

A Font Family Sampler

Nelson H. F. Beebe

Department of Mathematics
University of Utah
Salt Lake City, UT 84112-0090, USA

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To assist in producing greater font face variation in university dissertations and theses, this document illustrates font family selection with a \LaTeX document preamble command

```
\usepackage{FAMILY}
```

where FAMILY is given in the subsection titles below.

The body font in this document is from the $T_{\text{E}}X$ *Gyre Bonum* family, selected by a `\usepackage{tgbonum}` command in the document preamble, but the samples illustrate scores other font families.

Like *Computer Modern*, *Latin Modern*, and the commercial *Lucida* and *MathTime* families, the $T_{\text{E}}X$ *Gyre* families offer extensive collections of mathematical characters that are designed to resemble their companion text characters, making them good choices for scientific and mathematical typesetting. The $T_{\text{E}}X$ *Gyre* families also contain many additional specially-designed single glyphs for accented letters needed by several European languages, such as Đ, đ, Å, å, Ę, ę, Ł, ł, Ö, ö, Ó, ó, Ü, ü, Ũ, ũ, Š, š, Ť, ť, Ů, and ů.

Comparison of text fonts

Some of the families illustrated in this section include distinct mathematical faces, but for brevity, we show only prose. When a font family is not chosen, the \LaTeX and Plain $T_{\text{E}}X$ default is the traditional *Computer Modern* family used to typeset the *Art of Computer Programming* books, and shown in the first subsection.

NB: The LuxiMono font has rather large characters: it is used here in 15% reduced size via these preamble commands:

```
\usepackage[T1]{fontenc} % only encoding available for LuxiMono
\usepackage[scaled=0.85]{luximono}
```

