

## Comparing fonts at the same space usage

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 keep the ratio of x-height (ex) and line height (baselineskip) the same as with Times New Roman. This is intended to keep the density of lines in the page the same for all fonts regardless of their actual height. The hope is that this density largely determines the overall visual impression and the ease of scanning lines. Unfortunately, ex can be misspecified and is at best a rough measure of the [perceived] height of the lowercase characters, so this scheme is not perfect. The most obvious cases were fixed up to look about right. With line height relative to font size thus determined, we choose the font size to normalize space usage. That is, the font size is chosen such that a given piece of reference text will need about the same amount of space (area) on the page as with Times New Roman.

After all this, just look at the pages – maybe at different resolutions, levels of zoom and in print – and find out what font looks best to you.

# **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,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& ()[]{}**  
AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Stix**, relex: **1.001**, relwidth: **0.999**, tex font size: 12.01135pt, em: 12.01135pt, ex: 5.4051pt, ex/em: 0.45, skip: 18.01692pt, stretch: 1.24136,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Termes**, relex: **1.002**, relwidth: **0.998**, tex font size: 12.01831pt, em: 12.01831pt, ex: 5.40823pt, ex/em: 0.45, skip: 18.0269pt, stretch: 1.24135,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Stix2**, relex: **0.992**, relwidth: **0.988**, tex font size: 11.34976pt, em: 11.23625pt, ex: 5.35709pt, ex/em: 0.47676, skip: 18.03706pt, stretch: 1.30206,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Libertinus**, relex: **0.973**, relwidth: **1.038**, tex font size: 12.24591pt, em: 12.24591pt, ex: 5.2535pt, ex/em: 0.429, skip: 17.3364pt, stretch: 1.17162,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Noto Serif**, relex: **1.003**, relwidth: **0.997**, tex font size: 10.10815pt, em: 10.10815pt, ex: 5.41797pt, ex/em: 0.536, skip: 18.05975pt, stretch: 1.47862,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$%& O[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& O[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& O[]{}**  
AABCDEFGHIJKLMNOPQRSTUVWXYZ



# **Chapter 2**

## **Schoolbook**

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**New Century**, relex: **0.947**, relwidth: **1.056**, tex font size: 11.01874pt, em: 11.01874pt, ex: 5.11258pt, ex/em: 0.46399, skip: 17.04176pt, stretch: 1.27997,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Schola**, relex: **0.95**, relwidth: **1.053**, tex font size: 11.0083pt, em: 11.0083pt, ex: 5.12987pt, ex/em: 0.466, skip: 17.09952pt, stretch: 1.2855,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

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**Computer Modern**, relex: **0.957**, relwidth: **1.081**, tex font size: 11.5806pt, em: 11.74713pt, ex: 5.1654pt, ex/em: 0.43971, skip: 16.88351pt, stretch: 1.18114,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
 0123456789 # \$ % € () [] {}  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Latin Modern**, relex: **0.933**, relwidth: **1.05**, tex font size: 11.69836pt, em: 11.45448pt, ex: 5.0368pt, ex/em: 0.43973, skip: 16.78531pt, stretch: 1.1627,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789 # \$ % & ' () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

## **Chapter 3**

### **Bookman**

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).

**Bookman**, relex: **0.949**, relwidth: **1.077**, tex font size: 10.5846pt, em: 10.5846pt, ex: 5.12291pt, ex/em: 0.484, skip: 16.72pt, stretch: 1.30731,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Bonum**, relex: **0.941**, relwidth: **1.063**, tex font size: 10.47546pt, em: 10.47546pt, ex: 5.0806pt, ex/em: 0.485, skip: 16.93504pt, stretch: 1.33792,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**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 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).

