

Ray Fergerson
Stanford

Past

- Ancient History (1985-1997)
 - Mark Musen's Thesis
 - Protégé-II, Protégé/Win
 - "Workshops" 1-2
- Modern Era (1997-2003)
 - Protégé in Java
 - Workshops 3-6

Mark's Thesis

- PROTÉGÉ system
- Developed as a tool for building knowledge-acquisition tools (a meta-tool) for medical planning applications
- Hardcoded Ontology (or meta-ontology) geared for planning applications
- Written in Lisp, Ran on Lisp machines
- User community: ~1

Protégé-II

- Generic meta-tool
 - No hardcoded ontology
 - No assumptions about "planning"
- Constructed as three distinct applications:
 - ontology editing
 - form customization
 - instance creation
- Written in Objective-C, Lisp..., Ran in NextStep
- User community ~10

"Workshop" 1 — June 1995 Pavia, IT

- Four guys from four different countries meeting in a pizza restaurant
- Conclusions:
 - The pizza in Italy is really good
 - Too much Chianti makes discussing ontologies difficult

Protégé/Win

- DARPA funding
 - required MS Windows reimplementation
- Protégé/Win
 - Same three applications as Protégé-II
 - Written in C++, ran on Windows 95+
- User community ~100

"Workshop" 2 — March 1996 Stanford, US

- Decided to re-implement Protégé/Win as a framework into which user-created plug-ins could be added.
 - domain-specific slot widgets
 - read/write data to other file formats
- Decided to adopt Java programming language

Workshop 3 – Sept. 1997

Lidingö, SE – Henrik Eriksson

- Prototype of new system: Protégé/Java
- Described ability to add tabs
- Subsequently decided...
 - We haven't gone "far enough" to integrate with other knowledge-base systems such as Ontolingua, CYC, and Loom
 - To adopt Generic Frame Protocol (OKBC) as our knowledge model
 - Throw away previous work and start over

Workshop 4 – July 1999

Linköping, SE – Henrik Eriksson

- Protégé-2000 Release 1.0
- Users demonstrated:
 - new domain independent slot widgets
 - tab widgets

Workshop 5 – July 2001

Newcastle, UK – Neil Jones

- Protégé-2000 1.6 (almost) released
- Free
- Open source
- Growing and diverse user community
 - 1000 registered users

Workshop 6 – July 2003

Manchester, UK – Alan Rector

- Protégé-2000 1.9 (almost) released
 - Protégé 2.0 promised for "fall 2003"
 - delivered in February, 2004
- Multiuser client & server
- Reimplemented Diagram/GraphWidget
- OWL Plugin Beta
- Almost 10000 registered users

Present

- Staff
- Mailing Lists
- User community
- Funding
- Release schedule
 - Since last workshop
 - Going forward

