

# L<sup>A</sup>T<sub>E</sub>X Installation Guide

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This document contains a short guide to install a working L<sup>A</sup>T<sub>E</sub>X environment on your system.

## 1 L<sup>A</sup>T<sub>E</sub>X distribution

First we need a L<sup>A</sup>T<sub>E</sub>X distribution. This is used to compile `.tex` files into viewable `.pdf` files.

### Windows

- Go to <http://miktex.org/download>.
- Download the *Basic MikTeX Installer*.
- Run the installer and follow the on-screen instructions.
- Under “Install missing packages on-the-fly” choose “yes”.

### OSX

- Go to <https://tug.org/mactex/mactex-download.html>
- Download `MacTeX.pkg`
- Double-click the file to install

### Linux

For Linux installations I recommend texlive located at <https://www.tug.org/texlive/>. Most Linux distributions have texlive in official repositories. For Ubuntu simply type

```
sudo apt-get install texlive-full
```

in a terminal window.

## 2 Texmaker

Texmaker is the editor we will use to write L<sup>A</sup>T<sub>E</sub>X documents.

- Go to <http://www.xmlmath.net/texmaker/download.html>
- Install the Version appropriate for your system.

### 3 Testing the installation

Open Texmaker and create a new document. Paste the following into the editor:

```
\documentclass[a4paper]{memoir}  
\usepackage[utf8]{inputenc}  
\begin{document}  
Hello World!  
\[ \text{e}^{\text{i}\pi} = -1 \]  
\end{document}
```

Save the document. Go to “Tools” and chose “Quick Build”. This should generate your **.pdf**.