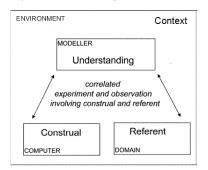
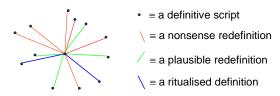
Empirical Modelling as Construction

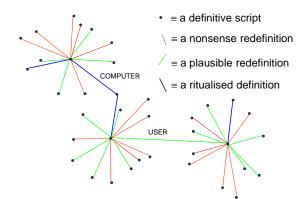


Definitive scripts as "furry blobs"

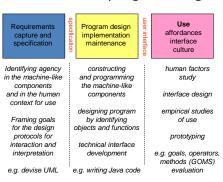


Plausible: could open the desk drawer

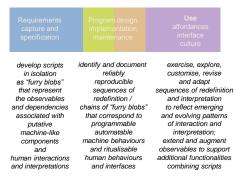
- note continuous spectrum of redefinitions
Ritualised: door automatically closes after being opened
Nonsense: opening the drawer makes the room smaller



Traditional programming



Empirical Modelling

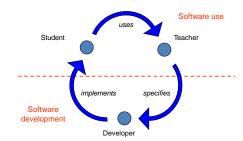




An Experiential Framework for Learning (EFL)

IEDC 200

Developing educational software

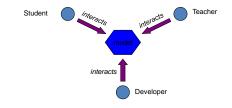


Perspectives of educational software

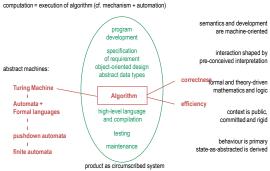
- Student vs teacher vs developer
- · Mind-centred vs reality-centred
- Software development vs software use
- ➤ How can we bring together these different perspectives? Why?

Empirical Modelling (EM)

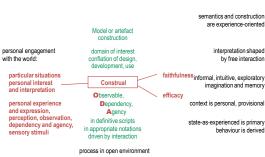
 Offers a set of principles for model building in any of the student, teacher and developer roles:



Focus of conventional Computer Science



Empirical Modelling: a broader view of computing computation = making sense of phenomena observation and experiment and information processing (human computing)



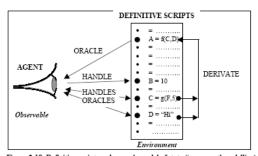


Figure 2-18: Definitive script as observer's model of state ('one-agent' modelling)

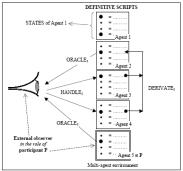


Figure 2-19: Definitive script as observer's model of state ('multi-agent' modelling)