

Chuck Garner, Ph.D.

Department of Mathematics Rockdale Magnet School for Science and Technology

Georgia Mathematics Conference, October 2010



IAT_EX

Garnei

What is IAT_EX?

Typesetting, Not Processing How Does It Work? History and Philosophy

What's So Great About LAT_FX?

Classes, Styles, Fonts Labeling and References Mathematics Typesetting Extending BTgX Graphics Citations

So Why Should I Use IAT_EX?

Top 8 Reasons To Use EIFX Obtaining EIFX

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Outline

What is LATEX?

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So Why Should I Use LaTEX?

Top 8 Reasons To Use \[EX] Obtaining \[EX]

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So Why Should I Use IAT_EX?

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- A typesetter produces well-designed books or articles intended to be read.
- LATEX takes raw text (a text file) and typesets it (the output file).

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How Does It Work? History and Philosophy

What's So Great About LAT_FX?

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- A typesetter produces well-designed books or articles intended to be read.
- LATEX takes raw text (a text file) and typesets it (the output file).

Platform Windows, Unix/Linux, Mac, ...

Quality Camera-ready output

Extendable Customizable for any project

Flexible Produces output as PostScript, pdf, html, ...

Free The most stable open source software

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So Why Should I Use

Microsoft Word Versus La TEX

WYSIWYG Versus WYSIWYW

Kerning In Word: Table In MTEX: Table

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Microsoft Word Versus & FEX

WYSIWYG Versus WYSIWYW

Kerning In Word: Table In MTEX: Table Ligatures In Word: fire flower In MTEX: fire flower

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Microsoft Word Versus La Frex Microsoft Word Versus

WYSIWYG Versus WYSIWYW

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 In ETEX:
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 Ligatures
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 Small caps
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Hyphenation Automatic at line breaks between syllables

 Graphics taken from the essay "The Beauty of MTEX" by Dario Taraborelli, http://nitens.org/taraborelli/latex lat_Ex

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From Mark-Up to Output

From Plain Text to Professional Text!

```
\documentclass[11pt]{article}
```

```
\title{Laden and Unladen Swallows}
\author{M.\ Python, B.S.}
```

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

\section{Introduction}

In this paper, we examine the puzzle of the laden versus the unladen swallow. It is known that the unladen swallow will travel faster than the laden swallow, unless the laden swallow is carrying more than five coconuts. Both Henri Poincar\'e and Paul Erd\H{o}s agree \ldots

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What is LATEX? Typesetting, Not Processing How Does It Work? History and Philosophy

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So Why Should I Use IAT_EX?

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Laden and Unladen Swallows

M. Python, B.S.

February 16, 2010

1 Introduction

In this paper, we examine the puzzle of the laden versus the unladen swallow. It is known that the unladen swallow will travel faster than the laden swallow, unless the laden swallow is carrying more than five coconuts. Both Henri Poincaré and Paul Erdős agree ...

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So Why Should I Use IAT_EX?

1. Plain text file (myfile.tex)

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So Why Should I Use IATEX?

Top 8 Reasons To Use ETEX Obtaining ETEX

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- 1. Plain text file (myfile.tex)
- **2.** Process the text file " $\mathbb{E}T_{E}X$ it"

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- 1. Plain text file (myfile.tex)
- 2. Process the text file "
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- 3. Generate the output (myfile.dvi)

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- 2. Process the text file "
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- 3. Generate the output (myfile.dvi)
- 4. Convert it (myfile.pdf, myfile.ps, whatever) If okay, continue; otherwise go to step 1

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- 5. Print, publish, post

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- ▶ 1978, Donald Knuth created T_EX and METAFONT
- 1985, Leslie Lamport created macro add-ons
- ▶ 1989, T_EX and METAFONT frozen
- ▶ 1990, AMS released A_MS -T_EX, and later, A_MS -ET_EX
- Current version is $\mathbb{E}T_{E}X 2_{\mathcal{E}}$

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What is LATEX? Typesetting, Not Process

How Does It Work?

What's So Great About LAT_FX?

