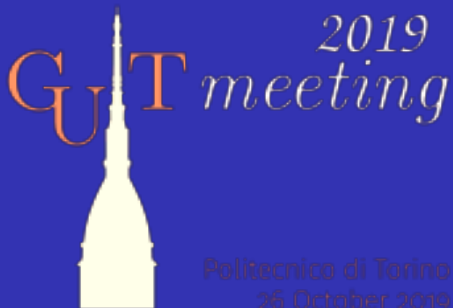


Lesson 0

Introduction to L^AT_EX and some of its tools



Gianluca Pignalberi
Massimiliano Dominici

Guess What! (Appetizer)

This is a short test to check whether you're typography-savvy and how well you know \LaTeX .

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This is a short test to check whether you're typography-savvy and how well you know L^AT_EX.

The next slides show some pages from books, journals and covers typeset by this lesson authors.

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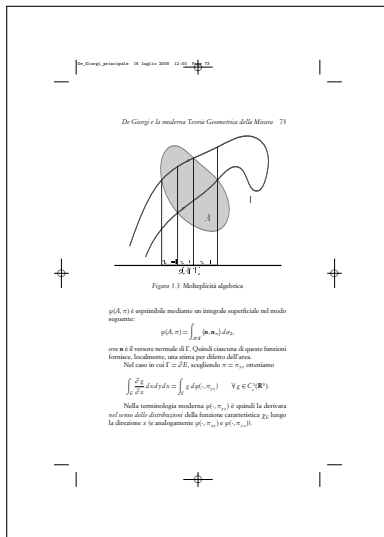
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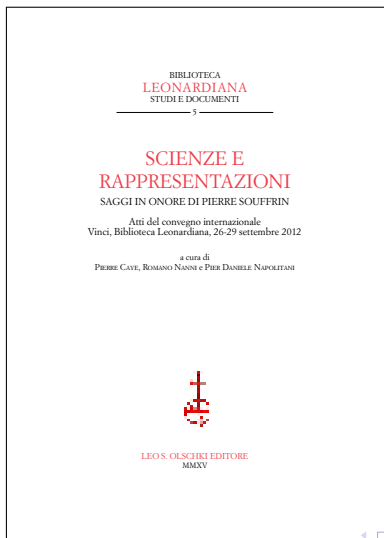
Please, write down the image number followed by B if you think the page has been typeset with L^AT_EX, followed by an A otherwise.

We'll see the solutions at the end of the lesson.

1: Mathematical formulae and diagrams



2: Frontispiece of a proceedings volume, published by Olschki



3: Multilingual parallel texts, from the same volume

beam in terms of thickness and matter mean both equal and similar in Arabic. There is a clear preference in Arabic mathematical texts for using the first for equal and the second for similar. Thus, Knorr translated them in this manner (KNORR 1982, p. 139). In the given context it is clear though that similarity is NOT meant literally, but in the sense of having the same property. This ambiguity reflects the use of ῥῶς and ῥῶσις for respective concepts in Greek.

5.2. Investigation 2

Liber de Canonico, Proposition II

Si fuerit proportio ponderis in termino minoris portionis suspensae, ad superhabundantiam ponderis maioris portionis ad minorem, sicut proportio longitudinis totius canonis ad diametrum longitudinis minoris portionis, erit canonium parallelum epipedo orizontis (MOODY & CLAGETT 1952, p. 66).

If the proportion of the weight suspended at the end of the smaller portion to the surplus of the weight of the greater portion to the smaller will be like the proportion of the length of the entire beam to the double of the length of the smaller portion, the beam will be parallel to the surface of the horizon (Cl. MOODY & CLAGETT 1952, p. 67).

Again, the content of both theorems is the same and the two enunciations are similar, but not identical. Their difference is greater than in the previous case, because the *Liber de canonico* does not repeat the description of the properties of the beam and the suspended weight and thus has to integrate the latter into the description of the proportion. It differs from the *ziyāda* also in regard to the placement of the term *weight* in the description of the second term of the proportion. The *Liber de canonico* uses the term only once between *superhabundantiam* and *maioris*. The *ziyāda* uses it twice, once before the surplus and once before the shorter part. While the formulation of the *Liber de canonico* is imprecise, but comprehensible, the formulation of the *ziyāda* is comprehensible, but false. It is most likely the result of a scribal error as

MS Beirut, *ziyāda*, Proposition 4

إذا كان عمود متساوي النظم متساوي أطوار وقم بتسعين مثاقيل وتعلق بثلاثة أطراف الأضراس نقل وحملت أسية النقل إلى نقل عمل الأضراس على نقل الأضراس كسنة عمود طول العمود كما إلى طول الأضراس فإن العمود يتعدل على موازات الأضراس.

