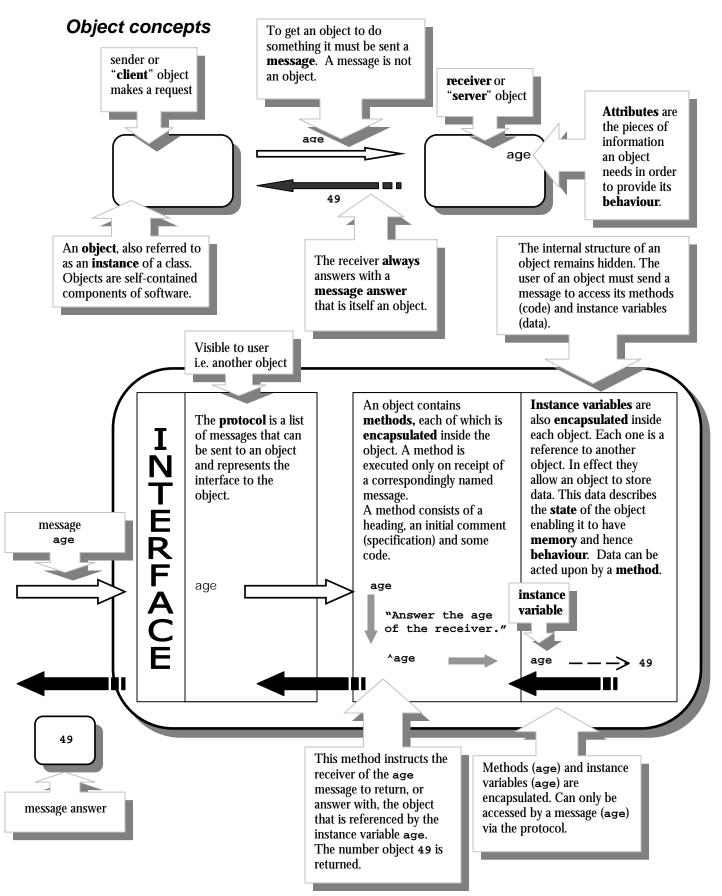
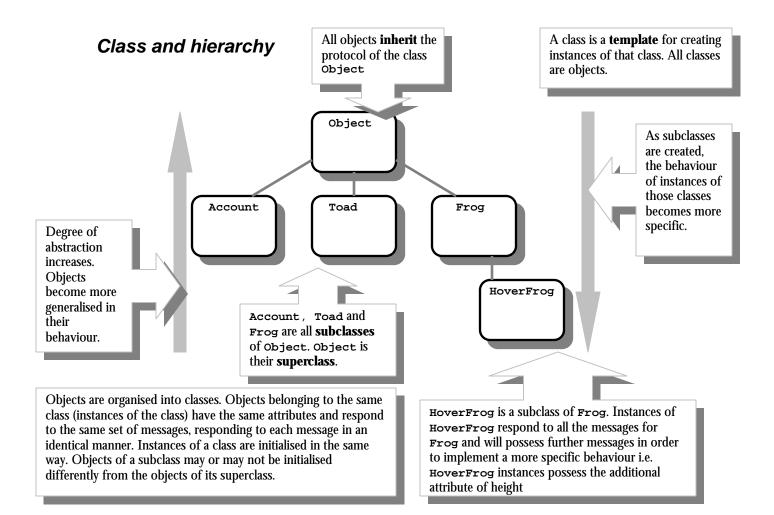
