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# Modeling Software

- Multiple Models
- Black and White Boxes
- Software Entities and Relationships
- Views: Classifying Models

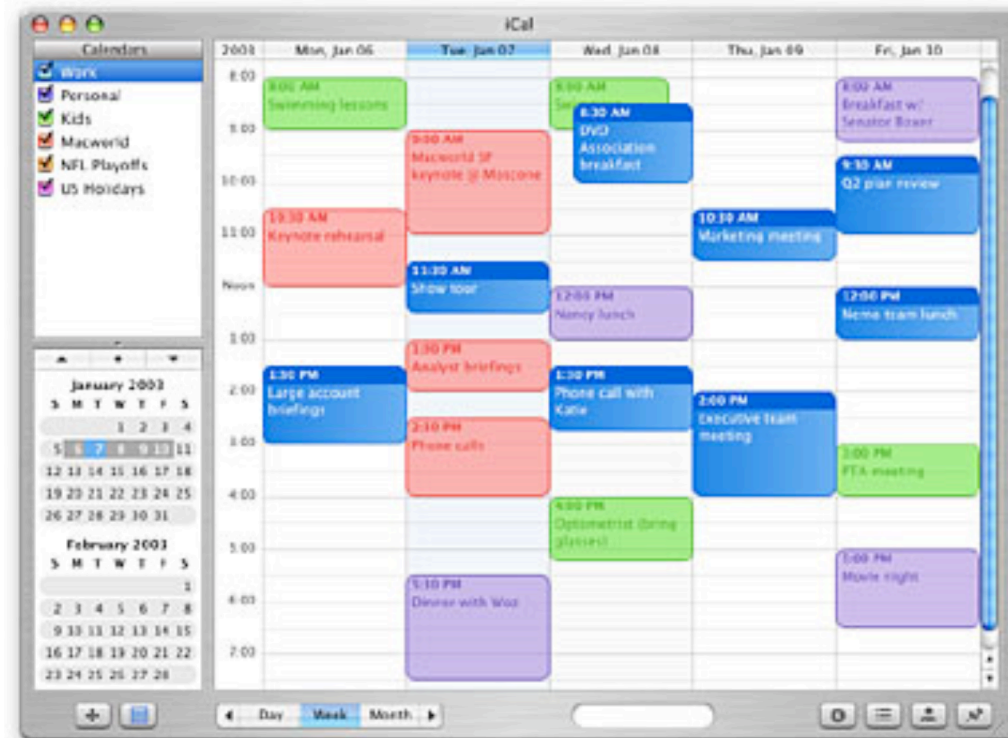
## Design

models  
boxes  
entities  
classifying

*A design* is  
a model or set of models  
of a projected construction  
produced by a deliberate process.

