

Accessibility and typography

Tbilisi a11y and UX day
November 2, 2024
Tanya Fokina



Presentation

Who is talking?

- Developer with a passion for web accessibility.
- Google's Women Techmakers Ambassador.
- Co-host for the podcast Inclusive Pineapple 
- Editor of the Accessibility section at Doka Guide.
- Author of blog on digital accessibility.

Typography is the way how the texts are
arranged and visually appealing



Benefits of typography

- Make the interface more accessible and usable.
- Set the right mood or tone.
- Improve the product and the brand appearance and familiarity.

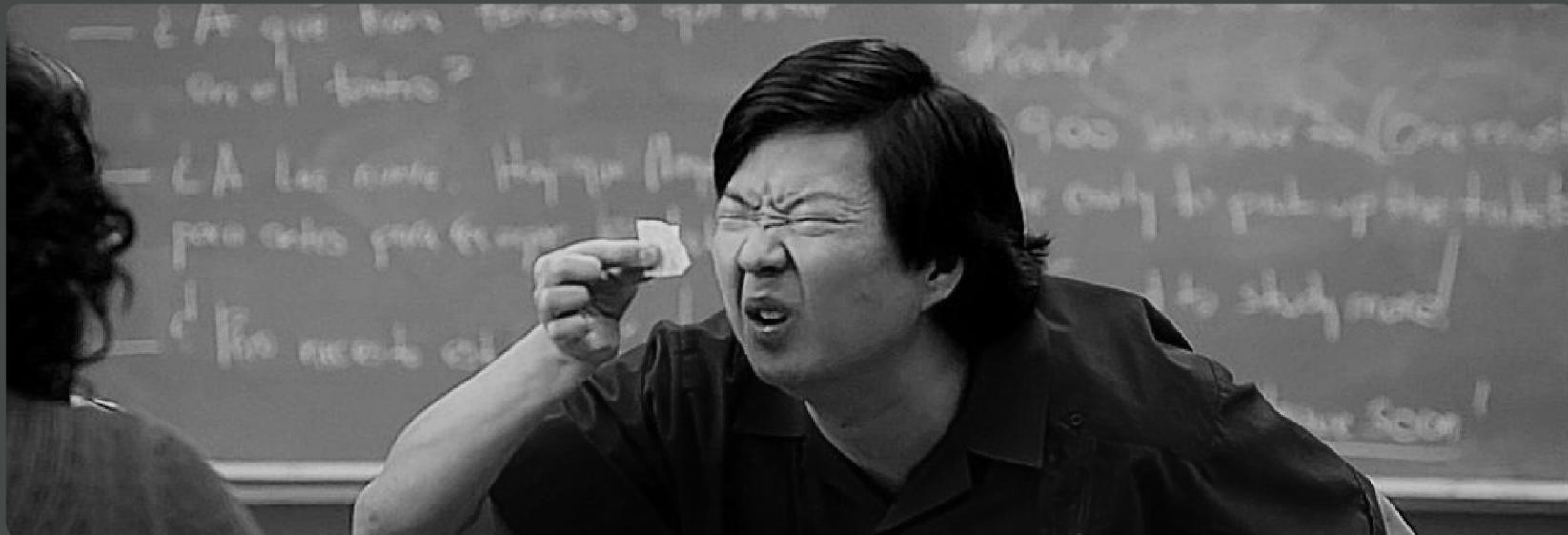
(JØワØ) J*:•° ✶★*★*.°★.°

Accessibility in typography is about
visual clarity .

Legibility

What is legibility?

How it is easy to see, distinguish, and recognize the characters and words.



Typefaces and fonts

Typeface

IBM Plex Sans

Fonts

IBM Plex Sans

IBM Plex Sans

IBM Plex Sans

IBM Plex Sans

IBM Plex Sans

Typefaces

Serif

font-family:
"Merriweather"

A B c d

Sans-serif

font-family:
"Open Sans"

А Б в г

Monospaced

font-family: "IBM
Plex Mono"

А В с д

Display

font-family:
"Kablammo"

А Ѕ І І І

Usually, sans-serif typefaces are **more legible** than serif, display, or monospaced ones.

Basic legible typefaces

Arial / Calibri / Roboto

Tahoma / Poppins

Verdana

Special legible typefaces

Atkinson Hyperlegible

Lexend / Lexend Deca

Typefaces on practice

Old Standard TT

Serif typeface 

In many scenarios, coefficients are numbers (as is the case for each term of the previous example), although they could be parameters of the problem—or any expression in these parameters.

Lato

Sans-serif typeface 

In many scenarios, coefficients are numbers (as is the case for each term of the previous example), although they could be parameters of the problem—or any expression in these parameters.

Font size

↔ Polymorphism ↔

The minimum font size for desktops is
16 pixels; for mobiles, the good size is
12 pixels and bigger.

