

## Comparing fonts at the same x-height

Setting the font size produces wildly different sizes for lowercase characters, line densities and space usage, so we'll do some normalization to make comparison easier.

Times New Roman is our reference and it is set with 12pt and line spacing 18pt. For the rest of the fonts, we set the font size so that their x-height (ex) matches that of Times New Roman.

# **Chapter 1**

## **Timeslike**

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**Times New Roman**, relex: 1, relwidth: 1, tex font size: 12pt, em: 12pt, ex: 5.4pt, ex/em: 0.45, skip: 17.99977pt, stretch: 1.24136,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**Stix**, relex: **1**, relwidth: **0.998**, tex font size: 12pt, em: 12pt, ex: 5.4pt, ex/em: 0.45, skip: 17.9999pt, stretch: 1.24136,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Termes**, relex: **1**, relwidth: **0.997**, tex font size: 12pt, em: 12pt, ex: 5.4pt, ex/em: 0.45, skip: 17.99945pt, stretch: 1.24135,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$\$%& ()[]{}

*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*

*0123456789#\$\$%& ()[]{}*

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Stix2**, relex: **0.99**, relwidth: **0.986**, tex font size: 11.32619pt, em: 11.21292pt, ex: 5.34595pt, ex/em: 0.47676, skip: 17.99962pt, stretch: 1.30206,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

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**Libertinus**, relex: **1**, relwidth: **1.067**, tex font size: 12.5874pt, em: 12.5874pt, ex: 5.4pt, ex/em: 0.429, skip: 17.81984pt, stretch: 1.17162,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnoprtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnoprtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNoprtsuvwxyzZ

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**Noto Serif**, relex: 1, relwidth: 0.993, tex font size: 10.07465pt, em: 10.07465pt, ex: 5.40001pt, ex/em: 0.536, skip: 17.99988pt, stretch: 1.47862,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

# **Chapter 2**

## **Schoolbook**

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**New Century**, relex: 1, relwidth: 1.116, tex font size: 11.63818pt, em: 11.63818pt, ex: 5.4pt, ex/em: 0.46399, skip: 17.99982pt, stretch: 1.27997,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ

0123456789#\$\$%& ()[]{}

*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*

0123456789#\$\$%& ()[]{}

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Schola**, relex: 1, relwidth: 1.108, tex font size: 11.58801pt, em: 11.58801pt, ex: 5.40001pt, ex/em: 0.466, skip: 18.0pt, stretch: 1.2855, abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ

0123456789#\$\$%& ()[]{}

*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*

0123456789#\$\$%& ()[]{}

**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Computer Modern**, relex: **0.957**, relwidth: **1.081**, tex font size: 12.28056pt, em: 11.74713pt, ex: 5.1654pt, ex/em: 0.43971, skip: 18.63959pt, stretch: 1.22964,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Latin Modern**, relex: **0.979**, relwidth: **1.102**, tex font size: 12.28052pt, em: 12.0245pt, ex: 5.28745pt, ex/em: 0.43973, skip: 17.62047pt, stretch: 1.16269,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
 0123456789 # \$ % & () [] {}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZ

## **Chapter 3**

### **Bookman**

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**Bookman**, relex: **1**, relwidth: **1.135**, tex font size: 11.15698pt, em: 11.15698pt, ex: 5.39995pt, ex/em: 0.484, skip: 17.62419pt, stretch: 1.30731,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical type-pieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**TeX Gyre Bonum**, relex: **1**, relwidth: **1.13**, tex font size: 11.13391pt, em: 11.13391pt, ex: 5.39995pt, ex/em: 0.485, skip: 17.9995pt, stretch: 1.33792,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789 # \$ % & () [] {}

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789 # \$ % & () [] {}

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

**0123456789 # \$ % & () [] {}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

## **Chapter 4**

### **Baskerville**

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical typepieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**Libre Baskerville**, relex: 1, relwidth: **1.073**, tex font size: 10.18872pt, em: 10.18872pt, ex: 5.40001pt, ex/em: 0.53, skip: 17.99992pt, stretch: 1.46207,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AabcdefghijklmnopqrstuvwxyzZ

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**Baskervaldx**, relex: **1**, relwidth: **1.095**, tex font size: 12.27283pt, em: 12.27283pt, ex: 5.40002pt, ex/em: 0.44, skip: 18.00014pt, stretch: 1.21379,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