(KNORR 1982, p. 154).

If there is a beam, (which is) equal in itself in thickness, equal in itself in substance and partitioned in two different parts and (if) a weight is suspended at the end of the shorter part and the ratio of the weight to the weight of the surplus of the longer part over the weight of the shorter part is made like the ratio of half of the length of all of the beam to the length of the shorter part, then the beam equalbeats itself in parallelness to the horizon.

4: Automatic line numbering, from the same volume

PAOLA MANNI
SULLA TERMINOLOGIA DELLE MACCHINE IN LEONARDO:
TRADIZIONE, INNOVAZIONE E SVILUPPI FUTURI¹

Qui si dimostra la natura della vite e di sua lieva,
e chome ella debbe più tosto esserle adop(er)ata <in ac-
to> in tirare che in ispingere. E chom'ella fa più for-
za a essere semplice che doppia, e sottile che grossa,
essendo mossa da parti lungheza di lieva e parti forza.
3 E chosì si farà un pecho di discorso in quato(hi) modi si
pò adop(er)are, e di qua(n)te sorte si pò fare vitì sança
fine. E qua(n)ti moti son fatti sança vite, che fa(in)-
no p(ro)pio ofitio di vite. E in che modo la vite
sança fine v'achompagni cholle ruote dentate, e
10 chome molte vitì si debbono insieme adop(er)are.
E s'ei dirà della natura delle sue madri, e s'ee so(n)
più utili cho^o molti denti o nno. E si dirà delle
viti retrose e delle viti che p(er) un medesimo ti-
rare spingano e tirano il peso, e di viti che
15 p(er) una sola volta che se le dia, farà fugire la sua
madre molte delle sue volte circolati. E così
medisimasi sua effetti, e varie fatiche, e fiortexçe,
e tardicià, e p(ro)stexçe. E s'ei proverà ragio(n)ie² <di ur-
to> di tutti loro ofitii e nature, e materie, e lieve,
20 e utilità. E s'ei dirà in che modo si debbono fare,
e del modo del metterle in op(er)ia;
e di chi è stato inganato p(er) mo(n) cognoscer lor natura.
E molti strame(n)ti si figurar(ino) in qua(n) parte sança
25 le loro armadure, o altra cosa che avessi a inpe-

¹ Le trascrizioni dai codicileonardiani sono fatte seguendo le norme stabilite da Arrigo Castellani per l'edizione dei testi manoscritti già utilizzate in MANNI 2009 e in MANNI e BIRI 2011. Alle pagine introduttive di quest'ultimo (pp. XXX-XXXII) si rimanda per una loro esposizione dettagliata e ulteriori riferimenti bibliografici. Nel caso di citazioni brevi inserite nel corpo del testo, si omettono le parentesi tonde che segnalano lo scioglimento delle abbreviature. Con la sigla Madrid 1 si indica il primo codice di Madrid (Biblioteca Nacional de España, cod. 8937).

² La *r* non chiara, corretta su altra lettera.

5: Diagrams from the critical edition of Francesco Maurolico's *Musica*

17^{mo}, 18^{mo}, 19^{mo}, 20^{mo}. Regge diciturque fieri potest in inflexione.

¹⁷ Hinc patet origo motus harum vocum herachordum constitutarum, videlicet ut et in aliis aliis. Choro vocum littera T et A de f g notantur tantum, ut vocem in antiquo ordine quaeque littera reperita dicitur conuenienter in proportionibus dupli semper indicat, quod notetur in angulis chordis herachordi dispositi, dicitur vocem dicitur conuenienter et quae, ut videtur. ¹⁸ g littera, quae vocem, dicitur herachordi 1 quod et dicitur a, quoniam nulla inter proportionem et vocem, dicitur herachordi vocem et dicitur generis f, quoniam supra ipsa interpretatur et videtur, dicitur herachordi 1 vocem et dicitur generis g, quoniam.

¹⁹ Continuatibus autem vocibus in angulis herachordi proportionibus et constituto regularitate in angulis herachordi, hinc est dicitur in dicitur conuenienter dicitur, ut dicitur quodam obliquationem, ut patet in notante.

