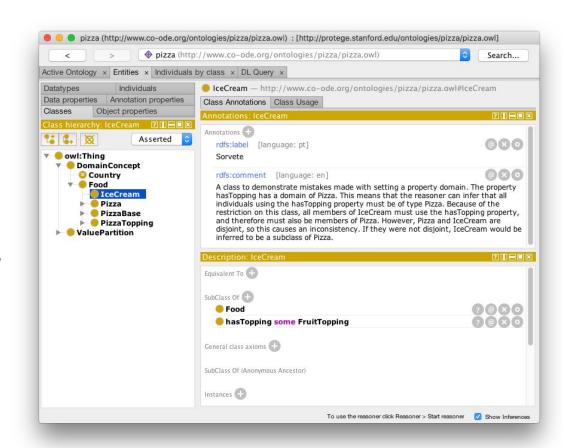
Introduction to Protégé

Tania Tudorache

Protégé Short Course 29 – 31 March, 2017 Stanford University

Protégé basics

- Open source Java tool
- W3C standards:
 - OWL 2, SPARQL
- Automated reasoning
- Active large community
- Customizable user interface
- Pluggable architecture



The Protégé website

http://protege.stanford.edu



Downloading Protégé

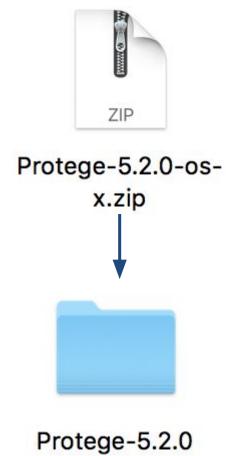
Protégé Desktop is a feature rich ontology editing ✓ W3C standards compliant environment with full support for the OWL 2 Web ✓ Customizable user interface Ontology Language, and direct in-memory connections to description logic reasoners like √ Visualization support Platform specific HermiT and Pellet. ✓ Ontology refactoring support release (includes Java) Protégé Desktop supports creation and editing of one or more ✓ Direct interface to reasoners ontologies in a single workspace via a completely customizable user interface. Visualization tools allow for interactive navigation ✓ Highly pluggable architecture of ontology relationships. Advanced explanation support aids in ✓ Cross compatible with WebProtégé tracking down inconsistencies. Refactor operations available including ontology merging, moving axioms between ontologies, rename of multiple entities, and more. Download for Mac OSX Documentation + Resources Download platform independent version (requires a Java Runtime Environment) Older versions » Platform independent Older Protégé releases



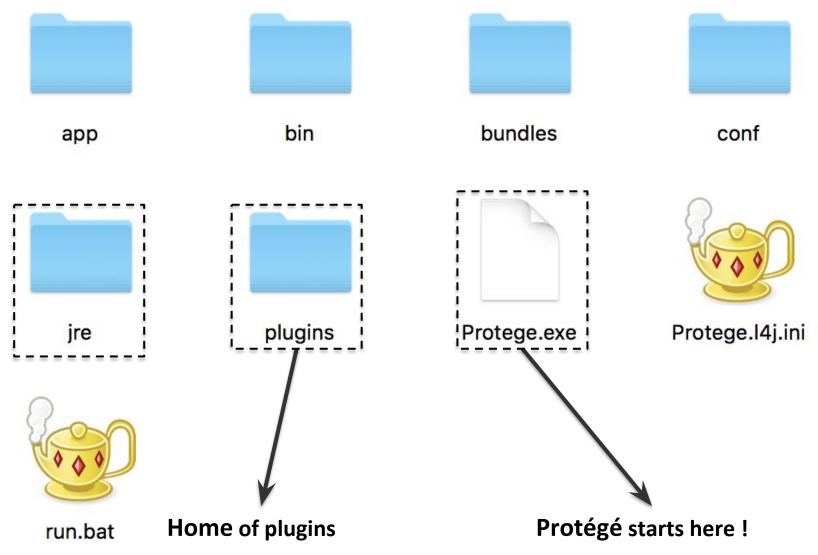
release (no Java)

After downloading Protégé

- A compressed archive is stored locally
- Extract contents of the archive
- New folder will appear:
 - "Protege-5.2.0"



Protégé folder (platform-specific)