Font size on practice

Montserrat

font-size: 10px 😞

Short tandem repeat (STR) analysis is the primary type of forensic DNA analysis performed in modern DNA laboratories.

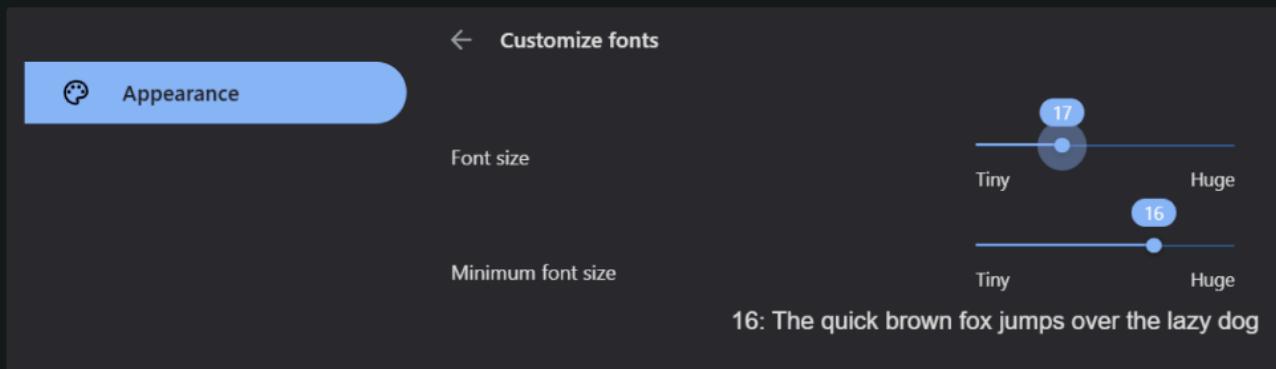
Montserrat again

font-size: 23px ❤️

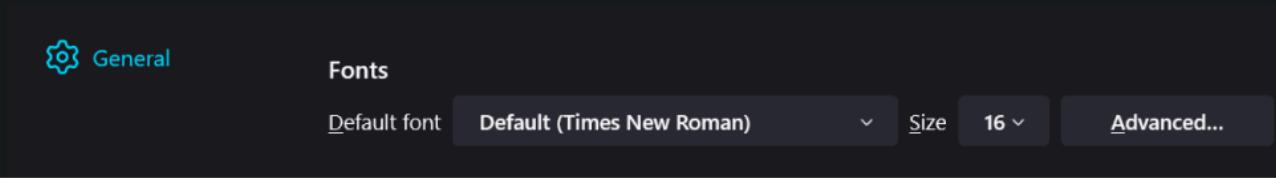
Short tandem repeat (STR) analysis is the primary type of forensic DNA analysis performed in modern DNA laboratories.

Users settings: Text customizing

Chrome



Firefox



Text must be **resizable and adjustable**
without requiring horizontal scrolling in a full-
screen window.

Fluid typography

Responsive typography technique where the text scales automatically with the screen size.



For text use %, em, or rem (flexible units) , such as instead of absolute font sizes like pixels.

Default font size: 16 pixels

The screenshot shows a search results page for the query "google". The results include:

