

PharmTeX CHEAT SHEET

PharmTeX

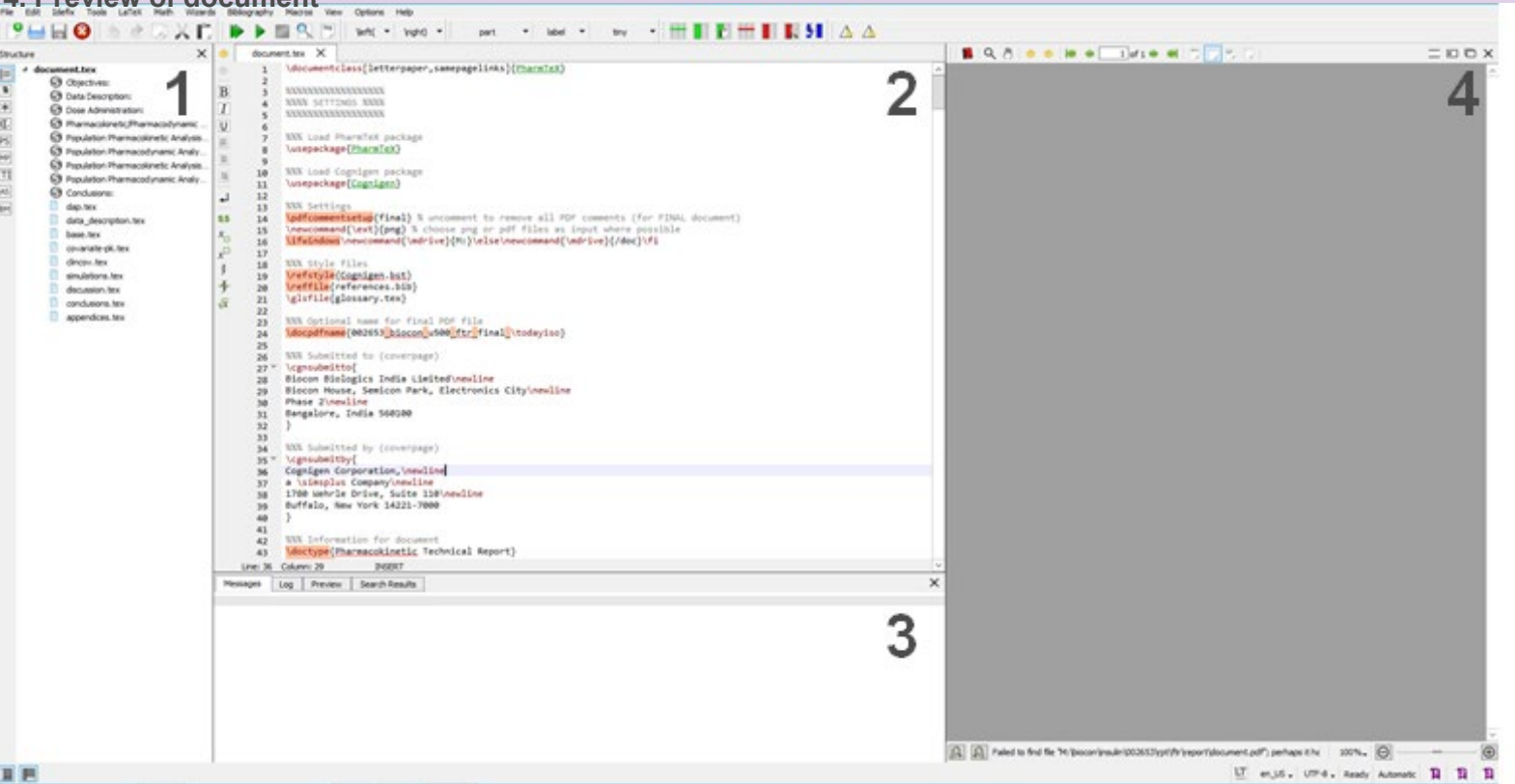
Navigating and Running PharmTeX in Texstudio

Open TexStudio: Lauch Windows Batch File and type in filename without extension

TeXStudio panes:

- 1. Access to different sections and documents in report
- 2. Where report text and figures go
- 3. Log file reports errors
- 4. Preview of document

Key	Function
F1	Full Compile
F2	Fast Compile
F3	View line in Pdf
F4	Clear Log
F5	JabRef
F6	Cheatsheet
F12	Finalize Report



Report Sections

`\section{Results}`
`\subsection{Data Description}`
`\subsubsection{Pharmacokinetic Data Description}`

- 4. Results
- 4.1. Data Description
- 4.1.1. Pharmacokinetic Data Description

Lists

Create bullet point and numbered lists using description, itemize and enumerate:

```
\begin{itemize}
  \item{\gls{PK} Model Results}
  \item{\gls{PD} Model Results}
\end{itemize}
```

- PK Model Results
- PD Model Results

Reserved Symbols

Input	Output
<code>\</code>	<code>—</code>
<code>\^{}{}</code>	Superscript Math
<code>_{}{}</code>	Subscript Math
<code>\%</code>	%
<code>\textbackslash</code>	<code>\</code>
<code>\&</code>	&
<code>\\$</code>	\$
<code>\{ ... \}</code>	{..}

