## Fundamentals of CS

## World worksheet

4 Oct 2010

:	$\Rightarrow$
	UNCTION NAME : STATE TYPE $\rightarrow$ STATE TYPE
; calculat	es the state following the given state if only time passes
(define	( current )
	current ) ; stub, state is unchanged
	${\text{STATE TYPE}}: {\text{STATE TYPE}} \text{ KeyEvent} \rightarrow {\text{STATE TYPE}}$ es the state following the given state if given key is pressed
(define	( current key )
	current ) ; stub, state is unchanged
; constru	FUNCTION NAME: $\longrightarrow$ image cts an image representing the given state $\left(\begin{array}{c} \longrightarrow \\ \longrightarrow \end{array}\right)$ RENDER FUNCTION NAME current)
	(text current 40 "red") ) ; stub, renders as text
(define	<pre>( main init-val ) (big-bang init-val</pre>
	(on-tick)
	(on-key KEY FUNCTION NAME )
	(to-draw ${\text{RENDER FUNCTION NAME}}$ ) )
(main _	) INITIAL STATE