BETTER WEB TYPGRAPHY FOR A BETTER WEB

MATEJ LATIN
2ND EDITION
Praise for Better Web Typography for a Better Web

Seriously detailed and, more importantly, fodder for any discussion with clients to convince them why the fonts you chose were the right ones for the project.

—PAUL JARVIS
Designer & author of Company of One

Beautiful typography should never be underestimated, it tells a story, it evokes excitement, and seems so simple to create. It isn’t, but it will be once you have studied this must-read edition.

—STEVE JENKINS
Editor, Web Designer Magazine

Matej has written a book about typography that addresses designers and developers equally. But not only has he written an informative book with useful content, it also is written in a very nice and lovely-to-read way.

—MARC THIELE
Founder/organiser of beyond tellerrand
Co-founder of Smashing Conference
Better Web Typography

for a Better Web

SECOND EDITION

–

Matej Latin
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In typography, paying attention to detail is a fact of life.

—ROB CARTER
PREFACE

Whether you’re a self-taught web designer looking to expand your skills, a graphic designer keen to refresh your typography skills or a web developer looking to finally go down the road of tackling the unknown and possibly feared topic of typography, I salute you. By the end of the book you’ll be one of the Better Web Type advocates—people who aren’t happy with the current state of web typography and are proactively doing something about it.

This book is based on an email course that I launched on 14 February 2017. It was such a memorable moment but I never expected the course to become as popular as it did. I was sitting in a cosy coffee shop in Greenwich, London, when I clicked the “Start sending” button. I had always been flirting with an idea of writing a book but I never really knew what it would be about. Well, that became clear when people finishing the 10-lesson course started asking for more. They started asking for a book. The course was featured in Net magazine as the main, cover feature, and it was featured in Web Designer magazine as well as on Codrops, Designer News, Sidebar and CSS Tricks. This helped it grow and more than 20,000 students already signed up for it.

There was one thing that was quite hard about the course though: the part where I had to trim away the content but still keep the essence of the message for each of the lessons. Nobody likes to read extremely long emails so I set a limit of 1,000 words per lesson. That meant that I had to cut out a lot of things I wanted to say. I now get to remedy this by writing a fully-fledged book. The first edition of the book was released in July 2017. Since then, it has grown to become a popular web typography and web design book. In fact, some universities have adopted it as a textbook for their web design courses. I wanted to keep the book “fresh” and up-to-date so I continually kept adding useful things like cheat sheets, Sketch files and now, new and improved illustrations in the new edition.
Why this book

The answer is simple. Web typography is rarely considered as a part of the web design and development process. The development part in that sentence is essential as web developers aren’t really considered to have a role in web typography. That’s one of the reasons for writing the course, at first, and now the book. The other one is that people who are normally involved in that process usually take typography for granted. No or very little attention is given to things like choosing typefaces, shaping pages and defining font sizes. Very little attention is paid to the content itself too. As you'll see at the beginning of the book, the content is the main thing that our process needs to revolve around. With this book, I want to challenge all these things. I want to make people realise how important typography is.

Who is this book for?

Most of the course students were web designers and web developers. That’s who the course was written for but there were others who found value in it—people who studied psychology and don’t do web design at all, people who teach web design to high school students, college professors etc. Despite that, the book remains true to its origins—the course. It still is a resource for web designers and web developers. Now there are even more code examples and the book now has Sketch examples too (something I had to remove from the course completely).

I hope you’ll enjoy reading the book; it’s a product of a lot of hard work. Any feedback is greatly appreciated and I’m always happy to discuss anything about web typography or design in general. You’re welcome to get in touch at hello@matejlatin.co.uk.

