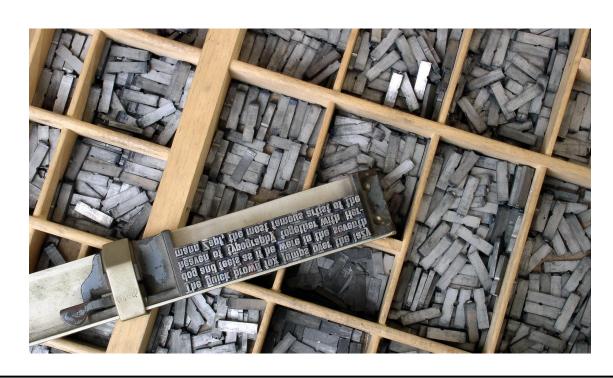
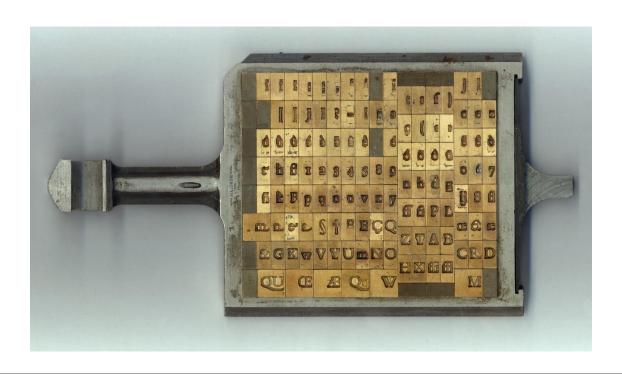
Typesetting texts using LaTeX

Hamidreza Hosseinkhani - 2020

Hot metal typesetting



Hot metal typesetting

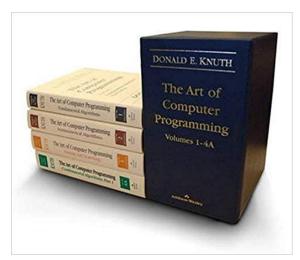


Phototypesetting



The Art of Computer Programming







TeX gives exactly the same results on all computers, at any point in time!

TeX, pdfTeX, XeTeX

- pdfTeX, principally written by Hàn Thế Thành, is a TeX variant that can generate PDF output directly as well as DVI.
- XeTeX, by Jonathan Kew, is a TeX engine with native
 Unicode and OpenType support. It produces PDF.
- ...



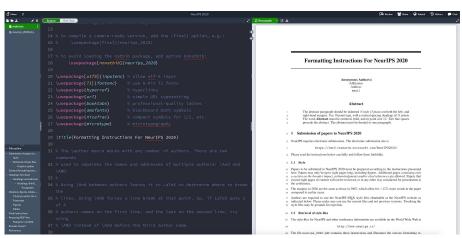
you only have focus on the contents of your document and the computer will take care of the formatting

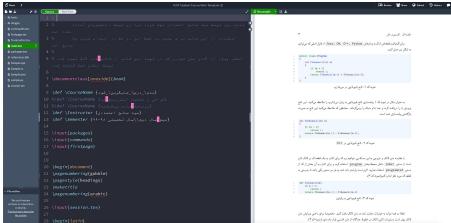
Two Major LaTeX Distributions

TeX Live (MacTeX for macOS)	MiKTeX
tug.org/texlive tug.org/mactex	miktex.org
Installs everything completely (~4GB)	Installs packages on the fly progressively!

Cloud-based Applications (SaaS)

Overleaf (overleaf.com)





Overleaf

- Collaborative cloud-based
- provide official journal LaTeX templates
- Direct submission links (The IEEE and Springer(incl. Nature) mention the possibility for submission using Overleaf.)
- Provides templates for submission to scientific journals and conferences.
- A tool for writing scientific publications in Nature, Science, Red Hats opensource.com and the German IT magazine heise online.
- CERN adopted Overleaf as its preferred collaborative authoring platform.

Let's practice!

Bibliography management

Citation vs Bibliography

Bibliography management softwares: BibTeX, EndNote, RIS, ...

 $BIBT_{F}X$ -> modern reimplementation -> Biber

BibLaTex package: \usepackage{biblatex} or \usepackage[style=authoryear]{biblatex}

BibTeX bibliography file (Bibliography database) -> \addbibresource{resources.bib}

Cite: \cite{tensorflow2015-whitepaper}

Print Bibliography: \printbibliography

Learn More!

- https://www.overleaf.com/learn/latex/Learn LaTeX in 30 minutes
- http://tug.org/mactex/src/WelcomeToMacTeX.pdf
- https://www.overleaf.com/gallery/tagged/farsi
- https://www.overleaf.com/learn/latex/Bibliography management in LaTeX
- https://www.overleaf.com/read/jxhnkcnwhfxp (for neural networks)

Thank you!