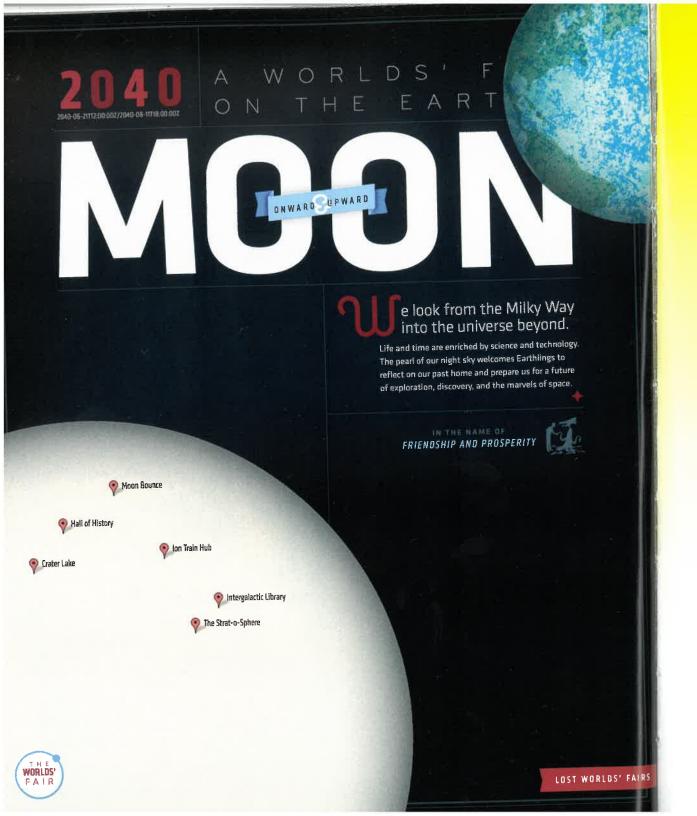
Ellen Lupton, editor

on screen

A critical guide for designers, writers, developers, & students



02 TEXT ON SCREEN

YOUNG SUN COMPTON

So you picked some fonts. Now what? Typography isn't just about choosing typefaces. It's about what you do with them.

Once you choose one or two type families that fit the context and content of your project, you are ready to tackle the principles of typographic composition. Designers manipulate size, contrast, weight, color, rhythm, texture, and hierarchy in order to craft pleasing and compelling reading experiences. Good typography often goes unnoticed, melting into the background. Bad typography, on the other hand, jumps out like a scary clown, making a project look amateur, artless, or confusing.

Imagine how your audience will encounter the content. Picture modern users consuming a long-form news article. Reading their phones on the way to work, they may be deeply immersed during a long commute or distractedly killing time while waiting for coffee. If the content is interesting and easy to read, they might go back to reading the piece while at the office, this time on a desktop or laptop, and again at home on a tablet. Strong web typography recognizes and responds to these varied circumstances. Adaptive grid structures and relative measuring units accommodate the diverse life of digital content.

This chapter focuses on shaping the elements of written content that make up the primary body of most websites. Advancements in web standards are making it easier for designers to construct refined typographic systems. While myriad screen sizes and resolutions can rattle the user experience, designers employ a range of techniques to maintain a pleasant reading environment in a future-friendly way.

RECREATION IN WEB TYPOGRAPHY The Lost Worlds' Fairs was an online publication project in which leading web designers exploited features of the Web Open Font Format (WOFF). The goal was to create beautiful, engaging typography for the screen with an attention to detail that rivaled the domain of print design. The project was initiated by Microsoft and the Friends of Mighty. The webpage shown here, advertising a fictional World's Fair on the Moon, incorporates web fonts and a liquid layout. Design: Jason Santa Maria, "The Moon in 2040," Lost Worlds' Fair, 2010, http://lostworldsfairs.com/moon/.

CHOOSING A SCREEN SIZE

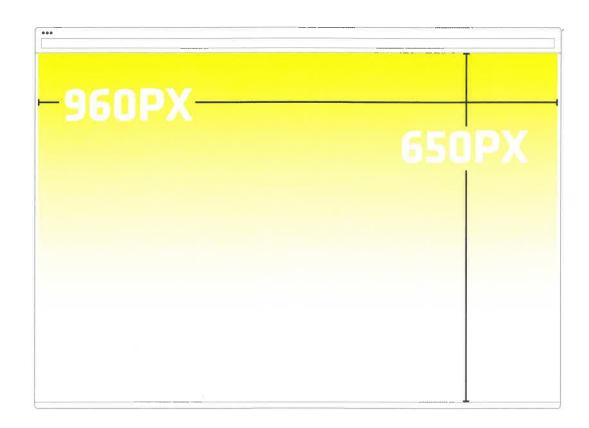
At the beginning of any project, the designer thinks about who its users are and how to best reach them. How will content be delivered, and how much space will it occupy? Until recently resolutions and screen sizes were relatively consistent among users. Now desktop monitors are getting bigger and bigger, while mobile browsing has stolen the lead in accessing the Internet, and tablets hope to replace everything in between. How can designers account for a landscape that won't stop changing?