[²⁰ In quibus constat quod dicitur proportio est in his numeris 210 — 210. Videlicet est una proportio vocem vocem vocem vocem. In proportio 9 — 8 facti vocem, dicitur 9 in 210 vocem in 210 et facti dicitur numerus 210, 210, quoniam proportio est vocem 210 — 210, videlicet dicitur. Item dicitur 210 in et facti dicitur. Et quoniam 9 — 8, in 210 — 210. Quae proportio 210 — 210 facti dicitur conuenienter proportio 210 — 210 facti dicitur, ut herachordum vocem, vocem proportio 210 — 210, vocem vocem vocem vocem.

²¹ Et videtur vocem dicitur et dicitur dicitur vocem, quod dicitur per obliquationem vocem proportionem de illa, ut infra patet.]

Item T et A dicitur A g littera — dicitur generis in hinc de ang A g que ipse A [9 — 8]

6: More diagrams from the critical edition of Francesco Maurolico's *Musica*

The diagram illustrates the relationships between musical intervals. At the top, a tree structure shows intervals: *quarta* (top) branches into *quinta* and *sexta*. *quinta* further branches into *sexta* and *septima*. *sexta* branches into *sexta* and *septima*. Below this, a diagram shows two intervals, *quinta* and *sexta*, with a *quarta* interval between them. The table below lists various intervals with their corresponding numbers and names.

$\frac{4}{3}$	4	18	Quarta	12	81	3 rd
$\frac{5}{4}$	5	20	Quinta	16	81	3 rd
$\frac{6}{5}$	6	216	Sexta	64	81	3 rd
$\frac{7}{6}$	7	24	Septima	72	108	3 rd
$\frac{8}{7}$	8	27	Octava	81	1216	3 rd
$\frac{9}{8}$	9	288	Nonava	216	128	3 rd
$\frac{10}{9}$	10	32	Decima	96	342	3 rd
$\frac{11}{10}$	11	36	Undecima	108	342	3 rd

Die C 10 dicitur 11ma.
 e nona pascendi p. 8
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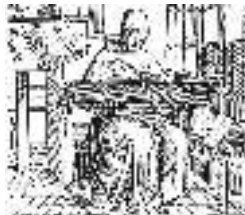
Abstract



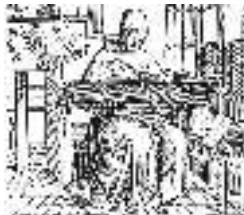
Abstract



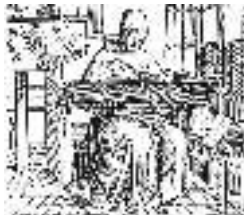
Abstract



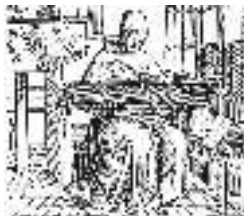
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T_EX and L^AT_EX are respectively a typesetting system and a macro package based on T_EX.

Interactive and Non-Interactive Typesetting Systems

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T_EX comes in *distributions*.

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Leslie Lamport wrote a macro package (L^AT_EX) to allow authors, not only typographers, to typeset professionally-looking documents. L^AT_EX shifted the paradigm from page description to document structure description.

Why Text Is Better Than Binary?

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L^AT_EX File Format: the Healing Text

Now even commercial typesetting systems store source files using text format (specifically XML).

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Now you can save your Unicode-encoded `.tex` files and check at least whether a file has been corrupted or not (of course with false negatives).

Compiling a \LaTeX document

The normal compilation with \LaTeX is performed via command line (in a terminal):

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latex document-name (with or without extension)
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This command outputs a DVI file that will be converted into a PostScript document via `dvips`

