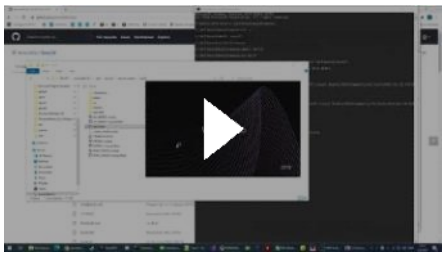
GeoMates - 27Feb2025

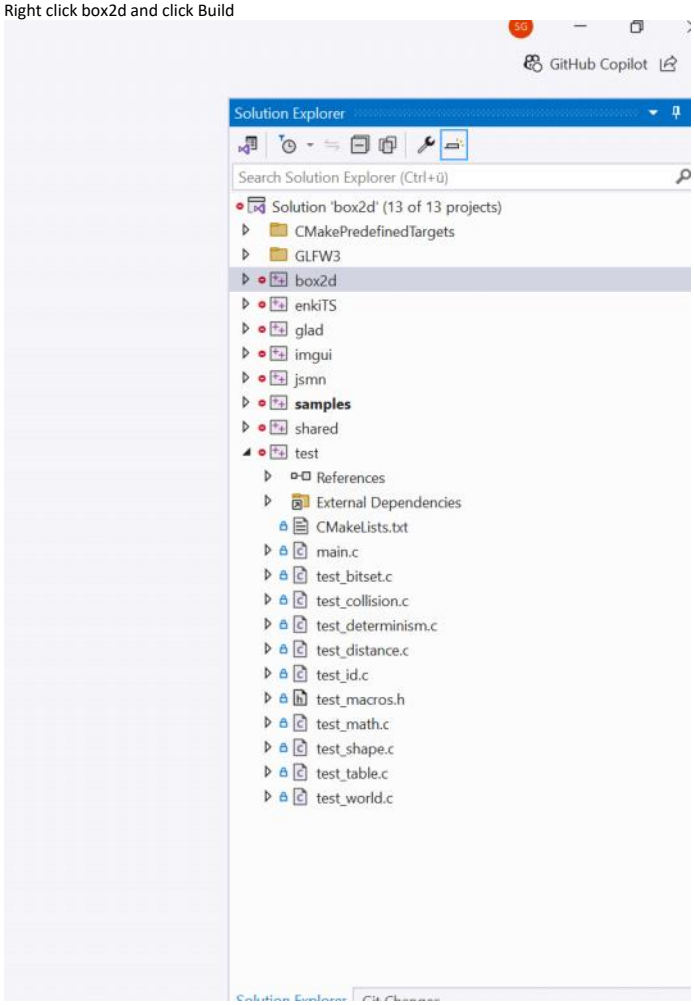
Wednesday, 26 February 2025 21:10

GitHub - erincatto/box2d: Box2D is a 2D physics engine for games
Checkout above code on the following location
C:\DeepSeek_ICA_Agent
Compile using following

Compile Box2D on Windows with MSVC



Run "C:\DeepSeek_ICA_Agent\box2d\build.bat"
Then Visual studio will open
Right click box2d and click Build



Copy C:\DeepSeek_ICA_Agent\box2d\build\src\Debug box2dd.lib to C:\DeepSeek_ICA_Agent\geomates\lib
Copy C:\DeepSeek_ICA_Agent\box2d\include to C:\DeepSeek_ICA_Agent\geomates\include