Even in the fast-moving world of web design, we can work with helpful standards. Influential designer Khoi Vinh, in his comprehensive 2010 book Ordering Disorder, recommends a screen size of 1024×768 pixels as a starting point for web designers. At that resolution smartphones can keep up while the project is scalable enough for larger displays. In practice 1024×768 is the approximate size for the entire screen. A host of interface elements nibble away at the edges of this basic slab of real estate. The designer needs to account for the space occupied by system menus as well as the space needed for the tools, bookmarks, and status bars employed by modern browsers. When all these elements have been subtracted, what is left for the website itself is a modest parcel of about 960×650 pixels. Subdividing that space into a rational column grid is the designer's next task.



SUBTRACTION Vinh has long advocated for the application of grids to web design. Subtraction.com, a brilliant repository of Vinh's ideas about design and technology, uses a strong grid and elegant black-and-white typography to translate the theory and spirit of Swiss rationalist typography to the fluid, ever-changing world of the web. Design: Khoi Vinh, 2008.

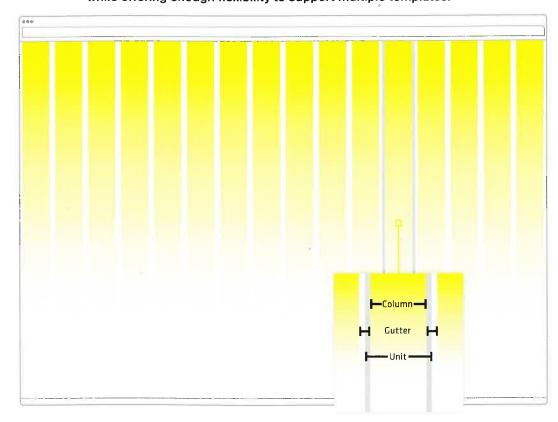
READ MORE >> Khoi Vinh, *Ordering Disorder: Grid Principles for Web Design* (San Francisco: Peachpit Press, 2010).



SEARCHING FOR A STANDARD A screen dimension of 1024 × 768 offers a useful, though not absolute, standard resolution. In a typical browser, roughly 80 percent of that space is available for the page content, leaving 974 × 650 pixels for the designer to work with. Adding some breathing room to the left and right edges of the content area reduces the active real estate to approximately 960 × 650 pixels. Diagram based on the guidelines established by Vinh in *Ordering Disorder*, 2010.

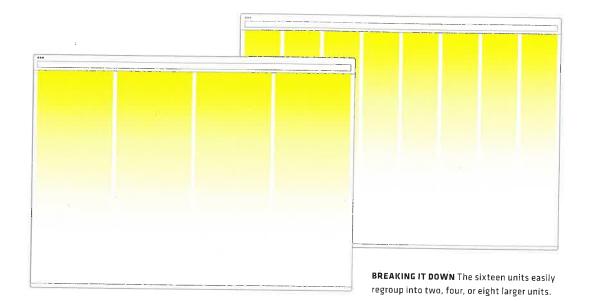
THE GRID

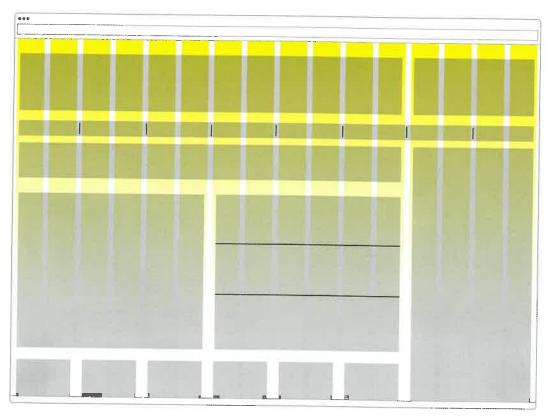
Since the 1950s print designers have used grids to organize the empty void of the page into columns and rows of "white space." A digital screen consists of thousands of square pixels. Although technological advances have helped pixel elements get smaller and curves appear smoother, the screen's underlying squareness hasn't changed. Embracing the innate rectilinear texture of the screen, designers can define robust and flexible grids for arranging content. Even a simple website contains varied parts. A home page doesn't serve the same purpose as an "about page" or a list of blog posts; a fine-grained grid serves to give these different elements a common structure while offering enough flexibility to support multiple templates.