## **Chapter 5**

### **Utopia**

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical type-pieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**Utopia**, relex: **1**, relwidth: **1.028**, tex font size: 11.02057pt, em: 11.02057pt, ex: 5.39996pt, ex/em: 0.48999, skip: 17.99985pt, stretch: 1.35168,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**Linguistics Pro**, relex: 1, relwidth: 1.03, tex font size: 11.02039pt, em: 11.02039pt, ex: 5.39998pt, ex/em: 0.49, skip: 17.99954pt, stretch: 1.3517,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Erewhon**, relex: 1, relwidth: **1.102**, tex font size: 12.02673pt, em: 12.02673pt, ex: 5.4pt, ex/em: 0.449, skip: 18.00006pt, stretch: 1.23862,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
 0123456789#\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
 0123456789#\$%& ()[]{}  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

## **Chapter 6**

### **Bembo**

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**fbb**, relex: 1, relwidth: **1.031**, tex font size: 11.81616pt, em: 11.81616pt, ex: 5.39998pt, ex/em: 0.457, skip: 17.99951pt, stretch: 1.26067,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

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**ET Bembo**, relex: 1, relwidth: 1.073, tex font size: 12.47113pt, em: 12.47113pt,  
 ex: 5.4pt, ex/em: 0.433, skip: 17.99982pt, stretch: 1.19447,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

# **Chapter 7**

## **Garamond**

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical type-pieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**GaramondX**, relex: 1, relwidth: 1.024, tex font size: 11.97345pt, em: 11.97345pt, ex: 5.40002pt, ex/em: 0.451, skip: 17.99976pt, stretch: 1.24413,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%&()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%&()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%&()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**Crimson (Amiri)**, relex: 1, relwidth: 1.025, tex font size: 12.86023pt, em: 12.86023pt, ex: 5.40001pt, ex/em: 0.4199, skip: 17.99979pt, stretch: 1.15834,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
*AabcdefghijklmnopqrstuvwxyzZ*

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**Cochineal**, relex: **1**, relwidth: **1.026**, tex font size: 12.67603pt, em: 12.67603pt, ex: 5.39998pt, ex/em: 0.426, skip: 17.99983pt, stretch: 1.17517,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz**  
**0123456789#\$\$%& ()[]{}**  
 AabcdefghijklmnopqrtsuvwxyzZ

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**EB Garamond**, relex: 1, relwidth: 1.032, tex font size: 13.23523pt, em: 13.23523pt, ex: 5.29408pt, ex/em: 0.4, skip: 17.99979pt, stretch: 1.12552,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Crimson Pro**, relex: **1**, relwidth: **1.054**, tex font size: 12.89099pt, em: 12.89099pt, ex: 5.40002pt, ex/em: 0.4189, skip: 18.00006pt, stretch: 1.15558,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AabcdefghijklmnopqrstuvwxyzZ

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**Source Serif Pro**, relex: **1**, relwidth: **1.044**, tex font size: 11.36847pt, em: 11.36847pt, ex: 5.40002pt, ex/em: 0.475, skip: 17.99956pt, stretch: 1.31032,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
AABCDEFGHIJKLMNOPQRSTUVWXYZ

# **Chapter 8**

## **Palatino**

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical type-pieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**mathpazo**, relex: **1**, relwidth: **1.055**, tex font size: 11.51404pt, em: 11.51404pt, ex: 5.40001pt, ex/em: 0.469, skip: 18.00009pt, stretch: 1.29378,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$\$%& ()[]{}

*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*

*0123456789#\$\$%& ()[]{}*

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**newpx**, relex: **1**, relwidth: **1.053**, tex font size: 11.51385pt, em: 11.51385pt, ex: 5.4pt, ex/em: 0.469, skip: 17.99982pt, stretch: 1.29378,

abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ

0123456789#\$\$%& ()[]{}

*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*

*0123456789#\$\$%& ()[]{}*

**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**TeX Gyre Pagella**, relex: 1, relwidth: **1.102**, tex font size: 12.02673pt, em: 12.02673pt, ex: 5.4pt, ex/em: 0.449, skip: 17.99959pt, stretch: 1.2386,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
 0123456789#\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
 0123456789#\$%& ()[]{}  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**KP Serif**, relex: 1, relwidth: 1.124, tex font size: 12.24481pt, em: 12.24481pt,  
 ex: 5.39995pt, ex/em: 0.441, skip: 17.99979pt, stretch: 1.21655,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