\usepackage{}

% cmr

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariaturn vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

```
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ $ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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```

The sample is in the default *Computer Modern* family in \LaTeX and \TeX , patterned after the classic *Monotype Modern 8A* family. It is what you get when you do not supply a `\usepackage` command to select a non-default font. The *Computer Modern* family has regular, bold, italic, sans-serif, slanted, and typewriter variants, as well as an extensive repertoire of mathematics glyphs. Few other font families supply mathematical characters, so for them, \TeX falls back to *Computer Modern*.

\usepackage{avantgarde}

% pag

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariaturn vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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\usepackage{bookman}**% pbk**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{caladea}**% Caladea-TLF**

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Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{chancery}

% pzc

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Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{charter}

% bch

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\usepackage{cochineal}

% Cochineal-TLF

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: *a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß*

Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{comicneue}

% ComicNeue-TLF

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UPPERCASE: *A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ*

Lowercase: *a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß*

Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

Special symbols: *§ ¶ © £ \$ €*

UPPERCASE: *A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ*

Lowercase: *a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß*

Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

Special symbols: *§ ¶ © £ \$ €*

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Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

Special symbols: *§ ¶ © £ \$ €*

\usepackage{comfortaa}

% fco

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: *A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ*

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Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

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Special symbols: *† ‡ § ¶ © £ \$ €*

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Digits: *0 1 2 3 4 5 6 7 8 9* Letters: *O Ø Q I I S B*

Special symbols: *† ‡ § ¶ © £ \$ €*

`\usepackage{concrete}`

% ccr

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ę Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ę ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B

Special symbols: † ‡ § ¶ © £ \$ €

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B

Special symbols: † ‡ § ¶ © £ \$ €

Like the default *Computer Modern* family, the *Concrete* family has regular, bold, italic, sans-serif, slanted, and typewriter variants, as well as an extensive repertoire of mathematics glyphs.

`\usepackage{courier}`

% pcr

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B

Special symbols: † ‡ § ¶ © £ \$ €

`\usepackage{crimson}`

% Crimson-TLF

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UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

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\usepackage{DejaVuSans}

% DejaVuSans-TLF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{DejaVuSansCondensed}

%

DejaVuSansCondensed-TLF

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\usepackage{DejaVuSerif}

% DejaVuSerif-TLF

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\usepackage{DejaVuSerifCondensed} % DejaVuSerifCondensed-TLF

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Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{ebgaramond}**% EBGaramond-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{fourier}**% futx**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{gfsartemisia}**% artemisia**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{gfsartemis-ia-euler}

% artemisiaeuler

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

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Special symbols: † ‡ § ¶ © £ \$ €

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Special symbols: † ‡ § ¶ © £ \$ €

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{gillius}

% GilliusADF-LF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{gillius2}**% GilliusADFN0Two-LF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{GoSans}**% Go-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

This is a new font family released in November 2016 under an open-source license as part of the Go Project, and designed by the Bigelow & Holmes type foundry. For more information, and many type samples, see <https://blog.golang.org/go-fonts>. The fonts are available in the CTAN archive <http://mirrors.ibiblio.org/CTAN/fonts/gofonts/>, but at the time of release, were not yet in the T_EX Live 2016 distribution tree. However, they have been installed manually in the T_EX Live 2016 `texmf-var/fonts` tree on local systems.

\usepackage{helvet}**% phv**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Special symbols: † ‡ § ¶ © £ \$ €
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Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{heuristica}**% Heuristica-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
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Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{kpfonts}**% jkpf**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{kerkis}**% mak**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{libertine}**% LinuxLibertineT-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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 Special symbols: † ‡ § ¶ © £ \$ €
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 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{librebaskerville}**% LibreBaskerville-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{LibreBodoni}**% LibreBodoni-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

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Special symbols: † ‡ § ¶ © £ \$ €

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Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{librecaslon}**% LibreCaslonText-OsF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{lmodern}

% lmr

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €

The sample is in the new *Latin Modern* family that extends the default *Computer Modern* family with additional accented letters for European languages, as well as adding many new mathematical glyphs.

\usepackage{lmodern}

% lmtt

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
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 Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: 0 Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

The sample is in the typewriter font of the new *Latin Modern* family that extends the default *Computer Modern* family.

\usepackage{lobsterTwo}

% lobsterTwo-1F

>Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: 0 Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{luximono}

% ul9

>Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: 0 Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{mathpazo}**% ppl**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

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Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{mathptm}**% ptm**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

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Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{merriweather}**% MerriweatherSans-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{mintspirit}**% MintSpirit-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{mintspirit2}**% MintSpiritNoTwo-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{newcent}**% pnc**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{nimbusserif}**% NimbusSerif**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$

\usepackage{nimbussans}**% NimbusSans**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatur vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
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 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$

\usepackage{noto}**% NotoSerif-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

The sample was typeset with the default serified roman fonts or `{\rmfamily . . . }` or `\textrm{. . . }`.

The *Google Noto* free font family supplies thousands of Unicode characters in many scripts, with reasonable family resemblance across alphabetic scripts.

\usepackage{noto}**% NotoSans-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €

The sample was typeset with {\sffamily . . . } or \textsf{. . . }.

\usepackage{oldstandard}

% OldStandard-TLF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{overlock}

% Overlock-LF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
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 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ
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Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B
Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{palatino}**% ppl**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{PlayfairDisplay}**% PlayfairDisplay-LF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

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Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{quattrocento}**% Quattrocento-TLF**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{roboto}

% Roboto-TLF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

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Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgadventor}

% qag

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgbonum}**% qbk**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgchorus}**% qzc**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgcursor}**% qcr**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu r vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I L S B

Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ
 Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Ć Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgheros}**% qhv**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
 Lowercase: abcdefghijklmnopqrstuvwxyz æ ø å ä ö œ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
 Lowercase: abcdefghijklmnopqrstuvwxyz æ ø å ä ö œ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgpagella}**% qpl**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
 Lowercase: abcdefghijklmnopqrstuvwxyz æ ø å ä ö œ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €
 UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
 Lowercase: abcdefghijklmnopqrstuvwxyz æ ø å ä ö œ ç ñ ß
 Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €
UPPERCASE: ABCDEFGHIJKLMNOPQRSTUVWXYZ Æ Ø Å Ä Ö Ć Ç Ñ
Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß
Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I l S B
 Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgschola}**% qcs**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{tgtermes}**% qtm**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{times}**% ptm**

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö æ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Æ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{universalis}

% UniversalisADFSStd-LF

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

\usepackage{utopia}

% put

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatu vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis. Lacus curae fermentum, morbi vestibulum vel arcu sapien bibendum per.

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

UPPERCASE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Ä Ö Œ Ç Ñ

Lowercase: a b c d e f g h i j k l m n o p q r s t u v w x y z æ ø å ä ö œ ç ñ ß

Digits: 0 1 2 3 4 5 6 7 8 9 Letters: O Ø Q I I S B

Special symbols: † ‡ § ¶ © £ \$ €

Comparison of typewriter fonts

To change the typewriter (usually, fixed-width) font in a \TeX document, issue the command

