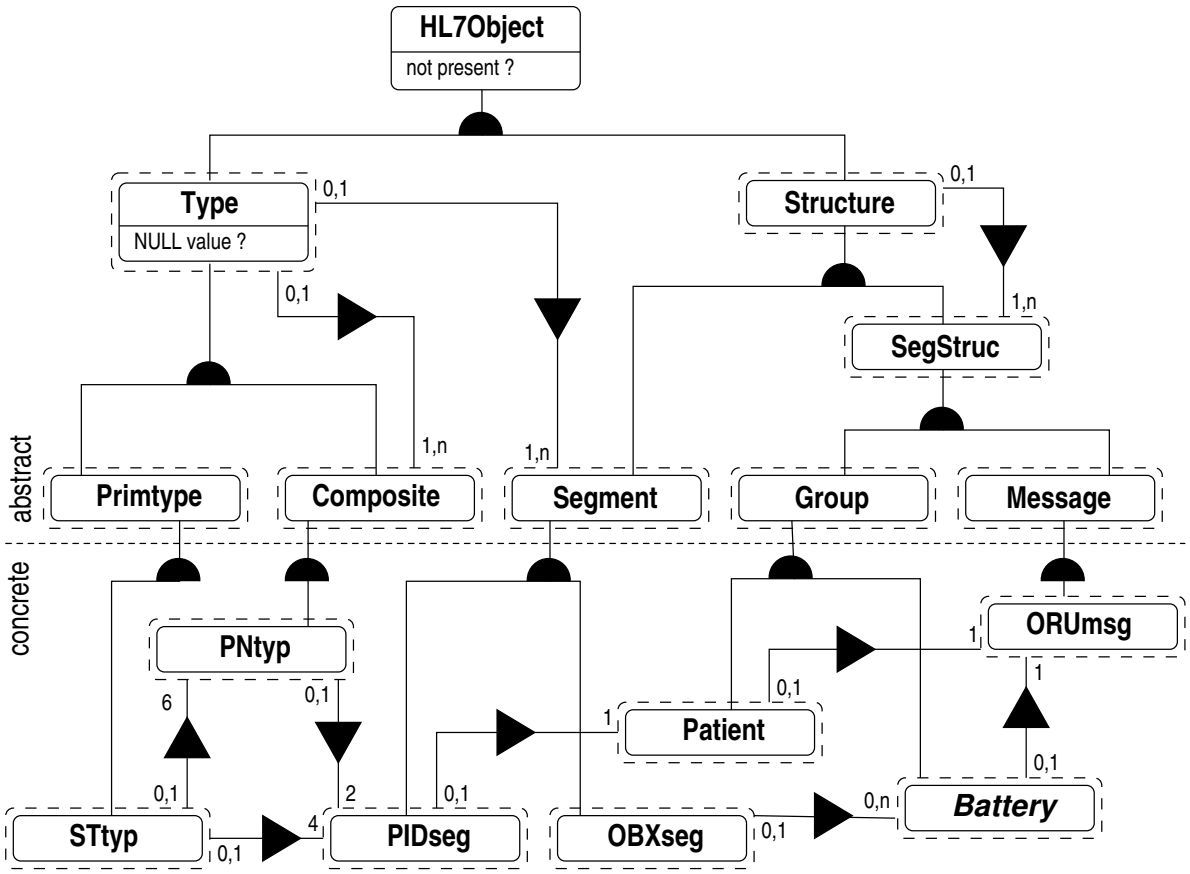
$Id: 10-conceptual-model.fig,v 1.2 1997/01/18 21:11:52 gunther Release $, © 1997 by Gunther Schadow, all rights reserved.

An object oriented model of HL7



with straightforward mapping to C++.

Messages, segments, and types are classes,
their components are variable members.
Presentation functions are inherited from the root class as methods,
and implemented by the respective abstract class.
Abstract classes and primitive data types are implemented manually.
Composites, segments, and messages are implemented automatically.

ProtoGen/HL7 is directly based on a conceptual model of HL7.
Application programmers immediately deal with these concepts.
Details of the implementation are hidden behind the class interfaces.
Compatibility to C allows efficient use of operating system resources
which is vital for communications.