Project Collaboration

**Content:**
- Semantic Technologies Laboratory (UofT)
- Michael Gruninger custodian of COLORE content

**Software:**
- Kojeware Corporation
- Cameron Ross custodian COLORE software
Samian Translation Framework

- Parse
- Source AST
- Transform
- CL AST
- Load
- CL Abstract Syntax Model (CLASM)
- Emit
Samian Platform Architecture

- Resource-Oriented Repository
- CLIF Translator
- CGIF Translator
- OWL Translator
- TPTP Reasoner
- Metrics Analyzer
- CL Abstract Syntax Model (CLASM)
- SuoKif Translator
- CLCE Translator
- CycL Translator
- OpenCyc
- CL Reasoner
- DataNucleus Access Platform
COLORE System Architecture

Google App Engine

Java Web Container

Restlet Framework (RESTful Web Services)

Google Users Service

Spring Framework

Samian Platform

Resource-Oriented Repository

CLIF Translator

CGIF Translator

OWL Translator

TPTP Reasoner

Metrics Analyzer

CL Abstract Syntax Model (CLASM)

DataNucleus Access Platform

Google BigTable

CLCE Translator

SuoKif Translator

CLCE Translator

CycL Translator

OpenCyc

CL Reasoner
Programmatic Interfaces

- **Object-Oriented Interface:**
  - based on the visitor design pattern
  - separates structure from operations over structure
  - used by operations requiring intimate access to CLASM
  - NOT intended as an RPC interface

- **Resource-Oriented Interface:**
  - abstracts application state into a set of resources
  - define identifiers for these resources
  - define a small set of operations on these resource
  - implement operations using a stateless C/S protocol
  - used for managing resources
  - intended as an RPC interface
Common Logic Resource Model

- **Common Logic Resources:**
  - named texts
  - modules
  - interpretable names (enclosed names, name character sequences)

- **Resource Naming Strategy:**
  - globally unique, persistable, location independent
  - Universal Resource Names (URNs)
  - register oor with IANA as a Namespace ID
  - OOR initiative would manage namespace
  - named text: `urn:oor:colore:psl:psl-core`
  - interpretable name: `urn:oor:colore:psl:psl-core:before`
  - interpretable names become verbose
  - URN resolution requires more consideration
Project Coordinates

**COLORE:**
- Google Code project
- SVN, Wiki, discussion list, issue tracker, release downloads
- [http://code.google.com/p/colore](http://code.google.com/p/colore)
- [http://creativecommons.org/licenses/by-sa/3.0](http://creativecommons.org/licenses/by-sa/3.0)
- 159 CLIF files

**Samian Platform:**
- Eclipse Labs project
- SVN, Wiki, discussion list, issue tracker, release downloads
- [http://code.google.com/a/eclipselabs.org/p/samian-platform](http://code.google.com/a/eclipselabs.org/p/samian-platform)
- CLIF translator, CLASM object model, SuoKif translator...
Current Considerations

- **Technical:**
  - investigating CL namespacing
  - designing CL resource model
  - looking for a CL reasoner
  - building CL specific tooling
  - analyzing BioPortal architecture
  - analyzing OOR requirements

- **Administrative:**
  - seeking project funding
  - recruiting project contributors
  - populating project websites
  - identifying synergies