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So Why Should I Use

- Content and presentation are separate
- Author should focus on content
- Layout and presentation determined by the software
- Good typesetting makes the content easy to read and is itself invisible



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Top 8 Reasons To Use ET_EX Obtaining ET_EX

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The Overall Design Format.

- Article
- Book
- Report



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The Overall Design Format.

- Article
- Book
- Report
- Memoir, exam, amsbook, cv, etc.

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- ▶ Roman: Knights of the Round Table (serif)
- Sans-serif: Knights of the Round Table
- Monospaced: Knights of the Round Table (fixed width or "typewriter")

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- Sans-serif: Knights of the Round Table
- Monospaced: Knights of the Round Table (fixed width or "typewriter")

Font styles

- ▶ Italics: Knights of the Round Table
- Slanted: Knights of the Round Table
- ▶ SMALL CAPS: KNIGHTS OF THE ROUND TABLE
- Bold: Knights of the Round Table

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Labeling and References

Easy to Use and Automatically Generated.

1 The Physics of Swallows

We give the introductory physics of small birds in this section. In Section 2 we focus on laden swallows.

2 The Laden Swallow

As promised in Section 1, we give results concerning laden swallows. The basic result is

$$V_l = \frac{V_s}{gc}.$$
 (1)

In equation 1, c represents the number of coconuts.

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\section{The Physics of Swallows}\label{physics}

We give the introductory physics of small birds in this section. In Section \ref{laden} we focus on laden swallows.

