```
- ## class NUM: summarize numbers
local all = require*al"
local SOME = require*al"
--> NUM(at:?int, txt:?str) :NUM -> Summarize a stream of numbers.
local NUM = obj(*NUM*, function(i,at,txt)
i.at, i.txt.i.n, i.kept = alr of, txt or "", 0, SOME(the.Some)
i.ut = i.txt::find*-5* end)
--> add(inNUM: stnum, n:?int=1) -> 'n' times,update 'i''s SOME object.
function NUM.add(i,x,n)
if x ==?* "then
for _= 1, (n or 1) do i.n=i.n+1; i.kept:add(x) end end end
--> clone(i:(SYM|NUM)) :(SYM|NUM) -> Return a class of the same structure.
function NUM.clone(i) return NUM(i.at, i.txt) end
--> clone(i:(SYM|NUM)) :(SYM|NUM) -> Return a class of the same structure.
function NUM.clone(i) return NUM(i.at, i.txt) end
--> div(iNUM):tab -> Return 'div'ersity of a column
-- (its tendency not, to be a its central tendency). To understand this code
-- recall $pm;1 to $pm;2 ads covers 66 to 95% of the Gaussian prob. In between,
-- at $pm;1.28, we cover 90%. So (9p0-pl))/(2!1.28) returns one ad.
function NUM.div(i)
local ad., kept:has(); return (per(a,.9) - per(a,.1))/2.56 end
--> like(i:NUM, x:any) -> Return the likelihood that 'x' belongs to 'i'.
function NUM.like(i,x,...)
local sd,mu=idiv(), i:mid()
if sd=-0 then return x=mu and l or 1/big end
return math.exp(-.5*((x - mu)/sd)*2) / (sd*((2*math.pi)*0.5)) end
--> mid(i:NUM):tab -> Return a columns' 'mid'ddle
function NUM.mid(i)
local a:.kept:has(); return per(a,.5) end
--> norm(i:NUM, x:num):num -> Normalize 'x' 0..1 for lo..hi,
function NUM.nice(i,x - return (a[#a]-a[1]) <1E-9 or (x-a[1])/(a[#a]-a[1]) end
```