

Haskell notes based on Learn You A Haskell For Great Good

Ubuntu

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1 Setup

See What you need to dive in.

These notes will be in literate programming style. All code will be compiled and executed using GHC.

2 Basics

2.1 Numbers, strings and expressions

Simple arithmetic

$5 + 2$

7

$10 + 14.5$

24.5

Default type for numbers is floating point:

7 / 2

3.5

Be careful with negative numbers:

5 * -2

<interactive>:8:1:

Precedence parsing error

cannot mix '*' [infixl 7] and prefix '-' [infixl 6] in the same infix expression

Better to surround negative numbers with parens:

5 * (-2)

-10

Parens Alright, parens are important to explicitly tell the compiler your precedence:

50 * (100 - 4999)

-244950

Otherwise, regular operator precedence rules will apply:

50 * 100 - 4999

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2.2 Functions

2.3 Lists

2.4 Ranges

2.5 Comprehensions

2.6 Tuples