Change the path in Makefile_Windows

C:\DeepSeek_ICA_Agent\geomates\Makefile_Windows - Notepad++

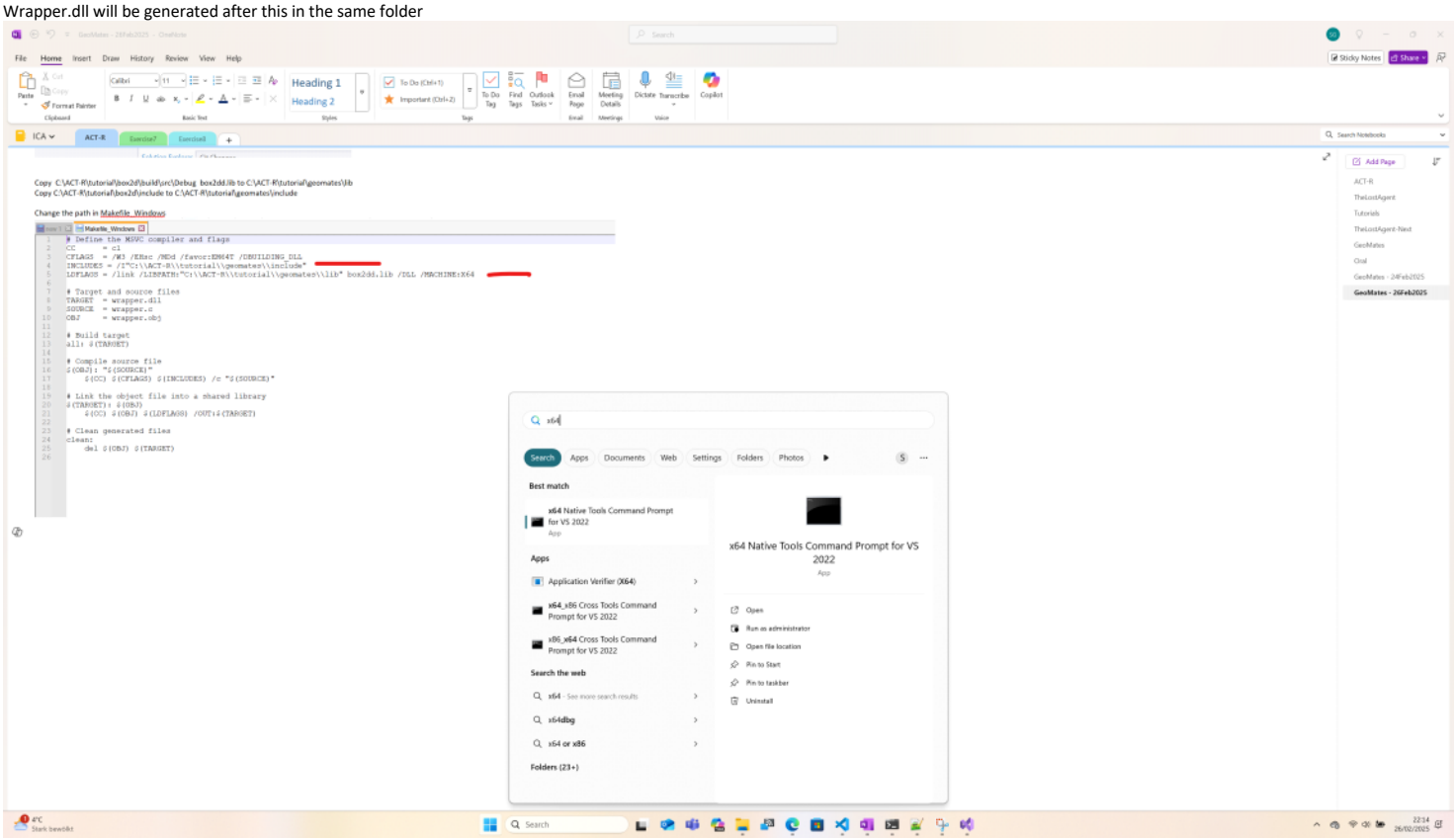
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Makefile_Windows