MAKING THE GRID Working with 960 pixels of screen width, we have subdivided our real estate into sixteen equal units, establishing the basis for a flexible, adaptable grid system.

Each unit contains a 50-pixel column with a 5-pixel gutter on either side. Principles adapted from Vinh, *Ordering Disorder*, 2010.





A well-defined grid offers a great deal of flexibility for laying out content.

VERTICAL AND HORIZONTAL FIELDS

A typographic grid consists of text columns separated by gaps or gutters. Johannes Gutenberg used a two-column grid in the famous Bible that launched the typographic revolution in the fifteenth century. Today grids for complex websites or publications consist of multiple columns—sixteen is not unusual, as seen on the previous page.

The use of modular grids, made from vertical columns and horizontal fields, was pioneered by Swiss graphic designers in the 1950s. The modernist book designers of that period used grids of boxes to govern nearly every design decision, from the shape of pictures to the placement of text.

Vertical columns predominate in most grids today. A well-designed magazine layout or webpage typically has a strong up-and-down column structure anchored by a few horizontal hanging points.





FLIPBOARD Calling itself a social magazine, the Flipboard app uses a modular grid to organize content. The table of contents resembles a photo gallery, while the text pages present the first few lines of an article that can be selected and read in full.

Design: Marcos Weskamp, 2011.

GRAPHIC DESIGN HACKING

HOME | BOOK | CONTENTS | EXHIBITION | WRITING

GRAPHIC DESIGN HACKING

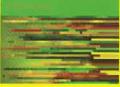
Graphic Design Hacking is the MFA Thesis Project of <u>Cameron Zotter</u>. Zotter is the designer, writer and editor of the project.

A BOOK OF PROJECTS

Graphic Design Hacking will feature 30 short project prompts in the areas of art, design, tethnology and misuse. The prompts are designed to jump start creativity and provide new methods for using materials, tools and design thinking.













HORIZONTAL FIELDS

While vertical columns are relatively easy to maintain, websites often have varying lengths within a single site. Here the designer created horizontal fields to impose architecture on the page. Design:
Cameron Zotter, 2012.

WITTER

"Computers are usaless. They can only give you

EMAIL LIST

Inter Your Join

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of Art in Baltimore, Meryland Institute College

TYPE SIZE

Once you have a well-planned grid in hand, you are ready to place elements within it. Crafting a reading platform on the web begins with finding the right size for your primary type. A size that you love in print will likely look too small on a desktop or laptop screen. People tend to hold a book or magazine fairly close to their faces, while they sit farther away from computer screens. Comfortable reading on a desktop or laptop screen thus demands larger sizes than print. The fuzziness of anti-aliased and backlit characters also calls for larger sizes.

You might be surprised by just how big body text needs to be before it works well in a standard web browser. A good starting point for Georgia is 17pt, which is the default size of most browsers (i.e., 100 percent or 1em). From there you can go up or down, depending on what you are trying to do. This text size might seem extreme if you compare a book and screen side by side at the same distance from your face, but if you look at these type sizes in relation to the reading environment, they start to even out.

There are four units for measuring type on screen. Pixels and points are absolute elements set by the browser. Employing these units can override users' browser settings, which can have unintended outcomes when users alter their own preferences as well. Percentages and ems are scalable, nonfixed units, determined in relation to the browser's current point size; these units are preferable because they allow end users to adjust their own browser preferences without breaking the design of the site.

EM, PIXEL, POINT, OR PERCENT? Note that an intended scale shift can fail to render when the initial font size is set with absolute units (pixels or points).



The em is a scalable unit that is equal to the browser's font size. If the font size is 14px, 1em is 14px.

PIXELS (px)

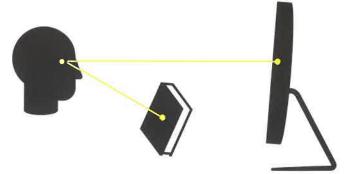
Pixels are fixed units used in screen media.
One pixel is equal to one pixel unit on the screen.

POINTS (pt)

Points are traditionally used in print media. One point is equal to 1/72 of an inch.

PERCENT (%)

The percent unit functions similar to the em unit. If the current font size is 14px, then 100 percent is 14px (and 120 percent is 16.8px).



COMPARE IN PERSPECTIVE Computers generally sit farther from the user's face than handheld reading devices such as books or phones. Letterforms appear fuzzy because of low pixel densities and backlighting. Don't compound those issues by making the type too small.



SMALL SCREENS AFFORD SMALLER TYPE

Type on mobile devices can be smaller than on a desktop, because users can adjust the distance between the screens and their faces to achieve the best type size for them.

