09/04/22

#### col/col.jl

1 "Add stuff to 'i'. Ignore unknown values. Increment 'n', call 'inc1!'."
2 function inc1(i,x:Array) for x in a inc!(i,x,1) end; a end
3 function inc!(i,x, n)
4 if x != the[:unknown]
5 i.n = i.n + n
6 inc!!(i,x,n) end end

## col/sample.jl

"Keep, at most 'the[:max]' items."

#with\_kw mutable struct Sample

\_has=[] # where we keep, at most, the[:sample] items
ok=false # true if we have sorted the \_has since last addition

end

"Add something to '\_has'. If full, replace anything at random."

function inc!!(i::Sample, x,n) # <== tedious detail, ignore n (used only in Sym)

m = length(i\_has)

if ( m < the[:max] ) begin i\_ok=false; push!(i\_has\_x) end
elseif ( rand() < m/i.n ) begin i\_ok=false; i\_\_has[int(m\*rand())+1]=x end end end

"mid' = median. 'div' = standard deviation. 'per' returns the n-th item."

### mid(i::Sample, a=nums(i)) = per(a, 5)

#### lib/2string.jl

1 "print a struct"
2 function say(i)
3 s,pre="\$(typeof(i))(",""
4 for f in sort!([x for x in fieldnames(typeof(i)) if !("\$x"[1] == '\_')])
5 s,pre = \$ x pre \* ":\$f \$getfield(i,f)"," " end
print(s \* ")" end

#### lib/2thing.jl

"Coerce string to thing."

function coerce(s)

for t in [Int64,Float64,Bool] if (x=tryparse(t,s)) != nothing return x end end
return strip(s) end

"Coerce csv rows to cells."

function csv(file, fun)

for line in eachline(file)

line = strip(line)

if sizeof(line) > 0 fun(map(coerce, split(line, ","))) end end end

# lib/lists.jl

"Return the n-th item of `a`. e.g. `per(a,.5)` returns median."
per(a, n) = begin l=length(a); a[max(1,min(1,1 + trunc(Int,n\*1)))] end

## lib/settings.jl