```
\renewcommand{\ttdefault}{ABBREV}
```

where ABBREV is the short name of a \TeX font family. You can do that multiple times, as we do in this section, but normally, you should be consistent and use a single typewriter font for your document.

The short names used here were found by searching numerous style files for the string `\ttdefault`. The subsection titles are the long font family names, and are *not* \TeX package names.

In the examples, the first two lines of each verbatim display indicate column numbers. That is a useful one-time trick if you change `\textwidth` in your document, because you then know how long subsequent verbatim lines can be, and you can adjust them accordingly to avoid overfull boxes.

Notice the dramatic variations in text widths in the families shown below. For the common application of typesetting computer input and output in \TeX verbatim displays, you may prefer a narrow font face to maximize the number of characters per line.

Notice also that the *Eco* family typewriter font has *old-style* digits, where half the numerals descend below the baseline.

Some typewriter font families offer variants in series (bold) and shape (italic and slanted), so each subsection ends with a table illustrating those variants.

Algol Revived

```
\renewcommand{\ttdefault}{AlgolRevived-TLF}
```

Although the typeface shown in this section is a typewriter style, unusually, it is a *proportional* font, as can be seen in the lack of strict vertical alignment of letters and digits:

ABCDEFGHIJKLMN	OPQRSTUVWXYZ	abcdefghijklmnopqrstuvwxyz
BCDEFGHIJKLMN	OPQRSTUVWXYZA	bcdefghijklmnopqrstuvwxyz
CDEFGHIJKLMN	OPQRSTUVWXYZAB	cdefghijklmnopqrstuvwxyzab
DEFGHIJKLMN	OPQRSTUVWXYZABC	defghijklmnopqrstuvwxyzabc
EFGHIJKLMN	OPQRSTUVWXYZABCD	efghijklmnopqrstuvwxyzabcd
FGHIJKLMN	OPQRSTUVWXYZABCDE	fghijklmnopqrstuvwxyzabcde
GHIJKLMN	OPQRSTUVWXYZABCDEF	ghijklmnopqrstuvwxyzabcdef
HJKLMN	OPQRSTUVWXYZABCDEFG	hijklmnopqrstuvwxyzabcdefg
IJKLMN	OPQRSTUVWXYZABCDEFGH	ijklmnopqrstuvwxyzabcdefgh
JKLMN	OPQRSTUVWXYZABCDEFGHI	klmnopqrstuvwxyzabcdefghi
LMN	OPQRSTUVWXYZABCDEFGHIJ	lmnopqrstuvwxyzabcdefghij
MN	OPQRSTUVWXYZABCDEFGHIJK	mnopqrstuvwxyzabcdefghijk
N	OPQRSTUVWXYZABCDEFGHIJKL	mnopqrstuvwxyzabcdefghijkl

NOPQRSTUVWXYZABCDEFGHIJKLM nopqrstuvwxyzabcdefghijklm
 OPQRSTUVWXYZABCDEFGHIJKLMN opqrstuvwxyzabcdefghijklmn
 PQRSTUVWXYZABCDEFGHIJKLMNO pqrstuvwxyzabcdefghijklmno
 QQRSTUVWXYZABCDEFGHIJKLMNOPqrstuvwxyzabcdefghijklmnop
 RSTUVWXYZABCDEFGHIJKLMNOPQrstuvwxyzabcdefghijklmno
 STUVWXYZABCDEFGHIJKLMNOPQRstuvwxyzabcdefghijklmnopq
 TUVWXYZABCDEFGHIJKLMNOPQRS tuvxyzabcdefghijklmnopqrs
 UVWXYZABCDEFGHIJKLMNOPQRST uvxyzabcdefghijklmnopqrst
 VWXYZABCDEFGHIJKLMNOPQRSTUvwxyzabcdefghijklmnopqrstu
 WXYZABCDEFGHIJKLMNOPQRSTUVwxyzabcdefghijklmnopqrstuv
 XYZABCDEFGHIJKLMNOPQRSTUVWxyzabcdefghijklmnopqrstuvw
 ZABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz

000000001111111112222222223333333334444444445555555556666666667777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatur vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Bera Mono

`\renewcommand{\ttdefault}{fvm}`

000000001111111112222222223333333334444444445555555556666666667777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatur vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

CMBright

`\renewcommand{\ttdefault}{cmtl}`

0000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatur vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.

0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Computer Modern

`\renewcommand{\ttdefault}{cmtt}`

0000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatur vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.

0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Courier