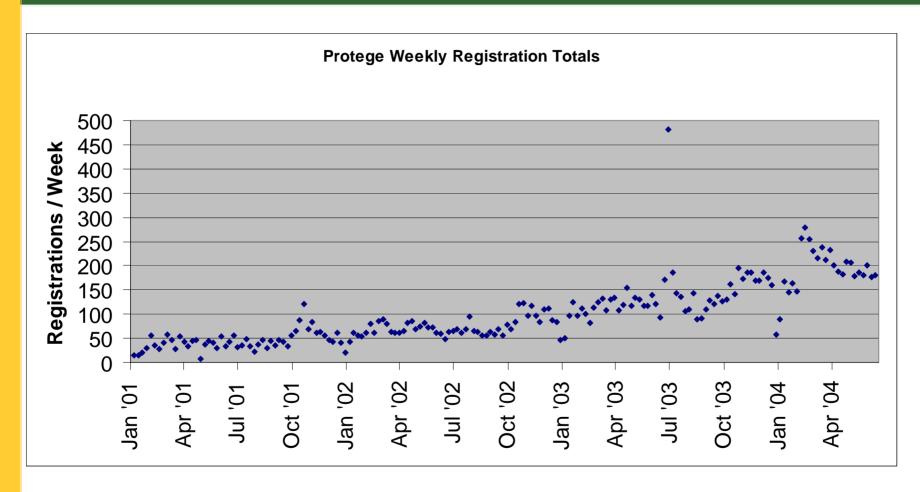
Protégé Team

- Research
 - Monica Crubézy
 - Olivier Dameron semantic web tech, modeling principles
 - Holger Knublauch
 - Natasha Noy
 - Daniel Rubin biomedicine, imaging, NLP
 - Samson Tu
- Administration
 - Ted Hopper making sure things run smoothly
- Development
 - Ray Fergerson
 - Jennifer Vendetti

Mailing Lists

- protege-discussion
 - 2300 members
 - 9700 messages
- Created protege-owl mailing list
- Messages viewable as newsgroups, html http://gmane.org

User Community

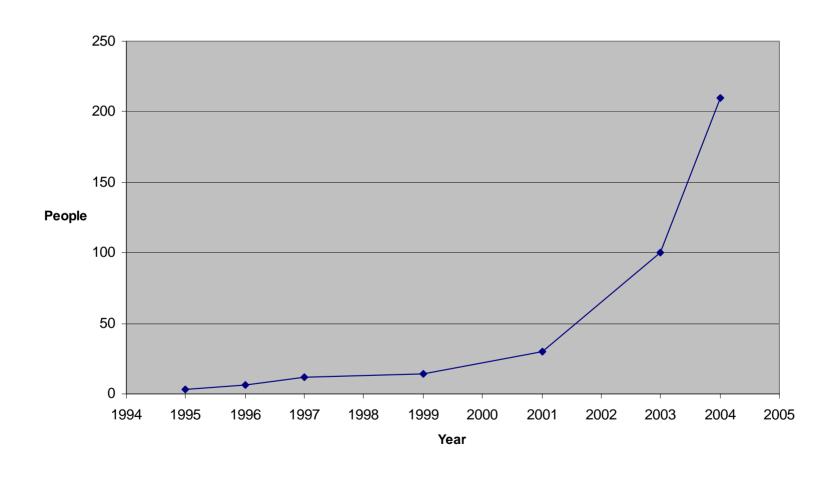


Total Registered Users: ~20000

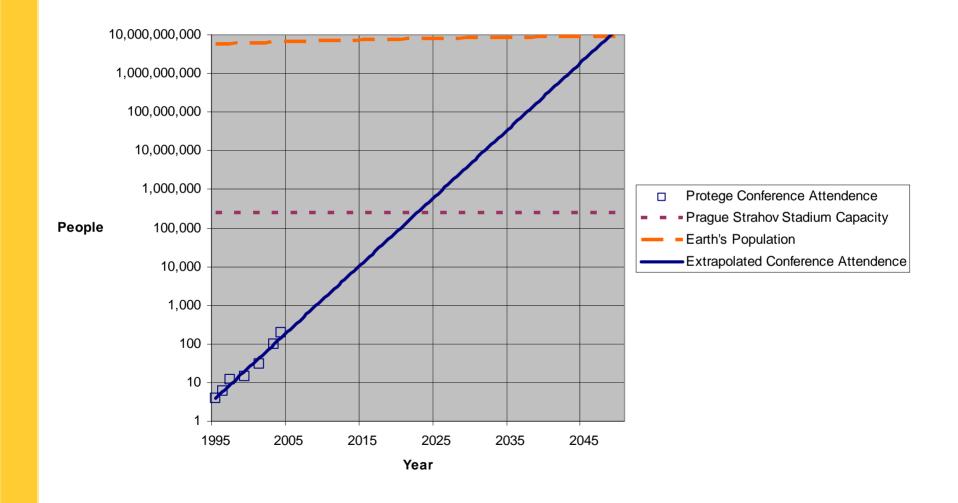
2004 Conference Attendees

Academic	75
Commercial	72
Government	45
Non-Profit	17

Conference Attendance



Extrapolated Conference Attendance



Funding

- National Library of Medicine
 - Resource Grant: "National Resource for Biomedical Ontologies and Knowledge Bases"
- National Cancer Institute Center for **Bioinformatics**
 - Development Contract