READ MORE >> Oliver Reichenstein, "Responsive Typography: The Basics," Information Architects, June 1, 2012, http://ia.net/blog/responsive-typography-the-basics/.

21 PX

d is not a camera. So see, or, as Anaïs Nore, we see them as that our perception of what we expect

"Up to now it has l must conform to th whether we do not

Reason is based on

11 PX

nediately after the release of the new dia rapidly reacted. "Great." "bold," " no of the initial glowing endorsements sot (EJ). However, what has been la ch is a masterclass of ambiguity and prosequential buzzwords and the stur

ne essay "On the Uselessness of Dikamura alerts readers to the naiveté cription was no exception, with Waltuproduction" (1936) and Raymond Wil ng vaguely invoked and loosely synt a quick prop to their argument.

kamura also points out the need for or piplines' discourses and especially firset has at least the ambition to situaticality to their practice. But they stumolete and of questionable relevance.

type used to hover around 12px, although even smaller type sizes were not unheard of. Now an increasing number of designers are using larger type, beginning at 14px on up to 18 or even 21px. These larger sizes make reading more pleasant and easy. The type on the right is too small (at 11px) for comfortable reading, a problem for a prominent design blog.

READ MORE >> Jan Constantin, "Typographic Design Patterns and Current Practices (2013 Edition)," Smashing Magazine, May 17, 2013, http://www.smashingmagazine.com/2013/05/17/typographic-design-patterns-practices-case-study-2013/.

PARAGRAPH BLOCKS

In CSS the paragraph element contains the main text and should be the basis for the rest of the layout. Paragraph blocks are defined by their width, alignment, and spacing. Select an appropriate width based on such factors as content type, font choice, type size, the distance of the user from the screen, and the underlying column grid. It is widely accepted that forty-five to seventy-five characters per line makes for a comfortable measure. You don't want the user to get tired by the end of the line or have too little time before jumping down to the next one. Finding this golden width will require trial and error. It often helps to take a break, step back, and ask another set of eyes to test and evaluate your blocks of text.

Paragraphs that are meant to be read in succession should be treated as parts of a whole. Because paragraphs are block elements, HTML automatically inserts extra space after them. Therefore web texts tend to be chopped up with inter-paragraph spacing. Try indenting the first line and removing that pesky extra line space. Indented paragraphs have been classic fare in print typography since the seventeenth century; the efficient and elegant indent saves space and preserves the compact unity of running text.

PARAGRAPH INDENT Use the text-indent property in CSS to indent the first line of a paragraph. You will also need to remove extra line spacing by setting the top margin to 0. Note that the text-indent property will affect *all* paragraphs. Designers and editors generally prefer to avoid indenting the first paragraph in a document; you can achieve this with a sibling selector (+).

p + p {
text-indent:1.5em;
margin-top:0;
}

READ MORE >> Richard Rutter, Section 2.3.2. in *The Elements* of Typographic Style Applied to the Web: A Practical Guide to Web Typography, http://webtypography.net/Rhythm_and_Proportion/Blocks_and_Paragraphs/2.3.2/.

rolling, || Doth glance from heaven to earth, from earth to heaven; || And, as imagination bodies forth || The forms of things unknown, the poet's pen || Turns them to shapes, and gives to airy nothing || A local habitation and a name."

in the supremacy of our creative imagination let us make empty space, in order that we may therein build up a new universe. Let us wave the wand of our power, so that all created things disappear. There is no world under our feet, no radiant clouds, no blazing sun, no silver moon, nor twinkling stars. We look up, there is no light; down, through immeasurable abysses, there

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3. APRIL 201

Improving the Digital Reading Experience

BY OLIVER REICHENSTEIN

There is a difference between checking Google Maps on your iPhone and asking a stranger for directions. It matters whether you listened to Beethoven's 9th in a concert hall or in your living room, whether it plays from a vinyl LP or from your iPod. King Lear is not one and the same experience when seen at the theatre, studied on paper, or scanned on your Kindle.

It is not always easy to discern digital and analog experiences. A lot of seemingly analog devices have digital technology built in without us realizing it (tape decks, ovens, cars), and, as you might have noticed, more and more digital devices try to look and feel like analog tools.

The technology below the surface — whether it is manual, mechanical, automatic or digital — is not what matters. What matters is not the schematic of a device, but what we think, do, and feel when using it. What makes a CD digital is that we do not need to turn it over half way through, that it can play single songs precisely, that it can play the songs in random order, that when it's scratched it sounds like a techno track and not like something that has a scratch, and that we do not know or care how it works. Whether we call something "digital" or "analog" depends more on the way we perceive, understand and use a device than the ghost in it's shell.