Matej
16 January 2019
Edinburgh
Rhythm in typography is just like rhythm in music. A text can either flow like a masterpiece symphony performed by an in-tune orchestra, or it can be a disjointed flimsy song by a one-man band wannabe. Just like in music, where order is more pleasurable to our ears than chaos, so is a well-designed text with an established rhythm easier to read and more enjoyable to consume by our eyes. Ears and eyes are just the sensory tools; it’s our mind that processes the information. And our mind is a machine for pattern recognition. That’s why a well-tuned, rhythmic and proportional text will always triumph over a scrappy one. But, unlike in music, there are two types of rhythm in typography: horizontal and vertical (FIG 6.1).

The music analogy works very well with typography, because your text will either be easy to read and the reader will get into flow—not focusing on reading but simply consuming the content —or struggle through the information before finally giving up. Horizontal rhythm mostly impacts the legibility, while vertical rhythm impacts the readability of the text and establishes a sense of visual hierarchy.
HORIZONTAL RHYTHM

Letter spacing (tracking)

Letter spacing is more commonly known as tracking in print design. It can have a massive impact on the legibility of the words, so it should be used with caution. Letter spacing lower case text is not recommended. “A man who would letterspace lower case would steal sheep,” Frederic Goudy used to say.²⁹ Letter spacing impacts legibility because it makes the words harder to be deciphered by our brain. Reading slows down, even for fast readers. Unless you have a very good reason for doing so, don’t letter space the main body text.

There are two occasions when letter spacing can have a positive impact. Headings tend to be larger and heavier than the body text. Because of their larger size, the spacing between the letters also looks optically larger than at smaller sizes. In this case, it’s a good idea to slightly reduce the letter spacing. We’re talking about 3–5%, not more. This will make your heading a bit more compact, and a bit closer in appearance to the body type (fig 6.2).
Another occasion where letter spacing can be useful is when applied to small caps or uppercase text only. Using uppercase for longer text is a really bad idea, so this might be best combined with headings again. Whenever we have a line of text set in all uppercase or small caps (we’ll cover small caps in the second part of the book), it’s a good idea to increase the spacing between the letters just a bit. Again, we’re talking about small increases, but just enough to make a difference. My recommendation is from 5 to 10% (FIG 6.3).

FIG 6.2: Example on top is okay, the bottom one has 0.04 em of negative letter-spacing applied and is better.

FIG 6.3: Applying letter spacing to uppercase or small caps helps with legibility. Example at the bottom has 0.01 em of letter-spacing applied.
By doing so, we make the uppercase letters and words easier to read and process because the letters are easier to recognise. Besides that, a bit more space between the letters will add a touch of sophistication to our design. Pay attention to well-designed products or brands that use all uppercase in their branding. You'll notice that most of them are letter spaced.

Letter spacing acronyms and long series of digits is also recommended, even in the body text.

**Kerning**

Spacing between different letters is far from equal. Each letter comes with a default set of spacing around it, no matter the neighbouring letter. That’s why we get inconsistencies like in the figure below (FIG 6.4).

![FIG 6.4: Bad kerning, also known as keming. In this particular case it’s so bad that the word “SAVE” seems to be two words “SA” and “VE”.](image)

Kerning—altering the spaces between particular pairs of letters—can resolve these issues. The result is a much better proportioned word and optical perfection (FIG 6.5). Kerning, unlike letter spa-
cing, changes the spacing around letters depending on their neighbour letters.

![Fixing the bad kerning: no kerning applied (top), kerning applied (bottom).](image)

Most web browsers default kerning to auto. This means that the kerning will be enabled for larger type and disabled for smaller. Bad kerning is not as obvious on small type. If you wish, you can control it like this:

```css
font-kerning: auto; // default
font-kerning: normal; // enables kerning
font-kerning: none; // disables kerning
```

That’s about it when it comes to what we can do with the default browser support right now. This is probably not good enough for special occasions when we need to move a particular letter by x pixels to achieve that optical perfection. Thankfully, there are tools like Lettering.js. With it, we can control the positioning (and also style) of each letter.