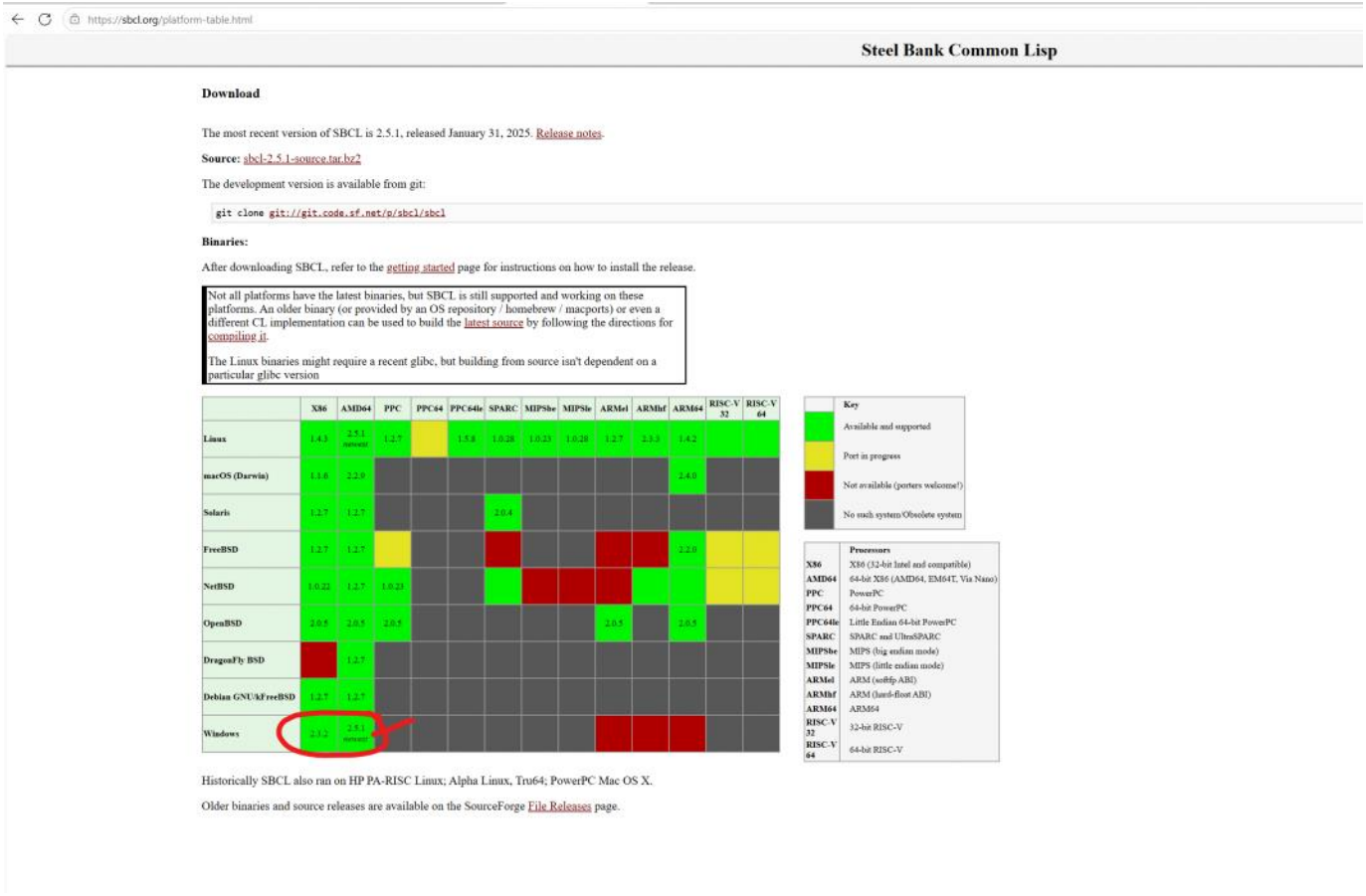
```
# Define the MSVC compiler and flags
CC       = cl
CFLAGS   = /W3 /EHsc /MDd /favor:EM64T /DBUILDING_DLL
INCLUDES = /I"C:\\DeepSeek_ICA_Agent\\geomates\\include"
LDFLAGS = /link /LIBPATH:"C:\\DeepSeek_ICA_Agent\\geomates\\lib" box2dd.lib /DLL /MACHINE:X64

# Target and source files
TARGET   = wrapper.dll
SOURCE   = wrapper.c
OBJ      = wrapper.obj

# Build target
all: $(TARGET)

# Compile source file
$(OBJ): "$(SOURCE)"
    $(CC) $(CFLAGS) $(INCLUDES) /c "$(SOURCE)"

# Link the object file into a shared library
$(TARGET): $(OBJ)
    $(CC) $(OBJ) $(LDFLAGS) /OUT:$(TARGET)

# Clean generated files
clean:
    del $(OBJ) $(TARGET)
```

Open x64 native tools command prompt and run command
nmake /f Makefile_Windows

Wrapper.dll will be generated after this in the same folder



Install sbcl



https://sbcl.org/platform-table.html

Steel Bank Common Lisp

Download

The most recent version of SBCL is 2.5.1, released January 31, 2025. Release notes.