Whether you read text on paper, a cathode ray tube monitor, an LCD screen, or eink, whether you read in indirect or direct light, high or low resolution, and whether the text is at arm's length or not is one side of the equation. The other side is defined by you as the reader: Where are you, what are your motivations and what are your goals?

To optimize the reading experience, no matter whether in print or on the screen, we need to understand the humane function of a computer, and examine the differences between digital and analog reading experiences. Then we can think about ways to improve the experience to get better results for the reader.

I will try to sketch out how to do this in the following 14 minutes of text.

FOR GOOD MEASURE The line lengths on the Information Architects website have been designed for comfortable reading. On a desktop browser, users see around sixty-five characters per line. The type size is reduced on the mobile version to fit roughly fifty-four characters per line. Both numbers fall within the desired range of forty-five to seventy-five characters. Design: Information Architects, 2012.

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There is a difference between checking Google Maps on your iPhone and asking a stranger for directions. It matters whether you listened to Beethoven's 9th in a concert hall or in your living room, whether it plays from a vinyl LP or from your iPod. King Lear is not one and the same experience when seen at the theatre,



Aligning text in justified, centered, or ragged columns reflects the basic architecture of typography. Choose an alignment style that suits the structure of your website and the character of the individual content elements. Each mode of alignment comes with advantages and disadvantages. Centered type is graceful and elegant but can appear old-fashioned; in addition, it can be difficult to align with other elements. However, centered type can work well within the bounded, defined space of a button or menu bar. Justified type will have ugly gaps if it's not hyphenated correctly, and hyphenation can be hard to handle online.

Owing to the flexible, customizable character of web text, designers can't spend endless hours adjusting the rag along the edge of a column or creating a justified block with no rivers or holes. Flush-left alignment is therefore the most common text setting on the web (whereas justified remains the dominant setting for text in print). Flush-left text works well in most extended reading environments, especially where columns are quite narrow, as on a news site. The ragged edge opens up space between the columns because most lines fall short of the full measure, resulting in a more spacious overall composition.

ALIGNMENT Below are the four basic modes of alignment. The first two, left and justify, are the most common for long reading. Notice the awkward word spaces that occur with justified text in a narrow measure. Right- and center-aligned text should be used sparingly and with purpose.

COLUMN ALIGNMENT

p { text-align.left }

In left-aligned text, the left edge is hard while the right edge is soft. Word spaces do not fluctuate, so there are never big holes inside the lines of text. This format respects the flow of language rather than submitting to the law of the box. It creates a spacious and organic flow.

p { <mark>text-align.justify</mark>

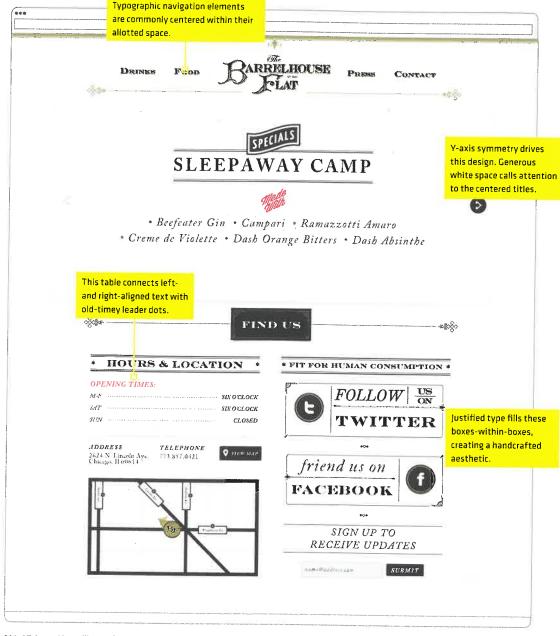
Justified text has even edges on both the left and right sides of the column. It makes efficient use of space and creates a clean, compact shape for your paragraphs. Ugly gaps can occur, however, when the line length is too short in relation to the size of the type used.

p { <mark>text-align:right</mark>

Right-aligned text follows the logic of the more familiar left alignment. It's commonly believed that text set in this way is difficult to read. Its use can be quite successful in short pieces of text, such as captions or pull quotes, adding an element of motion and surprise to a composition.

p { <mark>text-align:center</mark>

Centered text is symmetrical, like the facade of a classical building. Centered lines can be broken to emphasize a key phrase or a new thought. Breaking lines in this manner is called breaking for sense.



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ALL AT ONCE You will not often find occasion to use all four alignment modes in one website, let alone on a single page. This designer has created a lavish typographic style by paying close attention to the balance of the whole as well as to individual elements. Design: We Can't Stop Thinking, 2012, http://wcst.com/.