```
\renewcommand{\ttdefault}{pcr}
```

```
00000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatum vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.
O 1 5 8 O l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

DejaVu Sans Mono

```
\renewcommand{\ttdefault}{DejaVuSansMono-TLF}
```

```
00000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatum vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.
0 1 5 8 O l S B

To scale the font, put something like this in your document preamble:

```
\usepackage[scaled = 0.8]{DejaVuSansMono}
```

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

Droid Sans Mono

```
\renewcommand{\ttdefault}{fdm}
```

000000001111111112222222222333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatum vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 1 S B

Series and shape variants	
<code>\ttfamily</code>	<code>http://www.math.utah.edu/</code>
<code>\mdseries</code>	<code>http://www.math.utah.edu/</code>
<code>\bfseries</code>	<code>http://www.math.utah.edu/</code>
<code>\itshape</code>	<code>http://www.math.utah.edu/</code>
<code>\slshape</code>	<code>http://www.math.utah.edu/</code>
<code>\bfseries \itshape</code>	<code>http://www.math.utah.edu/</code>

Eco

`\renewcommand{\ttdefault}{cmott}`

000000001111111112222222222333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatum vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 1 S B

Series and shape variants	
<code>\ttfamily</code>	<code>http://www.math.utah.edu/</code>
<code>\mdseries</code>	<code>http://www.math.utah.edu/</code>
<code>\bfseries</code>	<code>http://www.math.utah.edu/</code>
<code>\itshape</code>	<code>http://www.math.utah.edu/</code>
<code>\slshape</code>	<code>http://www.math.utah.edu/</code>
<code>\bfseries \itshape</code>	<code>http://www.math.utah.edu/</code>

GoMono

`\renewcommand{\ttdefault}{GoMono-TLF}`

000000001111111112222222222333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatum vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 1 S B

To scale the font, put something like this in your document preamble:

```
\usepackage[scaled = 0.8]{GoSans}
\usepackage[scaled = 0.8]{GoMono}
```

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

Inconsolata

```
\renewcommand{\ttdefault}{zi4}
```

```
000000001111111112222222223333333334444444445555555556666666667777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 1 S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

Johannes Kepler

```
\renewcommand{\ttdefault}{jkptt}
```

```
000000001111111112222222223333333334444444445555555556666666667777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis.
 0 1 5 8 0 1 S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Latin Modern

`\renewcommand{\ttdefault}{lmtt}`

000000001111111112222222223333333334444444445555555556666666667777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatur vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.
0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Libertine Mono

`\renewcommand{\ttdefault}{LinuxLibertineMonoT-TLF}`

00000000111111111222222222333333333444444444555555555666666666777777777
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatur vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.
0 1 5 8 0 l S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

LuxiMono

