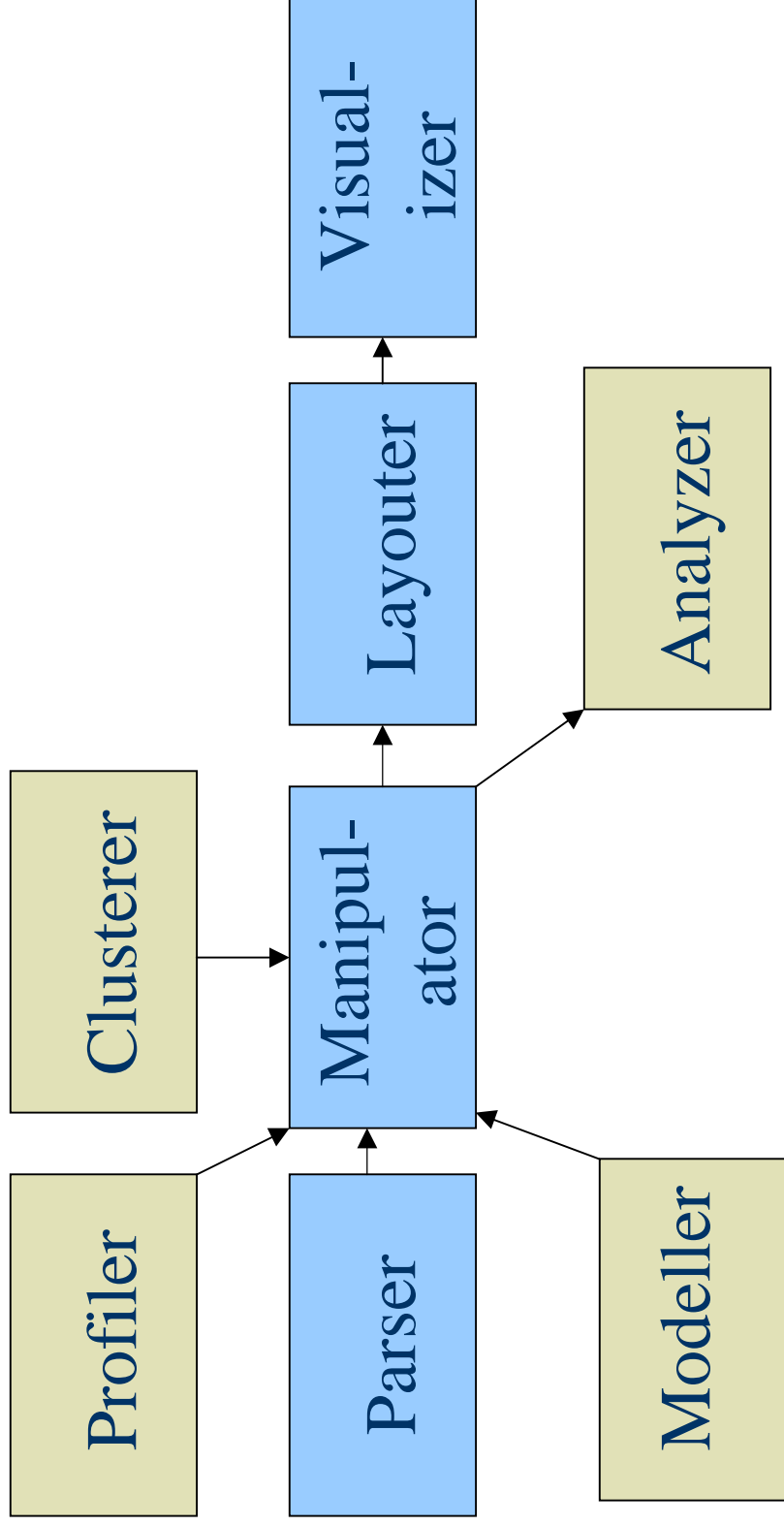


WoSEF: Workshop on Standard Exchange Formats

ICSE 2000 Workshop

Ric Holt

Interconnection of Tools



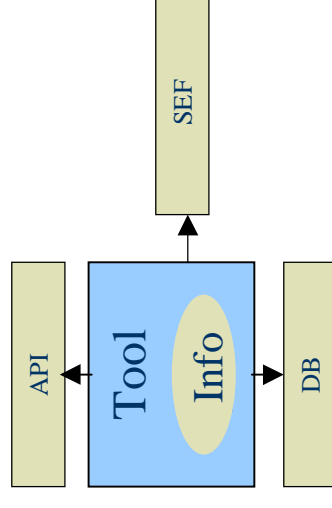


What Areas Need SEFs?