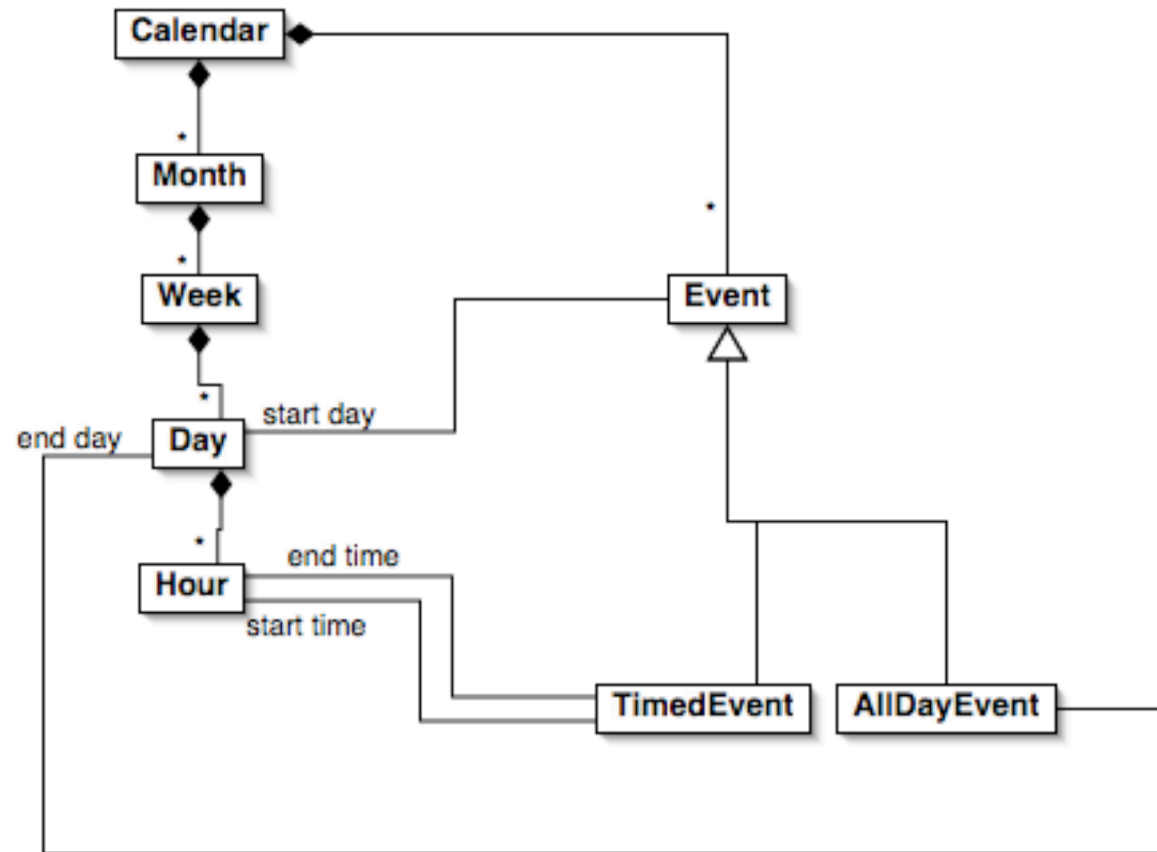
# iCal Screen Shot

models  
boxes  
entities  
classifying



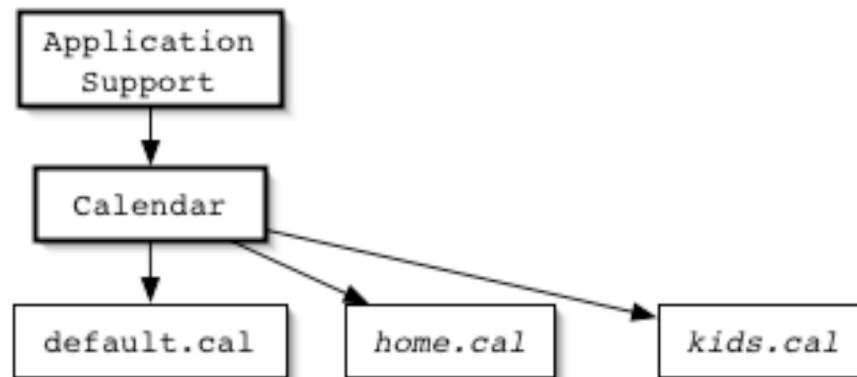
# Calendar Data Model

models  
boxes  
entities  
classifying



# Calendar: Repository Model 1

models  
boxes  
entities  
classifying



directory

data file

environment variable

Names in oblique font are typical.