**Libre Baskerville**, relex: **0.966**, relwidth: **1.036**, tex font size: 9.83807pt, em: 9.83807pt, ex: 5.21417pt, ex/em: 0.53, skip: 17.38046pt, stretch: 1.46207,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789 # \$ % & () [] {}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789 # \$ % & () [] {}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789 # \$ % & () [] {}**  
 AabcdefghijklmnopqrstuvwxyzZ

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**Baskervaldx**, relex: **0.955**, relwidth: **1.047**, tex font size: 11.72571pt, em: 11.72571pt, ex: 5.1593pt, ex/em: 0.44, skip: 17.19728pt, stretch: 1.21378,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

## **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: **0.986**, relwidth: **1.014**, tex font size: 10.86932pt, em: 10.86932pt, ex: 5.32585pt, ex/em: 0.48999, skip: 17.75279pt, stretch: 1.35168,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

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**Linguistics Pro**, relex: **0.985**, relwidth: **1.015**, tex font size: 10.86053pt, em: 10.86053pt, ex: 5.32166pt, ex/em: 0.49, skip: 17.73845pt, stretch: 1.3517,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AAABCDEFGHIJKLMNPOQRSTUWXYZZ

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**Erewhon**, relex: **0.953**, relwidth: **1.05**, tex font size: 11.45728pt, em: 11.45728pt, ex: 5.14432pt, ex/em: 0.449, skip: 17.14775pt, stretch: 1.23862,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
 0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
 0123456789#\$\$%& ()[]{}  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

## **Chapter 6**

### **Bembo**



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).

**fbb**, relex: **0.985**, relwidth: **1.015**, tex font size: 11.63965pt, em: 11.63965pt, ex: 5.3193pt, ex/em: 0.457, skip: 17.73062pt, stretch: 1.26067,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
 0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
 0123456789#\$\$%& ()[]{}  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**ET Bembo**, relex: 0.965, relwidth: 1.036, tex font size: 12.0379pt, em: 12.0379pt, ex: 5.2124pt, ex/em: 0.433, skip: 17.37453pt, stretch: 1.19447,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**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: **0.988**, relwidth: **1.012**, tex font size: 11.82953pt, em: 11.82953pt,  
 ex: 5.33511pt, ex/em: 0.451, skip: 17.7834pt, stretch: 1.24413,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRTSUVWXYZZ

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**Crimson (Amiri)**, relex: **0.988**, relwidth: **1.012**, tex font size: 12.7024pt, em: 12.7024pt, ex: 5.33372pt, ex/em: 0.4199, skip: 17.77887pt, stretch: 1.15834,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AabcdefghijklmnopqrtsuvwxyzZ

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**Cochineal**, relex: **0.987**, relwidth: **1.013**, tex font size: 12.51636pt, em: 12.51636pt, ex: 5.33195pt, ex/em: 0.426, skip: 17.7731pt, stretch: 1.17517,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

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

*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*

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

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

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

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**EB Garamond**, relex: **0.984**, relwidth: **1.016**, tex font size: 13.02997pt, em: 13.02997pt, ex: 5.21198pt, ex/em: 0.4, skip: 17.72046pt, stretch: 1.1255,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%&€>()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**Crimson Pro**, relex: **0.974**, relwidth: **1.027**, tex font size: 12.55554pt, em: 12.55554pt, ex: 5.2595pt, ex/em: 0.4189, skip: 17.53166pt, stretch: 1.15558,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#%& ()[]{}  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#%& ()[]{}**  
 AabcdefghijklmnopqrtsuvwxyzZ



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**Source Serif Pro**, relex: **0.978**, relwidth: **1.022**, tex font size: 11.12384pt, em: 11.12384pt, ex: 5.28381pt, ex/em: 0.475, skip: 17.61224pt, stretch: 1.31032,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
AABCDEFGHIJKLMNOPQRSTUVWXYZ

# Chapter 8

## Palatino

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**mathpazo**, relex: **0.973**, relwidth: **1.027**, tex font size: 11.20789pt, em: 11.20789pt,  
 ex: 5.25642pt, ex/em: 0.469, skip: 17.52148pt, stretch: 1.29378,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUWXYZZ

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**newpx**, relex: **0.974**, relwidth: **1.026**, tex font size: 11.22015pt, em: 11.22015pt, ex: 5.26224pt, ex/em: 0.469, skip: 17.54066pt, stretch: 1.29378,