*K kerning in Sketch*

Sketch comes with default kerning enabled but you can change it or disable it completely if needed. To do that, you need to select the
text (actual text, not the text box) and go to Type > Kern > Tighten if you want tighter kerning and Type > Kern > Loosen if you want looser kerning. Choose the default option to go back to normal or the disable option to completely disable it.

**Don’t justify on the web**

A break in music has a meaning. It separates the sound from silence. Nothingness from a rich sound of a chord. It seemingly breaks the rhythm (even though breaks in music always match the rhythm). We get the same effect in typography. A combination of letters, words and empty spaces define the rhythm. For reading to flow, that rhythm needs to be consistent. And because (as we learned earlier) we read word by word, too much spacing between words breaks this rhythm. It breaks the flow of reading. It turns the easiest text to read into something that is hard to consume, no matter the language or words used.

**FIG 6.6:** Comparing left-aligned and justified text on the web (no hyphenation).

Web browsers render justified text very poorly. They don’t have the necessary algorithms to properly set the spacing between words and even individual letters (which is what proper text editors do). That’s why justified texts come with patches of space between the words: rivers of white between the black of text (**FIG 6.6**). This
makes it very hard to read so justifying text on the web should be avoided at all costs. Web browsers are getting better in supporting hyphenation, though. If you do use justified text, complement it with hyphenation (Fig 6.7). For now, I recommend not using justified alignment at all.

![Fig 6.7: Not hyphenated and not ok (left) and hyphenated and slightly better (right).](image)

**Justified alignment and accessibility**

Benedicte, a student from the Better Web Type course sent me an email recently. He told me that he works for an organisation in Norway that specialises in books for readers with different special needs. He pointed me to the fact that people with dyslexia have a particular problem with reading justified aligned texts. It’s not clear where a line of text ends which makes it very easy to switch to the wrong line. I did a bit of research and even Gov.uk (a UK public sector information website) recommends aligning text to the left.³¹

**Paragraph indenting**

A common way to visually separate paragraphs in books is to indent the first line. It’s actually more common than putting an empty line between them. In terms of rhythm, we’re changing the horizontal rhythm to separate paragraphs instead of the vertical one. The contrary is true on the web—paragraphs are more commonly
spaced apart but indenting the first line is quite a simple thing to do. There are two rules that must be followed:

1. *Don’t indent the first line of the first paragraph or of the paragraph that comes after a heading, an image or any other type of figure.* I know it sounds quite complicated but it’s actually very simple when it comes to CSS.

   ```css
   p + p {
     text-indent: 1em;
   }
   ```

   This works because the text-indent property will only be applied to paragraphs that are preceded by another paragraph. If a paragraph is preceded by an *h1*, for example, the text indent won’t be applied. That’s exactly what we want.

2. *Don’t put a bottom margin on your paragraphs.* They’re visually divided by the indented line and that’s enough. There’s no point in having space between them. Indented and spaced-apart paragraphs make skilled typographers cringe.

   ```css
   p {
     margin: 0 auto;
   }
   ```

   This will set the top and bottom margins of all paragraphs to 0, just to make sure that a top margin doesn’t put a blank space between the paragraphs (*FIG 6.8*).

I recommend doing this for texts that aren’t broken down into different sections, divided by titles or a lot of images. It simply works best with longer texts divided into paragraphs. Long articles or web books are best-use cases for paragraph indentation.
Garamond (c. 1510 – 1561)

Garamond worked as an engraver of punches, the masters used to stamp matrices, the moulds used to cast metal type. He worked in the tradition of what is now called old-style serif letter design, that produced letters with a relatively organic structure resembling handwriting with a pen but with a slightly more structured and upright design.

Although Garamond himself remains considered an eminent figure in French printing of the sixteenth century, historical research over the last century has increasingly placed him in context as one artisan among several active at a time of rapid production of new typefaces in sixteenth-century France.