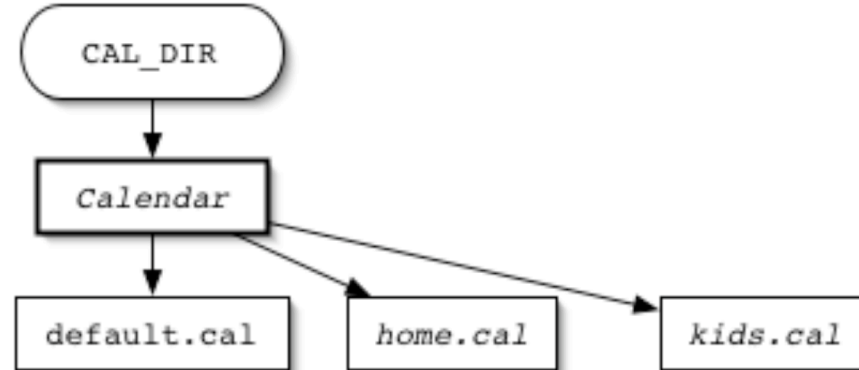
Names in regular font are constants.

— contains —>

— refers to —>

## Calendar: Repository Model 2

models  
boxes  
entities  
classifying



directory

data file

environment  
variable

Names in oblique font  
are typical.

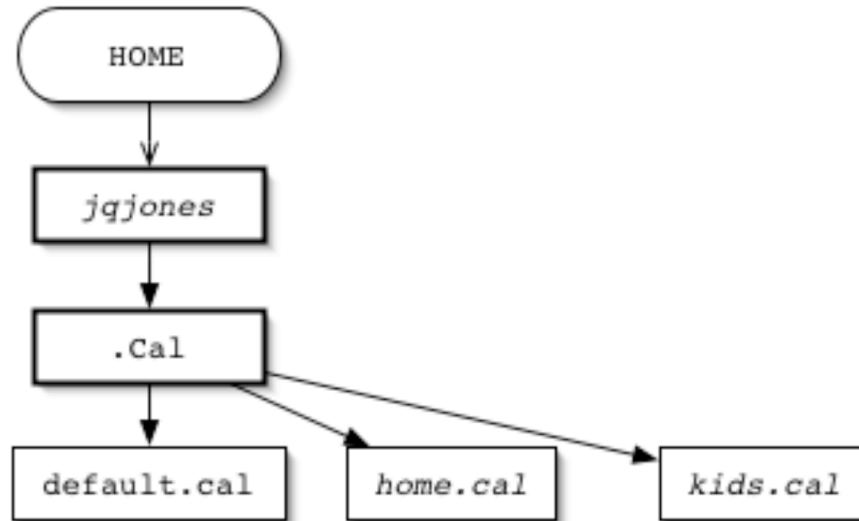
Names in regular font  
are constants.

— contains —>

— refers to —>

# Calendar: Repository Model 3

models  
boxes  
entities  
classifying



directory

data file

environment variable

Names in oblique font are typical.

Names in regular font are constants.