SPACE BETWEEN LINES

Typically websites are built to scroll vertically; the length of each page varies depending on the amount of content on it. Line spacing, also called leading or line-height, shapes the look of individual paragraphs and the page's overall style and structure. Designers use looser text to create a relaxed and inviting texture; they use tighter spacing to convey a sense of urgency or abundance while maximizing available real estate.

Designers also use vertical spacing to create relationships among heads, subheads, block quotes, and paragraphs. Breaks between elements should be apparent without leaving ugly and wasteful holes. A well-designed webpage should show a balance between white space and denser fields of content. Just as with type size, leading should be set as a percentage, not as an absolute value. Thus, when users change the type size preference in their browsers, the line-height will change, too.

TYPOGRAPHIC COLOR The interplay between letterforms and the space around them creates what designers call the "color" of the text. While the default line spacing in print is 120 percent of the cap height, line spacing set at 150 percent or more is common on screen. Notice that at 100 percent the block is too crowded. while at 200 percent the lines of text drift apart.

p {

line-height: 100%

A typographic hierarchy expresses the organization of content, emphasizing some elements and subordinating others. A visual hierarchy helps readers scan a text, knowing where to enter and exit and how to pick and choose among its offerings. Each level of the hierarchy should be signaled by separate cues. applied consistently across the website. These can be spatial or graphic, Infinite variations are possible.

p {

line-height: 150%

A typographic hierarchy expresses the organization of content, emphasizing some elements and subordinating others. A visual hierarchy helps readers scan a text, knowing where to enter and exit and how to pick and choose among its offerings. Each level of the hierarchy should be signaled by separate cues, applied consistently across the website. These can be spatial or graphic. Infinite variations are possible.

p {

line-height: 200%

A typographic hierarchy expresses the organization of content, emphasizing some elements and subordinating others. A visual hierarchy helps readers scan a text, knowing where to enter and exit and how to pick and choose among its offerings. Each level of the hierarchy should be signaled by separate cues, applied consistently across the website.

Baselines determine the rhythm of a printed page; not so on the web.

Print-based typography is dominated by the baseline, an invisible ledge upon which the characters sit; in print, line spacing is measured from baseline to baseline. Print designers sometimes use a baseline grid to anchor elements such as body, heads, and captions along a common rhythm.

In web design, line-height is created by adding even space above and below the cap height. Web designers often select line-heights that have elegant mathematical relationships to one another, such as nine, eighteen, and twenty-four. Creating a strict baseline grid is daunting enough in print; in web design it is even more difficult. Many well-structured webpages have just a few strong horizontal hanging points.

Headline 24/36px

Subhead text 16/18px ... Transition from head to body

Paragraph text 12/18px ...

On the web, the paragraph is the basic building block of body text. The space between lines consists of space above

and below lines of text.

HEADLINES IN ALL **WITH TIGHTER LINE**

h1 { font-size:24px; margin-bottom: 18px;

font-size:16px;

line-height:18px; margin-bottom: 18px;

font-size:12px; line-height:18px;

SPACE ABOVE AND BELOW In CSS, line-height is distributed equally above and below the cap height. Thus a 12px font with 18px line-height will have 3px above and below the characters.

SET IT SOLID Designers create compact, dramatic headlines by minimizing the space between lines. Since uppercase letters have no descenders, they don't require as much breathing space between lines. It is not uncommon to set all-caps headlines "solid" (22px font with 22px line-height). Even negative line spacing can be used for maximum density.

SPACE BETWEEN CHARACTERS

Designers adjust the spaces between characters through kerning, letterspacing, and word spacing. Kerning deals with individual pairs of glyphs. Typeface designers create kerning tables to achieve visually consistent spacing between problematic letter pairs, such as Ty and We. Most digital fonts have built-in kerning tables, so they shouldn't need manual kerning. You might find exceptions when setting large headers, which magnify poor spacing. There is currently no direct kerning property in HTML or CSS, but its effects can be replicated by utilizing a neutral inline element such as a span.

Letter spacing (also called tracking) refers to the space between characters in a line or block of text. Designers often open up the letter-spacing in strings of caps or small caps, or when using knocked-out text. Conversely, text in larger sizes may benefit from negative spacing; as type gets bigger, the spaces between letters get larger, too, which can create an overly loose effect.

Word spacing refers to the blank character generated by the space bar; this rarely needs adjusting, but designers may fiddle with it at large sizes or with knocked-out text. CSS employs a default word space of .25 em; any additional value is added to that base and does not alter the encoded font file.

LETTER SPACING AND KERNING These two modes of inter-character spacing operate quite differently: Letter spacing is global ("well alright"), while kerning is local ("Web Type").