**FIG 6.8:** Paragraph indenting for indicating where a new paragraph starts.

*How much indentation?*

The recommended and most common paragraph text indent is 1em, just like we set in our example above. It’s also common to set it to one unit of line height (more on line height being a unit in the upcoming vertical rhythm section). So if we had a paragraph with a font size of 18 pixels and a line height of 27 pixels, we would set the paragraph indent to 27 pixels, or 1.5em (equalling the line height of 1.5). Half an em is considered the minimum for paragraph indentation and 3em the maximum. My recommendation is either 1em or equal to one unit of line height.

**Hanging punctuation**

Hanging punctuation is something 9 out of 10 websites get wrong. I’m sure that once I tell you about it, you’ll start noticing it everywhere. By its definition, hanging punctuation “is a way of typesetting punctuation marks and bullet points, most commonly quotation marks and hyphens, so that they do not disrupt the ‘flow’ of a body of text or ‘break’ the margin of alignment”.³² Let’s take a look at a few examples.
“Garamond worked as an engraver of punches, the masters used to stamp matrices, the moulds used to cast metal type. He worked in the tradition of what is now called old-style serif letter design, that produced letters with a relatively organic structure resembling handwriting with a pen but with a slightly more structured and upright design.”

“Garamond worked as an engraver of punches, the masters used to stamp matrices, the moulds used to cast metal type. He worked in the tradition of what is now called old-style serif letter design, that produced letters with a relatively organic structure resembling handwriting with a pen but with a slightly more structured and upright design.”

**FIG 6.9:** No hanging punctuation (top), hanging punctuation used (bottom).

Can you notice the difference in the image above (FIG 6.9)? It’s jarring to me and it really hurts to see the example on the left so often. The quotation marks at the very beginning of the paragraph must sit outside the main block of text so it doesn’t disrupt the flow, or the rhythm, of it. It’s a small detail, I know, but it can have a major impact on the overall look of your typography if done right. So how do we do it right? That’s where it gets a bit complicated. There is a CSS property for hanging punctuation but it’s only well supported by Safari at the time of writing this.

```css
blockquote p {
    hanging-punctuation: first;
}
```

Setting the hanging-punctuation property to “first” means that “An available character at the start of the first formatted line of an element hangs”. In our case this means the quotation mark at the
start of the first line of our paragraph hangs. The “available charac-
ter” part simply means that the quotation mark is on the list of
characters that CSS considers as the ones that can hang.

That’s great, but because of the poor browser support, we can’t use
this at the time of writing this book. Too bad, that would make it so
easy. Well, as it turns out, there’s a workaround that’s equally
simple: negative text indent.

```css
blockquote p {
  text-indent: -0.5em;
}
```

Here’s what we get (**FIG 6.10**):

```
“Garamond worked as an engraver of punches, the
masters used to stamp matrices, the moulds used to
cast metal type. He worked in the tradition of what is
now called old-style serif letter design, that produced
letters with a relatively organic structure resembling
handwriting with a pen but with a slightly more
structured and upright design.”
```

**FIG 6.10**: A closer look at how a negative text-indent works.

Just make sure you change its value so it works with the font you’re
using. -0.5em should be pretty much there but make sure you
change it if needed, so it’s spot on. Take a look at the live example

There’s a problem with both of the two solutions I haven’t told you
about yet. Well, actually, both solutions work considering the quo-
tation marks only come in the first line. What if we were to quote
someone in the middle of a sentence and that quotation happens to
start on a new line?
None of the two solutions work in this example (FIG 6.11). The quotation mark is pushed into the main body of the text. It’s aesthetically unappealing but there’s not much we can do about it. At least not yet.

**Hanging punctuation with other characters**

Hanging punctuation should be applied to other characters as well. After the quotation marks, the next most important are bullets. Again, most websites get this wrong but, actually, browsers get this wrong by default as well. This is how most browsers will render ordered and unordered lists by default (FIG 6.12).

