# Developing and building SOFA 2

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1. How to build SOFA 2

1.1. Requirements

The Apache Ant and Apache Ivy tools are used for compilation and distribution of the SOFA-J implementation and therefore must be installed and configured on the host computer. Moreover, the Ant-Contrib Ant task library must be installed.

1.2. Compilation

First of all, you must download the current trunk version from the SVN repository using

```bash
svn checkout svn://svn.forge.objectweb.org/svnroot/sofa/trunk
```

To compile the current SOFA-J version, run ant in the following directories in the given order (use the default task):

- sofa/trunk/build
- sofa-j/trunk/build
- cushion/trunk/build

1.3. Installation

To create the current SOFA-J distribution from the compiled files, run ant in the following directories in the given order (use the default task):

- cushion/trunk/dist
- sofa-j/trunk/dist

The distribution will be created in the sofa-j/trunk/dist/output/dist directory.

2. Developing SOFA

2.1. Code conventions

SOFA 2 code uses the code conventions for the Java language.

2.2. SVN convention

The SVN repository uses the common structure with top-level trunk, branches, and tags directories. Then there are directories for each subproject, which are further divided to the trunk, branches, and tags.