\section{The Laden Swallow}\label{laden}

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As promised in Section \ref{physics}, we give results concerning laden swallows. The basic result is
```

\begin{equation}\label{ladeneq}

 $V_1 = \frac{V_s}{gc}. \end{equation}$ In equation \ref{ladeneq}, \$c\$ represents the number of coconuts.

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• Note that 2 + 3 = 5 looks better than 2+3=5.

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- Note that 2 + 3 = 5 looks better than 2+3=5.
- This is "inline" math: $\int_2^3 x^2 dx = \frac{19}{3}$.

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- This is "inline" math: $\int_2^3 x^2 dx = \frac{19}{3}$.
- This is "display" math:

$$\int_{2}^{3} x^{2} dx = \frac{19}{3}$$

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- Note that 2 + 3 = 5 looks better than 2+3=5.
- This is "inline" math: $\int_2^3 x^2 dx = \frac{19}{3}$.
- This is "display" math:

$$\int_{2}^{3} x^{2} dx = \frac{19}{3}$$

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Let's look at a more intense example...

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Mathematics

Example 1. Evaluate $\iint_{S} \mathbf{F} \cdot \mathbf{n} \, d\sigma \, if \, \mathbf{F} = (x^3 + \sin z)\mathbf{i} + (x^2y + \cos z)\mathbf{j} + e^{x^2+y^2}\mathbf{k}$ and S is the surface of the region bounded by $z = 4 - x^2$, y + z = 5, and z = y = 0.

Solution. By the Divergence Theorem, we have

$$\iiint_{R} (3x^{2} + x^{2} + 0) \, dx \, dy \, dz = \iiint_{R} 4x^{2} \, dx \, dy \, dz$$
$$= \int_{-2}^{2} \int_{0}^{4-x^{2}} \int_{0}^{5-z} 4x^{2} \, dy \, dz \, dx$$
$$= \int_{-2}^{2} \int_{0}^{4-x^{2}} 4x^{2}(5-z) \, dz \, dx$$
$$= \int_{-2}^{2} (20x^{2}z - 2x^{2}z^{2}) \Big|_{0}^{4-x^{2}} dx$$
$$= \int_{-2}^{2} (48x^{2} - 4x^{4} - 2x^{6}) \, dx = \frac{4608}{35}.$$

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Mathematics

\begin{proof}[Solution.] By the Divergence Theorem, we have \begin{align*} \tilde{x}^2+x^2+0 dx dy dz &= $\iiint\limits_R 4x^2\ dx\ dy\ dz\$ $\&= \int \left(-2\right)^2 \int \left(-x^2\right) \int \left(-x^2\right)^2 \int \left($ $4x^2 dy dz dx$ $\&= \int \frac{-2}{2} \int \frac{4-x^2}{4x^2(5-z)} dz dx$ $\&= \int \left(20x^{2}z^{2}\right)^{2} Bigl(20x^{2}z^{2}z^{2})^{2}$ $Bigr|_0^{4-x^2} dx$ $\&= \int \left(48x^2 - 4x^4 - 2x^6\right) dx$ = $tfrac{4608}{35}$. \gedhere $\end{align*}$ \end{proof}

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Called by \usepackage



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- Fonts: \usepackage{times}

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- Fonts: \usepackage{times}
- AMS packages extend math symbols and theorem styles: \usepackage{amsmath, amsthm}



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- Environments: \usepackage{multicol}

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Top 8 Reasons To Use 환환자 Obtaining 반환자 Command macros may be defined by the user – Ultimate customization!

- Defines an "example" environment: \theoremstyle{plain}
 \newtheorem{ex}{Example}
- Define a "vector" formatting: \newcommand{\vect}[1]{\mathbf{#1}}

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- Defines an "example" environment: \theoremstyle{plain}
 \newtheorem{ex}{Example}
- Define a "vector" formatting: \newcommand{\vect}[1]{\mathbf{#1}}
- Re-define the "vector" formatting: \newcommand{\vect}[1]{\vec{#1}}

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- Defines an "example" environment: \theoremstyle{plain}
 \newtheorem{ex}{Example}
- Define a "vector" formatting: \newcommand{\vect}[1]{\mathbf{#1}}
- Re-define the "vector" formatting: \newcommand{\vect}[1]{\vec{#1}}
- Define the i-j-k vector form: \newcommand{\vijk}[3] {#1\vect{i} #2\vect{j} #3\vect{k}}

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So Why Should I Use

Symbols

- All Greek letters
- Virtually every math symbol
- Called by name, i.e., \$\pi\$ produces π,
 \$\forall\$ produces ∀, \$\pm\$ produces ±



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Symbols

- All Greek letters
- Virtually every math symbol
- Called by name, i.e., \$\pi\$ produces π,
 \$\forall\$ produces ∀, \$\pm\$ produces ±

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- Use any program you like to create your graphics, and save it as
 - .eps if PostScript is the output
 - .pdf, .jpg, .png if pdf is the output
- Put \usepackage{graphicx} in your .tex file
- \includegraphics[options]{name_of_file}

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- Use any program you like to create your graphics, and save it as
 - .eps if PostScript is the output
 - .pdf, .jpg, .png if pdf is the output
- Put \usepackage{graphicx} in your .tex file
- \includegraphics[options]{name_of_file}
- Using the figure environment "floats" the graphic and provides a \caption command
- Tables have a similar environment

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Automatic reference lists

- BibT_EX is a textfile of reference data saved as myfile.bib
- Bibliographies automatically generated by using \bibliographystyle{style name} \bibliography{myfile}
- Citation and reference list style is customizable: APA, Chicago, AMS, Law, etc.

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Top 8 Reasons To Use ETEX Obtaining ETEX

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Sample BibT_EX Entry

```
@ARTICLE{python,
  author={Monty Python},
  title={Laden and unladen swallows},
  journal={Grail Monthly},
  volume=20,
  number=3,
  month={June},
  year=1975}
```

The author M.\ Python \cite{python} stipulates that coconuts are the only factor in the velocity of laden swallows \ldots

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Bibliographic Sample, Plain

1 Plain Style

The author M. Python [1] stipulates that coconuts are the only factor in the velocity of laden swallows \ldots

References

 Monty Python. Laden and unladen swallows. Grail Monthly, 20(3), June 1975.



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Bibliographic Sample, APA

1 APA Style

The author M. Python (Python, 1975) stipulates that coconuts are the only factor in the velocity of laden swallows \ldots

References

Python, M. (1975, June). Laden and unladen swallows. Grail Monthly, 20(3).



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```
We give results concerning laden swallows.
\index{swallow!laden} The basic result is
\begin{equation}\label{ladeneq}
    V_l = \frac{V_s}{gc}.
\end{equation}
In equation \ref{ladeneq}, $c$ represents the
number of coconuts.\index{coconuts!number of}
```

The \index command automatically puts the entries *coconuts, number of* and *swallow, laden* in the index in alphabetical order with the corresponding page numbers. The \makeindex command gathers the entries, and \printindex typesets the index.

