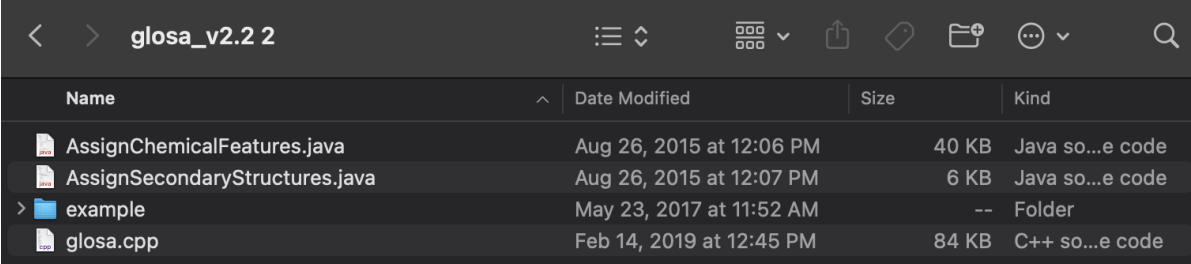


G-LoSA Installation and Set up Instructions

- To run G-LoSA search (searching a target protein against a database), you need to download both the G-LoSA program and the G-LoSA toolkit.
- G-LoSA standalone runs the local structure alignment for 1 pair of proteins. To download G-LoSA, go to <https://compbio.lehigh.edu/GLoSA/index.html> and follow the installation instructions. You should now have a folder that contains the glosa executable as well as several java files. These files are used in preparing the structure for G-LoSA

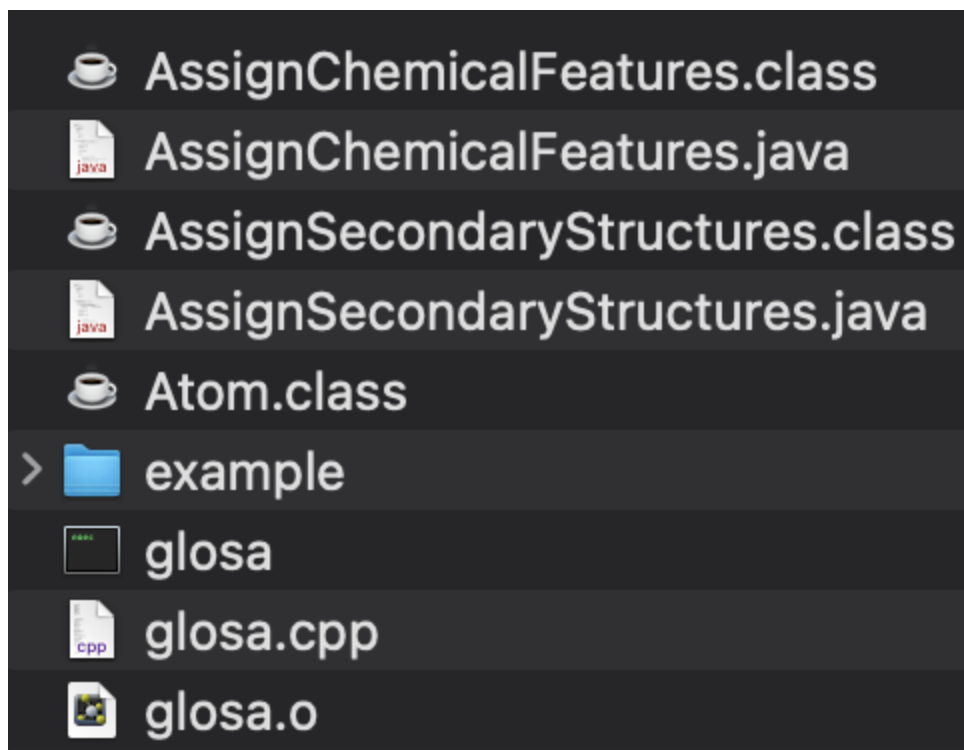


Name	Date Modified	Size	Kind
AssignChemicalFeatures.java	Aug 26, 2015 at 12:06 PM	40 KB	Java source code
AssignSecondaryStructures.java	Aug 26, 2015 at 12:07 PM	6 KB	Java source code
example	May 23, 2017 at 11:52 AM	--	Folder
glosa.cpp	Feb 14, 2019 at 12:45 PM	84 KB	C++ source code

contents of the downloaded glosa folder

- After running the compilation instructions, the folder should look like this (Note: you may have to delete the Atom.class file after compiling the first java program or else the second java program will not compile. This is because both java files have the Atom class so the second will only compile if you delete the Atom.class after compiling the first class):
 - Compiling can be done executing these lines in terminal
 - `g++ -c glosa.cpp`
 - `g++ -o glosa glosa.o`
 - `javac AssignChemicalFeatures.java`
 - `rm Atom.class`

- `javac AssignSecondaryStructures.java`



- G-LoSA is now ready to be run. After installing the compiling the G-LoSA toolkit, move all the files shown above (except examples, which is optional) into the glosa_toolkit folder
- To install G-LoSA toolkit, go to <https://compbio.lehigh.edu/GLoSA/toolkit.html> and download the folder. The toolkit is composed of several java files used to run various G-LoSA related tasks, primarily G-LoSA search against a library. Run `javac *.java` to compile all the programs in the toolkit. After compilation, the folder should look something like this:

glosa_toolkit				
Name	Date Modified	Size	Kind	
AddPropertyResolution.class	Today at 10:58 PM	3 KB	Java class file	
AddPropertyResolution.java	Mar 17, 2016 at 2:06 PM	3 KB	Java source code	
Atom.class	Today at 10:58 PM	1 KB	Java class file	
Atom.java	Feb 12, 2016 at 8:19 AM	1 KB	Java source code	
BuildLigandBSStructuresLibrary.class	Today at 10:58 PM	5 KB	Java class file	
BuildLigandBSStructuresLibrary.java	Mar 10, 2016 at 7:58 AM	7 KB	Java source code	
BuildProteinStructuresLibrary.class	Today at 10:58 PM	3 KB	Java class file	
BuildProteinStructuresLibrary.java	Mar 23, 2016 at 9:21 AM	3 KB	Java source code	
CheckGLoSASearchResults.class	Today at 10:58 PM	2 KB	Java class file	
CheckGLoSASearchResults.java	Feb 17, 2016 at 12:52 PM	2 KB	Java source code	
FilterTemplatesByPositionalOverlapTanimoto.class	Today at 10:58 PM	5 KB	Java class file	
FilterTemplatesByPositionalOverlapTanimoto.java	Mar 11, 2016 at 1:28 PM	6 KB	Java source code	
FilterTemplatesBySeqIdentity.class	Today at 10:58 PM	3 KB	Java class file	
FilterTemplatesBySeqIdentity.java	Mar 4, 2016 at 11:43 AM	3 KB	Java source code	
GenerateCFFiles.class	Today at 10:58 PM	20 KB	Java class file	
GenerateCFFiles.java	Jun 20, 2016 at 12:31 PM	42 KB	Java source code	
GeneratePyMolScript.class	Today at 10:58 PM	4 KB	Java class file	
GeneratePyMolScript.java	Mar 8, 2016 at 1:09 PM	5 KB	Java source code	

Add the files from the glosa installation in this folder and you have all the programs set up to run G-LoSA search!