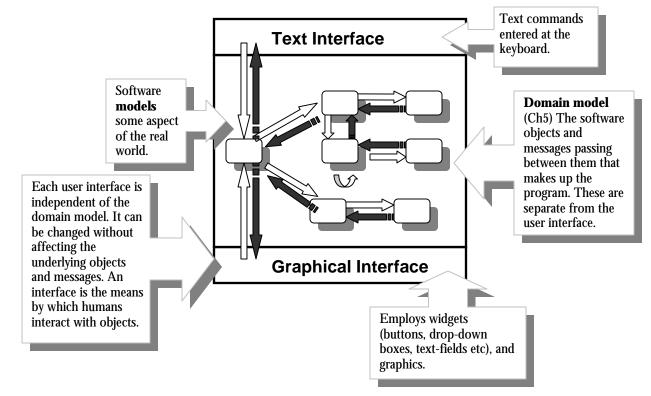
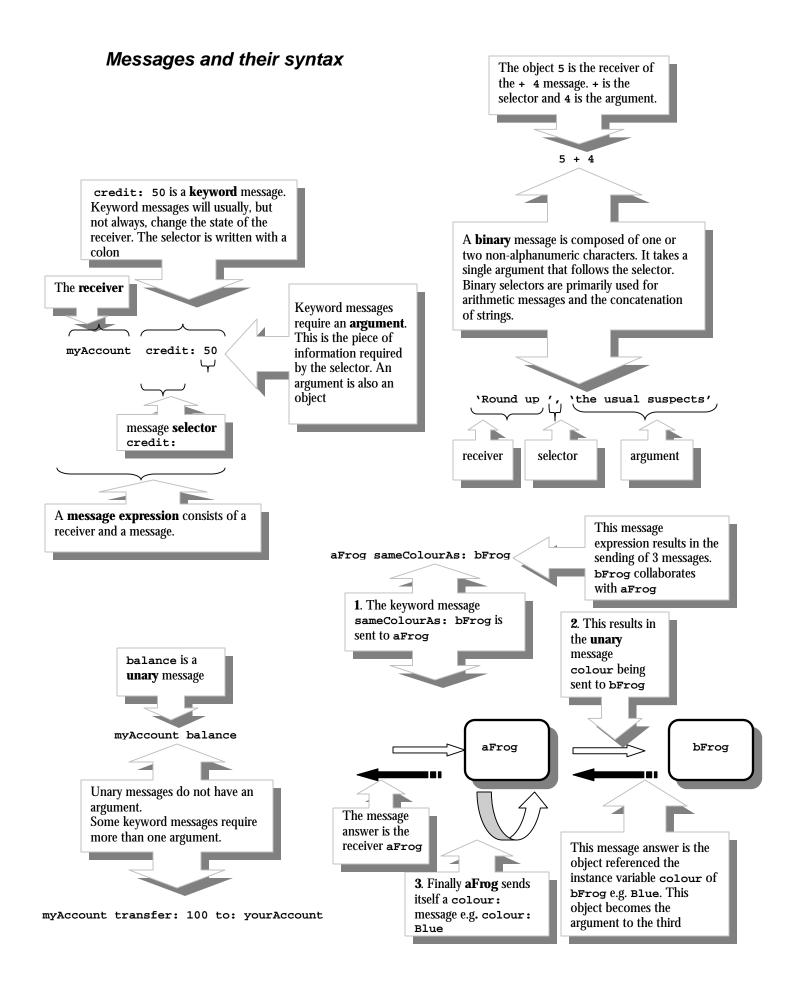
# **Basic Smalltalk**