```
\renewcommand{\ttdefault}{ul9}
```

This sample was produced with the package option `\texttt{scaled = 0.85}`:

```
000000000111111111222222222233333333334444444444555555555566666666667777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
non maecenas, pariatur vitae congue laoreet semper, nulla
adipiscing cursus neque dolor dui, faucibus aliquam quis.
0 1 5 8 0 1 S B

To scale the font, put something like this in your document preamble:

```
\usepackage[scaled = 0.8]{LuxiMono}
```

Series and shape variants

<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

New TXTT

```
\renewcommand{\ttdefault}{ntxtt}
```

```
000000000111111111222222222233333333334444444444555555555566666666667777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla
tellus metus odio non maecenas, \ldots.

Series and shape variants

<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

NimbusMono

```
\renewcommand{\ttdefault}{NimbusMono}
```

0000000011111111122222222223333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatum vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.

0 1 5 8 O 1 S B

Series and shape variants

<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

NimbusMonoNarrow

`\renewcommand{\ttdefault}{NimbusMonoN}`

0000000011111111122222222223333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio
 non maecenas, pariatum vitae congue laoreet semper, nulla
 adipiscing cursus neque dolor dui, faucibus aliquam quis.

0 1 5 8 O 1 S B

Series and shape variants

<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	<i>http://www.math.utah.edu/</i>
<code>\slshape</code>	<i>http://www.math.utah.edu/</i>
<code>\bfseries \itshape</code>	<i>http://www.math.utah.edu/</i>

NotoMono

`\renewcommand{\ttdefault}{NotoMono-TLF}`

This sample was produced with the package option `\texttt{scaled = 0.85}`:

0000000011111111122222222223333333333344444444445555555555666666666677777777778
 123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.

Lorem ipsum dolor sit amet, aenean nulla
 tellus metus odio non maecenas, \ldots.

To scale the font, put something like this in your document preamble:

```
\usepackage[scaled = 0.8]{noto}
```

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

TeX Gyre Cursor

```
\renewcommand{\ttdefault}{qcr}
```

```
0000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, pariatum vitae congue laoreet semper, nulla adipiscing cursus neque dolor dui, faucibus aliquam quis.
O 1 5 8 O 1 S B

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

TXTT

```
\renewcommand{\ttdefault}{txtt}
```

```
00000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789.123456789.123456789.123456789.123456789.123456789.123456789.123456789.
```

Lorem ipsum dolor sit amet, aenean nulla tellus metus odio non maecenas, \ldots.

Series and shape variants	
<code>\ttfamily</code>	http://www.math.utah.edu/
<code>\mdseries</code>	http://www.math.utah.edu/
<code>\bfseries</code>	http://www.math.utah.edu/
<code>\itshape</code>	http://www.math.utah.edu/
<code>\slshape</code>	http://www.math.utah.edu/
<code>\bfseries \itshape</code>	http://www.math.utah.edu/

Scaling fonts

A few fixed-width font families allow the font to be scaled uniformly by a package declaration in the document preamble like `\usepackage[scaled = 0.8]{font-package-name}`, as noted in earlier subsections. That is helpful when the default monospaced character height differs from that of the prevailing prose font, which, except for T_EX's own font families of *Computer Modern* and *Concrete*, and the commercial *Lucida* and *MathTime* fonts, is likely to be of a completely different design.

Regrettably, it does not seem to be possible to precisely control font scaling within a single document with standard T_EX commands, other than by selection of the usual T_EX size-changing commands: `\footnotesize`, `\tiny`, `\scriptsize`, `\small`, `\normalsize`, `\large`, `\Large`, `\LARGE`, `\huge`, and `\Huge`, and their corresponding environments like `\begin{footnotesize} ... \end{footnotesize}`.