---

Garamond worked as an engraver of punches, the “masters” used to stamp matrices, the moulds used to cast metal type. He worked in the tradition of what is now called old-style serif letter design, that produced letters with a relatively organic structure resembling handwriting with a pen but with a slightly more structured and upright design.”

**FIG 6.11**: No hanging punctuation is possible for lines of text inside the body.

**FIG 6.12**: Default bullets disrupt the flow of the text.
In fact, the bullets should be hanging so they don’t disrupt the flow of the text. To keep the horizontal rhythm undisrupted we need to change the padding of the unordered and ordered list elements.

```css
ul, ol {
    padding-left: 0;
    list-style-position: outside;
}
```

**Note:** Also make sure that list-style-position is set to outside.

This will push the bullets outside and keep the horizontal rhythm unaffected (**FIG 6.13**). Having the bullet points inside the main block of text is not as big a crime as having the quotation marks inside. It is typographically correct but I know that it looks strange to some people, at least at first. They don’t mind it once they get used to it. We, as a web design community, have been making mistakes like this for so long that these things need to be re-hardwired. I, personally, see the hanging bullets as a recommendation, but hanging quotation marks as a rule. Take a look at a live example of the list at betterwebtype.com/book/c6e2.
VERTICAL RHYTHM

Let’s say that a website has the main body text set at 20 pixels and a line height of 30 pixels. The line length should be appropriate for this size and line height: 600 pixels looks just about right. We now have all we need to set up the vertical rhythm throughout the page. To do that, we need a basic rhythmical unit. In typography, that’s line height. We can see it by adding a 30-pixels-tall baseline grid to our website (FIG 6.14).

```css
p {
  font-size: 20px;
  line-height: 30px;
  max-width: 600px;
}
```

The use of movable type was a marked improvement on the handwritten manuscript, which was the existing method of book production in Europe, and upon woodblock printing, and revolutionized European book-making. Gutenberg’s printing technology spread rapidly throughout Europe and later the world.

FIG 6.14: Baseline grid indicates equal line height and vertical rhythm.

Note: Unlike in print and graphic design, the baseline grid lies right in the middle of the lines (FIG 6.15). Often people ask me if it shouldn’t lie right at the bottom of the bodies of letters. Not on the web. Take a look at how web browsers interpret a line of text:

FIG 6.15: A baseline grid on the web falls right in the middle between the line, unlike in print where letter bodies lie directly on it.
We only have a paragraph of text for now, so everything looks right. To keep this rhythm going, we need to use the line height as a base unit for every size, margin and padding on the site. Let’s see. We want to add a title to our text. We assign a size of 55 pixels to it, to make it stand out. Its line height now needs to be an even multiple of the original (base) line height, our main rhythmic unit. This also applies to its margins—especially the top and bottom ones (FIG 6.16).

```
h3 {
  font-size: 55px;
  line-height: 60px;  // = 2 × 30px
  margin-top: 90px;  // = 3 × 30px
  margin-bottom: 30px;  // = 1 × 30px
}
```

*Note: I’m using pixels for these examples but you should be using units like em, rem or just a decimal 1.5 or a percentage (150%) value for line height.*

![Image of steam-powered rotary presses and Printing Press](image.png)

**FIG 6.16:** Heading 3’s line height equals two lines, its margins equal three lines on top and one line at the bottom. Everything falls into place.
We assigned a line height of 60 pixels because it’s the next multiple of our base line height (30 pixels) that comfortably accommodates the title set at 55 pixels. A guideline for heading margins that I like to stick with is that the bottom margin should be noticeably smaller than the top one. A lot of websites make the mistake of having equal top and bottom margins for headings, so they float right in the middle between the blocks of text. The title needs to visually connect with the text beneath it, the text it’s actually referring to. And that’s exactly what we want to achieve with vertical rhythm and visual hierarchy. A reader can now understand the structure of the text by simply scanning it.