- Protege Affiliates:
 - Daimler-Chrysler





Since Last Workshop

- Release 2.0 & 2.1
- Multiuser client & server
- Support for ~5M frames
- Web Browser Interface
- OWL Support
- Improved support for plugins
 - Bundling
 - Isolation
 - Built-in About Box and Documentation support

Future

- Continuing evolution of standard framebased and OWL Plugin systems
- User-Interface Improvements
- Infrastructure Improvements
- Schedule "Improvements"

Core and OWL Plugin Systems

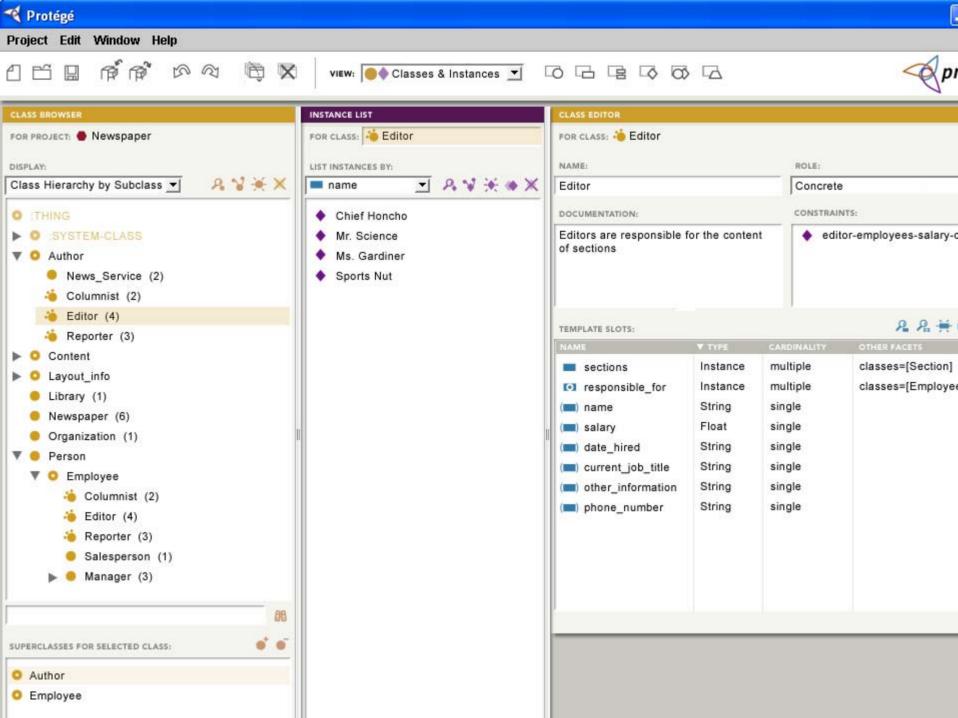
- OWL Plugin DL support layered on top of the core OKBC frame support
 - Allows conversion between two systems
 - Poses a number of development challenges
 - Provides advantages of giving users:
 - Choice of simpler frame-based or DL interface for editing OWL
 - Access to a variety of plugins
- Plan continued parallel system development and evolution

Retirement Announcement



User Interface Improvements

- Application Changes
 - Cleaner
 - More Attractive
 - More Professional
 - Easier to Learn
 - Easier to Navigate
- Web Site Changes "ditto"



Infrastructure Improvements

- More Flexible Inclusion
 - Extensions of included frames
 - Database inclusion
- Namespaces
 - already in OWL Plugin
- Internationalization Support
 - Localization
 - Alternate names & values

Schedule "Improvements"

- Now aim for two releases/year
 - Before conference (June)
 - ~6 months later
- Betas releases roughly weekly
- Compromise between:
 - "constant updates"
 - "too long before bugs get fixed"

Conference 7 Wish List

• ??? (Come back on Friday at 11:00 am)