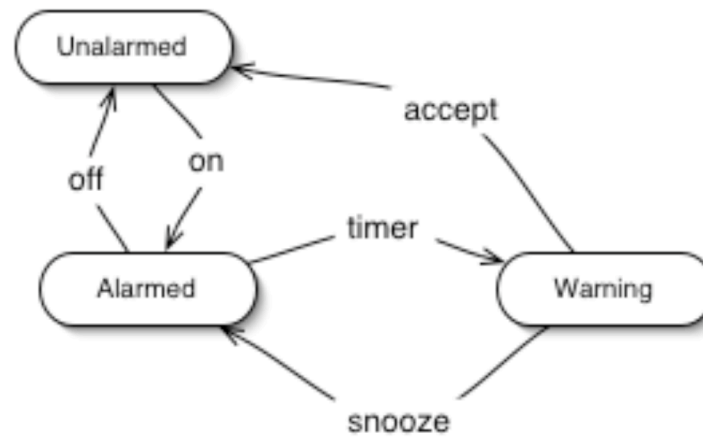
— contains —>

— refers to —>



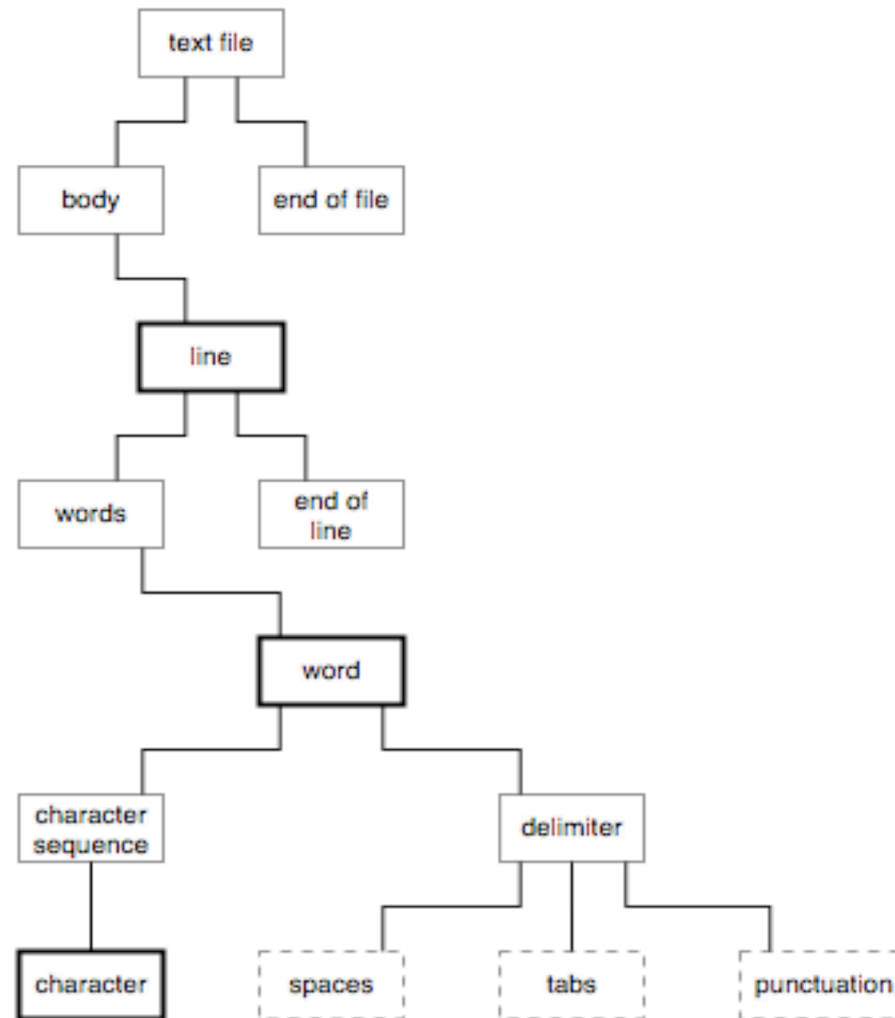
# Calendar: Event State Transition

models  
boxes  
