

Basic Styles for the NDSEG fellowship application

You

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Introduction This document serves as a README for understanding and using the provided LaTeX template ('ndseg.sty'). It demonstrates various nuances and configuration options available within the template.

Adjustable Settings All settings described in this document can be adjusted directly in the included 'ndseg.sty' file. This allows you to customize the template according to your specific needs.

Font and Encoding The template uses the Times New Roman font and supports UTF-8 input encoding. These settings ensure that the document uses a standard, readable font and can handle a wide range of characters.

Page Geometry The page margins are set to 0.7 inches:

```
\usepackage[margin=0.7in]{geometry}
```

Line Spacing Line spacing is set to single by default, providing a compact and readable layout:

```
\singlespacing
```

Section Titles Section titles are formatted to be inline, bold, and underlined. This ensures a clear and professional appearance:

```
\titleformat{\section}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsubsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsubsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsubsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsubsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
\titleformat{\subsubsection}[runin]
  {\normalfont\normalsize\bfseries}
  {}{0em}{}
```

Spacing Around Section Titles The spacing before and after section headings is adjusted to provide a clean look:

```
\titlespacing{\section}{0pt}{*0}{0.7em}
\titlespacing{\subsection}{0pt}{*0}{0.5em}
\titlespacing{\subsubsection}{0pt}{*0}{0.3em}
```

Paragraph Formatting Paragraph indentation is removed to create a modern look, and word spacing is adjusted for better readability:

```
\setlength{\parindent}{0pt}
\spaceskip=0.3em
\xspaceskip=0.3em
```

Figures The template includes several customizations for figures:

- The default figure directories are set to './figures/' and './images/':

```
\graphicspath{{./figures/}{./images/}}
```

- A figure default figure width is defined as 0.5 of the text width, which can be easily changed:

```
% Set default width for graphics
% change me to change the default width
\graphicxGlobalKeys{width=0.5\textwidth}
```



Figure 1: An example PNG image with default width.



Figure 2: An example JPG image with custom width.

42 This default can also be overwritten in the typical way by specifying A different value for the width or scale parameters. Here
43 is an example of including a PNG image with the default width:

44 Here is an example of including a JPG image with a custom width:

45 Text can also wrap around a figure by using the

46 `wrapfigure`

47 environment as shown in Fig. 3.

48 **Hyphenation and Line Breaks** To improve text justifi-
49 cation and avoid overfull lines, hyphenation penalties and
50 tolerances are adjusted:

51 `\hyphenpenalty=5000`

52 `\tolerance=1000`

53 `\emergencystretch=.4em`

54 **Page Style** The document uses a plain page style to re-
55 move the title page, header, and footer:

56 `\pagestyle{plain}`

57 **Bibliography** The bibliography style is set to 'plain',
58 but you can change it to other styles like 'abbrv' or 'al-
59 pha' as needed:

60 `\bibliographystyle{plain}`

61 The bibliography can be included with the bibliography
62 command.

63 `\bibliography`

64 **Custom Commands** The template includes custom com-
65 mands for TODOs and comments, which are ignored dur-
66 ing compilation:

67 `\TODO{Fix This} % Inline TODO comments`

68 `\TODO{This is ignored} % Inline comments`

69 As well as a few quality of life commands such as

70 `\figref{fig:example} % Append Fig. before the reference number`

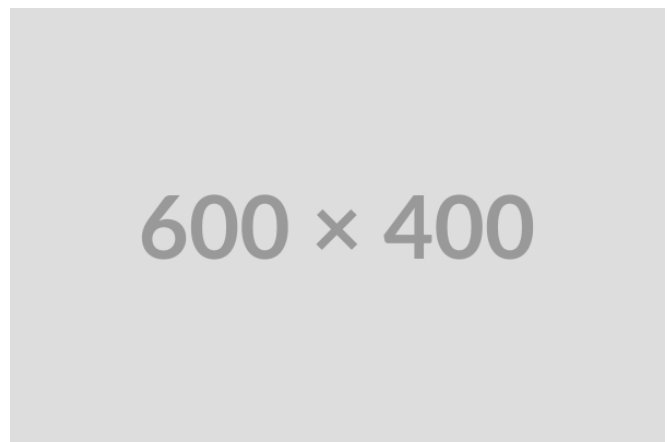


Figure 3: Text wraps around

71 **Draft Mode** For draft versions, line numbers can be enabled by setting the ‘draft’ boolean to true:

```
72 \newboolean{draft}  
73 \ifthenelse{\boolean{draft}}{  
74   \linenumbers  
75 }{}
```

76 **Conclusion** All these settings can be adjusted directly in the included ‘ndseg.sty’ file. This allows you to customize the tem-
77 plate according to your specific needs. Simply open the ‘ndseg.sty’ file and modify the relevant sections to suit your preferences.