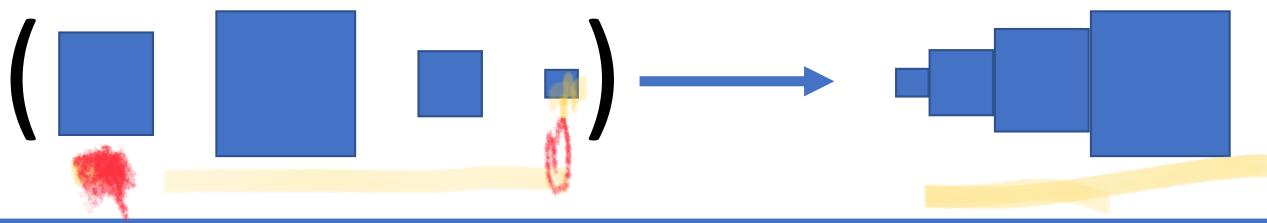


Plan for today

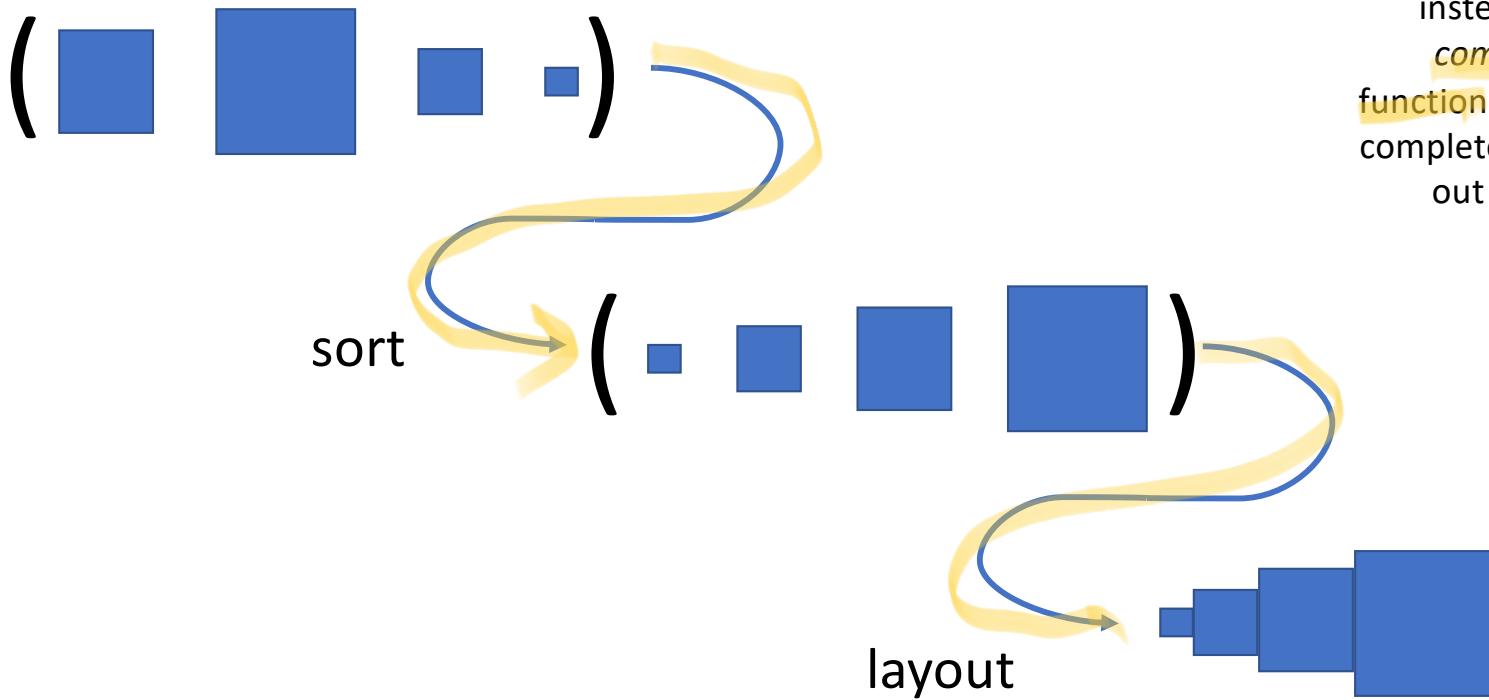
- recursive functions on natural numbers
 - n recursions to produce result
- one task per function
 - using helper rules to structure a larger program
 - using wish-list entries to structure process of designing the program

one task per function

clear
reference rule
function composition
operate on arb-sized data
switch in knowledge domain of fn
already
interpretation



this doesn't work in
one recursion
through the list



instead have to
compose two
functions, sorting must
complete before laying
out can begin