- Software Reverse Engineering
- Software Design & Modelling
- Graphs
- Compilers
- ... *etc ... etc ...*

How Can Tools Interconnect?

- Stream (SEF)
- API
- DB/Repository
- Marked-up Source
- ... *etc ... etc ...*



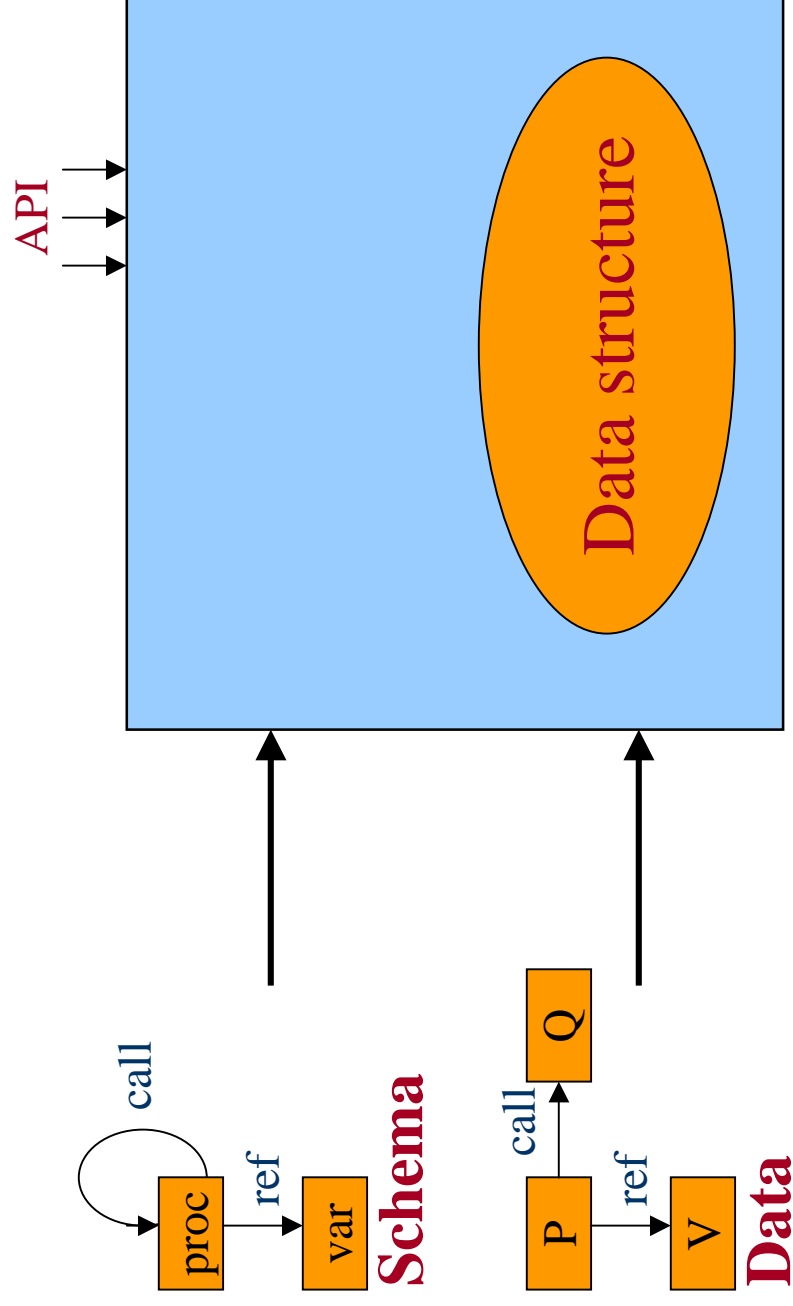
Granularity & Source Languages

- High level: Architectural level
- Middle level: e.g., External declaration
- Low level: AST
- C++, C
- Java
- Cobol

Levels of Syntax & Schemas

- E/R schema (UML class diagram), to restrict edges, nodes and attributes
- DTD: Syntax of XML, could restrict XML to represent a **typed graph**

Schema, Describing Data



Multiple Schemas



Criteria for Success [Muller++]

- Handles different granularities & different languages
- Scales up to MLOCs
- Maps to src code
- Incremental
- Universal & standardized
- Extensible
- Has enthusiastic supporters
- Early and clear win for adopters