Compiling a L^AT_EX document

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latex document-name (with or without extension)
```

This command outputs a DVI file that will be converted into a PostScript document via `dvips`

Macro packages like pdfL^AT_EX issue a PDF document.

Guess What! (First Serving)

Some other pages.

7: A page from a book on the development of mathematical logic

Libroeleonora 10 dicembre 2012 14:27 Page 22

48 *Spicchi di un'idea matematica*

affermazione della definizione di limite e "da quelle successive": a tali definizioni Cantor accenna soltanto, ma si possono svolgere in modo naturale, come nelle esposizioni moderne.

L'uguaglianza, la relazione d'ordine e le operazioni sono definite per punti (positivi). L'uguaglianza è definita da Cantor, come abbiamo visto, e comporta che se $b = \lim a_n$ e $b' = \lim a'_n$, allora $b = b'$ se e solo se

$$\forall \varepsilon > 0 \exists n_0 \forall n > n_0 (|a_n - a'_n| < \varepsilon).$$

Se $b = \lim a_n$ e $b' = \lim a'_n$, allora $b = b'$ (in a_n, a'_n), dopo aver dimostrato che $\{a_n, a'_n\}$ è di Cauchy; come caso particolare, se $b = \lim a_n$, e $r \in \mathbb{Q}$ allora $b = r = \lim (a_n + r)$, dopo aver dimostrato che $\{a_n + r\}$ è di Cauchy.

Analogamente $b < b'$ se e solo se $\exists \varepsilon_0 \forall n > n_0 (a_n < a'_n)$; in particolare $b \leq r$ se e solo se da un certo punto in poi $a_n \leq r$.

La relazione $<$ deve essere definita come " \leq e \neq ", che equivale a dire, se $b = \lim a_n$ e $b' = \lim a'_n$,

$$b < b' \text{ se e solo se } \exists \varepsilon > 0 \exists n_0 \forall n > n_0 (a'_n - a_n < \varepsilon).$$

Se $b = \lim a_n$, e $r \in \mathbb{Q}$, $b < r$ se e solo se esiste un $\varepsilon > 0$ tale che da un certo punto in poi $r - a_n > \varepsilon$.

Si dimostra la tricotomia, vale a dire che per $b = \lim a_n$ o razionali o simboli di irrazionali associati a successioni di Cauchy

$$b = b' \text{ o } b < b' \text{ o } b' < b.$$

Ora per ogni razionale r , scriviamo (r) per indicare la successione costante (r, r, \dots) . Sia $b = \lim a_n$ e per ogni n fissato confrontiamo b con la successione (a_n) . Si vuole dimostrare che per ogni $\varepsilon > 0$ (ci si può restringere a ε razionali), almeno da un certo punto in poi $|b - (a_n)| < \varepsilon$, che coinvolge solo relazioni e operazioni algebriche già definite per i nuovi numeri. $|b - (a_n)| < \varepsilon$ significa che

$$\exists m_0 \forall n > m_0 (|a_n - (a_n)_n| < \varepsilon).$$

Siccome la successione (a_n) è di Cauchy, per ogni $\varepsilon > 0$ razionale

$$\exists m_0 \forall n > m_0 \forall m > m_0 (|a_n - a_m| < \varepsilon),$$

quindi

$$\exists m_0 \forall n > m_0 \forall m > m_0 (|a_n - (a_n)_m| < \varepsilon).$$

che è quello che si voleva dimostrare.

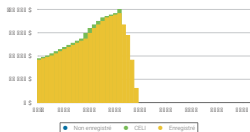
Si noti che viceversa, se $b = \lim a_n$ e la successione (a'_n) è tale che $\forall \varepsilon > 0 \exists n_0 \forall n > n_0 (|b - a'_n| < \varepsilon)$ allora, prendendo $a/2$ qui e in $\lim a_n$, si ha per n sufficientemente grande $|a_n - a'_n| < \varepsilon$, da cui $\lim a'_n = b$.

9: Graphics from a financial report

RETRAITE (SUITE)

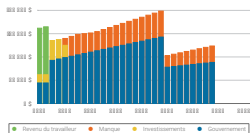
❶ L'outil d'analyse de placements utilise la « valeur future de la monnaie » pour représenter le résultat probable en tenant compte des données variables fournies par l'utilisateur. Important: Toute projection produite par l'outil Knowles A&P est hypothétique. Elle ne reflète pas les résultats réels et n'est pas garantie des résultats futurs.

Encaissement*



Ce graphique présente une estimation de vos actifs à partir d'aujourd'hui et jusqu'à votre retraite. Tous les REER sont convertis en FERR à l'âge de 65 ans et sont sujets à des retraits minimums.

Décaissement*



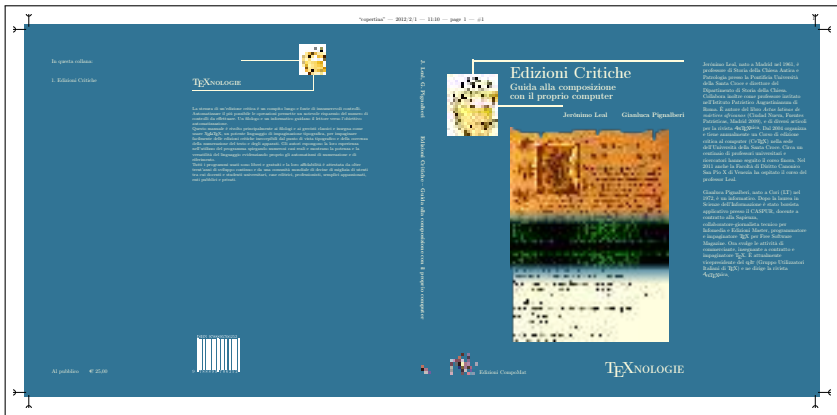
Ce graphique montre de quelle façon vos actifs seront utilisés pour atteindre vos objectifs de revenus à la retraite. Tous les REER seront convertis en FERR à l'âge de 65 ans et seront sujets à des retraits minimums. L'ordre de décaissement est le suivant: placement non enregistré, CELI et placement enregistré.

*Voir annexe B pour les détails de l'encaissement et du décaissement.

10: A page from an EDUSC series



11: The dust cover jacket of one of the authors' book



12: One page from Free Software Magazine n. 7 (camera ready for Lulu.com)



The Structure of a L^AT_EX Document (part I)

A L^AT_EX document contains the whole text to be typeset along with the instructions necessary to typeset it.

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The document is composed by:

- 1 a preliminary part of code—the preamble (approximately like C preprocessor directives)
- 2 the document content—the main body (approximately like the C functions)

The Structure of a L^AT_EX Document (part II)

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
\begin{itemize*}
\item Hello, world!
\item \textit{Hello, world!}
\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
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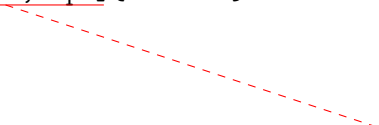
