

From \begin to \end

The Complete LaTeX Guide

Day 5 of 7 — Document Structure & Long-Document Tools

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Format: 7-Day Intensive Course

Session: Day 5 of 7

Today's Agenda

- 1 Recap & Today's Goal
- 2 Table of Contents
- 3 Footnotes
- 4 Hyperlinks
- 5 Multi-file Projects
- 6 Page Numbering & Headers
- 7 Practice

Quick Recap: Day 4

Yesterday: BibTeX .bib files, natbib, author-year citation styles, citet vs. citep, and cross-referencing sections with \label/\ref.

Today's goal: move from a single short file to the structure a full paper or thesis-length document needs, with the navigation aids a reader – or a referee – expects.

Table of Contents

```
\begin{document}
\maketitle
\tableofcontents

\section{Introduction}
\section{Data and Methodology}
\section{Results}
```

Compiled Output

Contents

1	Introduction	1
2	Data and Methodology	2
3	Results	4

Why & What: `\tableofcontents` auto-generates a full TOC from every `\section` in your document – you type nothing else. It **updates automatically** on every recompile, including page numbers, so it never goes stale as you edit. It needs **two** compiles to settle those page numbers correctly the first time (Overleaf does the second pass for you).

How to Include a Footnote

```
Inflation targeting has been the dominant framework  
since the 1990s.\footnote{See \citet{nandi2024crude}  
for a related discussion of exchange-rate volatility.}
```

Compiled Output

Inflation targeting has been the dominant framework since the 1990s.¹

¹See Nandi (2024) for a related discussion of exchange-rate volatility.

Why & What: `\footnote{...}` does two things at once: it drops a small superscript number right where you typed the command (see the “1” after “1990s.” above), and it automatically prints the matching numbered note at the **bottom of that same page**, below a short rule – exactly as shown in the output box. Numbering is continuous and automatic across the whole document, so you never assign numbers yourself. Economics convention: use footnotes for asides or methodological details, and use citations (Day 4) for sources – don’t use footnotes as a second bibliography.

hyperref: Clickable Cross-References

```
\usepackage{hyperref}    % load LAST in the preamble  
  
See Section~\ref{sec:strategy} or visit  
\href{https://whiteglobeinitiative.org}{our website}.
```

Compiled Output

See Section [2](#) or visit [our website](https://whiteglobeinitiative.org).

Why & What: Loading `hyperref` turns every `\ref`, `\eqref`, `\cite`, and TOC entry into a **clickable link** in the PDF – shown in blue above, though colors are configurable. `\href{url}{text}` adds a real hyperlink. **Load order matters:** put `hyperref` as the *last* `\usepackage` in your preamble to avoid conflicts with other packages.

Splitting a Long Paper Across Files

```
% main.tex
\documentclass{article}
\usepackage{amsmath, natbib, hyperref}
\begin{document}
\maketitle
\tableofcontents
\input{introduction}
\input{literature}
\input{methodology}
\bibliography{references}
\end{document}
```

Compiled Output

Project files: main.tex, introduction.tex, literature.tex, methodology.tex, references.bib

One combined PDF – identical to writing it all in a single file.

Why & What: `\input{filename}` pulls in `filename.tex` at that exact point – write each section in its own file. The **compiled PDF looks no different**; only your project became easier to navigate. `\include` is a close cousin, better suited to *chapters*.

Page Numbering, Headers and Footers

```
\usepackage{fancyhdr}  
\pagestyle{fancy}  
\rhead{Draft -- Do Not Circulate}  
\lhead{Remittances and Consumption Smoothing}
```

Compiled Output

Remittances and Consumption Smoothing

Draft – Do Not Circulate

(page body here)

3

Why & What: Default article numbering is centered at the bottom – fine for most submissions. `fancyhdr` lets you add running headers, like the short title and a draft watermark shown above – common for working-paper versions. Check your target journal's template first (Day 6): most already configure this for you.

Hands-on Exercise

Hands-on Exercise

Split your running paper draft into separate files: `introduction.tex`, `literature.tex`, `methodology.tex`, `results.tex`, `conclusion.tex`. Assemble them into a `main.tex` using `\input`, add `\tableofcontents`, and add at least one `\footnote` somewhere in the text. Confirm the document compiles to a single, correctly ordered PDF.

Homework Before Day 6

Homework

Load `hyperref` and confirm every cross-reference (equations, tables, figures, sections, citations) is clickable and resolves correctly – fix any ?? you find.

Resources for today:

- Overleaf – “Sections and chapters” / “Table of contents”
- Overleaf – “Footnotes” / “Hyperlinks”
- Overleaf – “Multi-file LaTeX projects”
- Overleaf – “Page numbering” / “Headers and footers”
- Wikibooks LaTeX – Document Structure chapter

Journal Templates & Professional Formatting

Migrating your full paper into a real economics-journal template, end to end.

Thank You

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