

 Search help library...

# Font typefaces

---

In  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  the default font typeface is the *Computer Modern* family. You can change this font typeface for another that better suits your style.

## Contents

- 1 Introduction
- 2 Changing default font typeface
- 3 Reference guide
- 4 Further reading

## Introduction

To change the font typeface of the entire document, a simple line must be added to the preamble:

```
\documentclass{article}
\usepackage[T1]{fontenc}
\usepackage[utf8]{inputenc}

\usepackage{tgbonum}

\begin{document}
This document is a sample document to test font
families and font typefaces.

This text uses a different font typeface
\end{document}
```

This document is a sample document  
to test font families and font typefaces.  
This text uses a different font typeface

The line `\usepackage{tgbonum}` establishes the font family *TeX Gyre Bonum*, whose font package name is `tgbonum`, as the default font for this document.

Open an example in Overleaf (<https://www.sharelatex.com/project/new/template?zipUrl=/project/53098c9ffdd69d780d004543/download/zip&templateName=Font%20Typefaces&compiler=pdflatex>)

## Changing default font typeface

The font can also be changed for a specific element in the document.

```

\documentclass{article}
\usepackage[T1]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage{geometry}
\geometry{textwidth=7cm}

\usepackage{tgbonum}

\begin{document}
This document is a sample document to
test font families and font typefaces.

{\fontfamily{qcr}\selectfont
This text uses a different font typeface
}
\end{document}

```

This document is a sample document  
 to test font families and font typefaces.  
 This text uses a different font  
 typeface

The command `\fontfamily{qcr}\selectfont` will set the *TeX gyre cursor* font typeface, whose fontcode is `qcr`, for the text inside the braces. A lot more L<sup>A</sup>T<sub>E</sub>X font typefaces are available, see the reference guide.

The popular L<sup>A</sup>T<sub>E</sub>X font typefaces are originated from four families:

- *Computer Modern* (default in standard L<sup>A</sup>T<sub>E</sub>X classes): CM Roman, CM Sans Serif, CM Typewriter
- *Latin Modern*: LM Roman, LM Sans Serif, LM Typewriter, LM Dunhill
- *Post Script Fonts*: Times, Utopia/Fourier, Palatino, Bookman, Helvetica, Courier
- *TeX Gyre*

Open an example in Overleaf (<https://www.sharelatex.com/project/new/template?zipUrl=/project/53098c9ffdd69d780d004543/download/zip&templateName=Font%20Typefaces&compiler=pdflatex>)

# Reference guide

## Roman, Sans Serif and Typewriter typefaces

Font	"fontpac kagenam e"	"fon tcod e"	Example
Computer Modern Roman		cmr	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Latin Modern Roman	lmodern	lmr	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Latin Modern Dunhill	lmodern	lmdh	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
T <sub>E</sub> X Gyre Termes	tgtermes	qtm	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
T <sub>E</sub> X Gyre Pagella	tgpagella	qpl	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
T <sub>E</sub> X Gyre Bonum	tgbonum	qbk	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
T <sub>E</sub> X Gyre Schola	tgschola	qcs	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Times	mathptmx	ptm	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Utopia / Fourier	utopia / fourier	put	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Palatino	palatino	ppl	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789

Bookman	bookman	pbk	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Charter	charter	bch	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Computer Modern Sans Serif		cmss	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Latin Modern Sans Serif	lmodern	lmss	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
TeX Gyre Adventor	tgadvent or	qag	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
TeX Gyre Heros	tgheros	qhv	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Helvetica	helvet	phv	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Computer Modern Typewriter		cmtt	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Latin Modern Sans Typewriter	lmodern	lmtt	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
TeX Gyre Cursor	tgcursor	qcr	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789
Courier	courier	pcr	The quick brown fox jumps over the lazy dog ąółöçæš 0123456789

See also The L<sup>A</sup>T<sub>E</sub>X Font Catalogue (<http://www.tug.dk/FontCatalogue/>), though not that not all fonts listed in the catalogue is distributed with a license that allows it to be distributed as part of TeX Live, and therefore not all those fonts are available on Overleaf.

