



A Language with Dependent Types

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Overview

Idris is a general purpose pure functional programming language with [dependent types](#). Dependent types allow *types* to be predicated on *values*, meaning that some aspects of a program's behaviour can be specified precisely in the type. It is compiled, with [eager evaluation](#). Its features are influenced by Haskell and ML, and include:

- Full dependent types with dependent pattern matching
- Simple foreign function interface (to C)
- Compiler-supported interactive editing: the compiler helps you write code using the types
- where clauses, with rule, simple case expressions, pattern matching `let` and lambda bindings
- Dependent records with projection and update
- Interfaces (similar to type classes in Haskell)
- Type-driven overloading resolution
- `do` notation and idiom brackets

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- Indentation significant syntax
- Extensible syntax
- Cumulative universes
- Totality checking
- [Hugs](#) style interactive environment

Getting Started

Tutorials and the beginnings of a manual are available on [our documentation site](#).

Community

Mailing list

Long-form discussion happens on the [mailing list](#).

IRC

There is also an irc channel `#idris` on [freenode](#).

Point your irc client to `chat.freenode.net` then

`/join #idris`. Alternatively, there is a [web interface](#).

GitHub

The Idris source is available from [our repository](#).

Tools and code by the wider Idris community are available in [a GitHub organisation](#).

All participants in these forums are requested to abide by the [community standards](#).

Idris development is led by [Edwin Brady](#) at the [University of St Andrews](#).

Many thanks to Heath Johns for designing the logo.

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