

Introduction to and Basics of \LaTeX

Sponsored by Qualcomm

Alex Ray¹

¹College of Textiles
North Carolina State University

NC State Linux User Group, 2009

Outline

1 Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- foookoooo
- Previous Work

2 Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Outline

1 Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- fooooooooo
- Previous Work

2 Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Code

```
\documentclass{article}  
\title{Cartesian closed categories %  
      and the price of eggs}  
\author{Jane Doe}  
\date{September 1994}  
\begin{document}  
  \maketitle  
  Hello world!  
\end{document}
```

Results

Cartesian closed categories and the price of eggs

Jane Doe

September 1994

Hello world!

What is \LaTeX , anyway?

Outline

1 Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- fooooooooo
- Previous Work

2 Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

What is \LaTeX , anyway?

\TeX

...before \LaTeX

- Typesetting system created by Donald Knuth
- Anybody could produce high-quality typography (in theory)
- Made to typeset complex mathematical formulae
- Popular in academic settings
- Difficulty and effort required gave rise to simplifications...

What is L^AT_EX, anyway?

... enter L^AT_EX

“Lah-tech” or “Lay-tech” as in Greek $\tau\epsilon\chi$

- Package of macros based on T_EX
- Created by Leslie Lamport
- Simplifies T_EXtypesetting, especially for mathematical formulae
- Many additional packages and styles contributed by the community
- Archived in the Comprehensive TeX Archive Network (CTAN)¹

¹<http://www.ctan.org/>

Outline

1

Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- **fooooooooo**
- Previous Work

2

Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays...

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Outline

1

Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- fooooooooo
- Previous Work

2

Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Make Titles Informative.



Make Titles Informative.

Outline

1 Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- fooooooooo
- Previous Work

2 Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Outline

1 Introduction

- A Quick “Hello World”
- What is \LaTeX , anyway?
- fooooooooo
- Previous Work

2 Our Results/Contribution

- Main Results
- Basic Ideas for Proofs/Implementation

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Summary

- The **first main message** of your talk in one or two lines.
- The **second main message** of your talk in one or two lines.
- Perhaps a **third message**, but not more than that.
- Outlook
 - Something you haven't solved.
 - Something else you haven't solved.

For Further Reading I



A. Author.

Handbook of Everything.

Some Press, 1990.



S. Someone.

On this and that.

Journal of This and That, 2(1):50–100, 2000.