

# Simple Latex Tutorial

Siva Reddy,  
School of Informatics  
University of Edinburgh  
siva.reddy@ed.ac.uk

## Abstract

This is the abstract

## 1 Introduction

Here comes the introduction

## 2 Research Problem/Hypothesis

Research Problem is to prove that  $1 == 2$ .

### 2.1 How to use subsection

This is the subsection

## 3 How to insert figures?

Figure 1 displays a bird. There are different properties for figures. If you want to insert a figure just below this line, just use `\includegraphics` without embedding in the class `\begin{figure}`.

More advanced features described at [http://en.wikibooks.org/wiki/LaTeX/Floats,\\_Figures\\_and\\_Captions](http://en.wikibooks.org/wiki/LaTeX/Floats,_Figures_and_Captions)

## 4 Labeling

Labels are great way to refer to sections, figures, tables or anything. Here I can refer to Section 2.1 since I already defined a label for it using the command `\label`.



Figure 1: A picture of a gull.

## 5 How to use references

We use a weak supervision algorithm (Krishnamurthy and Mitchell, 2012) to train our model.

Krishnamurthy and Mitchell (2012) proposed a weak supervision algorithm.

See the differences in paranthesis.

You could also use multiple references at the same time just like (Ge and Mooney, 2005; Kwiatkowski et al., 2010).

You just need to change `\bibliographystylexxxxx` to have different styles of referencing.

Here is a great document if you would like to try various styles <http://gking.harvard.edu/files/natnotes2.pdf>.

## 6 How to use an url?

Many datasets can be downloaded from <http://sivareddy.in/downloads>.

Documentation of urls at <http://en.wikibooks.org/wiki/LaTeX/Hyperlinks>

## 7 Table

1	2	3
4	5	6
7	8	9

Additional documentation on tables at <http://en.wikibooks.org/wiki/LaTeX/Tables>.

## 8 Simple Maths

This is a simple equation  $\pi r^2$ . Complicated equations can also be written such as Equation 1. You can write any equation. All you need is to Google for latex symbols or use eclipse suggestion if you have basic idea of symbol names.

$$\operatorname{argmax}_{L',M} \left[ \left( \prod_{\substack{w_i \in S \\ (w_i, l_j) \in L'}} \phi(w_i, l_j, S, B) \right) \psi(M, L', S, B) \right] \quad (1)$$

Documentation on math package and list of symbols is at <http://en.wikibooks.org/wiki/LaTeX/Mathematics>.

All the best with latex and have fun.

## References

- Ge, R. and Mooney, R. (2005). A statistical semantic parser that integrates syntax and semantics. In *Proceedings of the Ninth Conference on Computational Natural Language Learning*, pages 9–16. Association for Computational Linguistics.
- Krishnamurthy, J. and Mitchell, T. (2012). Weakly supervised training of semantic parsers. In *Proceedings of the 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning*, pages 754–765, Jeju Island, Korea. Association for Computational Linguistics.
- Kwiatkowski, T., Zettlemoyer, L., Goldwater, S., and Steedman, M. (2010). Inducing probabilistic ccg grammars from logical form with higher-order unification. In *Proceedings of the 2010 conference on empirical methods in natural language processing*, pages 1223–1233. Association for Computational Linguistics.