One can achieve arbitrary dynamic font sizing by descending to low-level T_EX font commands, such as with the input

```
{\font \dyntt = ul9r8t at 7pt \dyntt 7pt text},
{\font \dyntt = ul9r8t at 8pt \dyntt 8pt text},
{\font \dyntt = ul9r8t at 9pt \dyntt 9pt text},
{\font \dyntt = ul9r8t at 10pt \dyntt 10pt text},
{\font \dyntt = ul9r8t at 11pt \dyntt 11pt text}, and
{\font \dyntt = ul9r8t at 12pt \dyntt 12pt text}
```

that produces `7pt text`, `8pt text`, `9pt text`, `10pt text`, `11pt text`, and `12pt text`.

Proportional scaling is generally preferred to absolute font sizing, because it behaves as expected when the overall document font size is changed in the leading `\documentclass` command. You can scale fonts proportionally with the input

```
{\font \dyntt = ul9r8t scaled 700 \dyntt 70%-scaled text},
{\font \dyntt = ul9r8t scaled 800 \dyntt 80%-scaled text},
{\font \dyntt = ul9r8t scaled 900 \dyntt 90%-scaled text},
{\font \dyntt = ul9r8t scaled 1000 \dyntt 100%-scaled text},
{\font \dyntt = ul9r8t scaled 1100 \dyntt 110%-scaled text},
and
{\font \dyntt = ul9r8t scaled 1200 \dyntt 120%-scaled text}
```

to produce `70%-scaled text`, `80%-scaled text`, `90%-scaled text`, `100%-scaled text`, `110%-scaled text`, and `120%-scaled text`.

Clearly, such input is tedious to write, and hard to keep consistent throughout a large document. One solution is a private macro that is defined in the document preamble, or better, a private style file:

```
\newcommand{\mytt}[2]
{% Usage: \mytt{scale-in-0-to-1}{text}}
```

```

    {%
      \dimen0 = 1000sp
      \dimen0 = #1\dimen0
      \count0 = \dimen0
      \font \dyntt = ul9r8t scaled \count0
      \dyntt #2%
    }%
  }

```

It is later used with input

```

\mytt{0.7}{ 70%-scaled text},
\mytt{0.8}{ 80%-scaled text},
\mytt{0.9}{ 90%-scaled text},
\mytt{1.0}{100%-scaled text},
\mytt{1.1}{110%-scaled text}, and
\mytt{1.2}{120%-scaled text}

```

to produce 70%-scaled text, 80%-scaled text, 90%-scaled text, 100%-scaled text, 110%-scaled text, and 120%-scaled text.

Low-level font definitions with raw \TeX code are not affected by standard \TeX size-changing commands: compare

```
{\tiny \texttt{tiny typewriter text}}
```

to produce `tiny typewriter text` with

```
{\tiny \mytt{1.0}{tiny (whoops!)\ typewriter text}}
```

to typeset `tiny (whoops!) typewriter text`.

Despite our cautions about not conforming to \TeX size-changing commands, in documents that need to show a lot of computer input and output, our private macro is nevertheless a useful tool to squeeze long verbatim lines into the document line width, without having to introduce possibly-confusing line wrapping.

Font color and style

It is easy to get colored text into a document using these preamble declarations

```

\usepackage[pdftex]{color}
\usepackage{rgb}

```

to define a number of \TeX macros, and color names.

The `rgb` package is a Utah addition that provides \TeX definitions of all of the named colors supplied by the X11 Window System on desktop Unix(-like) systems.

You can see X11's roughly 800 color definitions in the system-dependent files `/usr/openwin/lib/X11/rgb.txt` and `/usr/share/X11/rgb.txt`, or view them interactively in a terminal window like this:

```
% showrgb | less
199 21 133          medium violet red
176 196 222        light steel blue
102 139 139        paleturquoise4
159 121 238        mediumpurple2
...
 61  61  61          gray24
255 255 255        white
  0 205 205         cyan3
  0  0  0           black
```

For use in \LaTeX , X11 color names are downcased, and embedded spaces are removed, so the first output line corresponds to the \LaTeX color `mediumvioletred`, which the `rgb` package defines like this:

```
\definecolor{mediumvioletred}{rgb}{0.780,0.082,0.522}
% #c71585 199 21 133 MediumVioletRed
```

