

# Algorithm-Style Package Install and Use

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## 1 Introduction

This package contains files that provide a new textclass and an article layout example that allow to use the algorithm and algorithmic packages directly through L<sup>A</sup>T<sub>E</sub>X without writing latex commands (ERT). The package is to install under your local L<sup>A</sup>T<sub>E</sub>X configuration directory, and L<sup>A</sup>T<sub>E</sub>X must be reconfigured to make the new layout available.

## 2 Package content

The package algo-<version>, where <version> is the current version number, contains the following files:

**algorithm.inc:** algorithm textclass definition, that must be included in any .layout file that needs this text style.

**algolyx.sty:** the latex package providing the necessary commands.

**article-algo.layout:** document class layout example, taken from the standard article layout, that includes the algorithm.inc definition file to make the new algorithm textclass available.

**algo.lyx:** document that describes how to use the new algorithm textclass, and is at the same time an example of document using the article-algo layout. Thus, this document should be viewed once the package is installed.

**algo.{tex, ps}:** algo.lyx latex or postscript output, for those who are interested in reading the document before or without installing the package.

**lang/:** directory containing L<sup>A</sup>T<sub>E</sub>X/ps documents examples using the algorithm style in other languages than english.

**examples/:** directory containing L<sup>A</sup>T<sub>E</sub>X/ps documents examples using some algorithm layout options.

### 3 Installing the package

To install the package, do as following:

1. Gunzip and untar the package under the directory you want:

```
> gunzip -c algo<version>.tar.gz | tar xvf -
```

2. Copy the textclass definition (.inc) and the document class layout example (.layout) under your local L<sub>Y</sub>X configuration layout directory, that usually is \$HOME/.lyx/layouts. Check under lyx (Help->Version) your actual user directory.

```
> cd algo-<version>
> cp algorithm.inc article-algo.layout $HOME/.lyx/layouts
```

3. Install algolyx.sty such that its path is seen by L<sup>A</sup>T<sub>E</sub>X. You can do as follow:

```
> mkdir $HOME/.lyx/layouts/packages
> cp algolyx.sty $HOME/.lyx/layouts/packages
> export TEXINPUTS=:$HOME/.lyx/layouts/packages//
```

4. Run L<sub>Y</sub>X and reconfigure it using Options->Reconfigure.
5. Exit from L<sub>Y</sub>X, and run it again. Once loaded, the new document class “Article (algo)” should be listed in the Layout->Document popup, and if so the install is successfully done.

### 4 Using the algorithm textclass

The algo.lyx (or algo.tex,ps) document describes how to use the layout.

### 5 Thanks

Thanks to the users, for their advice, comments, bug reports. And a special thanks to Herbert Voss for his help!

### 6 Feedback

Please give your comments! It is the only way to efficiently improve the textclass and fix the bugs. You can send e-mail to [<nicolas.marsgui@libertysurf.fr>](mailto:nicolas.marsgui@libertysurf.fr).