Because we’ll need this in most cases it’s best practice to assign default line height, margins and paddings to all elements and deviate from it only when necessary.

```css
* {
  line-height: 30px;
  margin-top: 0;
  margin-bottom: 30px; // = 1 × line height
}
```

So if you want your lists to have a specific bottom margin, you’d go for something like this:

```css
ul, ol {
  margin-bottom: 60px; // = 2 × 30px
}
```

You may be questioning what happens when an image breaks the vertical rhythm. It’s a good question. Images come in various sizes. It’s impossible to expect that we’ll be able to control their height on every occasion, especially for large-scale websites. What do we do then? My suggestion: let it be. Use the baseline grid as a guide, not as a restraint. Your text and your page proportions are still rhythmically correct. It still has an established visual hierarchy. Large solid blocks of content, which images certainly are, don’t visually break the rhythm apart. It may break your grid, yes, but at the end of the day it doesn’t matter. The grid is just a tool.
Vertical rhythm with Sass

Last year, I built a tool revolving around vertical rhythm and modular scales in typography. I called it Gutenberg—a meaningful web typography starter kit. Sass was the one thing that made it so much easier. In fact, I don’t think it could have been built without it. Its main goal is that a developer sets a few basic sizes (font size, line height and max width) and Gutenberg takes care of the proportions and vertical rhythm. I now use it for every website I build. Here’s the main thing that Sass made so much easier:

```scss
// $base-font-size: 112.5; // Is used as %
$line-height: 1.667; // = 30px

$base: 16 * ($base-font-size / 100);
$leading: $base * $line-height;

@mixin margin-top($number){
  margin-top: #{$number * $leading} 'px';
  margin-top: #{$number * $line-height} 'rem';
}
```

This is the mixin I used a lot. Gutenberg has similar mixins for other margins and padding as well. Instead of manually setting any margins or paddings, I used mixins every time. That way, I’m sure the vertical rhythm is left intact. An example of using the mixin above is:

```scss
h3 {
  @include margin-top(2);
}
```

Which translates to:

```scss
h3 {
  margin-top: 60px; // 2 × line-height (30px)
  margin-top: 3.334rem; // 2 × line-height (1.667)
}
```

The Sass mixin sets the bottom margin in rems, and in pixels as a fallback.
Vertical rhythm in Sketch

You don’t need a plugin to set a baseline grid in Sketch. We can do that with the features Sketch offers out of the box with a simple workaround. Once in Sketch, add an artboard. Then, go to View > Canvas > Layout Settings. The layout settings window will open (FIG 6.17). Here’s what you need to do:

1. Tick the “Columns” checkbox and change the value of “Total width” to match the width of your artboard. “Offset” must be set to 0. You can disable the “Columns” checkbox then, as we don’t really need them.
2. Now tick the ‘Rows’ checkbox if it isn’t already. Change the ‘Gutter height’ to ‘30px’ to match the line height and set the ‘Row height’ to ‘1’.

FIG 6.17: Layout settings in Sketch
3. Then change the “Visuals” radio to “Stroke outline”.
4. Change the colour of the lines to something subtle. You need to change the “Dark” colour. I usually set it to a light shade of blue. Click “OK”.

Bam! You now have a baseline grid in Sketch (FIG 6.18). Simple, right?

FIG 6.18: Baseline grid in Sketch.

*Note: your content will display behind the grid and there’s no way of changing that. What you can do is change the opacity of the lines. You can do that in the colour selection window while selecting the colour in Step 4 above.*

**LET’S APPLY RHYTHM TO OUR WEBSITE**

Well done for making it so far. Rhythm is one of the most important things in typography and it doesn’t take too much effort to get it
right. I know that some designers like to use what looks right to their eyes (they make the decision based on what looks right optically), and others prefer to back their decisions with maths. I believe both can and should work together. I like to start off with what’s mathematically correct and make optical corrections when they’re needed.

In the previous chapter, we decided which typeface to use for headings on our example website. The following is where we left off (FIG 6.19).

