




# PreonLab 4.3.3

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FOSS component used	declared FOSS license
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Open Asset Import Library (assimp)	BSD-3-Clause
Bullet Continuous Collision Detection and Physics Library	zlib license
Eigen	MPL2
expat - XML Parser Toolkit	MIT license
FreeType	FTL
Graphviz - Graph Visualization Software	Eclipse Public License
ICU	ICU License
Liberation Fonts	SIL Open Font License
libpng	libpng license
OpenEXR	BSD-3-Clause
OpenSceneGraph	OSGPL
Progressbar 2 - A progress bar for Python 2 and Python 3	BSD-3-Clause
pybind11	BSD-3-Clause
Python	PSF
Python Utils	BSD-3-Clause
Qt	LGPL 3
QtPropertyBrowser	LGPL 3
six	MIT license
Units: A compile-time c++14 unit conversion library with no dependencies	MIT license
zlib	zlib license

**Table 1:** Overview of FOSS components used by PreonLab 4.3.3.

## 2.2 Package Details

### 2.2.1 Alembic

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URL	<a href="https://github.com/alembic/alembic">https://github.com/alembic/alembic</a>
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**Table 2:** Alembic package details.

### 2.2.2 Open Asset Import Library (assimp)

---

URL	<a href="https://github.com/FIFTY2Technology/assimp">https://github.com/FIFTY2Technology/assimp</a>
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Copyright Attribution	assimp team

---

**Table 3:** Open Asset Import Library (assimp) package details.

### 2.2.3 Bullet Continuous Collision Detection and Physics Library

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URL	<a href="https://github.com/bulletphysics/bullet3">https://github.com/bulletphysics/bullet3</a>
Applicable License(s)	zlib license
Copyright Attribution	Copyright contributors to the Bullet Continuous Collision Detection and Physics Library. See license file for a list.

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**Table 4:** Bullet Continuous Collision Detection and Physics Library package details.

### 2.2.4 Eigen

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URL	<a href="http://eigen.tuxfamily.org">http://eigen.tuxfamily.org</a>
Applicable License(s)	MPL2
Copyright Attribution	Copyright contributors to Eigen. See the license file for a list.

---

**Table 5:** Eigen package details.

### 2.2.5 expat - XML Parser Toolkit

URL	<a href="http://www.jclark.com/xml/expat.html">http://www.jclark.com/xml/expat.html</a>
Applicable License(s)	MIT license
Copyright Attribution	Thai Open Source Software Center Ltd, Expat maintainers

**Table 6:** expat - XML Parser Toolkit package details.

## 2.2.6 FreeType

URL	<a href="https://www.freetype.org/index.html">https://www.freetype.org/index.html</a>
Applicable License(s)	FTL
Copyright Attribution	David Turner, Robert Wilhelm, and Werner Lemberg

**Table 7:** FreeType package details.

## 2.2.7 Graphviz - Graph Visualization Software

URL	<a href="https://www.graphviz.org/">https://www.graphviz.org/</a>
Applicable License(s)	Eclipse Public License
Copyright Attribution	AT&T Research and Lucent Bell Labs

**Table 8:** Graphviz - Graph Visualization Software package details.

## 2.2.8 ICU

URL	<a href="http://site.icu-project.org/">http://site.icu-project.org/</a>
Applicable License(s)	ICU License
Copyright Attribution	International Business Machines Corporation and others

**Table 9:** ICU package details.

## 2.2.9 Liberation Fonts

URL	<a href="https://github.com/liberationfonts/liberation-fonts">https://github.com/liberationfonts/liberation-fonts</a>
Applicable License(s)	SIL Open Font License
Copyright Attribution	Red Hat, Inc.

**Table 10:** Liberation Fonts package details.

### 2.2.10 libpng

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URL	<a href="http://www.libpng.org/pub/png/libpng.html">http://www.libpng.org/pub/png/libpng.html</a>
Applicable License(s)	libpng license
Copyright Attribution	Glenn Randers-Pehrson

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**Table 11:** libpng package details.

