

Role Analysis

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What is a role system?

- Extension of the type system
 - Runs at compile time
- Roles change during execution of the program
- Roles capture both properties that change and the ones which don't
- Inter and intraprocedural analysis

Why roles?

- Express data structure consistency properties
- Improve precision of procedure interface specifications
- Express precise referencing and interaction behaviors between objects
- Express constraints on movement of objects between data structures