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Command that starts
the preamble

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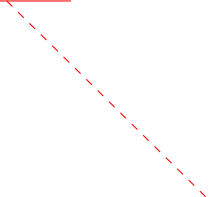
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```



Some of its optional arguments

The Structure of a L^AT_EX Document (part II)

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
\begin{itemize*}
\item Hello, world!
\item \textit{Hello, world!}
\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```



Its mandatory argument

The Structure of a L^AT_EX Document (part II)

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\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

List here the packages you load (possibly including those about encodings and languages) and your custom commands

The Structure of a L^AT_EX Document (part II)

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\usepackage{mdwlist}
\begin{document}
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\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

You may probably want to add data about document title, author and date

The Structure of a L^AT_EX Document (part II)

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
\begin{itemize*}
\item Hello, world!
\item \textit{Hello, world!}
\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

This command begins the document *environment* and opens the main body.

The Structure of a L^AT_EX Document (part II)

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
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\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

A begun environment must end. This one closes the main body and, subsequently, the L^AT_EX document.

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Hello, `____`world! → Hello, world!

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Hello, `_ _ _`world! → Hello, world!

Hello, `\~`world! → Hello, world!

Spaces, Special Characters and Diacritic Marks

Hello,␣world! → Hello, world!

Hello,␣␣␣world! → Hello, world!

Hello,~world! → Hello, world!

Hello,␣\␣world! → Hello, world!

Spaces, Special Characters and Diacritic Marks

Hello,␣world! → Hello, world!

Hello,␣␣␣world! → Hello, world!

Hello,~world! → Hello, world!

Hello,␣\␣world! → Hello, world!

Hello,\,world! → Hello,world!

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Hello, `_ _ _`world! → Hello, world!

Hello, `_`world! → Hello, world!

Hello, `_ _`world! → Hello, world!

Hello, `_ ,`world! → Hello, world!

A blank line starts a new paragraph. `_ _` starts a new line, just like `_newline`. Both maintain the broken line left aligned while `_linebreak` justifies it. `_newpage` starts a new page.

Spaces, Special Characters and Diacritic Marks

Hello,␣world! → Hello, world!

Hello,␣␣␣world! → Hello, world!

Hello,~world! → Hello, world!

Hello,␣\␣world! → Hello, world!

Hello,\,world! → Hello,world!

A blank line starts a new paragraph. \\ starts a new line, just like \newline. Both maintain the broken line left aligned while \linebreak justifies it. \newpage starts a new page.

Dash (aka hyphen): - - En-dash: -- – Em-dash: --- —

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Hello, `____`world! → Hello, world!

Hello, `\~`world! → Hello, world!

Hello, `_ _`world! → Hello, world!

Hello, `\,`world! → Hello, world!

A blank line starts a new paragraph. `\\` starts a new line, just like `\newline`. Both maintain the broken line left aligned while `\linebreak` justifies it. `\newpage` starts a new page.

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Quotes: `` ` " " ' ' << « >> »`

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Hello, `_`world! → Hello, world!

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Dash (aka hyphen): `- -` En-dash: `-- -` Em-dash: `--- —`

Quotes: `` ` " " ' ' << « >> »`

Ellipsis: `\ldots ...`

Spaces, Special Characters and Diacritic Marks

Hello, `_`world! → Hello, world!

Hello, `_ _ _`world! → Hello, world!

Hello, `\~`world! → Hello, world!

Hello, `_ _ _`world! → Hello, world!

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A blank line starts a new paragraph. `\\` starts a new line, just like `\newline`. Both maintain the broken line left aligned while `\linebreak` justifies it. `\newpage` starts a new page.

Dash (aka hyphen): `- -` En-dash: `-- -` Em-dash: `--- —`

Quotes: `` ` " " ' ' << « >> »`

Ellipsis: `\ldots ...`

Diacritic marks: `\`a à` (but of course directly entering `à` is possible).

Altering the Text Look and Font

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
\begin{itemize*}
\item Hello, world!
\item \textit{Hello, world!}
\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

This command italicizes the text. The alternative command `\emph{}` emphasizes the text.

Altering the Text Look and Font

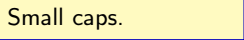
```
\documentclass[a4paper,11pt]{article}
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\item \textsf{Hello, world!}
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\end{document}
```



Boldface.

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\end{itemize*}
\end{document}
```