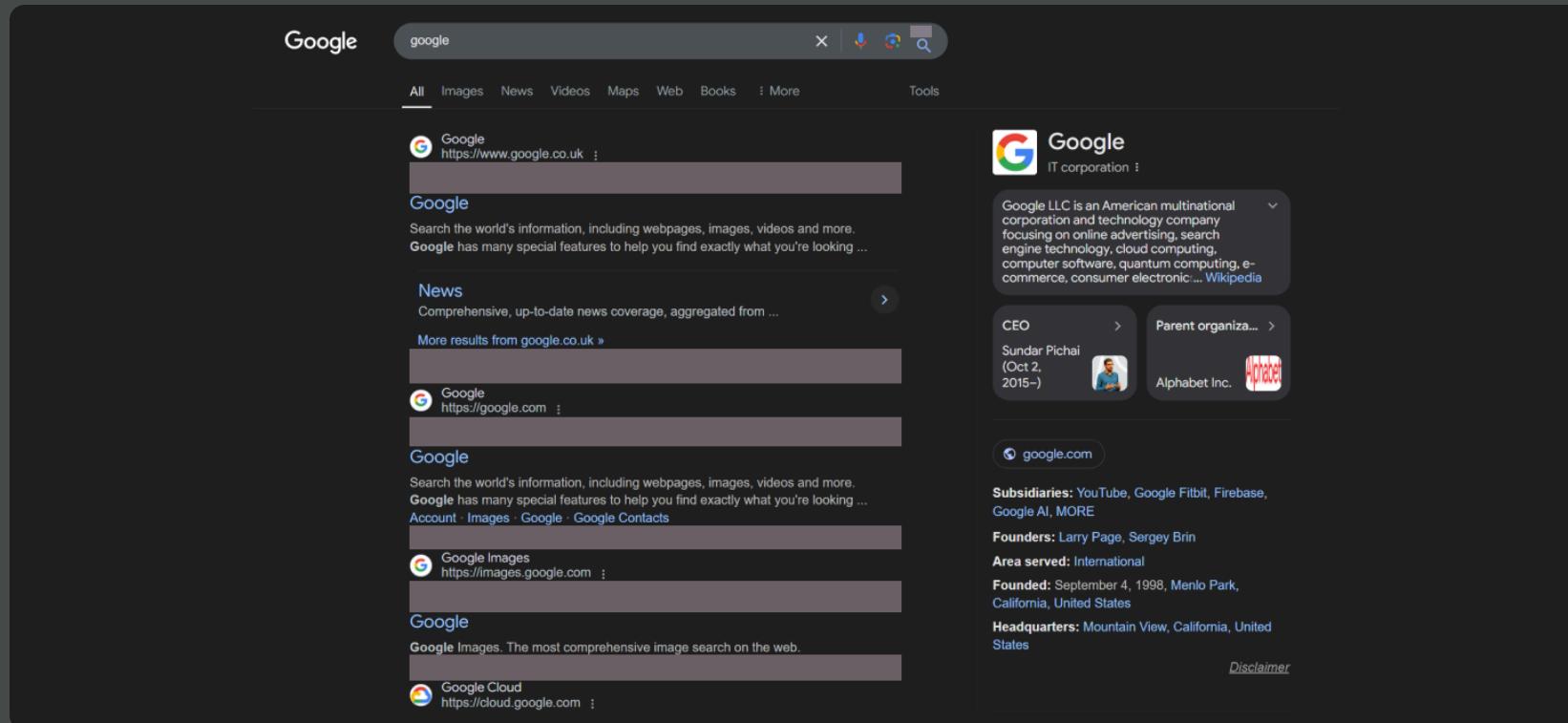
- Google** (UK) - Search the world's information, including webpages, images, videos and more.
- News** - Comprehensive, up-to-date news coverage, aggregated from ...
- More results from google.co.uk »**
- Google** (US) - Search the world's information, including webpages, images, videos and more.
- Google Images** - Google Images. The most comprehensive image search on the web.
- Google Scholar** - Google Scholar provides a simple way to broadly search for scholarly literature.

On the right side, there is a detailed sidebar for Google LLC:

- Google** IT corporation
- Google LLC** is an American multinational corporation and technology company focusing on online advertising, search engine technology, cloud computing, computer software, quantum computing, e-commerce, consumer electronics... [Wikipedia](#)
- CEO** Sundar Pichai (Oct 2, 2015-)
- Parent organization** Alphabet Inc.
- Subsidiaries:** YouTube, Google Fitbit, Firebase, Google AI, MORE
- Founders:** Larry Page, Sergey Brin
- Area served:** International
- Founded:** September 4, 1995, Menlo Park, California, United States
- Headquarters:** Mountain View, California, United States

Disclaimer

Custom font size: 36 pixels 🤔



A screenshot of a web browser displaying search results for the query "google". The results are presented in a large, bold font, likely demonstrating a CSS font size of 36 pixels. The search bar at the top contains the word "google". Below the search bar, the results are categorized into "All", "Images", "News", "Videos", "Maps", "Web", "Books", and "Tools". The first result is a link to the official Google homepage. The second result is a link to Google News. The third result is a link to Google Images. The fourth result is a link to Google Cloud. On the right side of the page, there is a detailed sidebar for the Google entry, including information about Google LLC, its CEO Sundar Pichai, its parent company Alphabet Inc., and various subsidiaries like YouTube, Google Fitbit, Firebase, Google AI, and more.

Google

google

All Images News Videos Maps Web Books Tools

Google https://www.google.co.uk ;

Google

Search the world's information, including webpages, images, videos and more. Google has many special features to help you find exactly what you're looking ...

News

Comprehensive, up-to-date news coverage, aggregated from ...

More results from google.co.uk »

Google https://google.com ;

Google

Search the world's information, including webpages, images, videos and more. Google has many special features to help you find exactly what you're looking ...

Account Images Google Google Contacts

Google Images https://images.google.com ;

Google

Google Images. The most comprehensive image search on the web.

Google Cloud https://cloud.google.com ;

Google IT corporation

Google LLC is an American multinational corporation and technology company focusing on online advertising, search engine technology, cloud computing, computer software, quantum computing, e-commerce, consumer electronics... [Wikipedia](#)

CEO > Sundar Pichai (Oct 2, 2015-) 

Parent organization > Alphabet Inc. 

