CSE 259 - Logic in Computer Science

Recitation-1

Resources and SWI Prolog Installation

Waqar Hassan Khan

Slides and Codes

- The Slides will be available in Canvas as well as the GitHub repository.
- The example codes we will show in each class will be available in the Github repository - GitHub - Waqar-107/ASU-CSE-259-Prolog

Syllabus and Schedule

1. Posted on Canvas announcement and GitHub repository.

2. The dates given in the schedule is the start of the week (Monday). For example, Sept 8, Monday means we have class on Monday, Wednesday, and Friday in that week. Exception is Sep 1 (Long weekend).

3. The same slide will be covered in all three days of a particular week. You can join in any one of it.

How to contact with me

- Email: wkhan17@asu.edu
- Discord handle: Waqar_107

If you need help debugging your codes, send them over Discord, ASU email will not let you attach the code files!!

Prolog - resources

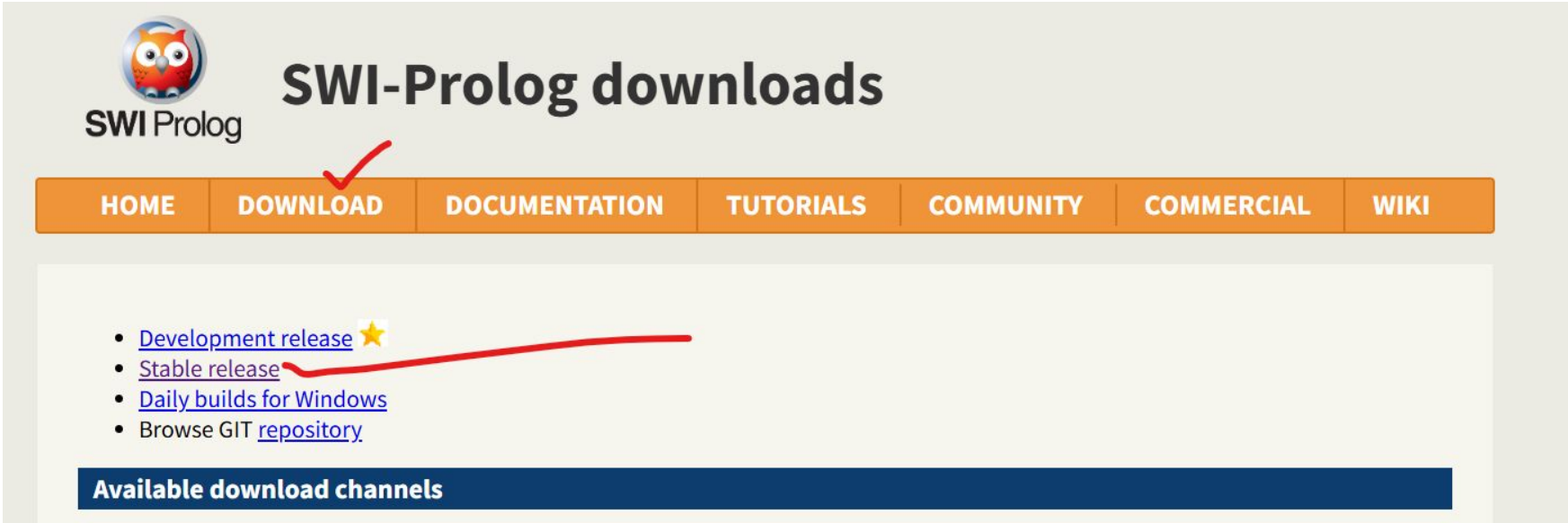
Tool we will be using:

- SWI Prolog

Useful resources:

- SWI Prolog Manual
- Video Tutorial
- Detailed Tutorial

Prolog - download



Prolog - download

Binaries		
	14,331,585 bytes	SWI-Prolog **9.2.9-1** for Microsoft Windows (64 bit) Self-installing executable for Microsoft Windows 64-bit editions. **SHA256**: `0e6dbf5f4bb245344a257f2715f5d793d17870dee9eea1735ccb67b35f1e037c`
	14,020,721 bytes	SWI-Prolog **9.2.9-1** for Microsoft Windows (32 bit) Self-installing executable for Microsoft Windows 32-bit editions. Version 9.3 is that last version of SWI-Prolog that is also released for 32-bit. Note that this version lacks the Janus interface to Python. **SHA256**: `1c9a87f2fd3ecc5311226b72a9b03989e500250ff469d7418f31706ce16b2de7`
	39,839,539 bytes	SWI-Prolog **9.2.9-1** for MacOSX 10.14 (Mojave) and later on x86_64 and arm64 Mac OS X disk image with relocatable application bundle. Needs xquartz (X11) installed for running the development tools. The bundle also provides the commandline tools in the `Contents/MacOS` directory. Users of older MacOS versions are adviced to use Macports, Homebrew or install from source. This bundle contains universal (fat) binaries that run natively on Intel (x86_64) and Apple Silicon (M1-3, arm64). **SHA256**: `90531c03e6c1182a0d5be45b865db6e399933e84b284dcec20ab931240420e37`
	33,419,551 bytes	SWI-Prolog **9.2.9-1** for MacOSX bundle on intel Mac OS X disk image with relocatable application bundle. Needs xquartz. Same as the *fat* bundle, but only contains the `x86_64` binaries, compiled using gcc13 from Macports. This version is **30-40% faster** than the fat binaries on Intel Macs. The intel version is not regularly updated. **SHA256**: `b4bdf53d7b882170ffc89a916c1b780ee68428bec7e0fa468422eb4a5971ae4a`

Installation

1. For Windows, it’s pretty straightforward. Use the exe file you have downloaded. Click it once and then keep hitting next. In the beginning, it might detect the exe as a malware. Click “Run anyway” in that case.

2. For mac, follow this video tutorial.

Projects

1. Four projects –
   a. Printing ASU
   b. Chess
   c. Wang and Kobsa's algorithm implementation
   d. Family Kinship

2. Deadlines are already set. The submission window will be kept open 24 hours more after the deadline with a late penalty of -10%.