Small caps.

Altering the Text Look and Font

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\begin{itemize*}
\item Hello, world!
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\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
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\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

This one slants the text.

Altering the Text Look and Font

```
\documentclass[a4paper,11pt]{article}
\usepackage{mdwlist}
\begin{document}
\begin{itemize*}
\item Hello, world!
\item \textit{Hello, world!}
\item \textbf{Hello, world!}
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\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

Writes the specified text in sans serif (the command `\textrm{}` writes the specified text in serif).

Altering the Text Look and Font

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\begin{document}
\begin{itemize*}
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\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

Writes the specified text in teletype (or typewriter typeface, or monospace).

Altering the Text Look and Font

The commands we've just seen are *transitory* because they change the default text property (normally upright normal roman) for the specified text.

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`textrm` → `rmfamily`

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`texttt` → `ttfamily`

`textup` → `upshape`

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`textit` → `itshape`

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`textup` → `upshape`

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`textbf` → `bfseries` (`mdseries` to revert it)

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`textsc` → `scshape`

Altering the Text Look and Font

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`textsc` → `scshape`

`textsl` → `slshape`

Changing Text Shape and Page Format

\LaTeX justifies text by default.

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L^AT_EX justifies text by default.

We can permanently change the default behavior using the commands `\centering`, `\raggedright` (to left align) and `\raggedleft` (to right align) or can transitorily change the default behavior using the environments `center`, `flushleft` and `flushright`.

Changing Text Shape and Page Format

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While we can change the page geometry assigning different values to L^AT_EX internal variables, it's much easier to use the package `geometry`.

Special Features

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L^AT_EX provides us with environments
to quote text: `quote` (for single paragraph) and `quotation` (for more than one paragraph);
to write poetry: `verse`;
to add source code: `verbatim`;
to typeset lists: `itemize` (bulleted), `enumerate` (numbered),
`description` (labeled).

Special Features

```
\documentclass[a4paper,11pt]{article}
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\begin{document}
\begin{itemize*}
\item Hello, world!
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\item \textbf{Hello, world!}
\item \textsc{Hello, world!}
\item \textsl{Hello, world!}
\item \textsf{Hello, world!}
\item \texttt{Hello, world!}
\end{itemize*}
\end{document}
```

This environment encloses a bulleted list. The starred version is only possible using the package mdwlist.

Special Features

```

\documentclass[11pt,a4paper]{article}
\usepackage[french,english]{babel}
\usepackage{imakeidx}
\newcommand\italics[1]{\textit{#1}}
\renewcommand\italics[1]{\textbf{#1}}
\hyphenation{Gian-lu-ca, Mas-si-mi-lia-no}
\begin{document}
\tableofcontents
\section{\label{sec:first} First section}
\section{Second section}
In the section~\ref{sec:first} (page~\pageref{sec:first})...

```

With L^AT_EX we can...

```
This hard-to-hy\phen\-ate \index{Word}word...
```

```

\foreignlanguage{french}{«Je suis l'inspecteur Clouseau de la Sûreté!»}
\printindex
\end{document}

```

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\begin{document}
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```

define new commands
and redefine existing
ones;

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\begin{document}
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In the section~\ref{sec:first} (page~\pageref{sec:first})...

