Boundaries

Drawing lines between things that matters and things that don't

- Boundary lines between the core business rules and irrelevant plugins
 - the GUI and the business rules
 - the GUI and the database
- Boundary is often drawn across the inheritance relationship
- Dependency arrows across boundary lines
 - From lower-level details to higher-level abstractions
 - Always toward the core business

Boundary AnatomySeparate components in different forms

- Boundary crossing
 - Function calling the APIs implemented in the other components
 - Managing the source code dependencies
- Forms
 - Monolith delivered as source code
 - A function call from low-level client to a higher-level service
 - Both runtime and compile-time dependencies are toward the higher-level component
 - Communications between components can be chatty, but very fast and inexpensive
 - Dynamically linked library (DLL) delivered in binary
 - All functions exist in the same processor and address space
 - Communications between components can be chatty, but very fast and inexpensive
 - Local processors built based on monolith or DLL
 - Running in different address spaces, sharing nothing,
 - Communication among processes through sockets or message queues or mailboxes, can be moderately expensive
 - Services strongest boundary
 - All communications are over the network, so it is very expensive