**SpaceX successfully launches reused Dragon spacecraft for ISS resupply**

SpaceX’s CRS-11 launch on Saturday was a success, bringing a Dragon spacecraft loaded down with nearly 6,000 lbs of supplies and research equipment on board to orbit. The twist was that SpaceX already sent this Dragon capsule up to resupply the International Space Station once before—back in September 2014, when it carried cargo to the ISS prior to being recovered and refurbished post-mission.

The successful relaunch of a recycled Dragon is another historic milestone for SpaceX, which is aiming to reuse various parts of its launch and spacecraft equipment in order to help lower the cost of getting stuff to space. This is key to its aim of making launching a lucrative and profitable business, and also to its achieving its goal of flying missions, including crewed operations, to Mars.

**FIG 6.19:** Our result of the example website from the previous chapter.

We have our body text set to 18 pixels and our line height is 1.45 (26 pixels). With that, we have everything we need to apply vertical rhythm to our website. I’ll be using Sass throughout this example and I’ll only be focusing on desktop, to make things easier to understand. In a real example, the process would need to be repeated for the mobile text size and line height (if it’s not the same as on desktop)—something we’ll cover in the chapter about responsive web typography.
Let’s start by setting the line height and the bottom margin for all elements.

```css
// Variables
$base-font-size: 112.5; // Gets used as %
$line-height: 1.45;

// Vertical rhythm mixins
@mixin line-height($number) {
  line-height: #{ $number * $line-height + 'rem'};
}

@mixin margin-top($number) {
  margin-top: #{ $number * $line-height + 'rem'};
}

@mixin margin-bottom($number) {
  margin-bottom: #{ $number * $line-height + 'rem'};
}

html {
  font-size: #{ $base-font-size + '%'}; // 112.5% = 18 pixels
}

* {
  @include line-height(1);
  @include margin-bottom(1);
  @include margin-top(0);
}
```

We’ve just reset the line height and the margins of every element. They all fit the baseline grid now. With that, we created a problem at the same time. Headings are usually larger than body text size and won’t fit into a single line height. We need to change the line height for all headings. Let’s change their margins while we’re at it as well.

The easiest way to do that is to create an object with a list of all headings and their values for their line height, top and bottom margins.
All right, now we’re talking. Now even all the major text elements fit the baseline grid (FIG 6.20). And that’s pretty much it when it comes to vertical rhythm. We have a good foundation to work on. Let’s make sure we set all our line heights and margins with the Sass mixins from now on and everything will be all right. Check out our example website so far at betterwebtype.com/book/c6.

**SpaceX successfully launches reused Dragon spacecraft for ISS resupply**

SpaceX’s CRS-11 launch on Saturday was a success, bringing a Dragon spacecraft loaded down with nearly 6,000 lbs of supplies and research equipment on board to orbit. The twist was that SpaceX already sent this Dragon capsule up to resupply the International Space Station once before—back in September 2014, when it carried cargo to the ISS prior to being recovered and refurbished post-mission.

**FIG 6.20:** Our result so far: text and margins correctly and consistently spaced apart.
KEY TAKEAWAYS

• Letter spacing and kerning adjust the spacing between individual letters, but letter spacing changes all spaces equally, while kerning adjusts the spaces depending on their neighbouring letters to improve legibility.
• Don’t use justified alignment for text on the web. Web browsers still do a poor job at rendering it, resulting in “rivers of white space” between the words. That impacts the flow and horizontal rhythm, making the text harder to read.
• Paragraph indenting can be a neat way of indicating new paragraphs using horizontal rhythm. Indentation is most commonly set to either 1em or 1 line height.
• Hanging punctuation helps keep the flow of the text intact. Quotation marks should be placed outside of the main body text, as should the bullet points in unordered lists and numbers in ordered lists.
• Vertical rhythm makes a text easier to scan and read, and it establishes visual hierarchy on the page. The best way to remain consistent in defining vertical margins and sizes is using a tool like Sass and its mixins.
THANKS

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