entities  
classifying



# Black-Box Model: Structure Chart for Text File

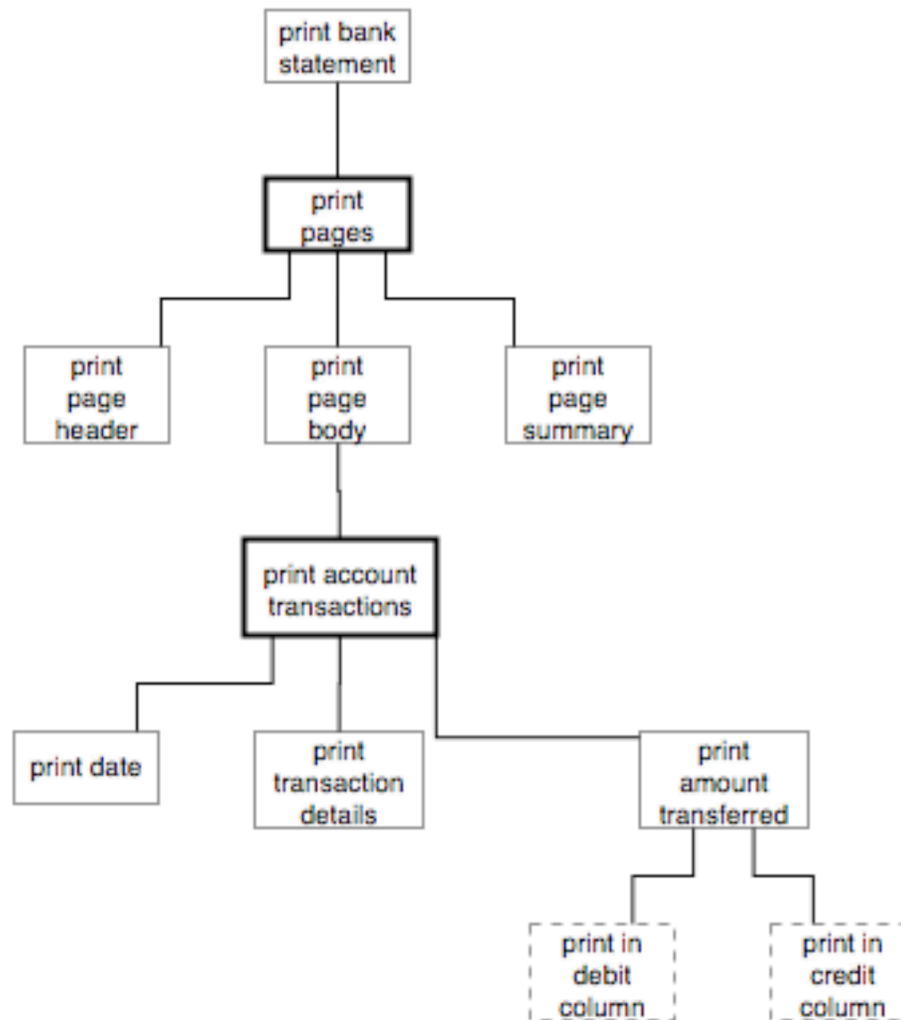
models  
boxes  
entities  
classifying



[Budgen p 151]

