Latex F.A.Q.

- How do I produce a double-spaced manuscript appropriate for copyediting?
  - `\renewcommand\baselinestretch{2}`
    That makes it really long, and puts the page breaks in strange places, and moves the figures around and stuff, but that's okay; it's not supposed to be pretty. It's supposed to be easy for the copyeditor to write on.
- How do I suppress the running head or page number on a blank page?
  - Use `\thispagestyle{empty}`
- How do I insert a completely blank page?
  - Use `\cleardoublepage`, which ensures that you'll start on a new right-hand page, and use `\thispagestyle{empty}` to suppress the running head and page number on the blank page.
- How can I use my own (or the AMS) version of the commands for proof, theorem, etc. with Princeton's class file?
  - Use the option with \newtheorem{user defined name}{Heading} Example: \newtheorem{corollary}{Corollary}
  - For Enunciation with sequence numbers, below options can be used:
    1. `thmnumcontinue` – Use this option to get the numbers in sequence. For example: Theorem 1, Lemma 2, etc.
    2. `thmnumwithchapter` – Use this option to get the numbers with corresponding chapter numbers. For example: Theorem 1.1, Lemma 1.1, etc.
    3. `thmnumcontwithchapter` – Use this option to get the numbers in sequence (considering all Enunciations in order) with corresponding chapter numbers. For example: Theorem 1.1, Lemma 1.2, etc.
- How do I create an index?
  - Using makeindex. Here's a 4-step overview.
    1. Invoke the makeindex package after `\documentclass` with `\usepackage{makeidx}`.
    2. Use `\makeindex` (with no arguments) somewhere between `\documentclass` and `\begin{document}`.
    3. Tag the text to create the index entries. Choose terms in the text body that you wish to appear in the text, and use the index command at the location where the term appears. The most basic way to tag an item for the index is `\index{sample index term}`. This entry will appear in the index, sorted alphabetically, with a dynamically generated page number. Makeindex can also create sub-entries, cross-references, page ranges, etc. See http://tex.loria.fr/bibdex/makeindex.pdf for details.
    4. Use `\printindex`. You can put it right before `\end{document}`, since the index is usually the last item to appear in a book.
- How do I reorder index entries? In other words, is it possible to override the automatic alphabetization?
  - Yes. In particular, you may wish to integrate all the math symbol entries into the alphabetic sections. Here's the method for re-alphabetizing: If you have an item that is marked `\index{$\Sigma$}` and want it to appear at

the beginning of the alphabetic section for S, use `\index{S@$\Sigma$}`; if you want it to be alphabetized as "Sigma," use `\index{Sigma@$\Sigma$}`.

- Does PUP have a BibTex style file I should use?
  - There is no PUP BibTex style file. We generally prefer for bibliographies to conform to Chicago style (which can be approximated using the BibTex style file `authordate1`), but this may not be appropriate for all fields. If there is a style you are accustomed to using (e.g., for previous books or journal articles), you may use it instead.
- How do I crosslink the bibliography entries with more styles using "Name and Year" style?
  - "natbib" package has been enabled in the template. For different styles of cross-linking options refer http://ctan.imsc.res.in/macros/latex/contrib/natbib/natbib.pdf
- How do I spell check the text in my Latex project?
  - There are several tools available:
    - Macintosh: http://excalibur.sourceforge.net/
    - Windows: http://www.microspell.com/
    - Unix: http://lasr.cs.ucla.edu/geoff/ispell.html or http://www.unb.ca/fredericton/science/chem/ajit/macros/spellchecker.htm
- My figures are sticking out into the margins too much. (I.e., they're wider than the paragraph text.) What's a good way to resize them?
  - Suppose you have graphics which may or may not be able to fit within the width of the page; **if** they will fit, **then** you want to set them at their natural size, but **otherwise** you want to scale the whole picture so that it fits within the page width. Follow these two steps.
    1. Define a variable called \maxwidth, like so:
       ```
       \makeatletter
           \def\maxwidth{%
             \ifdim\Gin@nat@width>\linewidth
               \linewidth
             \else
               \Gin@nat@width
             \fi
           }
           \makeatother
       ```
    2. Include your image files using the new \maxwidth command:
       `\includegraphics[width=\maxwidth]{figure}`
- How do I fix text overflow into the right margin (marked by black box in draft mode)?
  - Overflow is Latex's way of saying it needs human decision-making intervention. Try these options:
    1. globally suggest hyphenation for a nearby word in preamble using, for example, "`\hyphenation{auto-maton}`"
    2. hyphenate a troublesome word locally using "`\-`"
    3. change the equation that you are considering breaking into a displayed equation
    4. force line break using "`\linebreak`"
    5. use `\sloppy` before first word of paragraph and `\fussy` before first

word of next paragraph (this relaxes the internal rules for how much text is placed on one line)

6. use `\kern` to make all spaces in a line smaller (Example: If the line is overfull by 1 point, and there are 11 spaces on the line, including one after a period. Divide 1 point by 12, to get 0.083 points, put, `\kern-0.166pt` after the space following the period, and `\kern-0.083pt` after every other space.)

7. reword/rewrite text

- How do I include a frontispiece on page ii?
  1. Suppress the page number on page ii (use `\thispagestyle{empty}`).
  2. Insert the figure and then just put the caption text AFTER the figure on page ii, without actually putting the caption text inside a caption command. This prevents the assignment of a nonsense figure number.
  3. Don't make the image too big to fit on the page. The width should be at most `\textwidth`, the width of the text column. If the natural width is okay, omit the shown code for the width option from the `\includegraphics` command; if the figure is large, shrink it using the code as is.
  4. When inserting caption text, use the "`small`" font command to make the font the same size as for captions. Then return it to normal with the "`normalsize`" command.
  5. There is no need to list the frontispiece in the list of figures, as long as it already has a caption and source.
  6. Thus, the code for frontispiece insertion:
  ```
  \thispagestyle{empty}
  \begin{figure}
  \includegraphics[width=\textwidth]{filename}
  \end{figure}
  \noindent \small{Description of frontispiece image. \emph{Source:
  [insert relevant source info here].}}\normalsize
  ```