S344- More Haskell

Announcements

- HW due Friday - bring to class!

- Next HW - on Haskell

3/19/2012

Last time

- Types in Hastell

-Type classes (not an o-o class!)

Ex: Num, Ord, Eq, Show, Read

Strong pattern Matching
Can use pattern metching in
unexpected ways.

add vectors example

Another:

> let my list = [(1,3), (4,3), (5,6)] > [a+b] (a,b) = my list]

Our own head function

head: a [a] -> a
head! [] = error 'Can't call head on empty list'
head (x:-) = x

See first two. hs

Xercise Ise pattern matching:

- Write a function which computes

the sum of the first

3 elements in a list. write a function which computer a sum of all elements in a list. (Hut - use recursion!) A way of testing if properties hold.

(a lot like if statements)

Example: where In Alpha i: String >> String

where In Alpha word > h' = "beginning"

head word < 'r' = "middle"

otherwise = "end"

ands

Where Bindings We can set local names for expressions. initials: String -> String where (f:) = firsthame