Subsidiaries: YouTube, Google Fitbit, Firebase, Google AI, MORE

Founders: Larry Page, Sergey Brin

Area served: International

Founded: September 4, 1998, Menlo Park, California, United States

Headquarters: Mountain View, California, United States

[Disclaimer](#)

Let's try again

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- [Top accessible fonts: A designer's quick guide](#)



Accessible design, the basics

A well-designed, accessible website contributes to a better user experience for everyone. So, if you are a digital designer and you want to learn how to create strong, accessible designs according to current guidelines, then you've come to the right place!

☆☆☆☆ 0 [learn more](#)

When you're designing a website, choosing the right font is about more than just making things look pretty. It's about making sure everyone can read your content easily, regardless of their abilities. The fonts you pick can affect how quickly people read your content, how well they understand your message, and even how much mental effort it takes to process the information.

There's quite a bit to think about when selecting accessible fonts. As a designer, you'll want to consider things like how tall the lowercase letters are compared to the uppercase ones, whether the font has little decorative lines or strokes attached to the ends of letters (called serifs), and whether each character is clearly distinct from the others.

But don't worry! We're here to guide you through all of this. We'll show you how to choose fonts that look good and work well for all your website visitors. And we won't stop there – we'll also share some handy tips on font size, spacing, and colour to make your text even more accessible.

Accessible font characteristics: Legibility and readability essentials

Serif vs sans-serif

You've probably heard of serif and sans-serif fonts, but what's the difference? Serif fonts have little decorative bits at the ends of their letters (like Times New Roman), while sans-serif fonts don't (like Arial).

Now it is 36 pixels



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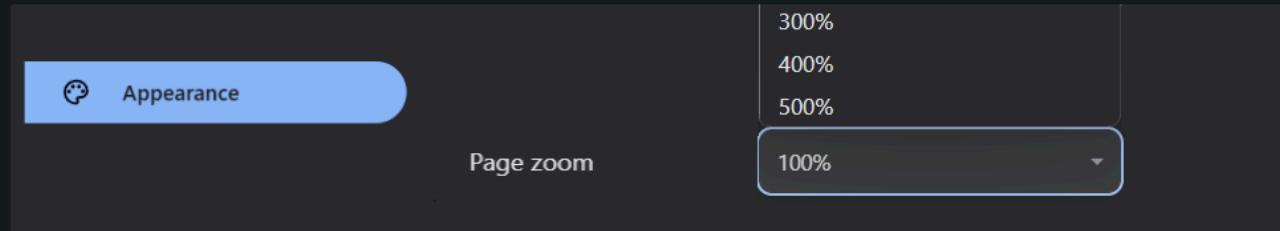
[Top accessible fonts: A designer's quick](#)

[guide](#)

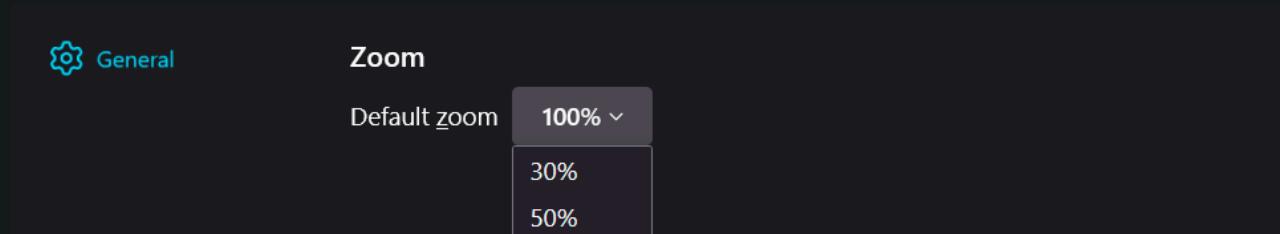
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Users settings: Page zoom

Chrome



Firefox



Allow users to increase the zoom level of a page's content from **100% to 200%–400%** without loss of content or functionality.

Clipped text with 200%

Screenshot of a Pinterest search results page for "easy dinners, fashic".

The search bar shows "Search for easy dinners, fashic".

Navigation: Explore, Log in, Sign up.

Results:

- The Best Gifts for Homebodies (Updated For 2024) - Making Manzanita**
The Best Gifts for Homebodies
- Men Hoodie >**
sweatshirt
Men...
fit perfe...
- Co Workers >**
Christmas Gift Ideas
Deck The Halls
List of 62 Christmas Gift Ideas With Sayings to Attach for Neighbors, Friends, Co-worke...
Digital download file of 62 neighbor gift ideas
- SIMPLY FULL OF DELIGHT**
What To Get Teachers For Christmas
Teacher Christmas Gift Ideas
Here's 20 of the Best Teacher Christmas Gift ideas. Discover Christmas teacher gifts that...
- SimplyFullofDelight - Preschool Activities,...**
12 Year Gir
Best Chris
Check out old girl thi
- GIFT GUIDE**
GIFT GUIDE
GIFT GUIDE

Horizontal scroll with 200%

ЯМ Маркет

Стекломой, скребки, сгоны

Найти

поворотный механизм

с насадкой

с распылителем

Производитель

HAUSMANN

Unger

York

Leifheit

Raccoon

[Показать всё](#)

Материал насадки

резина

The screenshot shows a search results page for 'Стекломой, скребки, сгоны' (Window sponges, scrapers, gutters) on Yandex Market. The results are displayed in a horizontal grid. Each item includes a small image, a discount badge (e.g., '61% ПРОМОКОД 15%'), a price, and a yellow 'Buy' button.