References

Input	Description
<code>\label{eqn:example}</code>	Sets label for equation for reference
<code>\label{tab:example}</code>	Sets label for table for reference
<code>\label{sec:example}</code>	Sets label for section for reference
<code>\label{fig:example}</code>	Sets label for figure for reference
<code>\label{lst:example}</code>	Sets label for listing for reference

Greek and Special Characters

Input	Output
<code>\infty</code>	∞
<code>\alpha</code>	α
<code>\beta</code>	β
<code>\gamma</code>	γ
<code>\omega</code>	ω
<code>\tau</code>	τ
<code>\regtm</code>	\otimes

Basic Helpful Functions

Function	Description	Example	Output
<code>%</code>	Comment code	<code>%This is a comment</code>	
<code>\newacronym{acronym to be used in document}{acronym}{acronym description}</code>	Acronym definition	<code>\newacronym{PK}{PK}{pharmacokinetic}</code>	
<code>\pmxinclude{}</code>	Include additional PharmTeX documents	<code>\pmxinclude{dap.tex}</code>	
<code>\citen{reference}</code>	Inputs citation	<code>studies\citen{Rasmussen2012, Clary2020}.</code>	<code>studies^{1,2}.</code>
<code>\cref{reference}</code>	Hyperlinke to section, figure, equation and table in report	<code>Found in \cref{fig:vpc}</code>	<code>Found in Figure 1</code>

PharmTeX CHEAT SHEET

Tables, Figures and Listings

In-line Table

```
\pmxtable
[1] % optional: number of first rows to include as header
{C C C C C} % justification for each column
{tab:inline} % cross reference key
{Inline table} % caption
{Table created in document.} % description
{ a & b & c & d & e \\ % table code
1 & 2 & 3 & 4 & 5 \\
6 & 7 & 8 & 9 & 10 \\
11 & 12 & 13 & 14 & 15
}
```

Table from *.csv file

```
\pmxtable
[1] % optional: number of first rows to include as header
{table.csv} % filename and path to table
{comma} % delimiter
{C C C C C} % justification for each column
{tab:table} % cross reference key
{Table from file} % caption
{Table description.} % description
{} % replace header with a new one
```

Table Generated from Figure

```
\pmxfigtab
{table.html} % filename and path to table
{1} % optional: number of first rows to include as header
{fig:table} % cross reference key
{Table from file} % caption
{Table description.} % description
```

Inserting external PDF

```
\pmxpdf
{external.pdf} % filename
{c} % page number location in the bottom of the page: l, r, c
{pdf:pdffile} % cross reference key
{External PDF file.} % description
```

Inserting a Figure

```
\pmxfigure
{figure.png} % filename and path to figure
{fig:vpc} % cross reference key
{Visual predictive check} % caption
{Figure description.} % description
{scale=0.9} % figure options, e.g. scaling
```

Inserting Figures in Figure

```
\pmxfigure
{ % filenames: & = new column, | = new row
residual1.png & residual2.png |
residual3.png & residual4.png
}
{ % reference keys: first one for whole figure, then for each part
fig:residuals [fig:residual1] & [fig:residual2] |
[fig:residual3] & [fig:residual4]
}
{Residual plots} % caption
{Residual plots for final model.} % description
{ % figure options for each part
[scale=0.9] & [scale=0.9] | [scale=0.9] & [scale=0.9]
}
```

Inserting a Listing

```
\pmxlisting
{nonmem.mod} % input code file
{nonmem} % syntax highlighting
{lst:nonmem} % cross reference key
{Final model control stream} % caption
{gls{NONMEM} control stream for final model.}%description
```

Defining New Commands

Functions can be useful throughout writing of the PhamTeX document

```
\function{argument1}{argument2}{argument3}...
```

- 1. Print pdf comments in document:
`\newcommand{\inits}[1]{\pdfcomment[author=First Last]{#1}}`
- 2. Print acronyms for tables, figures
`\newcommand{\acrsl}[1]{\acrshort{#1}, \acrlong{#1}}`
- 3. New Acronym not in Glossary
`\newacronym{acronym to be used in document}{acronym}{acronym description}`

Equations

Function	Description	Example	Output
<code>\begin{align}</code> <code>\end{align}</code>	Begin and end equation environment		
<code>\frac{}</code>	Fraction	<code>\frac{d n_D}{dt}</code>	$\frac{dn_D}{dt}$
<code>\sqrt{}</code>	Square root	<code>\sqrt{x}</code>	\sqrt{x}
<code>\x</code>	Multiplication	<code>2 \x 3</code>	$2 * 3$
<code>\log</code>	Natural Log		
<code>\begin{split}</code> <code>\end{split}</code>	Split an equation on to multiple lines using \\		
<code>\$...\$</code>	Inline Equations	We used <code>\$\sqrt{x}\$</code> for this	We used \sqrt{x} for this

Formatting

Input	Description
<code>\s{}</code>	subscript
<code>\textit{}</code>	Italics
<code>\textbf{}</code>	Bold
<code>\underline{}</code>	Underline
<code>\newpage</code>	New Page
<code>\linebreak</code>	Line Break
<code>\pagebreak</code>	Page Break
<code>\\</code>	New line in Equations

Using Glossary Commands

Function	Description
<code>\gls{acronym}</code>	Acronym defined on first use
<code>\Gls{acronym}</code>	Capitalized form of <code>\gls{}</code>
<code>\glsp{acronym}</code>	Plural form of <code>\gls{}</code>