# White-Box Model: Structure Chart for Program

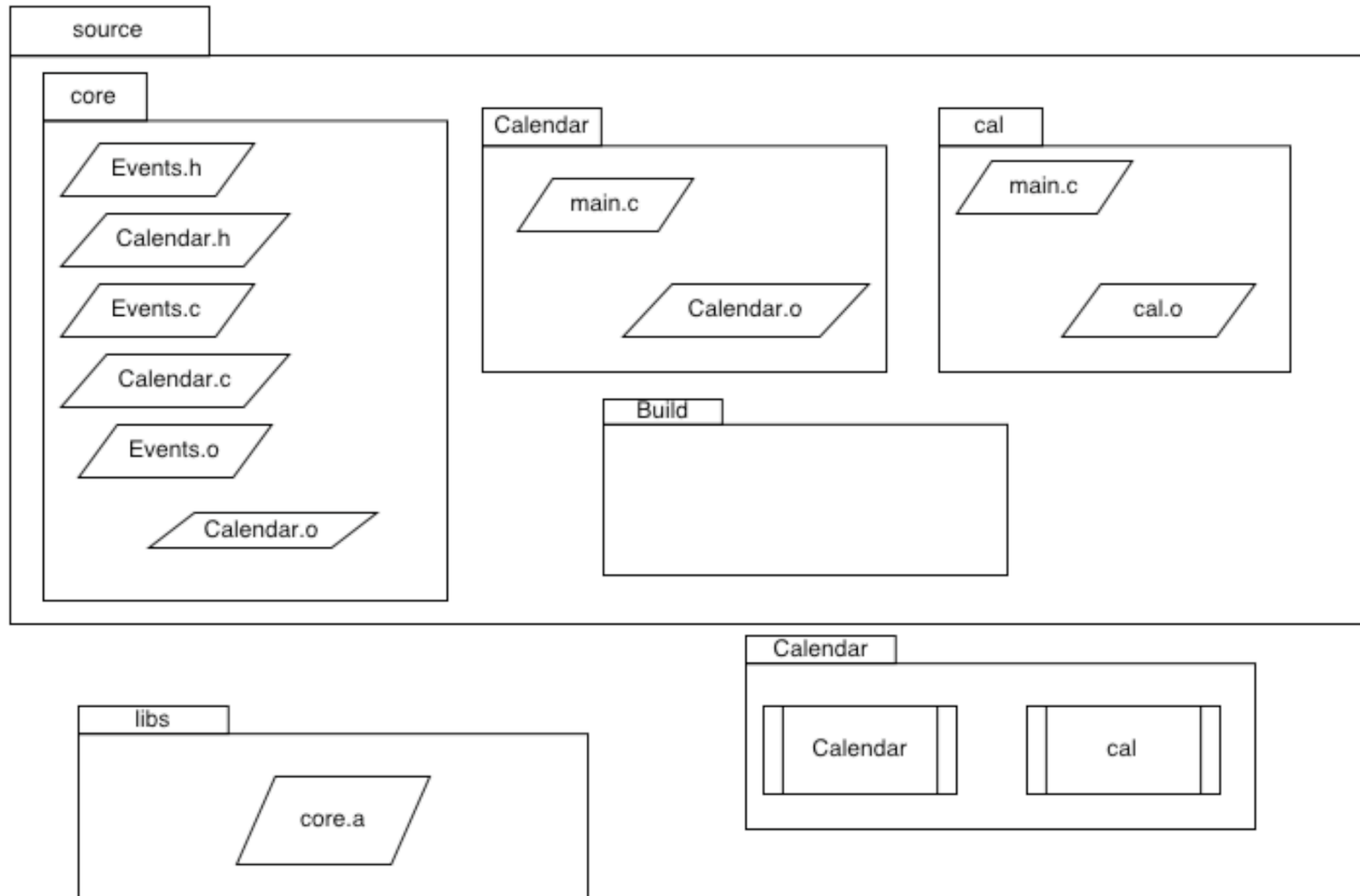
models  
boxes  
entities  
classifying



[Budgen, p 152]

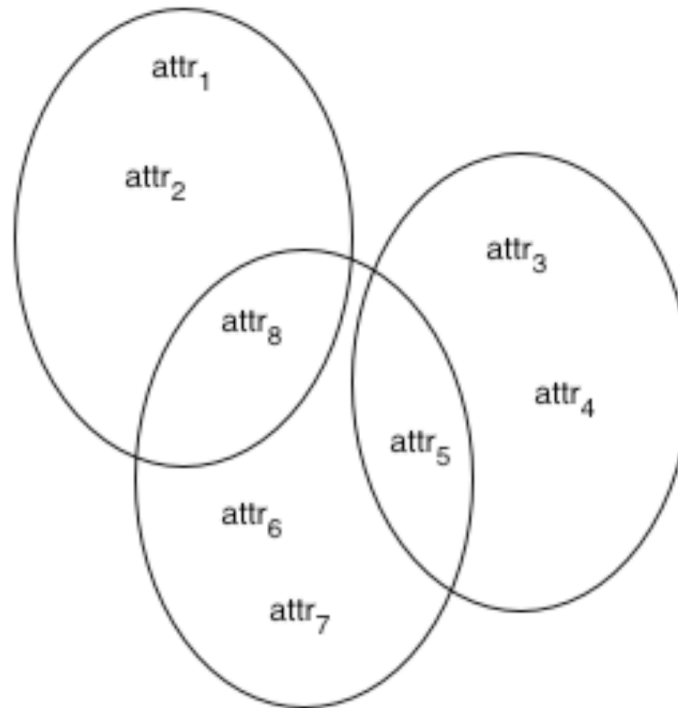
# Calendar: Source Base

models  
boxes  
entities  
classifying



# Resolving Attributes

models  
boxes  
entities  
classifying



# Views in the Design Process

models  
boxes  
entities  
classifying