Изображение	Скидка	Цена	Описание
	61% ПРОМОКОД 15%	308₽	Пэй 416₽ без карты 4×77₽ в сплит
	55% для вас	951₽	Пэй 1118₽ без карты 4×238₽ в сплит
	71% ПРОМОКОД 15%	258₽	Пэй 342₽ без карты 4×65₽ в сплит

Водосгон для окон SKYPHOS 46 см
3.3★ 66 оценок
Послезавтра

Водосгон для пола сгон большой...
4.7★ 104 оценки
7 ноября

Водосгон для пс Доляна, черенои
4.4★ 97 оценок
4 ноября

Overlapping text with 200%

Наличие модификаторов у элементов и блоков —
опционально, количество — не ограничено. Следует
помнить, что блоку и его элементу нельзя присваивать

Миксы

правилам БЭМ, название модификатора должно

Микс — терминология БЭМ называется способ

использования разных БЭМ-сущностей на одном DOM-

- внешний вид блока или элемента;
- узле таким образом, чтобы не возникало дублирования
- состояния компонента;

- кода. С помощью миксов можно:
- поведение.
- задавать одинаковое форматирование для различных

элементов дизайна;

Традиционно имя модификатора отделяют от имени блока

- создавать новые компоненты интерфейса на основе
- или элемента одним подчеркиванием (_). В качестве
- имеющихся альтернативы также используют двойной дефис (—).
- совмещать поведение и стили нескольких компонентов.

Default text zoom (100%)

Puppy

Article Talk From Wikipedia, the free encyclopedia

This article is about the domestic dog. For other uses, see [Puppy \(disambiguation\)](#). "Baby dog" redirects here. For the dog owned by Jim Justice, see [Babydog](#).

A puppy is a juvenile dog. Some puppies can weigh 1–1.5 kg (2.2–3.3 lb), while larger ones can weigh over 7 kg (15 lb). All puppies are underdeveloped at birth (display *altriciality*) but healthy puppies grow quickly thereafter. A puppy's coat color may change as the puppy grows older, as is commonly seen in breeds such as the [Yorkshire Terrier](#). Puppy refers specifically to young dogs,^[1] while *pup* may be used for other animals such as [wolves](#), [seals](#), [giraffes](#), [guinea pigs](#), [rats](#) or [sharks](#).^[2]

Prenatal development

Dogs go through [prenatal development](#) before they are born, just like all animals do. The germinal stage, the embryonic stage, and the fetal stage are the three phases that make up this development.

The first stage of prenatal growth in dogs is known as the germinal stage, which starts at fertilization and lasts for about two weeks. The fertilized egg, also known as the zygote, travels through the fallopian tube to the [uterus](#) during this period while undergoing rapid cell division. The [placenta](#), which will feed the growing puppy, is formed once the zygote enters the uterus and settles in the uterine wall.^[3]

The embryonic period lasts from about day 14 of pregnancy until day 28 or so. With the growth of important organs and body systems, the embryo starts to take on a more recognizable shape at this stage. This involves the development of the digestive system, brain, heart, and lungs. An ultrasound can show the embryo at this time, which is about the size of a grape.^[4]

Appearance

Text Small Standard Large

Width Standard Wide

Color (beta) Automatic Light Dark

 Golden Retriever puppy

 Basset Hound

Increased text zoom (200%)

