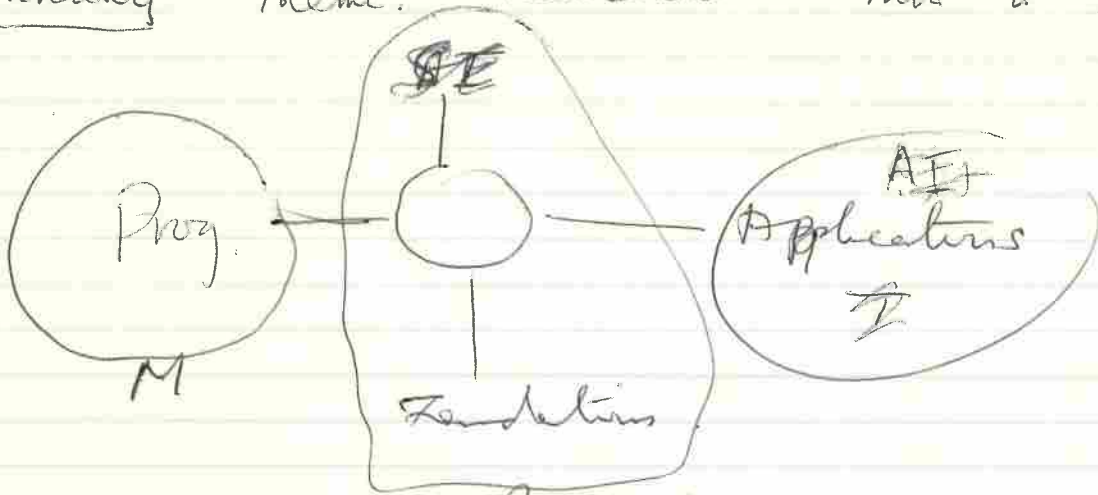


# The Def Prog Renewal

Monday Theme: Orientation. Intro to Tools.



Programming: Backus paper

teason declarative  
procedural

history of OOP.

Brooks:  
Baldwin  
Havel  
Requirements angle.

representing state

script door

integrated with protocols / privilege to change.

concept of DS, model.

0-agent prog.

1-agent prog.

multi-agent prog.

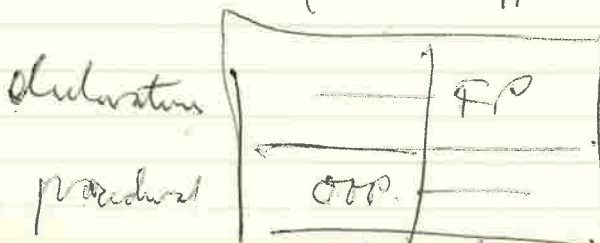
picture

naturally  
concurrent

design vs simulation

History of the project.

Characteristics of the approach



Tuesday. Programming as Modelling

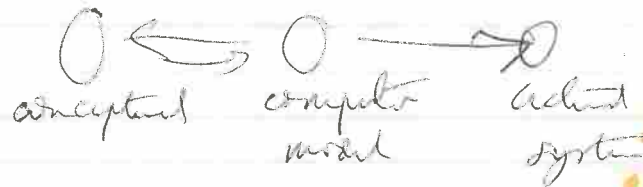
oop, Hard revisited  
reactive system

modelling process  
" model interaction bet. agents w/ "ds" etc.

Synchronisation, indivisibility



~~Modelling~~ engineering design analogy.



VCS in this light

state-based experimental nature of  
modelling process  
model isn't a program

nature of the requirements analysis process

state-based simulation vs state uncertainty

JSD

DOA

observation-based analysis

model your domain  
develop objects first.

# Wednesday Foundations for Programming

Semantics { requirements — what does prog really do?  
implementations — how does prog execute  
what is its behavior on the machine?

programming as the interpretation of states

logicism debate form vs content

Cantelli-Smith # reconstruction of programming

devices as computers { multiply by 9 HAND  
GEO folk done

characteristics of a computational device  
reliability  
modeling atomic operations

semantics of digits w/ indivisible transformations  
state-based correlation to establish reference  
digit vs cabinet

privilege vs commitment to action

convention for observation

what guarantees that works?

experimental ~~basis~~ basis → theory

Bertrand Russell quote

cf. logical mathematical variables

history: Russian math historian