;; comments ; text between ; and eol is skipped #  this text is also skipped \#	;;characters #\a #\1 #\newline #\space	femtolisp	;named let: (let {name} (({v} {e})) {e})
<pre>#; skips next single s-expression ;;quoting '{e} (quote{e}) `{e} (quasiquote{e})</pre>	;;strings "hello" ;;list/pair	Programming Language Quick Reference Card	<pre>(yeild x) return a value in generator (prog1 {expr}) ;eval &amp; return 1<sup>st</sup> (trycatch {expr} {function}) (raise {expr}) (return {expr})</pre>
,{e} (unquote{e}) ,@{e} (unquote-splicing{e})  (set! {sym} {e})	(012) () (cons{h}{t}) (car{p}) (cdr{p}) (set-car!{p}{i}) (set-cdr!{p}{i})	(c) 2013 John Lynch modeled on v0.2 Aaron Lahman's 2011 Scheme card You may freely modify and distribute this document Man code.google.com/p/femtolisp/wiki/Manual API code.google.com/p/femtolisp/wiki/APIReference	;;control functions (force{promise}) (with-delimited-continuations {proc})
;; data types (boolean? {e}) (pair? {e}) (symbol? {e}) (number? {e}) (char? {e}) (vector? {e})	<pre>(list?{o}) (length{p}) (list{expr}) (append{lst})</pre>	<pre>;; r5rs load module (load {filename-string}) (begin {expr}) ;; variables</pre>	<pre>(map{proc}{lst}) (for-each{proc}{lst}) ;;macros</pre>
(atom? {e}) (fixnum? {e}) procedure? builtin? bound? negative? zero? positive? even? odd? null? identity	<pre>(reverse{lst}) (list-ref{lst}{i})  ;;vector #(012)#()</pre>	(define {var} {expr}) (let (({var} {expr})) {expr}) (let*) ;in sequence (letrec) ;recursive procs	<pre>(let-syntax   (({keyword}{transformer}))   {body}) (define-syntax   {keyword} {transformer})</pre>
<pre>;equality (eq? {a} {b}) (eqv? {a} {b}) ;number, string (equal? {a} {b}) ;list contents</pre>	<pre>(vector{expr}) (vector.alloc {n} {x}) (aref{v}) (aset!{v} {i} {x}) (vector-&gt;list{v})</pre>	<pre>;; procedures (define ({proc} {args}) {body}) (lambda ({args}) {body}) ;; control flow</pre>	<pre>;transformer (syntax-rules({literals})   ({pattern}{template}))</pre>
;; operators + - * / > < (quotient a b) ;integer division (= {nums}) ;numeric equality	(list->vector{lst}) ;;hash table	<pre>(if{test} {true-expr}   {false-expr}) (cond ({test} {body})</pre>	;patterns x ;variable x ;repetition {pat} ;repeated pattern
(lognot a) (logand a b) (logior a b) (logxor a b) (ash a); bit shift mod mod0 div abs max min	<pre>(table k v k v) (put! {t} k v) (get {t} k {dval}) (has {t} k) (del! {t} k)</pre>	<pre>(else {body})) (case {expr}  (({keys}) {body})  (else {body})) (do (({var} {init} {step}))</pre>	<pre>;; other append!, assoc, assv, assq, member, memv, memq, every, any, list-tail, list-ref, list*, last-pair, lastcdr, length=,</pre>
<pre>;; logic #t #f (and {expr}) ; short circuit (or {expr}) ; short circuit (not {expr}) (compare? {e} {e})</pre>	<pre>(table.keys {t}) (table.pairs {t})</pre>	<pre>({test}{exit-body}) {body}) (for x y (lambda ({args})     {body})) (while {test} . {body})</pre>	<pre>length&gt;, map!, mapcar, for-each, filter, count, foldr, foldl, reverse!, copy-list, copy-tree, map-int, iota, revappend, nreconc, delete-duplicates</pre>