≡ Puppy

文 A 33 languages ▾

Article Talk Read View source View history Tools ▾

From Wikipedia, the free encyclopedia

🔒 ⓘ

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Wow, no issues with 400%

≡ Puppy 文A 33 languages ▾

Article Talk

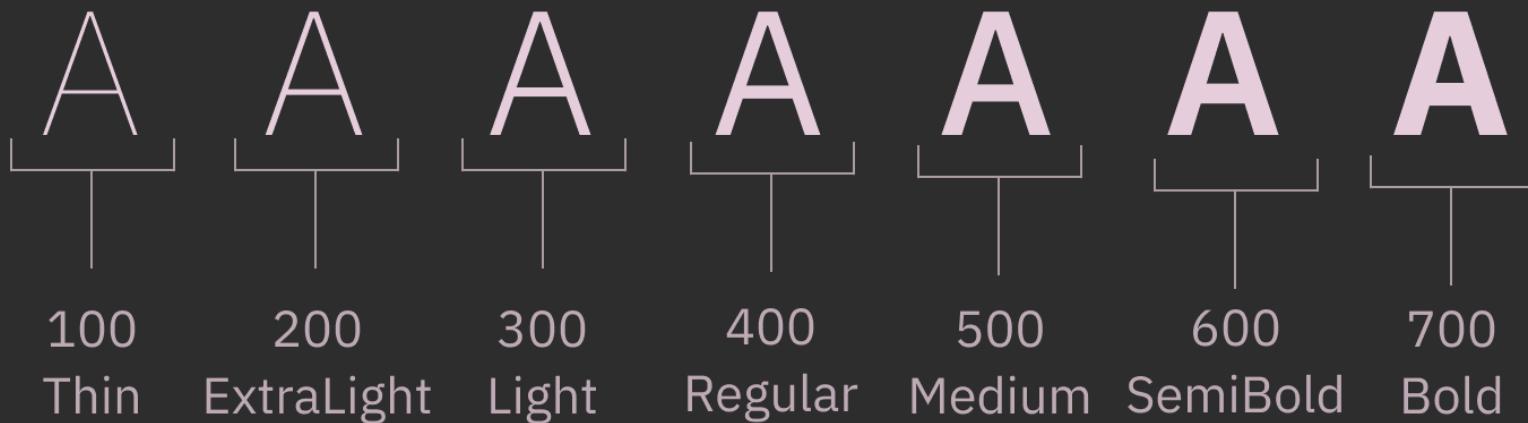
Tools ▾

From Wikipedia, the free encyclopedia  

This article is about the domestic dog.

*For other uses, see [Puppy](#)
(disambiguation).*

Font weight



Regular fonts are good for most text. Bold is suitable for headings and emphasis.

Thin and light fonts work best for decorative text.

Font weight on practice

Archivo Black

Bold typeface 😡

Given the notion of a lexeme, it is possible to distinguish two kinds of morphological rules. Some morphological rules relate to different forms of the same lexeme, but other rules relate to different lexemes.

Work Sans

Regular typeface ❤️

Given the notion of a lexeme, it is possible to distinguish two kinds of morphological rules. Some morphological rules relate to different forms of the same lexeme, but other rules relate to different lexemes.

X-height

Magnetotaxis

It's easier to read texts with
larger uppercase letters in proportion to
lowercase letters.

X-height on practice

Times New Roman

Font-size = 23 pixels; smaller x-height 😞

Chemical Decomposition is the breakdown of a single particle or entity (such as a molecule or reactive intermediate) into two or more fragments. Contrast chemical synthesis.

Verdana

Font size = 23 pixels; larger x-height ❤️

Chemical Decomposition is the breakdown of a single particle or entity (such as a molecule or reactive intermediate) into two or more fragments. Contrast chemical synthesis.

Aperture

c c c c c

Open and closed aperture

Open aperture



acoe

A diagram showing the word "acoe" in a light purple font. A white bracket is positioned above the letters "coe", with two small cyan arrows pointing from the left and right towards the center of the bracket, indicating an open aperture.

Closed aperture



acoe

A diagram showing the word "acoe" in a light purple font. A white bracket is positioned above the letters "coe", with two small magenta arrows pointing from the left and right away from the center of the bracket, indicating a closed aperture.

Use typefaces with more open aperture .

Aperture on practice (latin)

Mohave

Closed counters 😡

Comorbidity refers to the simultaneous presence of two or more medical conditions in a patient; often co-occurring (that is, concomitant or concurrent) with a primary condition.

Titillium Web

Open counters ❤️

Comorbidity refers to the simultaneous presence of two or more medical conditions in a patient; often co-occurring (that is, concomitant or concurrent) with a primary condition.

Letter spacing (tracking)

Schoenoplectus



Bigger letter spacing helps with the legibility of all-caps text or thin fonts.

Smaller letter spacing is legit only for large fonts.

Letter spacing on practice

Roboto

letter-spacing: -2 😣

Scirpus are rhizomatous perennial herbs, with 3-angled stems and flat grass-like leaves. The flowers are in clusters of small spikelets, often brown or greenish brown.

Roboto again

Normal letter spacing ❤️

Scirpus are rhizomatous perennial herbs, with 3-angled stems and flat grass-like leaves. The flowers are in clusters of small spikelets, often brown or greenish brown.

Custom letter spacing

Bebas Neue

letter-spacing: normal 😞

SCIRPUS ARE RHIZOMATOUS PERENNIAL HERBS, WITH 3-ANGLED STEMS AND FLAT GRASS-LIKE LEAVES. THE FLOWERS ARE IN CLUSTERS OF SMALL SPIKELETS, OFTEN BROWN OR GREENISH BROWN.