Open an example in Overleaf (<https://www.sharelatex.com/project/new/template?zipUrl=/project/53098c9ffdd69d780d004543/download/zip&templateName=Font%20typefaces&compiler=pdflatex>)

## Further reading

For more information see:

- The L<sup>A</sup>T<sub>E</sub>X Font Catalogue (<http://www.tug.dk/FontCatalogue/>).
- Bold, italics and underlining ([/learn/Bold,\\_italics\\_and\\_underlining](/learn/Bold,_italics_and_underlining))
- Font sizes, families, and styles ([/learn/Font\\_sizes,\\_families,\\_and\\_styles](/learn/Font_sizes,_families,_and_styles))
- Supporting modern fonts with XeLaTeX (</learn/XeLaTeX>)
- Paragraph formatting ([/learn/Paragraph\\_formatting](/learn/Paragraph_formatting))
- Line breaks and blank spaces ([/learn/Line\\_breaks\\_and\\_blank\\_spaces](/learn/Line_breaks_and_blank_spaces))
- Multiple columns ([/learn/Multiple\\_columns](/learn/Multiple_columns))
- Single sided and double sided documents ([/learn/Single\\_sided\\_and\\_double\\_sided\\_documents](/learn/Single_sided_and_double_sided_documents))
- Management in a large project ([/learn/Management\\_in\\_a\\_large\\_project](/learn/Management_in_a_large_project))
- Multi-file LaTeX projects ([/learn/Multi-file\\_LaTeX\\_projects](/learn/Multi-file_LaTeX_projects))

[Documentation Home \(/learn/Main\\_Page\)](/learn/Main_Page)

[Learn LaTeX in 30 minutes \(/learn/Learn\\_LaTeX\\_in\\_30\\_minutes\)](/learn/Learn_LaTeX_in_30_minutes)

## Overleaf guides

[Creating a document in Overleaf \(/learn/Kb/Creating\\_a\\_document\\_in\\_Overleaf\)](/learn/Kb/Creating_a_document_in_Overleaf)

[Uploading a project \(/learn/Kb/Uploading\\_a\\_project\)](/learn/Kb/Uploading_a_project)

[Copying a project \(/learn/Kb/Copying\\_a\\_project\)](/learn/Kb/Copying_a_project)

[Creating a project from a template \(/learn/Kb/Creating\\_a\\_project\\_from\\_a\\_template\)](/learn/Kb/Creating_a_project_from_a_template)

[Using the Overleaf project menu \(/learn/Kb/Using\\_the\\_Overleaf\\_project\\_menu\)](/learn/Kb/Using_the_Overleaf_project_menu)

[Including images in Overleaf \(/learn/Kb/Including\\_images\\_in\\_ShareLaTeX\)](/learn/Kb/Including_images_in_ShareLaTeX)

[Exporting your work from Overleaf \(/learn/Kb/Exporting\\_your\\_work\\_from\\_ShareLaTeX\)](/learn/Kb/Exporting_your_work_from_ShareLaTeX)

[Working offline in Overleaf \(/learn/Kb/Working\\_Offline\\_in\\_Overleaf\\_v2\)](/learn/Kb/Working_Offline_in_Overleaf_v2)

[Using Track Changes in Overleaf \(/learn/Kb/Track\\_Changes\\_in\\_Overleaf\\_v2\)](/learn/Kb/Track_Changes_in_Overleaf_v2)

[Using bibliographies in Overleaf \(/learn/Kb/Using\\_bibliographies\\_in\\_ShareLaTeX\)](/learn/Kb/Using_bibliographies_in_ShareLaTeX)

[Sharing your work with others \(/learn/Kb/Sharing\\_your\\_work\\_with\\_others\)](/learn/Kb/Sharing_your_work_with_others)

[Using the History feature \(/learn/Using\\_the\\_History\\_feature\)](/learn/Using_the_History_feature)

[Debugging Compilation timeout errors \(/learn/Kb/Debugging\\_Compilation\\_timeout\\_errors\)](/learn/Kb/Debugging_Compilation_timeout_errors)

[How-to guides \(/learn/Kb/Knowledge\\_Base\)](/learn/Kb/Knowledge_Base)

## LaTeX Basics

[Creating your first LaTeX document \(/learn/Creating\\_a\\_document\\_in\\_LaTeX\)](/learn/Creating_a_document_in_LaTeX)

[Choosing a LaTeX Compiler \(/learn/Choosing\\_a\\_LaTeX\\_Compiler\)](/learn/Choosing_a_LaTeX_Compiler)

[Paragraphs and new lines \(/learn/Paragraphs\\_and\\_new\\_lines\)](/learn/Paragraphs_and_new_lines)

[Bold, italics and underlining \(/learn/Bold\\_italics\\_and\\_underlining\)](/learn/Bold_italics_and_underlining)

[Lists \(/learn/Lists\)](/learn/Lists)