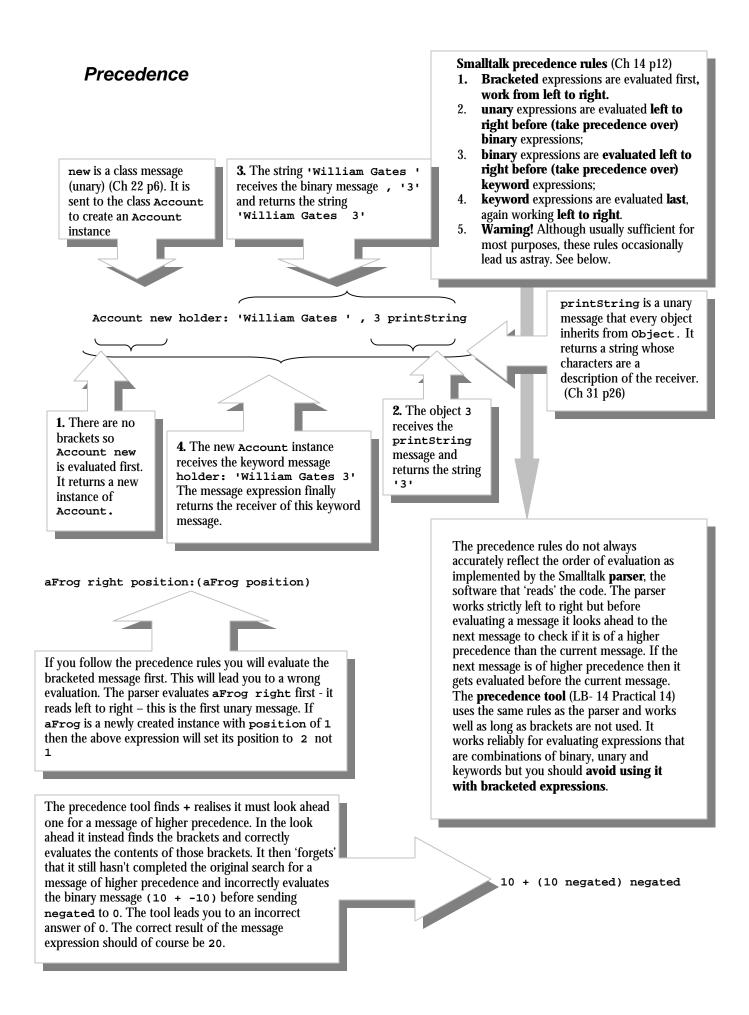




### Domain models and user interfaces

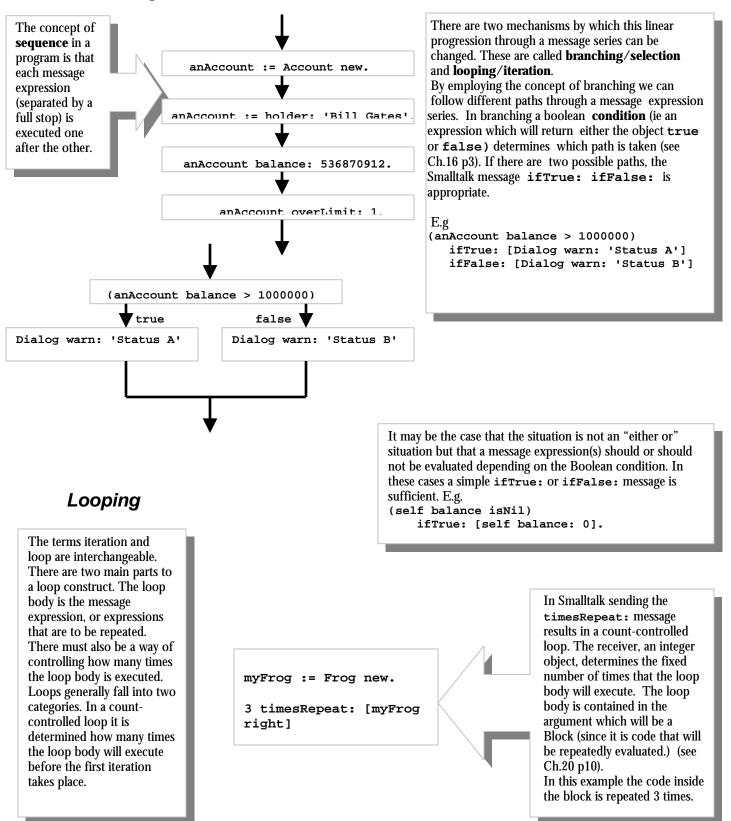






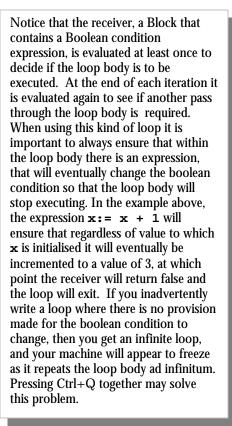
## **Structuring Smalltalk**

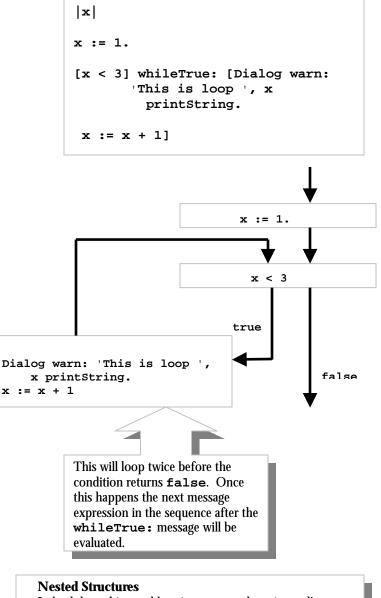
#### Branching



### Looping continued

The second kind of loop is event-driven, whereby an event happens inside the loop that leads to the halting of execution. In Smalltalk the messages whileTrue: (Ch 20 p11) and whileFalse: (Ch 31 p19) cause the loop body inside the argument block to be repeatedly executed whilst the condition in the receiver block returns true, in the case of whileTrue:, or returns false in the case of whileFalse:.





In both branching and looping you may have 'nested' structures. That is loops and branches that are themselves within loop and branch bodies. In these cases, proper indentation is helpful in signposting the structure of the code.

```
(anAccount balance >= chequeAmount)
ifTrue: [
    Dialog warn: 'Pay cheque']
ifFalse: [
    ((anAccount overLimit + anAccount balance) >= chequeAmount)
    ifTrue:[
    Dialog warn: 'Overdraft needed']
    ifFalse:[
    Dialog warn: 'Bounce cheque']]
```