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Top 8 Reasons To Use LATEX



Image by Marko Pinteric, www.pinteric.com/miktex.html.

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1. Cross-platform encourages collaboration

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- 1. Cross-platform encourages collaboration
- 2. Control of chapters, sections, references, figures, tables



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- 2. Control of chapters, sections, references, figures, tables
- 3. Professional output

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- 4. Automatic generation of indexes and bibliographies



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- 4. Automatic generation of indexes and bibliographies
- 5. Multi-lingual

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 - Not just math: linguistics, physics, chemistry, computer science
- 4. Automatic generation of indexes and bibliographies
- 5. Multi-lingual
- 6. Packages for typesetting music scales, hieroglyphics, calendars, CD covers, resumés, Feynman diagrams, trees, chess, runes, barcodes, etc.



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- 6. Packages for typesetting music scales, hieroglyphics, calendars, CD covers, resumés, Feynman diagrams, trees, chess, runes, barcodes, etc.
- 7. Beautiful mathematics

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- 3. Professional output
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- 4. Automatic generation of indexes and bibliographies
- 5. Multi-lingual
- 6. Packages for typesetting music scales, hieroglyphics, calendars, CD covers, resumés, Feynman diagrams, trees, chess, runes, barcodes, etc.
- 7. Beautiful mathematics
- 8. Free!

IAT_EX

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What is IAT_EX?

lypesetting, Not Processing How Does It Work? History and Philosophy

What's So Great About IAT_EX?

Classes, Styles, Fonts Labeling and References Mathematics Typesetting Extending BT_EX Graphics Citations

So Why Should I Use MTEX?

Top 8 Reasons To Use BT<u>F</u>X Obtaining BT<u>F</u>X

Outline

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Typesetting, Not Processing How Does It Work? History and Philosophy

What's So Great About LATEX?

Classes, Styles, Fonts Labeling and References Mathematics Typesetting Extending Lager Graphics Citations

So Why Should I Use LaTEX?

Top 8 Reasons To Use LATEX Obtaining LATEX

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So Why Should I Use IAT_EX?

Top 8 Reasons To Use ETEX Obtaining ETEX

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Windows The MikT_EX 2.8 distribution with the T_EXnicCenter 2.0 editor or the T_EXworks 0.2.3 editor, www.miktex.org (111 MB)

Mac The MacT_EX 2010 distribution with the T_EXShop 2.37 editor or the T_EXworks 0.2.3 editor, www.tug.org/mactex (1.6 GB)

Linux MikT_EX 2.8 with Kile 2.0.3 for KDE, kile.sourceforge.net (Kile: 12.4 MB)

lat_Ex

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What is IAT_EX?

Typesetting, Not Processing How Does It Work? History and Philosophy

What's So Great About LAT_FX?

Classes, Styles, Fonts Labeling and References Mathematics Typesetting Extending BT_EX Graphics Citations

So Why Should I Use IATEX?



🍆 Leslie Lamport. *BT_FX, a Document Typesetting System.* Addison-Wesley, 1994.

🔈 Tobias Oetiker, et al.

The Not So Short Introduction to $\mathbb{E}T_F X 2_{\mathcal{E}}$ (Or $\mathbb{E}T_F X 2_{\mathcal{E}}$ in 141 Minutes), Version 4.26.

http://www.ctan.org/tex-archive/info/lshort/ english/lshort.pdf

💊 Frank Mittelbach, et al *The LATEX Companion*, 2nd edition. Addison-Wesley, 2004.

📎 http://www.ctan.org and http://www.tug.org The Comprehensive TFX Archive Network The TFX Users Group

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Appendix

Garner

Appendix

This presentation, with active hyperlinks, will be posted at

http://web.me.com/drcgarner

(Click on "Presentations" at the top)

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