# Bugs and Fixes

## Issue

\usepackage{graphics} ---> \usepackage{graphicx}

## Description

‘graphics’ supports only .eps fles. ‘graphicx’ is the successor library with extended features, and is backwards compatible. It supports multiple image formats. The documentation incorrectly states two, optional argument format is valid for ‘graphicx’.

In order to upgrade to ‘graphicx’, you must change the BoundingBox syntax to one, optional argument syntax, with viewport as the key.

## More Info

<http://tex.stackexchange.com/questions/234577/undefined-error-when-trying-to-include-eps>

Also add \usepackage{epstopdf} after. Make sure to use pdflatex command.

## Issue

Latex has problems with dot filenames.

Example: sp2.0b.dvi. Latex sees the .0b.dvi as the entire extension. It should only see .dvi as the extension.

## Solution

Add \usepackage{grffile} to handle dot filenames.

## Issue

After compiling, the table of contents; bibliographies, list of figures, indexes, etc. page is empty.

## Solution

You need to compile twice (sometimes three times). For an automated solution, see: http://www.ctan.org/pkg/latexmk.

# General Template

\documentclass{...}  
  
\begin{document}  
...  
\end{document}

# Specific Template

\documentclass[openany]{book}

\usepackage{graphicx}

\usepackage{epstopdf}

\usepackage{grffile}

\usepackage[linktoc=all]{hyperref}

\hypersetup{

colorlinks,

citecolor=black,

filecolor=black,

linkcolor=black,

urlcolor=black

}

\begin{document}

\tableofcontents

\listoffigures % optional

\listoftables % optional

\end{document}

# Explanation of Specific Template

\documentclass[option1, option2, etc.]{book}

Required as first line of code.

## Options

 [Font size **(10pt, 11pt, 12pt)**](http://texblog.org/tag/openany/#fontsize)

 [Paper size and format **(a4paper, letterpaper, etc.)**](http://texblog.org/tag/openany/#papersize)

 [Draft mode **(draft)**](http://texblog.org/tag/openany/#draft)

 [Multiple columns **(onecolumn, twocolumn)**](http://texblog.org/tag/openany/#multiplecol)

 [Formula-specific options **(fleqn and leqno)**](http://texblog.org/tag/openany/#formula)

 [Landscape print mode **(landscape)**](http://texblog.org/tag/openany/#landscape)

 [Single- and double-sided documents **(oneside, twoside)**](http://texblog.org/tag/openany/#doublesided)

 [Titlepage behavior **(notitlepage, titlepage)**](http://texblog.org/tag/openany/#titlepage)

 [Chapter opening page **(openright, openany)**](http://texblog.org/tag/openany/#openright)

Reference: <http://texblog.org/tag/openany/>

\usepackage{graphicx}

Allows insertion of JPG, PNG, PDF, EPS into document.

\usepackage{epstopdf}

Required for EPS support (with use of pdflatex command).

\usepackage{ grffile }

Required for complex filenames (see bug section).

\usepackage[linktoc=all]{hyperref}

Enables the toc to hyperlink to the correct parts. It can be [=none, section, page, all].

\hypersetup{…}

Among several unlisted other options, the example ones enable color links, then allow you to specify the separate colors.

\begin{ document}

…

\end{ document}

These two are required lines, where your entire document will go between it.

\tableofcontents

Inserts a table of contents section into the document.

See **Table of Contents (toc), List of Figures (lof), List of Tables (lot)** for more info.

.

# Table of Contents (toc), List of Figures (lof), List of Tables (lot)

## Example

\documentclass[11pt]{article}

\begin{document}

\tableofcontents

\listoffigures

\listoftables

**\section{Dummy section 1}**

\begin{figure}[ht]

\begin{center}

\caption{Dummy figure 1}

**\label{fig:dum1}**

\end{center}

\end{figure}

\begin{figure}[ht]

\begin{center}

\caption{Dummy figure 2}

**\label{fig:dum2}**

\end{center}

\end{figure}

\begin{table}[ht]

\caption{Dummy table 1}

\begin{center}

\begin{tabular}{|c|c|}

\end{tabular}

\end{center}

**\label{tab:dum1}**

\end{table}

**\section{Dummy section 2}**

\end{document}

## Explanation

**\section{Dummy section 1}**

The ‘section’ keywords can be replaced with chapter or subsection, depending on what you need. Each has a different level of indentation and numbering. The required argument will be what shows up in the toc.

\begin{figure} … \end{figure}, and \begin{table} … \end{table}

Respectively, this will index the figure or table into the toc.

\caption{…}

This labels the item in the toc.