[Errors \(/learn/Errors\)](/learn/Errors)

## Mathematics

[Mathematical expressions \(/learn/Mathematical\\_expressions\)](/learn/Mathematical_expressions)

[Subscripts and superscripts \(/learn/Subscripts\\_and\\_superscripts\)](/learn/Subscripts_and_superscripts)

[Brackets and Parentheses \(/learn/Brackets\\_and\\_Parentheses\)](/learn/Brackets_and_Parentheses)

[Matrices \(/learn/Matrices\)](/learn/Matrices)

[Fractions and Binomials \(/learn/Fractions\\_and\\_Binomials\)](/learn/Fractions_and_Binomials)

[Aligning Equations \(/learn/Aligning\\_equations\)](/learn/Aligning_equations)

[Operators \(/learn/Operators\)](/learn/Operators)

[Spacing in math mode \(/learn/Spacing\\_in\\_math\\_mode\)](/learn/Spacing_in_math_mode)

[Integrals, sums and limits \(/learn/Integrals\\_sums\\_and\\_limits\)](/learn/Integrals_sums_and_limits)

[Display style in math mode \(/learn/Display\\_style\\_in\\_math\\_mode\)](/learn/Display_style_in_math_mode)

[List of Greek letters and math symbols \(/learn/List\\_of\\_Greek\\_letters\\_and\\_math\\_symbols\)](/learn/List_of_Greek_letters_and_math_symbols)

[Mathematical fonts \(/learn/Mathematical\\_fonts\)](/learn/Mathematical_fonts)

## Figures and tables

[Inserting Images \(/learn/Inserting\\_Images\)](/learn/Inserting_Images)

[Tables \(/learn/Tables\)](/learn/Tables)

[Positioning Images and Tables \(/learn/Positioning\\_images\\_and\\_tables\)](/learn/Positioning_images_and_tables)

[Lists of Tables and Figures \(/learn/Lists\\_of\\_tables\\_and\\_figures\)](/learn/Lists_of_tables_and_figures)

[Drawing Diagrams Directly in LaTeX \(/learn/Picture\\_environment\)](/learn/Picture_environment)

[TikZ package \(/learn/TikZ\\_package\)](/learn/TikZ_package)

## References and Citations

[Bibliography management in LaTeX \(/learn/Bibliography\\_management\\_in\\_LaTeX\)](/learn/Bibliography_management_in_LaTeX)

[Bibliography management with biblatex \(/learn/Bibliography\\_management\\_in\\_LaTeX\)](#)

[Biblatex bibliography styles \(/learn/Biblatex\\_bibliography\\_styles\)](#)

[Biblatex citation styles \(/learn/Biblatex\\_citation\\_styles\)](#)

[Bibliography management with natbib \(/learn/Bibliography\\_management\\_with\\_natbib\)](#)

[Natbib bibliography styles \(/learn/Natbib\\_bibliography\\_styles\)](#)

[Natbib citation styles \(/learn/Natbib\\_citation\\_styles\)](#)

[Bibliography management with bibtex \(/learn/Bibliography\\_management\\_with\\_bibtex\)](#)

[Bibtex bibliography styles \(/learn/Bibtex\\_bibliography\\_styles\)](#)

## Languages

[Multilingual typesetting on Overleaf using polyglossia and fontspec \(/learn/Multilingual\\_typesetting\\_on\\_Overleaf\\_using\\_polyglossia\\_and\\_fontspec\)](#)

[Multilingual typesetting on Overleaf using babel and fontspec \(/learn/Multilingual\\_typesetting\\_on\\_Overleaf\\_using\\_babel\\_and\\_fontspec\)](#)

[International language support \(/learn/International\\_language\\_support\)](#)

[Quotations and quotation marks \(/learn/Typesetting\\_quotations\)](#)

[Arabic \(/learn/Arabic\)](#)

[Chinese \(/learn/Chinese\)](#)

[French \(/learn/French\)](#)

[German \(/learn/German\)](#)

[Greek \(/learn/Greek\)](#)

[Italian \(/learn/Italian\)](#)

[Japanese \(/learn/Japanese\)](#)

[Korean \(/learn/Korean\)](#)

[Portuguese \(/learn/Portuguese\)](#)

[Russian \(/learn/Russian\)](#)

[Spanish \(/learn/Spanish\)](#)

## Document structure

[Sections and chapters \(/learn/Sections\\_and\\_chapters\)](#)

[Table of contents \(/learn/Table\\_of\\_contents\)](#)

