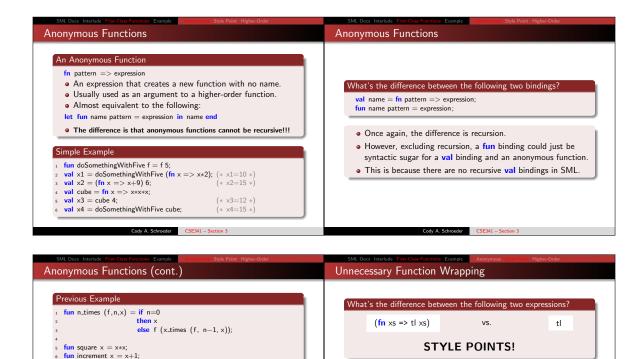


Online Documentation	Questions
http://www.standardml.org/Basis/index.html http://www.smlnj.org/doc/smlnj-lib/Manual/toc.html	How's life?
	• Tail-recursion?
Helpful Subset	• Pattern-matching?
Top-Level http://www.standardml.org/Basis/top-level-chapter.html List http://www.standardml.org/Basis/list.html	Note
ListPair http://www.standardml.org/Basis/list-pair.html Real http://www.standardml.org/Basis/real.html String http://www.standardml.org/Basis/string.html	• Extra Lecture Material: http://www.cs.washington.edu/ education/courses/cse341/13wi/videos/unit3/



• Other than style, these two expressions result in the exact

• However, one creates an unnecessary function to wrap tl.

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VS.

ex

• This is very similiar to this style issue:

(if ex then true else false)

same thing.

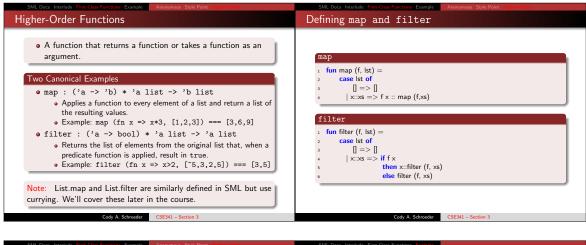
val x1 = n_times (square, 4, 7); val x2 = n_times (increment, 4, 7); val x3 = n_times (tl, 2, [4,8,12,16]);

¹ val $x1 = n_times$ (fn x = > x*x, 4, 7);

val x2 = n_times (fn x => x+1, 4, 7); val x3 = n_times (fn xs => tl xs, 2, [4,8,12,16]); (* Bad Style *)

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With Anonymous Functions



 Functions like map are very pervasive in functional languages. A function like map can even be written for other data structures such as trees. (* Apply a function to each elevent in a tree. *) (* Returning a function (* Returns true iff the given each element in a tree. *) thun piecewise x = if x < 0.0 then fn x => x*x 	
1 fun piecewise x = if x < 0.0 2 then fn x => x*x	* 'a tree * 'a tree ement in a tree. *)
1 fun piecewise $x = if x < 0.0$ 2 then fn $x => x*x$	predicate returns true when applied to
$\begin{array}{c} s & else \ \ if \ x < 10.0 \\ 4 & then \ fn \ x => x \ / \ 2.0 \\ s & else \ \ fn \ x => 1.0 \ / \ x + x \end{array}$	ol) * 'a tree -> bool

