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- 1 Overview
- 1.1 Programming Languages
- 1.2 Compiler
- 1.3 Programming Paradigms
- 1.4 Code Quality and Design
 - 1. designe patterns
 - 2. aspect/feature oriented programming
 - 3. test driven development
- 1.5 Operating System Concepts
- 1.6 Algorithms
- 1.7 Data Structure
- 1.8 Distributed Systems
- 1.9 Machine Learning

- 2 C++
- 2.1 Initilization
- 2.2 Value and copy semantics
- 2.3 Modules
- 2.4 Exceptions
- **2.5** Idiom

RAII Resource ...

 $\mathbf{SFINAE} \quad \text{Resource } \dots$

- 3 Compiler
- 3.1 Parsers
- 3.2 Lex
- 3.3 Front-End
- 3.4 Back-End
- 3.5 IR
- 3.6 Optimization