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

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

*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*

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

**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**

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

AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**TeX Gyre Pagella**, relex: **0.953**, relwidth: **1.05**, tex font size: 11.45746pt, em: 11.45746pt, ex: 5.1444pt, ex/em: 0.449, skip: 17.1476pt, stretch: 1.2386,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
 0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
 0123456789#\$\$%& ()[]{}  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**KP Serif**, relex: **0.943**, relwidth: **1.06**, tex font size: 11.55011pt, em: 11.55011pt, ex: 5.0936pt, ex/em: 0.441, skip: 16.97844pt, stretch: 1.21654,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789#\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& ()[]{}&*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& ()[]{}&**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZZ

# **Chapter 9**

## **Slab Serifs**

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).

**Merriweather**, relex: 1.018, relwidth: 0.982, tex font size: 9.90051pt, em: 9.90051pt,  
 ex: 5.49973pt, ex/em: 0.5555, skip: 18.33217pt, stretch: 1.5324,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%&()[]{}  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%&()[]{}  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$%&()[]{}  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ



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**Tinos**, relex: **1.01**, relwidth: **0.991**, tex font size: 11.87695pt, em: 11.87695pt, ex: 5.4515pt, ex/em: 0.459, skip: 18.17131pt, stretch: 1.26619,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSUVWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AabcdefghijklmnopqrtsuvwxyzZ

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).

**XCharter**, relex: **0.993**, relwidth: **1.007**, tex font size: 11.14453pt, em: 11.14453pt, ex: 5.3605pt, ex/em: 0.481, skip: 17.86838pt, stretch: 1.32689,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789 # \$ % & ' () [] {}  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ  
 0123456789 # \$ % & ' () [] {}  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRTSUVWXYZ**  
**0123456789 # \$ % & ' () [] {}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**IBM Plex Serif**, relex: **0.993**, relwidth: **1.007**, tex font size: 10.39563pt, em: 10.39563pt, ex: 5.36414pt, ex/em: 0.516, skip: 17.87991pt, stretch: 1.42342,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$%& 0[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789#\$%& 0[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$%& 0[]{}**  
AabcdefghijklmnopqrstuvwxyzZ

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**DejaVu**, relex: **0.95**, relwidth: **1.052**, tex font size: 9.88953pt, em: 9.88953pt,  
 ex: 5.13266pt, ex/em: 0.519, skip: 17.10861pt, stretch: 1.43172,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789 #\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*0123456789 #\$\$%& ()[]{}*  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789 #\$\$%& ()[]{}**  
 AabcdefghijklmnopqrtsuvwxyzZ

# **Chapter 10**

## **Funky Stuff**

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**Alegreya**, relex: **1.002**, relwidth: **0.998**, tex font size: 11.96979pt, em: 11.96979pt, ex: 5.41034pt, ex/em: 0.452, skip: 18.03442pt, stretch: 1.24689,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUUVWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUUVWXYZ*  
 0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUUVWXYZZ

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**Spectral**, relex: 0.955, relwidth: 1.047, tex font size: 11.45984pt, em: 11.45984pt, ex: 5.15692pt, ex/em: 0.45, skip: 17.18965pt, stretch: 1.24136,  
 abcdefghijklmnopqrtsuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ  
 0123456789#\$\$%& ()[]{}  
*abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ*  
*0123456789#\$\$%& ()[]{}*  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ**  
**0123456789#\$\$%& ()[]{}**  
 AABCDEFGHIJKLMNOPQRSTUVWXYZ

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**Gentium Book**, relex: **0.947**, relwidth: **0.978**, tex font size: 11.26004pt, em: 10.83215pt,  
ex: 5.11206pt, ex/em: 0.47194, skip: 17.71286pt, stretch: 1.2524,  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789#\$\$%& ()[]{}  
**abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**0123456789#\$\$%& ()[]{}**  
AABCDEFGHIJKLMNOPQRSTUVWXYZ