# **Chapter 9**

## **Slab Serifs**

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**Merriweather**, relex: 1, relwidth: 0.964, tex font size: 9.72089pt, em: 9.72089pt, ex: 5.39995pt, ex/em: 0.5555, skip: 17.99991pt, stretch: 1.53241,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz  
 0123456789#\$%&()[\]{}  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz  
 0123456789#\$%&()[\]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUvwxyz**  
**0123456789#\$%&()[\]{}  
 AABCDEFGHIJKLMNOPQRSTUvwxyzZ**

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**Tinos**, relex: **1**, relwidth: **0.981**, tex font size: 11.76471pt, em: 11.76471pt, ex: 5.4pt, ex/em: 0.459, skip: 17.99948pt, stretch: 1.26617,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$%& ()[]{}

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$%& ()[]{}

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

**0123456789#\$%& ()[]{}**

AabcdefghijklmnopqrstuvwxyzZ

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**XCharter**, relex: 1, relwidth: 1.015, tex font size: 11.22656pt, em: 11.22656pt, ex: 5.39996pt, ex/em: 0.481, skip: 17.9999pt, stretch: 1.32689,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

In metal typesetting, a font is a particular size, weight and style of a typeface. Each font is a matched set of type, with a piece (a "sort") for each glyph. A typeface consists various fonts that share an overall design. In modern usage, with the advent of computer fonts, the term "font" has come to be used as a synonym for "typeface", although a typical typeface (or "font family") consists of several fonts. For instance, the typeface "Bauer Bodoni" (sample shown here) includes fonts "Roman" (or "Regular"), "Bold" and "Italic"; each of these exists in a variety of sizes. The term "font" is correctly applied to any one of these alone but may be seen used loosely to refer to the whole typeface. When used in computers, each style is in a separate digital "font file". In both traditional typesetting and modern usage, the word "font" refers to the delivery mechanism of the typeface. In traditional typesetting, the font would be made from metal or wood type: to compose a page may require multiple fonts or even multiple typefaces. In a manual printing (letterpress) house the word "font" would refer to a complete set of metal type that would be used to typeset an entire page. Upper- and lowercase letters get their names because of which case the metal type was located in for manual typesetting: the more distant upper case or the closer lower case. The same distinction is also referred to with the terms majuscule and minuscule. Unlike a digital typeface, a metal font would not include a single definition of each character, but commonly used characters (such as vowels and periods) would have more physical type-pieces included. A font when bought new would often be sold as (for example in a Roman alphabet) 12pt 14A 34a, meaning that it would be a size 12-point font containing 14 uppercase "A"s, and 34 lowercase "A"s. The rest of the characters would be provided in quantities appropriate for the distribution of letters in that language. Some metal type characters required in typesetting, such as dashes, spaces and line-height spacers, were not part of a specific font, but were generic pieces that could be used with any font.[2] Line spacing is still often called "leading", because the strips used for line spacing were made of lead (rather than the harder alloy used for other pieces).

**IBM Plex Serif**, relex: **1**, relwidth: **1.013**, tex font size: 10.46521pt, em: 10.46521pt,  
ex: 5.40004pt, ex/em: 0.516, skip: 17.99959pt, stretch: 1.42342,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
AabcdefghijklmnopqrstuvwxyzZ

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**DejaVu**, relex: **1**, relwidth: **1.107**, tex font size: 10.4046pt, em: 10.4046pt, ex: 5.39998pt, ex/em: 0.519, skip: 17.99968pt, stretch: 1.43172,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789 # \$ % & () [] { }  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789 # \$ % & () [] { }*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789 # \$ % & () [] { }**  
 AabcdefghijklmnopqrtsuvwxyzZ

## **Chapter 10**

### **Funky Stuff**

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**Alegreya**, relex: **1**, relwidth: **0.996**, tex font size: 11.9469pt, em: 11.9469pt, ex: 5.4pt, ex/em: 0.452, skip: 17.99992pt, stretch: 1.24689,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$\$%& ()[]{}

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789#\$\$%& ()[]{}

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

**0123456789#\$\$%& ()[]{}**

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Spectral**, relex: **1**, relwidth: **1.096**, tex font size: 12pt, em: 12pt, ex: 5.4pt, ex/em: 0.45, skip: 17.9999pt, stretch: 1.24136,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& (){}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& (){}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& (){}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**Gentium Book**, relex: **0.962**, relwidth: **0.993**, tex font size: 11.44235pt, em: 11.00754pt,  
ex: 5.19482pt, ex/em: 0.47194, skip: 17.99965pt, stretch: 1.2524,  
abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
AABCDEFGHIJKLMNOPQRSTUWXYZZ