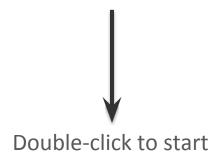


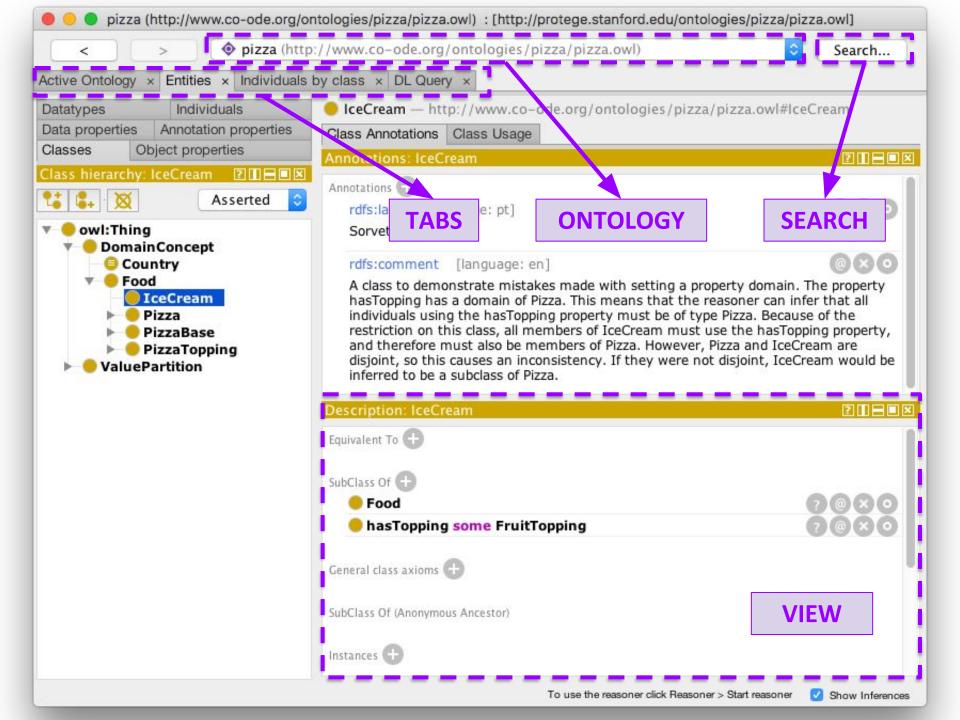
6

Protégé folder (on Mac OSX)



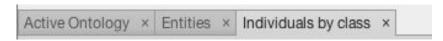
Protégé





User interface

Tabs

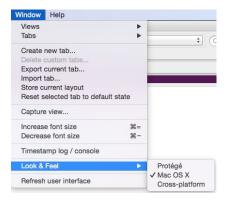


Top level view elements E.g., 'Active Ontology', 'Entities'

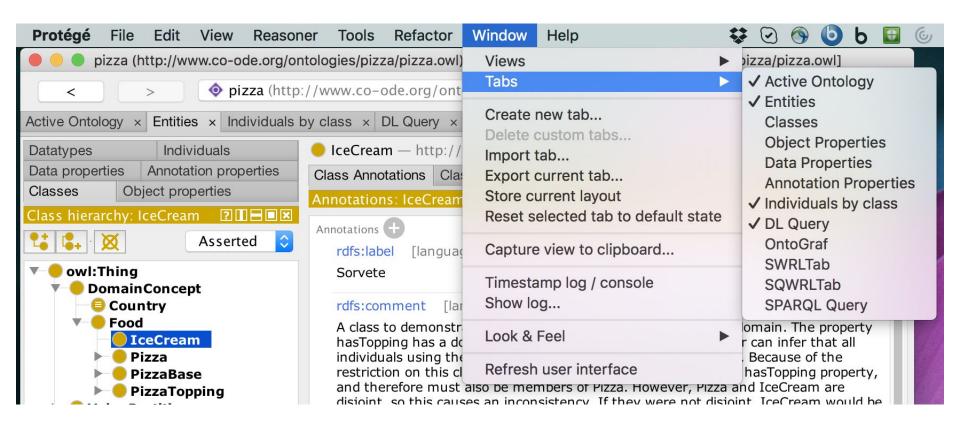
Views
Tab-specific views
E.g., 'Class Hierarchy'



