

HUMBOLDT-UNIVERSITÄT ZU BERLIN



L^AT_EX for Linguists

L⁴: 05: IPA & verbatim

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Reader

L^AT_EX Reader (Freitag & Machicao y Priemer 2019):
<https://doi.org/10.13140/RG.2.2.29299.27682>

Exercises and Handouts:
<https://www.linguistik.hu-berlin.de/de/staff/amyp/latex>

- 1 Transcriptions with IPA
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Transcriptions with IPA

The package `tipa` offers **commands for transcriptions with IPA**, but it is not fully compatible with all other packages.

Since `tipa` redefines certain L^AT_EX commands, **additional settings** may be necessary (depending on your font encoding):

- Load the package `fontenc` with the options `T3` and `T1` (in that order).
- Load `tipa` with the options `noenc` and `safe`.

```
\usepackage[T3,T1]{fontenc}
\usepackage[noenc,safe]{tipa}
```

`tipa` provides 3 ways to use IPA characters: macros, group of macros, and environment.

Normally, we use **macros inside of** `\textipa{ }`.

macros:

```
[\textglotstop{}an.\textesh{}\textinvsr{}\texttoptiebar{a\textsci{}}.
\textschwa{n}]

[\textsecstress\textepsilon kspl\textschwa \textprimstress ne\textsci\textesh
\textschwa n]
```

(1) [ʔan.ʃɪ̯ɑ̃.ən]

(2) [,ɛksplə'neɪʃən]

groups of macros:

```
\textipa{[Pan.SK\t{aI}.@n]}
\textipa{["Eksp1@"neIS@n]}
```

(3) [ʔan.ʃɪ̯ɑ̃.ən]

(4) [,ɛksplə'neɪʃən]

tipa environment:

```
\begin{IPA}
[Pan.SK\t{aI}.@n]
["Eksp1@"neIS@n]
\end{IPA}
```

(5) [ʔan.ʃɪ̯ɑ̃.ən]

[,ɛksplə'neɪʃən]

A list of all IPA symbols with their respective macros can be found in the `tipa` manual (Rei 2004). See also Linke & Linke (2005).

Exercise

- Load the package `fontenc` with the options `T3` and `T1` (in that order).
- Load `tipa` with the options `noenc` and `safe`.
- Take a look at the IPA tables in Linke & Linke (2005) and transcribe ⟨ätzenderer⟩ and ⟨strenght⟩ as follows:

- (6) a. [ʔɛtsøndərø]
b. [st.ɪŋkθ]

1 Transcriptions with IPA

2 Verbatim

Verbatim

If you want to **write code**, LaTeX provides the **verb command** and the **verbatim environment**.

```
\verb|\textbf{test}|      \textbf{test}
\begin{verbatim}
\textbf{test}
\end{verbatim}          \textbf{test}
```

With the package `listings`, **more options** for verbatim can be specified:

```
\usepackage{listings}
\lstset{
  language=TeX,
  backgroundcolor=\color{lightgray},
  basicstyle={\footnotesize\ttfamily\color{blue}},
  showstringspaces=false,
  columns=flexible
}
```

This package offers an **in-line version** with the `\lstinline` command and the `lstlisting` environment.

For the in-line version, use **characters as delimiters** for your command `\lstinline` that are not used in your code.

Exercise

- Load the package `xcolor` (for coloured elements).
- Load the package `listings`.
- Specify the setting of the package `listings` as provided in the slides.
- Write the following code in your document using the `listings` environment:

```
\usepackage{listings}
\lstset{
  language=TeX,
  backgroundcolor=\color{lightgray},
  basicstyle={\footnotesize\ttfamily\color{blue}},
  showstringspaces=false,
  columns=flexible
}
```

- Use the `verb` command to write the following code:
(7) `\textipa{[Pan.SK\t{aI}.\@n]}`
- Use the `lstinline` command to write the following code:
(8) `\textipa{[Pan.SK\t{aI}.\@n]}`
- In your setting for `listings`, change the size of the output.

Internet sources I

- Link: CTAN – The Comprehensive TeX Archive Network.
<http://www.ctan.org> [Access: 02/01/2019]
- Link: LATEX für Linguisten: IPA, Glossing und Baumstrukturen (Linke & Linke 2005).
http://homepage.ruhr-uni-bochum.de/alexander.linke-2/linguistik/LaTeX/downloads/latex_fuer_linguisten.pdf [Access: 06/01/2020]
- Link: The International Phonetic Alphabet (revised to 2005)
<http://westonruter.github.io/ipa-chart/keyboard> [Access: 15/01/2019]
- Link: Type IPA phonetic symbols.
<http://ipa.typeit.org/full> [Access: 02/01/2019]
- Package: `listings`
<https://www.ctan.org/pkg/listings> [Zugriff: 13/11/2020]
- Package: `tipa`
<https://www.ctan.org/pkg/tipa> [Zugriff: 06/08/2019]

Literature I

- Freitag, Constantin & Antonio Machicao y Priemer. 2019. LaTeX-Einführung für Linguisten. Manuscript.
<https://doi.org/10.13140/RG.2.2.29299.27682>.
- Knuth, Donald E. 1986. *The TeX book*. Boston, MA: Addison-Wesley.
- Kopka, Helmut. 1994. *LaTeX: Einführung*, vol. 1. Bonn: Addison-Wesley.
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http://homepage.ruhr-uni-bochum.de/alexander.linke-2/linguistik/LaTeX/downloads/latex_fuer_linguisten.pdf.
- Machicao y Priemer, Antonio & Elisabeth Eberle. 2019. LaTeX for Linguists – Slides. Workshop for PhD candidates given at the PhD day of the Department of German Studies and Linguistics – Humboldt-Universität zu Berlin – 09. Oktober 2019.
- Machicao y Priemer, Antonio & Robyn Kerkhof. 2016. LaTeX-Einführung für Linguisten – Slides. Präsentation beim 7. linguistischen Methodenworkshop an der Humboldt-Universität zu Berlin – 22.–24. Februar 2016.
https://www.researchgate.net/publication/295667182_LaTeX-Einfuehrung_fur_Linguisten.
- Machicao y Priemer, Antonio & Sebastian Nordhoff. 2019. LaTeX for Linguists – Slides. Class for PhD candidates given at the LOT-Summer school – Universiteit van Amsterdam – 07.–18. Januar 2019.
- Rei, Fukui. 2004. TIPA manual – version 1.3. *CTAN: Comprehensive TeX Archive Network*
<http://www.ctan.org/tex-archive/fonts/tipa/tipa>.