### 2.2.11 OpenEXR

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URL	<a href="https://github.com/openexr/openexr">https://github.com/openexr/openexr</a>
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**Table 12:** OpenEXR package details.

### 2.2.12 OpenSceneGraph

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URL	<a href="https://github.com/heandreas/osg">https://github.com/heandreas/osg</a>
Applicable License(s)	OSGPL
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**Table 13:** OpenSceneGraph package details.

### 2.2.13 Progressbar 2 - A progress bar for Python 2 and Python 3

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URL	<a href="https://github.com/WoLpH/python-progressbar">https://github.com/WoLpH/python-progressbar</a>
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Copyright Attribution	Rick van Hattem (Wolph)

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**Table 14:** Progressbar 2 - A progress bar for Python 2 and Python 3 package details.

### 2.2.14 pybind11

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URL	<a href="https://github.com/FIFTY2Technology/pybind11">https://github.com/FIFTY2Technology/pybind11</a>
Applicable License(s)	BSD-3-Clause

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Copyright Attribution	Wenzel Jakob <wenzel.jakob@epfl.ch>
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**Table 15:** pybind11 package details.

### 2.2.15 Python

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URL	<a href="https://www.python.org/">https://www.python.org/</a>
Applicable License(s)	PSF
Copyright Attribution	Python Software Foundation

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**Table 16:** Python package details.

### 2.2.16 Python Utils

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URL	<a href="https://github.com/WoLpH/python-utils">https://github.com/WoLpH/python-utils</a>
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**Table 17:** Python Utils package details.

### 2.2.17 Qt

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URL	<a href="https://www.qt.io/">https://www.qt.io/</a>
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Copyright Attribution	The Qt Company

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**Table 18:** Qt package details.

### 2.2.18 QtPropertyBrowser

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URL	<a href="https://github.com/FIFTY2Technology/qtpropertybrowser">https://github.com/FIFTY2Technology/qtpropertybrowser</a>
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Copyright Attribution	The Qt Company

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**Table 19:** QtPropertyBrowser package details.

### 2.2.19 six

URL	<a href="https://github.com/benjaminp/six">https://github.com/benjaminp/six</a>
Applicable License(s)	MIT license
Copyright Attribution	Benjamin Peterson

**Table 20:** six package details.

## 2.2.20 Units: A compile-time c++14 unit conversion library with no dependencies

URL	<a href="https://github.com/nholthaus/units">https://github.com/nholthaus/units</a>
Applicable License(s)	MIT license
Copyright Attribution	Nic Holthaus

**Table 21:** Units: A compile-time c++14 unit conversion library with no dependencies package details.

## 2.2.21 zlib

URL	<a href="https://www.zlib.net/">https://www.zlib.net/</a>
Applicable License(s)	zlib license
Copyright Attribution	Jean-loup Gailly and Mark Adler

**Table 22:** zlib package details.

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### 2.3.3 Bullet Continuous Collision Detection and Physics Library

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<http://bulletphysics.org>

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If your name is missing, please send an email to [erwin.coumans@gmail.com](mailto:erwin.coumans@gmail.com) or file an issue at <http://github.com/bulletphysics/bullet3>

## 2.3.4 Eigen

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<html>
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That's all there is to it!

OpenSceneGraph Library 3.3.4

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### 2.3.13 Progressbar 2 - A progress bar for Python 2 and Python 3

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### 2.3.14 pybind11

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### 2.3.15 Python

#### ----- Python 3 -----

##### History and License

##### History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL compatible?
0.9.0 thru 1.2	n/a	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now PSF yes

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The `_random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which  
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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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Original location:

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----- Python 2.7 -----

#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived	Year	Owner	GPL-
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	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.7	2.6	2010	PSF	yes

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```
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## 2.3.18 QtPropertyBrowser

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## 2.3.19 six

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```

## 2.3.20 Units: A compile-time c++14 unit conversion library with no dependencies

```
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```

```
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## 2.3.21 zlib

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013
```

```
Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler
```

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