arrange-images 

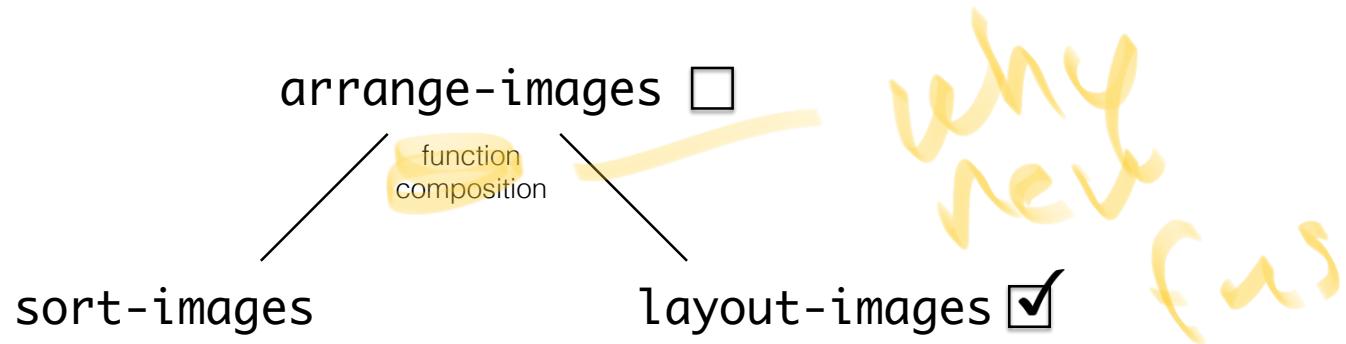


HtDF, through code body



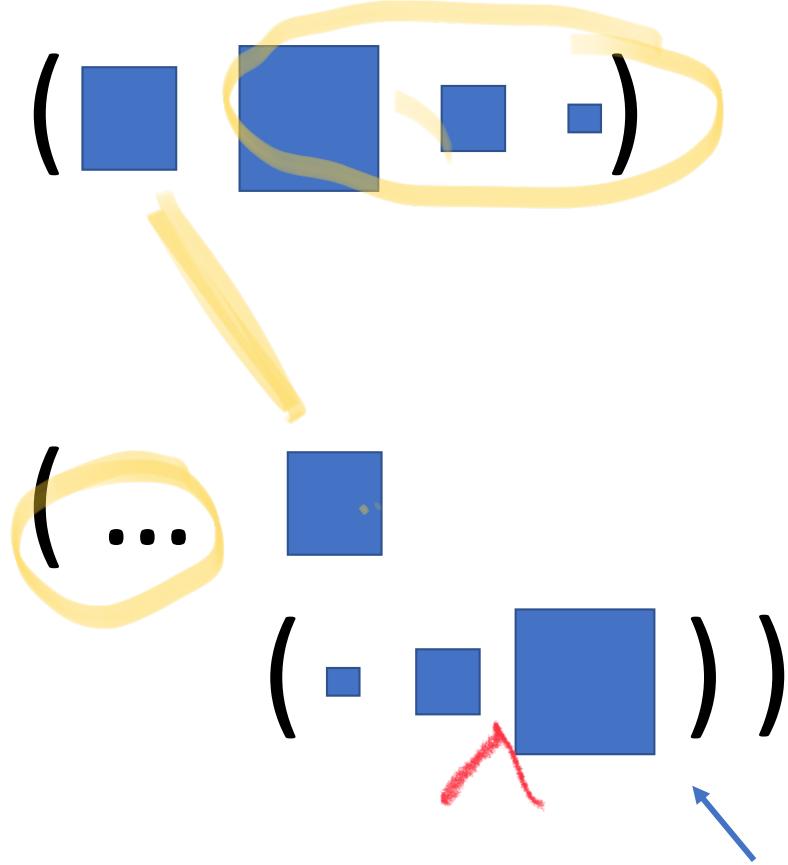
✓ all wishes done, tested





HtDF, through code body

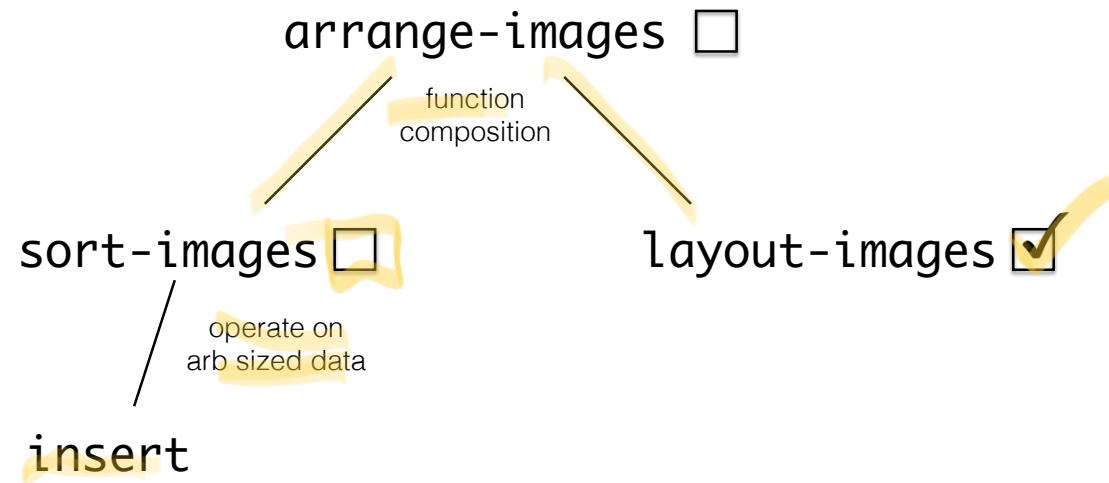
all wishes done, tested



at beginning
at middle
at end

the RESULT of the natural
recursion (RNR) is sorted!

TRUST! TRUST! TRUST!



HtDF, through code body

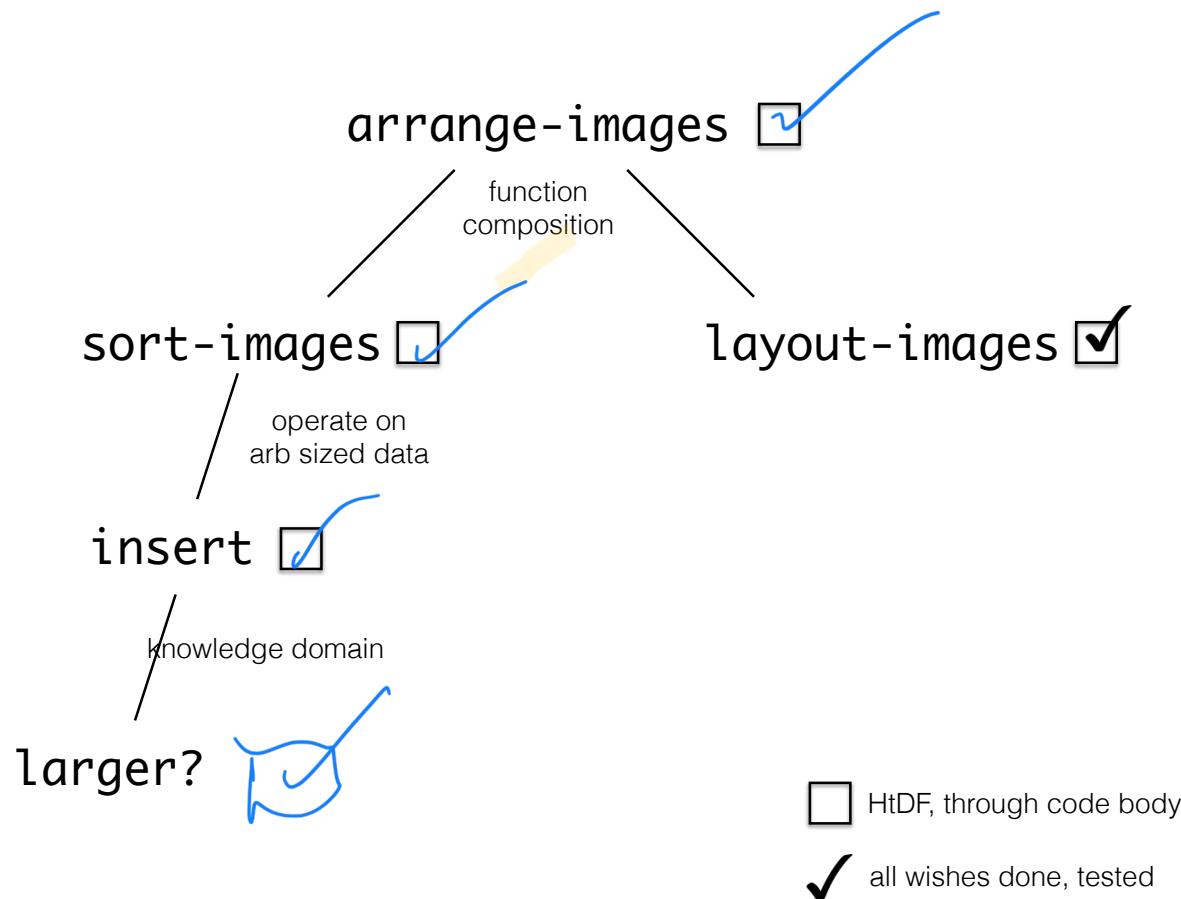
✓ all wishes done, tested

(... ■
 (■ ■ ■))

sometimes img goes
before (first loi)

(... ■
 (■ ■ ■))

sometimes img goes
after (first loi)



HtDF, through code body

all wishes done, tested

~~clear~~

arrange-images

function composition

sort-images

operate on
arb sized data

layout-images

insert

domain shift

larger?

interpretation

HtDF, through code body

all wishes done, tested