WELL ALRIGHT

letter-spacing:0;

WELL ALRIGHT

letter-spacing 0 1em;

Well alright already Well alright already

Web Type

.kern { letter-spacing:-0.1em Web Type



TRACKING CAPITALS

Spacing out capital letters can help them become the stoic forms they were meant to be. Try opening up the letter spacing on a line of capitals in head and subhead texts. Design: Jessica Hische and Russ Maschmeyer, 2012.



KERNING HEADLINES

Finesse headline text by kerning troublesome pairs. The space between A and Y improves with negative kerning. Design: Josh Brewer, 2011. Image: Library of Congress Prints and Photographs Division.



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HIERARCHY

The plasticity of the web calls for a well-planned hierarchical system. Content is often created by multiple users, authors, and editors, making it even more important to emphasize key elements through typographic cues while subordinating others. Shifts in scale, weight, and color, or the use of a complementary font or icon, are ways to express a text's hierarchy, the ranked structure of parts within the whole. Each level should be signaled by one or more cues that are applied consistently throughout the site.

Any visual hierarchy should be built in a way that gives nontraditional users equal access. Choose structural elements instead of purely visual ones, using tags such as <aside>, <article>, and <caption> that have more semantic meaning than the generic <div>, which describes a container without any structural relationship to the document.

Abo Shop E-Paper E-Books Audio Newsletter Archiv Spiela Bloga Fotostrecken Video S	chlagzellan ZEITmagazin ZEITCampus ZEITGeschichte ZEITWisse
ZEITANONLINE	Partnerauche immobilien Automarkt John Rejkonneebole
STARTSETTE POLITIK WIRTSCHAFT MEINUNG GESELLSCHAFT KULTUR WISSEN	DIGITAL STUDIUM KARRIERE LEBENSART REISEN AUTO SPORT
Zulatzt aktualialaru vor 2 Minuten Aktuello Thoman: Wählkanipi Islamiansus Fashion Week	Anmeiden Registrieren
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	surceparcumik Britische Medien zitteren aus Camerons nicht gehaltener Rede
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THE RESERVE THE PARTY OF THE PA	4. ALGERIEN USA schicken Aufklärungsdrohnen über Gasfeld
	 в. сартона време Google hält Nutzer für Angreiter und blocklert sie
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Video siarten	2. MALI Dies ist auch Europas Krieg 💬 (232)
	3. BERLIN Unser Hauptstädtje 🕫 (114)
	ARD-DEUTSCHLANDTREND Union erreicht besten Umfragewert seit sieben Jahren: ゆ (111)
GASFELD IN AMENAS	s. WAHLKAMPF Netsnjahu will keine einzige Sledlung
Islamistische Geiselnehmer stellen neue	räumen 💬 (105)
Bedingungen	Zur Ranglisten-Überstch
Die Dschihadisten haben noue Forderungen veröffentlicht, unter anderem einen Gefangenenaustausch. Der Verbleib von bis zu 60 Geiseln auf dem Gasfeld ist unkla	ANZEIGE
[weiter] in \$7 19 Kommentare	VIDEO
ALGERIEN USA schicken Aufklärungsdrohnen über Gasfeld Gerielfunkulus Empörung über algerische Militäraktion en	18:00 Uhr
ALGERIEN Viele Gelsein und Entführer sterben bei Luftangriff 🌬	

HEADLINE NEWS The complex content of this news site is organized through weight, size, and color; it is framed with white space to allow pause and breathing room. Design: Information Architects, 2009.

movement within its lifespan.
Viewing memes all together or in a sequence will show patterns more clearly. I feel it important to pay attention to patterns of thinking such as these. Designers need to be concerned with how culture is made and transferred, it's the business we're in.

'In the vast Library there are no two identical books. The Library is total and its shelves register all the possible combinations of the twenty-odd orthographical symbols: in other words, all that it is given to express, in all languages. Everything: the minutely detailed history of the future, the archangels' autobiographies, the faithful catalogues of the Library ... the true story of your death, the translation of every book in all languages, the interpolation of eve book in all books ... Whe

A different font sets block quotes apart from the main text.

The body is set with a comfortable line-height and generous font size for reading.

```
body {
    font:125%/140% "Apercu Regular", sans-serif;
    font-style:normal;
    font-weight:normal,
    padding:1em;
}

h1 {
    font-size:150%;
    line-height:140%;
    font-family:"Fortescue Regular", serif;
    text-align:center;
}

blockquote {
    font-family:"Fortescue Regular", serif;
    font-size:100%;
    margin:1em 0 0 1em;
}
```

Pub lish ing

Projects

Writing

Stuff

Welcome

Reading is distracting. It is paying attention, searching, and collecting. Reading is plastic, creative work that is affected by methods of publishing and the devices we use. People read more, and more often. Typography and, by extension, graphic design gave rise to a reading public more vast than the preceding manuscript culture allowed or cared for. So I approach reading by way of graphic design.