```

add a table of contents;

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In the section~\u{ref}{sec:first} (page~\u{pageref}{sec:first})...

```

add labels to cross reference chapters, section, figures, footnotes, pages;

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\printindex
\end{document}

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```

add labels to index terms and automatically compile an index (Enrico Gregorio's `imakeidx` is far better than the original `makeidx`);

This hard-to-hy\phen\-ate \index{Word}word...

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```

add arbitrary hyphenations (in a specific point with \- or textwide with hyphenation{word list});

```

This hard-to-hy-phen-ate \index{Word}word...

```

```

\foreignlanguage{french}{«Je suis l'inspecteur Clouseau de la Sûreté!»}
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\begin{document}
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\section{\label{sec:first} First section}
\section{Second section}
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```

manage multilingual documents.

```
This hard-to-hy\phen\-ate \index{Word}word...
```

```

\foreignlanguage{french}{«Je suis l'inspecteur Clouseau de la Sûreté!»}
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\end{document}

```

Floating Bodies: Figures and Tables

\LaTeX has environments (figure and table) to avoid that an author inserts those elements into fixed positions in a document.

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L^AT_EX has environments (figure and table) to avoid that an author inserts those elements into fixed positions in a document. Those environments can be captioned and labeled for future references in the document.

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We'll probably insert already made images into the `figure` environment with `\includegraphics` (`graphicx` package)—Agostino De Marco's lesson will show you more complex ways—

Floating Bodies: Figures and Tables

L^AT_EX has environments (`figure` and `table`) to avoid that an author inserts those elements into fixed positions in a document.

Those environments can be captioned and labeled for future references in the document.

We'll probably insert already made images into the `figure` environment with `\includegraphics` (`graphicx` package)—Agostino De Marco's lesson will show you more complex ways—and tabular material into the `table` environment.

Colors and Other Special Characters

Thanks to the (x)color package(s) we can:

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color text;

Colors and Other Special Characters

Thanks to the (x)color package(s) we can:

color text;

highlight text;

Colors and Other Special Characters

Thanks to the (x)color package(s) we can:

color text;

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color pages (`\pagecolor{color}`; `\nopagecolor` to halt the process).

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Thanks to the (x)color package(s) we can:

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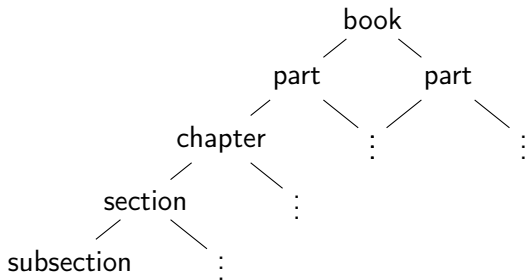
highlight text;

color pages (`\pagecolor{color}`; `\nopagecolor` to halt the process).

Some characters are reserved. We can use them thanks to special commands: e.g., `\$`, `\&`, `\textbackslash` → `$`, `&`, `\`.

Document Structure

Since L^AT_EX was born to help authors writing coherent documents, the document structure is fundamental. E.g.,



Splitting Big Documents

If your document is large, you don't need to write a large file.

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If your document is large, you don't need to write a large file.
You can write a master file and include in it several small slave files.

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Inclusion 1: `\include{<filename>}`

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You can write a master file and include in it several small slave files.

Inclusion 1: `\include{<filename>}`

Inclusion 2: `\input{<filename>}`

Help, I Need a Symbol

An important document lists the symbols we can typeset with LaTeX: *The Comprehensive \LaTeX Symbol List* by Scott Pakin.

Help, I Need a Symbol

An important document lists the symbols we can typeset with LaTeX: *The Comprehensive L^AT_EX Symbol List* by Scott Pakin. It's thick and has too much symbols. Can we easily locate a specific one?

Help, I Need a Symbol

An important document lists the symbols we can typeset with LaTeX: *The Comprehensive L^AT_EX Symbol List* by Scott Pakin. It's thick and has too much symbols. Can we easily locate a specific one?

[Detexify](#) allows us to draw a symbol and get back the list of possible L^AT_EX commands that show that symbol or character.

Guess What! (Dessert)

Last pages.

13: Another page from Free Software Magazine n. 7

How to recover from a broken RAID5
How DVD/Ubuntu saved your life
Falko Zischewski

Tuesday, May 3, 2005
The power will bring us get the best before the...

