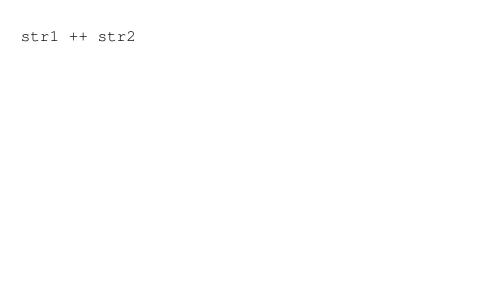
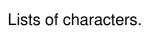
Seven Languages in Seven Weeks

Haskell

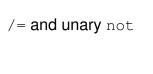
Concatenate strings.



What are strings, really?



How is negation done?



Give the conditional syntax.

What is unusual about Haskell conditionals?

if bool then expr1 else expr2

The else clause is required, to ensure an interesting result for the whole ${\tt if}$ expression.

Like in Java, Boolean types are ...



Find the type of an expression

Make ghci print all types.

:t expr shows a value's type in ghci.

:set +t makes it permanent for that session.

What are the two types of a function?

The optional type declaration and the function declaration.

Create a module MyMath with the function my_max.

module MyMath where
my_max :: Integer -> Integer -> Integer
my_max x y = if x > y then x else y

How can you control flow of control to a function?

- Multiple function definitions.

- Guards.

Give the syntax of guards.

What is often used as the last guard?

Delay the equals sign, splitting up the argument lists.

otherwise is an alias for true, often used as the last guard.

Give the syntax of tuples and lists.

Tuples use round parens, lists use brackets.