The sharp-prefixed value in the comment is the hexadecimal equivalent that could be used in place of a named color in a command-line color option, such as these equivalent commands:

```
% xterm -bg 'medium violet red' -fg white &
% xterm -bg '#c71585' -fg '#ffffff' &
```

Knowing the hexadecimal values makes it easy to produce families of windows with slightly varying shades of color, such as these examples that use three-character hexadecimal colors differing by one digit in each primary color:

```
% xterm -bg '#4d8' &
% xterm -bg '#5e9' &
% xterm -bg '#6fa' &
```

The X11 color names have varied over time, so if you find a color name in `showrgb` output on your system that is not in the `rgb` package, scale its integer red, green, and blue values from the range `[0,255]` to the range `[0,1]` to provide a new definition like this:

```
\definecolor{teal}{rgb}{0, 0, 0.502} % #008080 0 128 128 teal
```

As described in Appendix C.14.3 of the *\LaTeX User Guide and Reference Manual*, the `color` package provides macros for coloring foreground and background of typeset material. For example, `\textcolor{red}{red text}` produces **red text**, and `\textcolor{blue}{\bf bold blue text}` produces **bold blue text**.

You can also supply background colors with


```
\colorbox{skyblue}{black on skyblue}
```

to get `black on skyblue`, or embellish that further with

```
\fcolorbox{red}{skyblue}{red-bordered black-on-skyblue text}
```

to typeset `red-bordered black-on-skyblue text`.

The text color inside the box can be changed as well, with input `\colorbox{teal}{\textcolor{yellow}{yellow on teal}}` to typeset `yellow on teal`.

Boxing interferes with line breaking, because color boxes are unbreakable horizontal material. You need to use them judiciously, and you may have to rewrite prose containing color boxes to help \TeX 's line breaking.

However, what if you want to color all verbatim text? You cannot include such text as an argument to other macros, so you have to dig into \TeX internal to find how the verbatim font is selected, and then insert a suitable color command. The standard file `latex.ltx` that defines the core of \TeX contains the one-line definition

```
\def\verbatim@font{\normalfont\ttfamily}
```

that sets the font for the verbatim environment, as well as for the `\verb` macro. Because it contains an at-sign, you need to redefine it in a private style file, where such characters are permitted in macro names.

Here is a reasonable set of definitions that allow you to dynamically change the default verbatim font color and style:

```
%%% Internal macros
\def \verbatim@style {}      % default value
\def \verbatim@color {blue} % default value
\def \verbatim@font  {\normalfont \color{\verbatim@color}
                    \ttfamily \verbatim@style}
%%% Public macros for GLOBAL color and style changes:
\def \verbatimcolor #1{\def \verbatim@color {#1}}
\def \verbatimstyle #1{\def \verbatim@style {#1}}
```

You can then temporarily change colors inside a braced group with

```
{%
  \verbatimcolor{red}      \verb=red=,
  \verbatimcolor{blue}    \verb=blue=, and
  \verbatimcolor{hotpink} \verb=hotpink=
}
```

to typeset `red`, `blue`, and `hotpink` verbatim text.

You can also change styles, if the fixed-width font family permits, with

```
{%
  \verbatimstyle{\bfseries} \verb=bold=,
  \verbatimstyle{\itshape} \verb=italic=, and
  \verbatimstyle{\slshape} \verb=slanted=
}
```

to typeset **bold**, *italic*, and *slanted* verbatim text.

Finally, you can combine color and style with input

```
{%
  \definecolor {utahred} {rgb} {0.8, 0, 0}%
  \verbatimstyle {\bfseries \itshape}%
  \verbatimcolor {utahred}%
  \verb=Utah red bold italic=%
}
```

to typeset **Utah red bold italic** verbatim text.

Dark colors on light backgrounds generally work best.

Remember that color reproduction fidelity varies across output devices, and color perception by humans is often affected by culture, and by retinal differences. Notably, up to 6% of human males have difficulty distinguishing **red** and **green**: both may resemble shades of **brown**. If the three color names in the preceding sentence look similar to you, then you may have a degree of red–green perception difficulty.