Wednesday, May 4, 2005
There goes my million, and I like it!

Thursday, May 5, 2005
The TV manager called me in his absence. I remember the date to be the 4th day of the month of the year but from memory, I got the idea to compare to...

Friday, April 26, 2005
A faulty RAID controller was installed in a HP Pro server Rack Storage(C). Due to a power outage, everything is worth a large sum of \$400. As a result of this, there were two more drives in the rack that were not used... but the one that was broken in the rack got replaced with...

Monday, May 2, 2005
There are still some more to be done...

Friday, May 6, 2005
I wanted to read a software (KDE) before the latest news. Reading that the KDE team has... that being the case, you can see enough to bring the KDE team to... KDE...

18 The Network Administrator's Magazine

14: Prospettiva Persona editorial rules



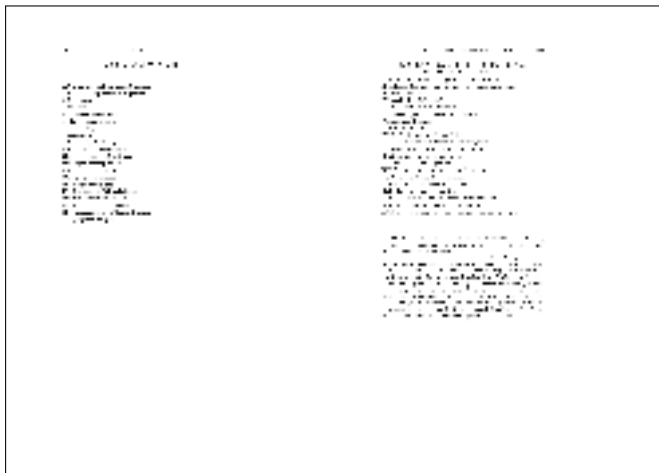
15: A page from the journal Prospettiva Persona



16: A François Dolbeau critical edition



17: A parallel translation (Armenian-Italian) published in Augustinianum



(Not Necessarily) Dedicated Editors

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Even a Web site allows users to collaboratively edit \LaTeX documents: Overleaf.

(Not Necessarily) Dedicated Editors

\LaTeX users don't need a special editor to edit their documents. Nevertheless, such editors exist.

They're more IDEs than just editors because they highlight, autocomplete, compile and show.

Even a Web site allows users to collaboratively edit \LaTeX documents: Overleaf.

The only WYSIWYG editor seems to be \TeX macs. Inspired by Emacs and \TeX , it is declared totally unrelated to them.

LyX, the WYSIWYG (?) Editor that \LaTeX s Your Documents

LyX is more a WYSIWYM editor than a WYSIWYG one.

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Some stuff is shown as if compiled with \LaTeX , other isn't.
But it provides you with a lot of \LaTeX classes and packages, and allows direct \LaTeX commands input.

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Its buttons ease the input of index and bibliography commands.

LyX, the WYSIWYG (?) Editor that \LaTeX s Your Documents

LyX is more a WYSIWYM editor than a WYSIWYG one. Some stuff is shown as if compiled with \LaTeX , other isn't. But it provides you with a lot of \LaTeX classes and packages, and allows direct \LaTeX commands input. Its buttons ease the input of index and bibliography commands. The file it saves is not a \LaTeX file, but LyX easily exports such format or a PDF file.

Guess What! (The Bill, Please!)

Now that we reached the end of this lesson, let's see the test results.

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Did somebody of you answer 17 As?

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Did somebody of you answer 17 As?

Did somebody of you answer 17 Bs?

Guess What! (The Bill, Please!)

Now that we reached the end of this lesson, let's see the test results.

Did somebody of you answer 17 As?

Did somebody of you answer 1 or more Bs?

Did somebody of you answer 17 Bs?

Guess What! (The Bill, Please!)

Now that we reached the end of this lesson, let's see the test results.

Did somebody of you answer 17 As?

Did somebody of you answer 1 or more Bs?

Did somebody of you answer 17 Bs?

Only those of you who answered 17 Bs “won” the test. The others now know that L^AT_EX is more powerful and versatile than you may figure out.

The end

This very 0th lesson should have given you all (at least those of you who are not yet proficient with \LaTeX) the chance to understand the subsequent lessons.

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This very 0th lesson should have given you all (at least those of you who are not yet proficient with L^AT_EX) the chance to understand the subsequent lessons.

Of course, reading the related paper will be much more helpful.

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Any questions?

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Any questions?

Thank you for your attention. Enjoy the next lessons.