LaTeX Script – Part 1 (Document Structure and Headings)

* Go to Overleaf
* Create Account
* Create a new project – blank, explain basic syntax and term “environment”
  + You will seldom start from scratch in the future
* Describe overall structure and how things work .tex file => .pdf
* Explain document class and consider alternatives
* Explain key bindings (vim)
* Wipe out document except for document class and start building from scratch - no
* Consider the stuff that comes before the begin document
* Add author, date before begin document
* Add maketitle after begin document
* Explain comments
* Define basic structure:
* Add headings
  + Introduction
  + Methods
  + Results
  + Discussion
  + Conclusion
* Section, Subsection, SubSubsection
* Cover internal references to sections
  + \label
  + \ref
* So how to do sections without numbers
* Table of contents
* Explain options for font and two column
* Explain packages (use lipsum) – explain why
* Explain use of \LaTeX

(Added \newpage)

Save document and we’ll pick up here in the next video

Stop end of Part 1

LaTeX Script – Part 2 (abstract, text input and basic formatting)

* Add abstract
* Basic text formatting – under introduction
  + Bold, italics, emph, Explain curly bracket notation versions
  + \\ not indented
  + Add extra returns to start a new paragraph
  + Use \noindent if you don’t want that
* Explain manual adjustments \hspace and \vspace
  + Use these sparingly
* Note how overleaf will highlight misspellings
* Unbreakable sentence
* Save document and we’ll pick up here in the next video

Added how to copy a document in Overleaf

Stop end of Part 2

LaTeX Script – Part 3 (Lists)

* \itemize
* \enumerate
* Explain separator spacing (\setlength{\itemsep}{-5pt})

Save document and we’ll pick up here

Added color (xcolor) using \textcolor command

Stop end of Part 3

LaTeX Part 4 – Figures

* Need some files to use
* Includegraphics[]{}
  + Coversizing options width=0.5\columnwidth
* Usepackage{graphicx}
* \begin{figure}[t b h]
* Explain [t b h]
* \centering
* \caption{}
* \label{}{fig:…}
* \listoffigures

Save document and we’ll pick up here

LaTeX Part 5 – Tables

* Build using a {tabular} environment
* [c r l] explain
* Add lines between columns
* Add horiz lines
* Doublelines
* Wrap in a table environment
* Add caption
* Add centering

Save document and we’ll pick up here next week