[Cross referencing sections and equations \(/learn/Cross\\_referencing\\_sections\\_and\\_equations\)](#)

[Indices \(/learn/Indices\)](#)

[Glossaries \(/learn/Glossaries\)](#)

[Nomenclatures \(/learn/Nomenclatures\)](#)

[Management in a large project \(/learn/Management\\_in\\_a\\_large\\_project\)](#)



[Multi-file LaTeX projects \(/learn/Multi-file\\_LaTeX\\_projects\)](#)

[Hyperlinks \(/learn/Hyperlinks\)](#)

## Formatting

[Lengths in L<sup>A</sup>T<sub>E</sub>X \(/learn/Lengths\\_in\\_LaTeX\)](#)

[Headers and footers \(/learn/Headers\\_and\\_footers\)](#)

[Page numbering \(/learn/Page\\_numbering\)](#)

[Paragraph formatting \(/learn/Paragraph\\_formatting\)](#)

[Line breaks and blank spaces \(/learn/Line\\_breaks\\_and\\_blank\\_spaces\)](#)

[Text alignment \(/learn/Text\\_alignment\)](#)

[Page size and margins \(/learn/Page\\_size\\_and\\_margins\)](#)

[Single sided and double sided documents \(/learn/Single\\_sided\\_and\\_double\\_sided\\_documents\)](#)

[Multiple columns \(/learn/Multiple\\_columns\)](#)

[Counters \(/learn/Counters\)](#)

[Code listing \(/learn/Code\\_listing\)](#)

[Code Highlighting with minted \(/learn/Code\\_Highlighting\\_with\\_minted\)](#)

[Using colours in LaTeX \(/learn/Using\\_colours\\_in\\_LaTeX\)](#)

[Footnotes \(/learn/Footnotes\)](#)

[Margin notes \(/learn/Margin\\_notes\)](#)

## Fonts

[Font sizes, families, and styles \(/learn/Font\\_sizes,\\_families,\\_and\\_styles\)](#)

[Font typefaces \(/learn/Font\\_typefaces\)](#)

[Supporting modern fonts with X<sub>Y</sub>L<sup>A</sup>T<sub>E</sub>X \(/learn/XeLaTeX\)](#)

## Presentations

[Beamer \(/learn/Beamer\)](#)

[Powerdot \(/learn/Powerdot\)](#)

[Posters \(/learn/Posters\)](#)

## Commands

[Commands \(/learn/Commands\)](#)

[Environments \(/learn/Environments\)](#)

## Field specific

[Theorems and proofs \(/learn/Theorems\\_and\\_proofs\)](#)

[Chemistry formulae \(/learn/Chemistry\\_formulae\)](/learn/Chemistry_formulae)

[Feynman diagrams \(/learn/Feynman\\_diagrams\)](/learn/Feynman_diagrams)

[Molecular orbital diagrams \(/learn/Molecular\\_orbital\\_diagrams\)](/learn/Molecular_orbital_diagrams)

[Chess notation \(/learn/Chess\\_notation\)](/learn/Chess_notation)

[Knitting patterns \(/learn/Knitting\\_patterns\)](/learn/Knitting_patterns)

[CircuiTikz package \(/learn/CircuiTikz\\_package\)](/learn/CircuiTikz_package)

[Pgfplots package \(/learn/Pgfplots\\_package\)](/learn/Pgfplots_package)

[Typing exams in LaTeX \(/learn/Typing\\_exams\\_in\\_LaTeX\)](/learn/Typing_exams_in_LaTeX)

[Knitr \(/learn/Knitr\)](/learn/Knitr)

[Attribute Value Matrices \(/learn/Attribute\\_Value\\_Matrices\)](/learn/Attribute_Value_Matrices)

## Class files

[Understanding packages and class files \(/learn/Understanding\\_packages\\_and\\_class\\_files\)](/learn/Understanding_packages_and_class_files)

[List of packages and class files \(/learn/List\\_of\\_packages\\_and\\_class\\_files\)](/learn/List_of_packages_and_class_files)

[Writing your own package \(/learn/Writing\\_your\\_own\\_package\)](/learn/Writing_your_own_package)

[Writing your own class \(/learn/Writing\\_your\\_own\\_class\)](/learn/Writing_your_own_class)

[Tips \(/learn/Tips\)](/learn/Tips)

## Advanced TeX/LaTeX

[In-depth technical articles on TeX/LaTeX \(/learn/Articles\)](/learn/Articles)