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```
-- ## Misc routines
-- ### Handle Settings
       local the coerce, cli
-- Parse 'the' config settings from 'help'.
function coerce(s, fun)
function fun(s1)
                    if s1=="true" then return true end
if s1=="false" then return false end
                     return sl end
              return math.tointeger(s) or tonumber(s) or fun(s:match"^%s*(.-)%s*$") end
             - Create a 'the' variables
       help:gsub("\n[-][%S]+[%s]+[-][-]([%S]+)[^\n]+=([%S]+)",
function(k,x) the[k]=coerce(x) end)
            -- Update settings from values on command-line flags. Booleans need no values
                   (we just flip the defeaults) .
         function cli(t)
             unction cli(t)
for slot,v | npairs(t) do
v tostring;

v tostring;

do
if x=="".".(slot:sub(1,1)) or x=="--".slot then
    v = v=="false" and "fue" or v=="true" and "false" or arg[n+1] end end
t[slot] = coerce(v) end
             if t.help then os.exit(print("\n"..help.."\n")) end return t end
                 ### Lists
         local copy, per, push, csv
        -- deepcopy

function copy(t, u)

if type(t) ~= "table" then return t end

u=(); for k,v in pairs(t) do u[k] = copy(v) end

return setmetatable(u,getmetatable(t)) end
            -- Return the 'p'-th thing from the sorted list 't'.
       function per(t,p)
p=math.floor(((p or .5)*#t)+.5); return t[math.max(1,math.min(#t,p))] end
            -- Add to 't', return 'x'
        function push(t,x) t[1+#t]=x; return x end
       -- ## Call 'fun' on each row. Row cells are divided in 'the.seperator'.
function cav(famme,fun, sep.src,srt)
sep = "[(" . . the.seperator . "]+)"
src = io.input(fname)
while true do
s = io.read()
if not s then return io.close(src) else
                           t={} for sl in s:gmatch(sep) do t[1+#t] = coerce(sl) end
     -- ### Strings
local open
local open
-- 'o' is a telescopt and 'oo' are some binoculars we use to exam stucts.
-- 'o': generates a string from a nested table.
function (ft, show, u)
if type(t) == "liable" then return tostring(t) end
function show(k,v)
if not tostring(k):find"^" then

v = o(v)

-- where tt==0 and string.format(":%% %%",k,v) or tostring(v) end end
              \begin{tabular}{ll} $v=o(v)$ & return $t=0$ and string.format(":%% %%",k,v)$ or tostring(v) $end end $u=\{\}$; for $k,v$ in pairs(t) do $u[1$\dflue{$t=0$}$ then table.sort(u) $end$ & return "(".table.concat(u,"")..")" end $end$ & return "(".table.concat(u,"")...")" end $end "(".table.concat(u,"")...")" end $end$ & return "(".table.concat
       -- 'oo': prints the string from 'o'.
function oo(t) print(o(t)) return t end
        local rogues, rnd, obj
       Find rogue locals.

function rogues()

for k,v in pairs (ENV) do if not b4[k] then print("?",k,type(v)) end end end
       function rnd(x, places)
local mult = 10^(places or 2)
return math.floor(x * mult + 0.5) / mult end
           -- obj("Thing") enables a constructor Thing:new() ... and a pretty-printer
                  for Things.
106 function obj(s, t,i,new)
```


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```
- ## Data
sn -- Add a 'row' to 'data'. Calls 'add()' to updatie the 'cols' with new values.
function Data:add(xs, row)
if not self.cols
then self.cols = Cols(xs)
else row= push(self.rows, xs.cells and xs or Row(xs)) -- ensure xs is a Row
for _rodo in pairs(self.cols.x, self.cols.y) do
for _rodo in pairs(todo) do
col:add(row.cells(col.at)) end end end end
col:add.row.cells(col.at) in 'data', report 'fun' (default='mid'),
-- rounding numbers to 'places' (default=2)
trunction Data:stats( places, showCols, fun, t,v)
showCols, fun = showCols or self.cols.y, fun or "mid"
t=(); for _rol in pairs(showCols) do
v=tupe(v)=="number" and rnd(v,places) or v
t[col.name]=v end, return t end
```

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