## jahinejs

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132
      (defthing num (at 0) (txt "") (n 0) (w 1) (mu 0) (m2 0) (sd 0) max (ok t) (lo most-positive-fixnum) (hi most-negative-fixnum) (_has (make-array 32 :fill-pointer 0 :adjustable t)))
       (defthing sym (at 0) (txt "") (n 0) has mode (most 0)) (defthing cols all x y klass) (defthing sample rows cols) (defthing range col lo hi has)
135 136 137 138 139 140 141 142 143 146 147 148 155 156 157 158 159 170 171 172 173 174 175 176 177 178 179 180 181 182 183
      (labels ((final (x & aux (n (length x))) (and (> n 0) (subseq x (- n 1) n))))
(defun lesso (x) (equal "-" (final x)))
(defun moreo (x) (equal "+" (final x)))
(defun humo (x) (equal "'" (final x)))
(defun numo (x) (upper-case-p (char x 0)))
(defun goalp (x) (or (klassp x) (lessp x) (morep x))))
       (defun make-num
  (n &optional (at 0) (txt ""))
   (%make-num :at at :txt txt :max n :w (if (lessp txt) -1 1)))
      (defmethod add ((nu num) x)
(with-slots (lo hi max ok n _has) nu
(unless (null x)
(setf lo (min x lo)
hi (max x hi)
n (1+ n))
(cond ((> max (length _has))
(setf ok nil)
(vector-push-extend x _has))
((< (randf) (/ max n))
(setf ok nil
(elt _has (randi (length _has))) x)

x)
       _has))
        (defmethod div ((n num)) (per (has n) .5)) (defmethod div ((n num)) (/ (- (per (has n) .9) (per (has n) .1)) 2.56))
       (defun make-sym (&optional (at 0) (txt ""))
  (%make-sym :at at :txt txt))
```

```
190 ;
191 ;
192 ;
192 ;
193 ;
194 (defvar *tests* nil)
196 (defmacro deftest (name params doc &body body)
197 (defun demos (&potional what quit &aux (fails 0))
198 (defun demos (&potional what quit &aux (fails 0))
199 (dolist (one *tests* (if quit (exit :code fails)))
         206
207
                                (identity _)
(incf fails (if err 1 0))
(if err
                                        err (format t "~&~&FAIL: [~a] ~a ~a~%" one doc err) (format t "~&~&PASS: [~a] ~a~%" one doc))))))))
215
216
217 (deftest the? () "SNOW.
218 (deftest item? ()
219 "thing from string"
21 (dolist (x '("" "|" "|" "2ddd " "?" 2))
220 (print `(x ,x = ,(item x)))))
22
          (deftest the? () "show config" (loop for x in (options-options *the*)  \frac{do}{do} \; (\text{print x})))
```