Look & Feel "skins" for Protégé

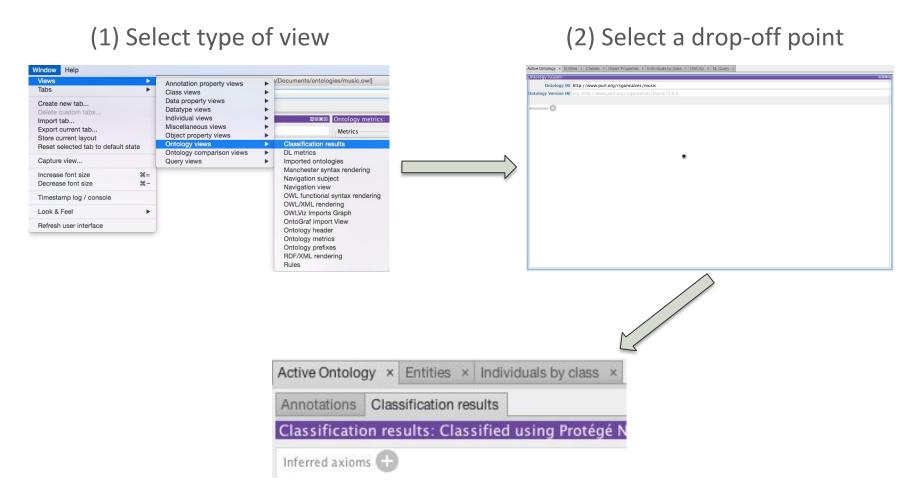


Protégé tabs



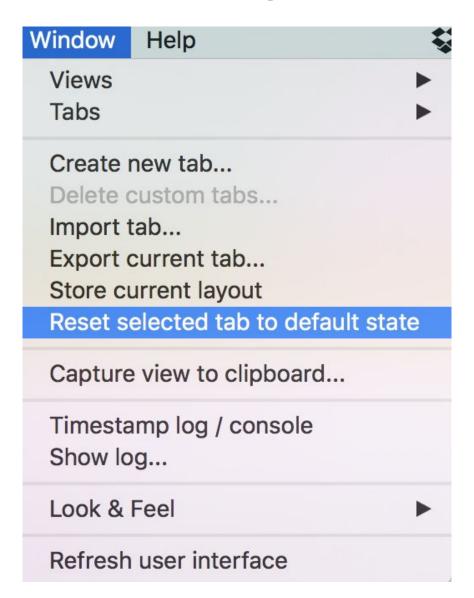
Add a new tab: Window menu -> Tabs

Protégé views

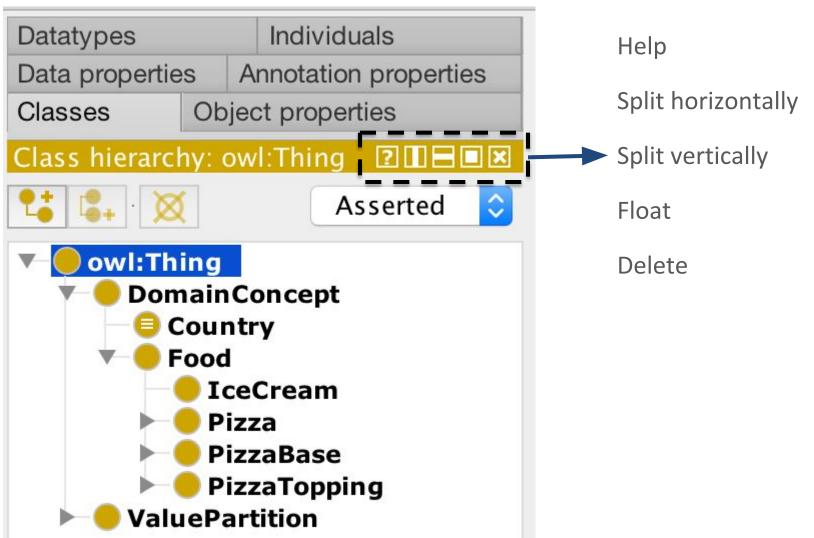


(3) The view appears within selected tab

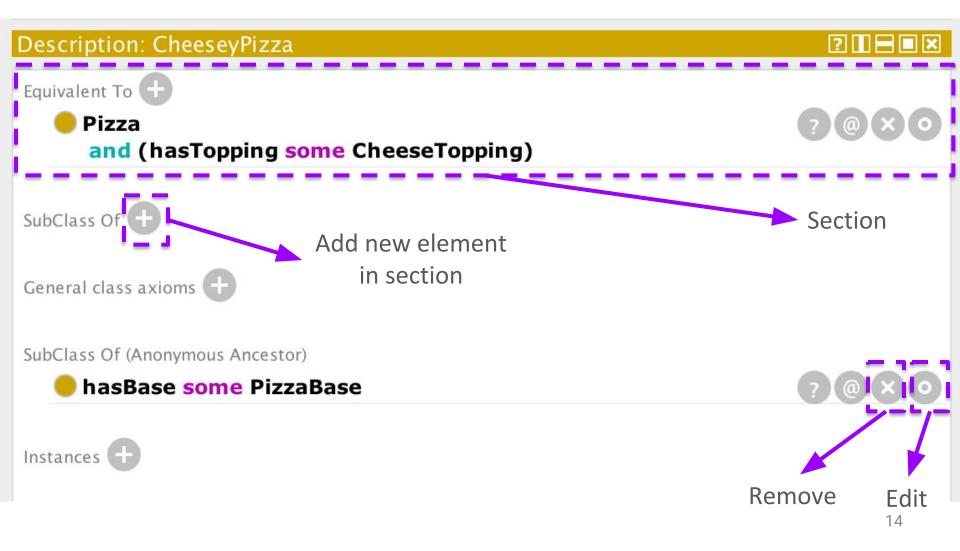
Resetting a tab



View controls



Sections in a view

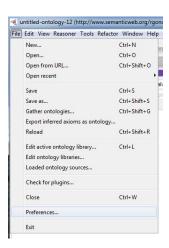


Protégé preferences

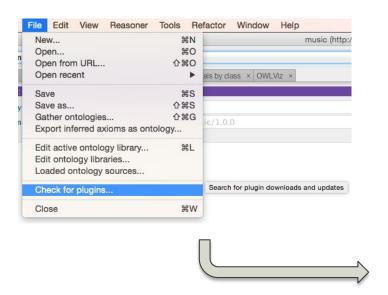
Mac OS X (native look & feel)
Access through Mac menu bar
Protégé > Preferences



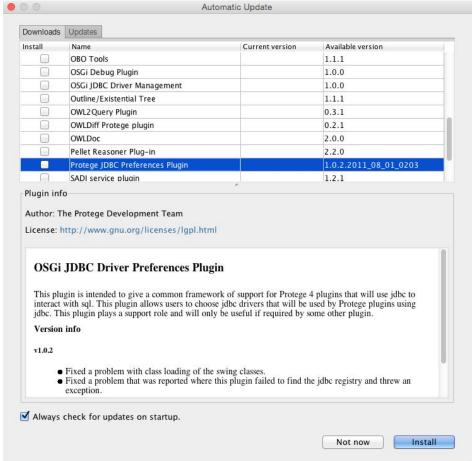
Other operating systems
File > Preferences



Plugins: 'Automatic Update' wizard



Triggers 'Automatic Update' wizard List of plugins and their information

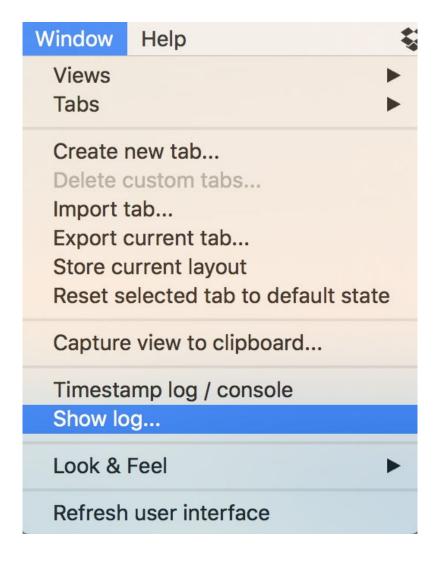


Protégé and plugin versions

Help menu -> About

Mamory sattings	Max memory set to 3641 MB (via Java –)	(my setting)	
Memory settings	Currently using 241 MB	and setting)	
	Currently using 241 MB		
Installed Plugins	Name/ID	Version	Qualifier
	Browser View (OWLDoc)	3.0.3	
	Cellfie Protege 5.0+ Plugin	2.1.0	
	DL Query	4.0.1	
	Existential Query	2.0.0	
	Explanation Workbench	3.0.0	
	HermiT	1.3.8	413
	OntoGraf	2.0.3	
About	Protégé is developed by the Stanford Ce Protégé is a national resource for biome supported by the National Institute of G Previous versions of the Protégé series v Bio-Health Informatics Group in the Sch The University of Manchester.	dical ontologies and k deneral Medical Science were developed in colla	nowledge bases s. aboration with the

Show log



Screencasts

Screencasts of basic operations and important features: https://www.youtube.com/user/TheProtegeProject/playlists

Playlist: "Protégé 5 Screencasts"