

Guide to using NSFmaster template

NSFmaster.tex is the “master” latex file for compiling the proposal. Each of the four required sections (Project Summary, Project Description, References Cited, Biographical Sketch) has its own separate latex file (NSFsumm.tex, NSFdesc.tex, NSFrefs.tex, NSFbio.tex). These “section” files are called by the master file.

Template (5 files)

NSFmaster.tex	=	MASTER file	(compiles the 4 sections)
NSFsumm.tex	=	Project Summary	(section 1)
NSFdesc.tex	=	Project Description	(section 2)
NSFrefs.tex	=	References Cited	(section 3)
NSFbio.tex	=	Biographical Sketch	(section 4)

Composing the proposal in latex

By default NSFmaster.tex compiles **all** 4 section files so that you can work on the proposal as a whole. The NSFmaster.tex file doesn’t need to change much, but it is where you put your own latex *macros*. Add those macros underneath the comment `%PUT YOUR MACROS HERE` (or if you keep them in a separate style file, add the line `\usepackage{yourstylefile}` there instead). The *content* of your proposal will go in the 4 section files. Just compose each section (in latex) in its appropriate section file. Then compile the proposal by latexing NSFmaster.tex:

```
latex NSFmaster.tex → NSFmaster.dvi
```

 (1)

DO NOT USE `\documentclass` or `\begin{document}` or `\end{document}` in the section files!!!! (This would produce irrecoverable errors when latexing NSFmaster.tex.)

Generating four separate .ps files (one for each section)

When you are done writing the proposal, you will need to generate one postscript file for each of the 4 required sections. The template makes this easy.

Above the `\begin{document}` in NSFmaster.tex is the command `\includeonly{NSFsumm}` (you will have to *uncomment* it by removing the `%` to make it work). This tells latex to process *only* the section within curly braces, in this case the Project Summary. Process NSFmaster.tex in latex (1) to get the dvi file NSFmaster.dvi. **Rename this file when you convert to .ps** to reflect which part you processed. In this case you’d use

```
dvips -Ppdf -t letter NSFmaster.dvi -o NSFsumm.ps
```

 (2)

IMPORTANT!!! Recent consultation of the NSF Fastlane guide to using TeX/LaTeX (see link https://www.fastlane.nsf.gov/documents/tex/tex_03.jsp?page=0) requires those two processing options (highlighted in red!) when using dvips to do the conversion.

Here’s a table to help keep track of this renaming process:

<i>If you latexed with . . .</i>	<i>convert to postscript with . . .</i>
<code>\includeonly{NSFsumm}</code>	<code>dvips -Ppdf -t letter NSFmaster.dvi -o NSFsumm.ps</code>
<code>\includeonly{NSFdesc}</code>	<code>dvips -Ppdf -t letter NSFmaster.dvi -o NSFdesc.ps</code>
<code>\includeonly{NSFrefs}</code>	<code>dvips -Ppdf -t letter NSFmaster.dvi -o NSFrefs.ps</code>
<code>\includeonly{NSFbio}</code>	<code>dvips -Ppdf -t letter NSFmaster.dvi -o NSFbio.ps</code>