



Shape_Type =

shape: {circle, line, rectangle} x, y: Nat – position of centre wid: Nat ht: Nat – size of shape







defining state

two problems:

- too little state elements missing from specification may be deliberate e.g. dialogue level spec.
- · too much state too many states, too complex state may be deliberate redundancy, extensibility

too little state

· forgotten elements

e.g. 'typing' flag for calculator

checking:

- dialogue state can you work out current dialogue state?
- action specification do you have enough information?
- implicit global variables (see also later) suggest state missing

too much state

• unreachable states too few actions (see later) constraints

states are not orthogonal

- spare variables: constant/functional dependent
- · dependent state
- e.g. first point of line, number being typed
- · indistinguishable states what is observable?

defining actions

- framing problems
 - = too little in result state
- unreachable states insufficient actions
- using 'global' variables implicit in operation definition
- beware extreme cases (e.g. empty document, cursor at end of line)