

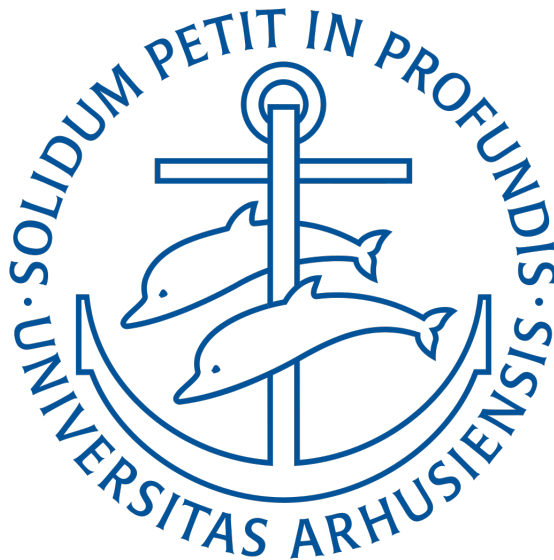
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# Compiler

*Bachelor Project*

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## Resumé

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## 2 Requirements

### 2.1 Functional requirements

The compiler will compile a custom programming language, that is inspired by Rust. Requirements for the compiler, and accompanying language is listed below, using MoSCoW prioritisation:

- The language **must** be Turing complete
- Compiler **must** be able to compile cross-platform
- The language **must** be strongly typed and statically typed<sup>1</sup>
- The language **must** contain variables
  - The variables **must** be immutable, unless explicitly made mutable
- The language **must** allow an output
- The language **should** have memory-management with Rust inspired borrow checker
- The language **should** have error handling
- The language **could** allow access to system resources
- The language **wont** have classes
- The language **wont** have tooling/ecosystem/debugger

### 2.2 Non-functional requirements

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<sup>1</sup>INSERT DEFINITION OF STRONG AND STATIC TYPING

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