

Subversion (often abbreviated *SVN* is the *source code control* system used by most of GMOD. Source code control systems, also known as *revision control* or *version control* systems are used to record changes to computer files. GMOD's main source code repository is at [SourceForge](#).

This page explains how to both download and update the main GMOD repository at SourceForge. For more on SVN itself see the [Subversion Home Page](#) and the official [Subversion Book](#).

SVN is used by GMOD developers to update the components. SVN is also used by some GMOD users, most of whom never modify any GMOD code. GMOD users access SVN when they want to get component source code so they can use the latest development version of that component, without having to wait for the next official release. Please note, however, that components pulled from SVN are **development** versions, and may not always work as expected.

Browsing SVN Repositories

GMOD SVN repositories can be browsed via web: <http://gmod.svn.sourceforge.net/gmod/>.

SVN Read-only Access

The GMOD [SVN](#) repository can be checked out through anonymous SVN with the following instruction set. The module you wish to check out must be specified in place of **PROJECTNAME**.

```
svn co https://gmod.svn.sourceforge.net/svnroot/gmod/PROJECTNAME/trunk
```

See <http://gmod.svn.sourceforge.net/> for available GMOD projects in SVN repositories.

You can then get updates with the `svn update` command.

SVN Developer Access

Developer access uses the same URLs as read-only access. When performing write operations, you will simply be prompted for your SourceForge.net username and password. To perform write operations, a GMOD project administrator must have granted you write access to the repository.

Legacy CVS Read-only Access

GMOD has migrated all projects from CVS to [Subversion](#) as of September 15, 2009. See the [CVS to Subversion Conversion](#) page.

The old GMOD [CVS](#) repositories can be checked out through anonymous (pserver) CVS with the following instruction set. The module you wish to check out must be specified as the *modulename*. When prompted for a password for anonymous, simply press the Enter or Return key.

```
cvs -d:pserver:anonymous@gmod.cvs.sourceforge.net:/cvsroot/gmod login  
cvs -d:pserver:anonymous@gmod.cvs.sourceforge.net:/cvsroot/gmod co modulename
```

Version_Control_System_Access

If you need to check out a particular revision/tag in the repository, add *-r tag_name* to the command. For example, if you needed the 'stable' branch of the GBrowse repository, you would do this in your checkout command:

```
cvs -d:pserver:anonymous@gmod.cvs.sourceforge.net:/cvsroot/gmod co -r stable Generic-Genome-Bro
```

See <http://gmod.cvs.sourceforge.net/> for available CVS repositories.

You can then get updates with the `cvs update -d` command (the `-d` command tells CVS to get any new directories that have been added to the repository since the last update).

GMOD CVS repositories can also be browsed on the web: <http://gmod.cvs.sourceforge.net/gmod/>.