The Coral Language Specification

Version 0.1

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# Preface

Coral is a Ruby-like programming language which enhances advanced object-oriented programming with elements of functional programming. Every value is an object, in this sense it is a pure object-oriented language. Object blueprints are described by classes. Classes can be composed in multiple ways – classic inheritance, mixin composition, union and fusion types.

Coral is also a functional language in the sense that every function is also an object. Therefore, function definitions can be nested and higher-order functions are supported out-of-the-box. Coral also has a limited support for pattern matching, which can emulate the algebraic types used in other functional languages.

Coral has been developed from 2012 in a home environment out of pure enthusiasm for programming and out of a desire for a truly versatile language. This document is a work in progress and will stay that way forever. It acts as a reference for the language definition and some core library classes.

# 

Lexical Syntax

## Identifiers

blablabla

## Literals

blablabla

### Integer Literals

blablabla