Human color perception is also affected by viewing distance and ambient lighting. Prepare a lecture slide with black, blue, and red text on a light background, and then view it from different places in the classroom: you will likely find it hard to distinguish the text colors at long distances, unless the font is large and bold.

Dangerous digits

In most font designs, decimal digits have equal widths, and thus, line up neatly in \TeX array and tabular displays. However, there *are* fonts where digits vary in width, and when that is the case, numerical displays may look quite peculiar. Pay attention to that point if you explore the font world more widely than we do in this document!

In font families that include a repertoire of mathematical characters, the text and math digits are usually identical, but that is not always the case. When they are not, you need to be particularly careful in marking your input. Here is an example:

```
A magician pulled $27$ rabbits out of a hat in 1933,
which is mathematically interesting, because $27 = 3^3$.
```

Digits that form a word, such as a calendar year, are *text* digits, whereas digits that count something are better treated as *math* digits.

The *Chicago Manual of Style* (16th edition, 2010) says on page 464 in its section *Numerals versus Words*:

In nontechnical contents, Chicago advises spelling out whole numbers from zero through one hundred and certain round multiples of those numbers.

...

Many publications, including those in scientific or journalistic contexts, follow the simple rule of spelling out only single-digit numbers and using numerals for all others.

Thus, the CMS recommends writing text like this:

The Senator owns seventeen houses, three condos, and two forest cabins.

There are exceptions, and it later suggests favoring consistency over the rule when several numbers are used in the same sentence, paragraph, or series of paragraphs:

A 12th Century Italian farmer named Bonacci had 0 fish, 1 dog, 1 rabbit, 2 cows, 3 cats, 5 goats, 8 sheep, and 13 chickens. His son later became quite famous for that peculiar number sequence.

Confusing characters

The character shapes for several European-language letters and digits are subject to confusion, notably for the uppercase letters **O**, **Ø**, and **Q** and the digit **0**; the letters lowercase **l**, uppercase **I**, and the digit **1**; the digit **5** and uppercase **S**; and the digit **8** and uppercase **B**.

\TeX does not even supply separate macros for Greek letters whose shapes are normally identical to corresponding Latin letters, such as uppercase alpha, beta, epsilon, and omicron, and lowercase omicron.

Look carefully at the font samples earlier in this document to see how well, or poorly, the fonts distinguish the problem glyphs. Some typewriter fonts have a right-leaning stroke through the digit **0**, like *Inconsolata*'s **0**, but that looks too much like the penultimate letters of the Danish and Norwegian alphabets, **Ø** and **ø**. The left-leaning stroke in the zero in the *TXTT* fonts **0**, and the dotted-zero **0** of *Bera Mono* and *DejaVu Sans Mono* remove the Scandinavian ambiguity.

The glyph shape distinctions may not matter much for a novel, where context generally removes ambiguities. However, in scientific writing, clear differences in character shapes are essential, and you need to choose your prose, mathematical, and typewriter fonts carefully.

In mathematics text, you should probably never use the lowercase letter **l**; instead, write `\ell` for ℓ . Similarly, avoid the letter **O** unless it is suitably distinguished: in $\text{T}_{\text{E}}\text{X}$ math mode and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ mathematical environments, write `\cal O(n)` for $\mathcal{O}(n)$, `\mathcal{O}(n)` for $\mathcal{O}(n)$, `\mathit{O}(n)` for $\mathit{O}(n)$, `\mathsf{O}(n)` for $\mathbf{O}(n)$, or `\mathfrak{O}(n)` for $\mathfrak{O}(n)$.

When such material appears repeatedly, encapsulate it in a private macro that tells what it is, not what it looks like, with input

```
\newcommand {\Order} {\mathcal{O}}
...
\emph{\textbf{Warning}: Gaussian elimination on $ n \times n $
      matrices takes $\Order(n^3)$ operations.}
```

to get **Warning:** *Gaussian elimination on $n \times n$ matrices takes $\mathcal{O}(n^3)$ operations.*