPILER

Main Components:

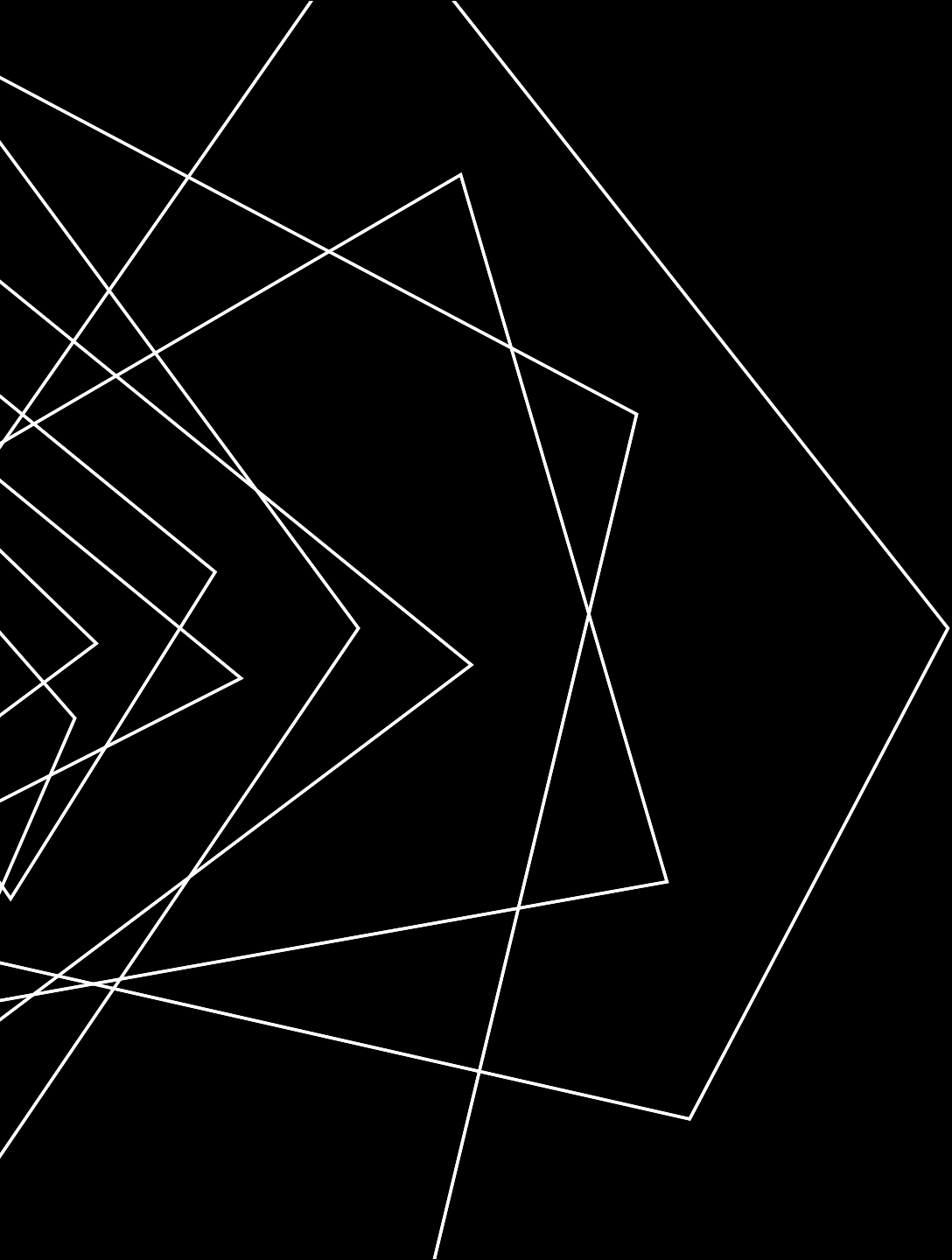
- Lexer: Converts source code into tokens.
- Parser: Builds an Abstract Syntax Tree (AST) from tokens.
- Code Generator: Produces assembly code from the AST.





CHALLENGES AND SOLUTIONS

- Handling complex language features.
- Managing memory efficiently.
- Ensuring error-free parsing and code generation.
- Solutions implemented:
- Robust error handling.
- Efficient data structures for symbol tables.
- Clear modular design.



THANK YOU