

Functional Programming Language:
Haskell

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Lecture 18 – Functional Programming, Spring 2008

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Reading and Implementation



- Yet Another Haskell Tutorial http://www.cs.utah.edu/~hal/htut
- WinHugs:

http://cvs.haskell.org/Hugs/pages/downloading.htm Download file WinHugs-Sep2006.exe (14 MB):

- Installation:
 - Try to install outside of "Program Files".
 - May fail if you install inside.

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Topics



- Basics
- Types and classes
- Defining functions
- List comprehensions
- Recursive functions
- Higher-order functions

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- You need to use script (module) files to define functions, and use interactive environment to evaluate expressions (functions)
- Haskell is not free-format. It has certain layout rules.
- General rules to follow when writing script files:
 - Indent the same amount for definitions at the same level
 - Don't use tab

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Basics

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The Standard Prelude



When Hugs is started it first loads the library file <u>Prelude.hs</u>, and then repeatedly prompts the user for an expression to be evaluated.

For example:

> 2+3*4 14 > (2+3)*4 20

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