

# Introduction to X<sub>3</sub>LaTeX

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# What is X<sub>Y</sub>LaTeX?

- ▶ it is a mark-up language for typesetting and text writing (and more)
- ▶ it is a variant of the LaTeX format that introduced full Unicode support and .ttf, .otf font handling
- ▶ it is implemented by the X<sub>Y</sub>TeX engine, that is derived from the TeX system

# How does it work?

- ▶ put the  $\text{X}_{\text{Y}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  code in a `.tex` with the content of your document
- ▶ the  $\text{X}_{\text{Y}}\text{L}_{\text{A}}\text{TEX}$  engine reads and typeset the code
- ▶ a `.pdf` file with your document is produced

# Get it!

- ▶ download a T<sub>E</sub>X distribution (*distro*)
  - ▶ MikTeX
  - ▶ TeXlive
  - ▶ MacTeX
- ▶ a *distro* contains both the systems and the engines, plus software that ease the typesetting process

# Document class

```
1 \documentclass{article}  
2  
3  
4 \begin{document}  
5  
6 Hello .  
7  
8 \end{document}
```

# Headings

```
1 \documentclass[12pt,a4paper]{article}
2
3 \begin{document}
4 \tableofcontents
5 \section{Introduzione}
6 Text...
7
8 \subsection{Premesse}
9 Text...
10
11 \end{document}
```

# Title

```
1 \documentclass{article}
2 \title{Introduction to linguistics}
3 \author{John Smith}
4 \date{}
5
6 \begin{document}
7 \maketitle
8 ...
```



# Packages

```
1 \documentclass{article}
2
3 \usepackage{fontspec}
4   \setmainfont{Arial Unicode MS}
5 \usepackage{polyglossia}
6   \setmainlanguage{english}
7   ...
```

# Text layout

- 1 For a new paragraph, leave an empty row.
- 2
- 3 This is the new paragraph. To format your text  
: `\textit{italics}`, `\textbf{bold face}`.
- 4
- 5 For a footnote. `\footnote{This is a footnote.}`

# Bulleted and numbered lists

```
1 \begin{itemize}
2 \item Gender: masculine, feminine
3 \item Number
4   \begin{enumerate}
5   \item singular
6   \item plural
7   \end{enumerate}
8 \end{itemize}
```

# Bulleted and numbered lists

- ▶ Gender: masculine, feminine
- ▶ Number
  1. singular
  2. plural

# Numbered examples

```
1 \usepackage{gb4e}
2 ...
3 \begin{exe}
4 \ex Nel mezzo del cammin di nostra vita
5 \ex
6   \begin{xlist}
7   \ex Mi ritrovai per una selva oscura
8   \ex Che la diritta via era smarrita
9   \end{xlist}
10 \end{exe}
```

# Numbered examples

- (1) Nel mezzo del cammin di nostra vita
- (2)
  - a. Mi ritrovai per una selva oscura
  - b. Che la diritta via era smarrita

# Tables

```

1  \usepackage{ctable}
2  ...
3  \ctable[caption=Objects,
4  label=obj,
5  pos=t
6  ]{lcc}{}{
7  \FL
8   & Given O & New O \ML
9  VOP & 85 & 65 \NN
10 VPO & 100 & 147 \LL
11 }

```

# Tables

Table 1: Objects

	GIVEN O	NEW O
VOP	85	65
VPO	100	147



# Interlinear glosses

```

1 \begin{exe}
2 \ex \gl{Mi sdirrup-a-ia cu tutt-a a lap-a.} \\
3 \ls.\SC{refl} tumble-\SC{thm}-ls.\SC{past} \SC{com}
  all-\SC{f} \SC{def}.\SC{f} Piaggio.Ape-\SC{f} \\
4 \gl{I tumbled with the whole Piaggio Ape.}
5 \end{exe}

```

# Interlinear glosses

- (3) **Mi        sdirrup-a-ia        cu   tutt-a a**  
 1s.REFL tumble-THM-1S.PAST COM all-F    DEF.F  
**lap-a.**  
 Piaggio.Ape-F  
 “I tumbled with the whole Piaggio Ape.”

# Cross-referencing

```
1 \section{Methodology}
2 \label{metho}
3 Testo ...
4 \begin{exe}
5 \ex\label{es} Stay hungry, stay foolish.
6 \end{exe}
7
8 \section{Conclusioni}
9 As I said in section \ref{metho}... In example
   (\ref{es})...
```

# Bibliography

```

1 \usepackage{natbib}
2 \setcitestyle{aysep={},notesep={:}}
3 ...
4 As suggested by \citet[45--47]{dixon2001intro
  }... This was proved by several works \citep{
  dryer13,goldsmith1986auto,givon2002syntax}...
5 ...
6 \bibliography{mybib}
7 \bibliographystyle{unified}

```