TEND TO YOUR KNITTING EVOLUTION OF A DINOSAUR

THE KNITTING:

- Selectra Industries makers of 'Active Wear'
- Knitted on high tech machines
- Management of production a problem
 - yarn to nearly complete garment different from cut 'n' sew
 - tried available software hosiery was close
 - called in dinosaurs

A KNITTING MACHINE

Knitting is done inside the box.

The metal hoops support some of the spools of microfiber yarr



SOME OF THE KNITTING MACHINES AT SELECTRA

Each machine produces a single size garment. Each garment can be knitted with varying degrees of compression. Selectra refers to this as 'body engineering'.



THE DINOSAURS

- systems programmers IBM mainframe
- Rexx a known quantity
- firm's platform was Windows
- so... oorexx
- also oodialog rexxSQL

THE NEW SYSTEM

- dialogs for each major step in the production path
 - sales order entry
 - knitting
 - sewing
 - dyeing
 - &c

THE NEW SYSTEM

- each dialog tended to be large 2-4K statements
- business, presentation and data logic in every program
 - data retrieved from database
 - presented to user
 - updated in database for each function
- it worked, but...

OBJECT ORIENTING A DINOSAUR

- pace of change picks up
 - user experience with early system points up need for changes
 - users stories changed significantly the 90% problem
 - fixed capacities overrun
 - miscommunication between users and developers

A DINOSAUR EVOLVES

- factoring business logic out of dialog code
- creating objects to model processes
- sharing objects between dialogs
- class methods to create instances

typical UI function

::class dyeOrder subclass rcdialog

::initDialog
expose or.
ord.=self~getOrder(okey)
self~displayOrder(ord.)

::method getOrder
dx='select from dye_order_table'
sql_rc=SQLCommand('or',do)
... ... error checking, handling
return dx.

::method displayOrderuse arg dor.... ... set fields, display to user

::method saveOrder

AFTER SOME EVOLUTION...

```
::class dyeOrder
::method orderfromSQL class
use arg key
doq='select ... ... ... from table ... ... where index=key'
inst=.dyeOrder~new(... ... ...)
return inst
::attribute ...
::attribute ...
::method init
use arg ..., ..., ...=default
```

OBJECTS

- eliminate duplicate code
- enable and simplify communication between dialog elements
- enable (somewhat) simpler changes for new user ideas
- help eliminate hard constraints on numbers

QUESTIONS?

• Thanks