Bebas Neue again

letter-spacing: 1px ❤️

SCIRPUS ARE RHIZOMATOUS PERENNIAL HERBS, WITH 3-ANGLED STEMS AND FLAT GRASS-LIKE LEAVES. THE FLOWERS ARE IN CLUSTERS OF SMALL SPIKELETS, OFTEN BROWN OR GREENISH BROWN.

Letterforms

Visual shape or design of a letter.



Latin imposter letters

Palatino Linotype

I11 B8CGO0 eaco

Lexend

LI1 B8CGO0 eaco

Cyrillic imposter letters

Palatino Linotype

33 В8С00 щцгтьъсоб6

Lexend

33 В8С00 щцгтьъсоб6

Mirroring characters

Times New Roman

nu 96 rn m db i! 6g

Lato

nu 96 rn m db i! 6g

Use typefaces where similar letters are
easy to tell apart.

Letterforms on practice

Old Standard TT

Less distinguishable letters 😞

Contemporary illustration uses a wide range of styles and techniques, including drawing, painting, printmaking, collage, montage, digital design, multimedia, 3D modelling.

Verdana

More distinguishable letters ❤️

Contemporary illustration uses a wide range of styles and techniques, including drawing, painting, printmaking, collage, montage, digital design, multimedia, 3D modelling.

Line height (leading)

Shijing
or Shih-chingtötaxis

On a desktop, space between lines should be

1.5 to 2 times the text size. On mobile

phones, make it **1.3 to 1.45 times**.

Line height on practice

Century Gothic

line-height: 1.1 😞

In contrast to the classic Shijing,
the Chu Ci anthology consists of
verses more emphasizing lyric and
romantic features...

Century Gothic again

line-height: 1.5 ❤️

In contrast to the classic Shijing,
the Chu Ci anthology consists of
verses more emphasizing lyric and
romantic features...

Line width (length)



Palpable content makes an element non-empty by providing either some descendant non-empty text...

The optimal number of words per line is
between 45 and 80 with spaces. It depends
on language and screen size.

Long line width: 207 ch

§ 3.2.5.2.8 Palpable content

As a general rule, elements whose content model allows any [flow content](#) or [phrasing content](#) should have at least one node in its [contents](#) that is **palpable content** and that does not have the [hidden](#) attribute specified.

Note

Palpable content makes an element non-empty by providing either some descendant non-empty text, or else something users can hear (audio elements) or view (video, img, or canvas elements) or otherwise interact with (for example, interactive form controls).

This requirement is not a hard requirement, however, as there are many cases where an element can be empty legitimately, for example when it is used as a placeholder which will later be filled in by a script, or when the element is part of a template and would on most pages be filled in but on some pages is not relevant.

Conformance checkers are encouraged to provide a mechanism for authors to find elements that fail to fulfill this requirement, as an authoring aid.

The following elements are palpable content:

⇒ [a](#), [abbr](#), [address](#), [article](#), [aside](#), [audio](#) (if the [controls](#) attribute is present), [b](#), [bdi](#), [bdo](#), [blockquote](#), [button](#), [canvas](#), [cite](#), [code](#), [data](#), [del](#), [details](#), [dfn](#), [div](#), [dl](#) (if the element's children include at least one name-value group), [em](#), [embed](#), [fieldset](#), [figure](#), [footer](#), [form](#), [h1](#), [h2](#), [h3](#), [h4](#), [h5](#), [h6](#), [header](#), [hgroup](#), [i](#), [iframe](#), [img](#), [input](#) (if the [type](#) attribute is *not* in the [Hidden](#) state), [ins](#), [kbd](#), [label](#), [main](#), [map](#), [mark](#), [MathML](#) [math](#), [menu](#) (if the element's children include at least one [li](#) element), [meter](#), [nav](#), [object](#), [ol](#) (if the element's children include at least one [li](#) element), [output](#), [p](#), [picture](#), [pre](#), [progress](#), [q](#), [ruby](#), [s](#), [samp](#), [search](#), [section](#), [select](#), [small](#), [span](#), [strong](#), [sub](#), [sup](#), [SVG](#) [svg](#), [table](#), [textarea](#), [time](#), [u](#), [ul](#) (if the element's children include at least one [li](#) element), [var](#), [video](#), [autonomous custom elements](#), [text](#) that is *not* [inter-element whitespace](#)

Optimal line width: 100 ch

§ 3.2.5.2.8 *Palpable content*

As a general rule, elements whose content model allows any [flow content](#) or [phrasing content](#) should have at least one node in its [contents](#) that is **palpable content** and that does not have the [hidden](#) attribute specified.

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Contrast

Difference in brightness between two colors: For text and its background.