Source: sbcl-2.5.1-source.tar.bz2

The development version is available from git:

```
git clone git://git.code.sf.net/p/sbcl/sbcl
```

Binaries:

After downloading SBCL, refer to the getting started page for instructions on how to install the release.

Not all platforms have the latest binaries, but SBCL is still supported and working on these platforms. An older binary (or provided by an OS repository / homebrew / macports) or even a different CL implementation can be used to build the latest source by following the directions for compiling sl.

The Linux binaries might require a recent glibc, but building from source isn't dependent on a particular glibc version

	X86	AMD64	PPC	PPC64	PPC64le	SPARC	MIPSbe	MIPSle	ARMel	ARMhf	ARM64	RISC-V 32	RISC-V 64
Linux	1.4.3	2.5.1 newest	1.2.7		1.5.8	1.0.28	1.0.23	1.0.28	1.2.7	2.3.3	1.4.2		
macOS (Darwin)	1.1.6	2.2.9									2.4.0		
Solaris	1.2.7	1.2.7				2.0.4							
FreeBSD	1.2.7	1.2.7									2.2.0		
NetBSD	1.0.22	1.2.7	1.0.23										
OpenBSD	2.0.5	2.0.5	2.0.5						2.0.5		2.0.5		
DragonFly BSD		1.2.7											
Debian GNU/kFreeBSD	1.2.7	1.2.7											
Windows	2.1.2	2.5.1 newest											

Key
Available and supported
Port in progress
Not available (porters welcome!)
No such system/Obsolete system

	Processors
X86	X86 (32-bit Intel and compatible)
AMD64	64-bit X86 (AMD64, EM64T, Via Nano)
PPC	PowerPC
PPC64	64-bit PowerPC
PPC64le	Little Endian 64-bit PowerPC
SPARC	SPARC and UltraSPARC
MIPSbe	MIPS (big endian mode)
MIPSle	MIPS (little endian mode)
ARMel	ARM (soft-fp ABI)
ARMhf	ARM (hard-float ABI)
ARM64	ARM64
RISC-V 32	32-bit RISC-V
RISC-V 64	64-bit RISC-V

Historically SBCL also ran on HP PA-RISC Linux; Alpha Linux, Tru64; PowerPC Mac OS X.

Older binaries and source releases are available on the SourceForge File Releases page.

2.5.1
http://prdownloads.sourceforge.net/sbcl/sbcl-2.5.1-x86-64-windows-binary.msi

Created C:\DeepSeek_ICA_Agent folder .copied Box2D and geomates folder

Downloaded ACT-R resources

ACT-R Sources

Download

quicklisp

Open SBCL

2. **Start your Lisp implementation** (like SBCL):

```bash
sbcl
```

3. **Load the installer**:

```lisp
(load "quicklisp.lisp")
```

4. **Run the Quicklisp setup**:

```lisp
(quicklisp-quickstart:install)
```

5. **Add Quicklisp to your Lisp startup** (recommended):

```lisp
(ql:add-to-init-file)
```

This will add Quicklisp to your initialization file so it loads automatically.

6. **Restart Lisp** or load Quicklisp manually:

```lisp
(load "~/quicklisp/setup.lisp")
```

Installed Quicklisp

Agent Connection (#1) · Issues · HAI / geomates · GitLab

sbcl --load "actr7.x/load-act-r.lisp"

Double quote is necessary

(load "C:/DeepSeek_ICA_Agent/geomates/act-r-experiment.lisp")

(run-environment)

(load-act-r-model "C:/DeepSeek_ICA_Agent/geomates/model-dummy.lisp")

(geomates-experiment)