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Activities LXTerminal Jun 15 11:45 62°C 29°C LXTerminal
00 IN FORTH: POOR MAN'S OBJECTS

: soort-hond CREATE &h C, &o C, &n C, &d C, ██████████ ;

> soort-hond ? ciforth ERROR # 5 : EMPTY NAME FOR NEW DEFINITION

> soort-hond hond OK

> WORDS
...
D. . ? U. FOR-WORDS FOR-VOCS WORDS EXIT-CODE BYE LIST
INDEX .S ENVIRONMENT? .SIGNON TASK _pad FILL-pad POSITION
#LOCATED (WANTED) WANTED WANT CF: soort-hond hond OK

> ' hond >BODY 4 TYPE hond OK
end of slide 1
```

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Activities LXTerminal Jun 15 11:45 62°C 29°C LXTerminal
00 IN FORTH: METHOD, BEHAVIOUR

.
: soort-hond CREATE &h C, &o C, &n C, &d C, DOES> + C@ EMIT ;
      v-----^

> 0 hond SPACE 1 hond SPACE 2 hond SPACE 3 hond
h o n d OK

> : soort-hond CREATE C, C, C, C, DOES> + C@ EMIT ;
OK

> &h &o &n &d soort-hond hond1
OK

>0 hond1 &| EMIT 1 hond1 &| EMIT 2 hond1 &| EMIT 3 hond1 EMIT CR
d|n|o|h OK

> &k &e &e &s soort-hond kees
OK

>0 kees &| EMIT 1 kees &| EMIT 2 kees &| EMIT 3 kees CR
s|e|e|k OK
end of slide 2
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Activities LXTerminal Jun 15 11:45 8 62°C 29°C LXTerminal
OO IN FORTH: DIFFERENT DATA

> _ _ _ _ class soort-hond C, C, C, C, endclass CR
OK
> &h &o &n &d soort-hond hond
OK
> &k &e &e &s soort-hond kees
OK

> WORDS
...
WANTED WANT CF: FAR-DP SWAP-DP TRIM T] T[ CR$$
FORMAT-WID _plain _format FORMAT FORMAT&EVAL .FORMAT
LAST-IN DP-MARKER NAME$ BLD$ -WORD {BLD BLD} class
M: M; endclass ^soort-hond BUILD-soort-hond soort-hond
hond kees OK

> hond ^soort-hond @ 4 TYPE CR
dnoh OK

> kees ^soort-hond @ 4 TYPE CR
seek OK

end of slide 3
```

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Activities LXTerminal Jun 15 11:45 8 62°C 29°C LXTerminal
OO IN FORTH: COMPARISON to MY OBJECTS

: soort-hond CREATE C, C, C, C,
DOES> + C@ EMIT ;

-- class soort-hond
M: kies-letter + C@ EMIT M;
C, C, C, C,
endclass

> &h &o &n &d soort-hond hond
OK

> &k &e &e &s soort-hond kees
OK

> : kl kies-letter &| EMIT ;
OK

> kees 0 kl 1 kl 2 kl 3 kl hond 0 kl 1 kl 2 kl 3 kl CR
s|e|k|d|n|o|h| OK

end of slide 4
```

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Activities LXTerminal Jun 15 11:45 8 62°C 29°C LXTerminal
OO IN FORTH: GENUINE OBJECTS CAN DO MORE

>
  _ _ _ _ class soort-hond
M: kies-Letter + C@ EMIT M;
M: let4 ." De vierde letter is " C@ EMIT CR M;
M: L4 C@ M;
C,
M: L3 C@ M;
C,
M: L2 C@ M;
C,
M: L1 C@ M;
C,
endclass
> &k &e &e &s soort-hond kees
OK
> kees let4 SPACE
De vierde letter is s OK
> kees L1 EMIT L2 EMIT L3 EMIT L4 EMIT SPACE
kees OK
end of slide 5

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Activities LXTerminal Jun 15 11:45 8 62°C 29°C LXTerminal
OO IN FORTH: AN EXAMPLE FROM MANX MUSICAL NOTATION

"No information available" $, CONSTANT ^no-inf$

\ The overall structure of a score (piece of music).
class SCORE
M: .INFO @ $@ TYPE CR M; \ Print info
M: INFO: ^J PARSE $, SWAP ! M; ^no-inf$, \ Store info
M: DEFAULT SYSTEM-DEFAULT @ EXECUTE M; \ Set defaults
M: DEFAULT: LINE>EXEC SWAP ! M; 'NOOP, \ Compile defaults
M: #PARTS M; 0, \ : NUMBER of parts filled in
\ Add a PARTSTRUCT.
M: ADD-PART #PARTS @ CELLS + ! 1 #PARTS +! M;
\ Select N th part, only make data structure current.
M: SELECT-PART SWAP CELLS + @ EXECUTE M; #16# CELLS ALLOT
\ Contains the last note in the format "bar# * 100000 + mbeat". Any part!
M: R## M; 0,
endclass
SCORE alla-turca
...
0 SELECT-PART
PLAY-PART
end of slide 6

```