Because of my interest in

The h1 header tag creates a simple scale change that sets a clear visual anchor for the text.

HIERARCHY This system is based on just a few purposeful shifts. The designer uses two complementary typefaces, indents, and size changes to create a bookish layout for comfortable reading. Design: Young Sun Compton, 2012.

SPECIAL CHARACTERS

A refined typographic system consists of more than a well-chosen palette of fonts and reader-friendly structural cues. Many professionally designed typefaces include glyphs that add nuance and refinement to the presentation of text. Browsers are increasingly able to support expanded features that for centuries have been markers of fine typography in print. Small caps, whose height matches the body of the lowercase x, look elegant and discreet within a paragraph of text; they are drawn with squarish proportions and a meaty line stroke, which makes them attractive for use as heads, subheads, bylines, and more. Old-style or nonlining numerals have ascenders and descenders, just like lowercase letters; they have a modest visual footprint within a body of text, whereas conventional lining numerals (which have the height of capitals) can sometimes tower over their surroundings. Elements such as small caps and old-style numerals as well as kerning pairs, ligatures, and alternate characters, when used properly, separate the typographer from the typist.

The OpenType font format packs all of these desirable features into a single font file. OpenType fonts often have the suffix Pro (Adobe Garamond Pro) or the prefix or suffix OT or OTF (Tisa OT). Access to these elements has been limited for web designers until recently. Now the CSS font variant or fontfeature-settings properties allow designers to make use of the full range of features available with an OpenType font and style their text as carefully on the web as in print.

numerals.

KERNING PAIRS AND LIGATURES Some modern browsers handle kerning pairs and ligatures by using the text-rendering declaration. NOTE: Applying this to large blocks of text can extend load times on slower devices.

small CAPS

SMALL CAPS AND OLD-STYLE NUMERALS

Using the font variant property allows designers

to enrich web type with small caps and old-style

text-rendering:normal;

first floor

first floor

text-rendering:optimizeLegibility;

123 456

font-variant-numeric:oldstyle-nums;

font-variant:small-caps:

Common ligatures Discretionary ligatures Small caps Lining numerals Old-style numerals

Elliot Jay Stocks, 2012.

READ MORE >> The World Wide Web Consortium, "CSS Fonts Module Level 3," W3C, http://dev.w3.org/csswg/css-fonts/

upper- and lowercase characters around them. Software creates pseudo small caps by shrinking down normal caps to the approximate x-height; the resulting letters

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AN EVOLVING STANDARD CSS3 includes two new properties

detail available in OpenType fonts. The text above flaunts the

bravado of the typographic swash, as seen in the letterforms

at the end of each word in "Jason Smith" and "José Scaglione." Such alternate characters can now be used in web text with

the help of the font-feature-settings CSS property. Design:

that give designers access to the full range of typographic

José Scaglione

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Tomorrow's web type subsets

for CSS III I23

FINE TYPOGRAPHIC DETAILS Small caps, old-

style numerals, and ligatures are no longer the

exclusive domain of print design. Design: Elliot

Jay Stocks, 2012. Headline typeface: Magneta, designed by Neil Summerour, 2009.

PSEUDO SMALL CAPS True small caps

have the same stroke weight as the look starved and sickly because their weights don't match that of their brethren.

These SMALL CAPS are

starving!

COMMON OPENTYPE FEATURES Below are some OpenType features and their font-feature-settings values:

> "liga" "dlig" "smcp" "lnum" "onum"

font-feature-settings normal;

affluent acting

affluent acting

font-feature-settings: "liga" 1, "dlig" 1;

SPECIAL CHARACTERS

For the typographic purist, HTML is a dangerous breeding ground of debauchery. This handy guide will help you keep your on-screen typographics up to snuff with the proper use of apostrophes, quotation marks, and dashes. Such characters are telltale signs of a well-considered composition, whether on screen or in print. Use these HTML entities or their Unicode equivalents in place of the offending characters in your HTML source code.

APOSTROPHES signal contraction or possession. To use the proper "curly" ones on a webpage, you need to insert the Unicode character ' in place of the apostrophe.

It8#8217;s a dog8#8217;s life

It's a dog's life. It's a dog's life.

It's a dog's life

DASHES OR HYPHENS? Em dashes (--), en dashes (--), and hyphens (-) each serve to connect or separate elements in different circumstances. Em dashes express a break in the flow of the sentence. En dashes connect two numbers as a range of information. Hyphens connect words or elements (run-of-the-mill).

Em Dash—A Love Affair

Em Dash— A Love Affair

En Dash, aged 5-10 years

En Dash, aged 58ndash;10 years