**Vertebral
column**

**Vertebral
column**

Browser's contrast checker

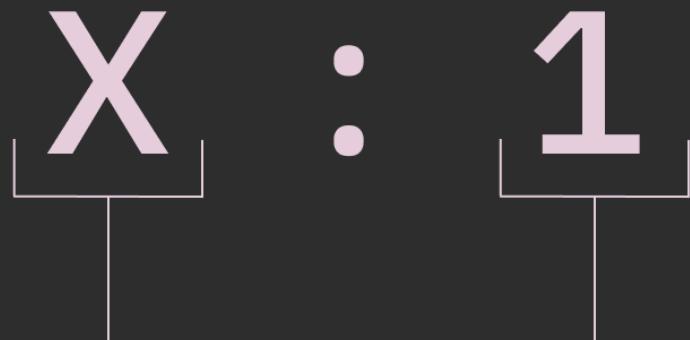
The screenshot shows a browser extension or tool overlaying a web page. The main text on the page is "Difference in brightness between two colors". The tool's interface includes:

- A color palette at the top with a blue-to-yellow gradient.
- A title "mark" in purple.
- Color details: Color (#000000), Font (28px "IBM Plex Sans", sans-serif), and Background (#E0C974).
- An accessibility section titled "ACCESSIBILITY" with a "Contrast" score of 12.77 and a green checkmark.
- A tooltip below the main text provides definitions for "text leaf" and "Contrast (large text)" along with their respective scores (6.31 and AAA).

The background of the page has a large, semi-transparent purple rectangle covering the bottom half of the text.

text leaf | " between two colors: For text and its background. "
Contrast (large text): 6.31 AAA✓

Contrast ratio anatomy

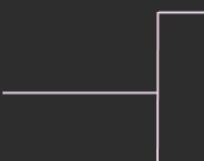


Luminance of the
lighter color

Luminance of the
darker color

Big text should be **3 (3:1) to 7 (7:1)** times lighter than its background. Small text needs to be at least **4.5 (4.5:1)** times lighter than its background.

Contrast ratio

Low	1.79:1	 Vertebral column
Minimum	3.76:1	 Vertebral column
High	10.53:1	 Vertebral column

High contrast ratio: Dark

This tool acts as a polyfill for an upcoming CSS specification, offering advanced layout capabilities. For more information and guidance, visit our guide <https://doc.doppio.sh/guide/cookbook/using-pagedjs.html>

Rendering a PDF from HTML.

An alternative approach allows us to generate a PDF directly from HTML without the need for navigation.

We'll begin with the existing code base and introduce minor modifications to facilitate this process.

First, let's add a new file to our project named `pdf.html`, using Tailwind for styling:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Invoice Example</title>
  <link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.1.2/dist/tailwind.min.c
</head>
```

Puppeteer offers an extensive range of options for generating PDFs. Among them, two stand out for their importance:

p.framer-text.framer-styles-preset-
21ogod
Color
Font 18px Inter, "Inter Placeholder", sans-serif

ACCESSIBILITY
Contrast Aa 19.81

Dark mode support is also available, allowing you to generate PDFs with a dark background and white text.

High contrast ratio: Light



14

BoJack Horseman

BoJack Horseman uses quirky animation and the slightly unsettling anthropomorphic premise as a Trojan horse (excuse the pun) to explore serious subject matter, like the effects of fame, addiction, depression, and complicity. The show follows the titular BoJack Horseman, a washed-out celebrity who formerly starred in a popular '90s sitcom. Relegated to the relevancy, he hires Diane Nguyen (Alfred Molina's ghostwriter) to ghostwrite his tell-all memoir.

[WATCH NOW](#)

em #000000

Color #000000

Font 19px CharterItalic, Georgia, Times, serif

ACCESSIBILITY

Contrast Aa 21 ✓

BoJack Horseman uses quirky animation and the slightly unsettling anthropomorphic premise as a Trojan horse (excuse the pun) to explore serious subject matter, like the effects of fame, addiction, depression, and complicity. The show follows

Too high contrast for somebody

- Astigmatism.
- Light sensitivity.
- Attention-deficit/hyperactivity disorder (ADHD).
- Autistic spectrum disorder (ASD).



Comfortable contrast ratio

Phonological awareness

Phonological awareness is the ability to recognise that words are made up of smaller units of sound (phonemes) and that changing and manipulating phonemes can create new words and meanings.

A child with poor phonological awareness may not be able to correctly answer these questions:

- What sounds do you think make up the word "hot", and are these different from the sounds that make up the word "hat"?
- What word would you have if you changed the "p" sound in "pot" to an "h" sound?
- How many words can you think of that rhyme with the word "cat"?

Word attack skills

Young children with dyslexia can also have problems with word attack skills.

This is the ability to make sense of unfamiliar words by looking for smaller words or collections of letters that a child has previously learned.

Phonological awareness is the ability to recognise that words are made up of smaller units of sound (phonemes) and that changing and manipulating phonemes can create new words and meanings.

Phonological awareness makes up the words and meanings.

P Color #212B32
Font 19px "Frutiger W01", Arial, sans-serif

ACCESSIBILITY

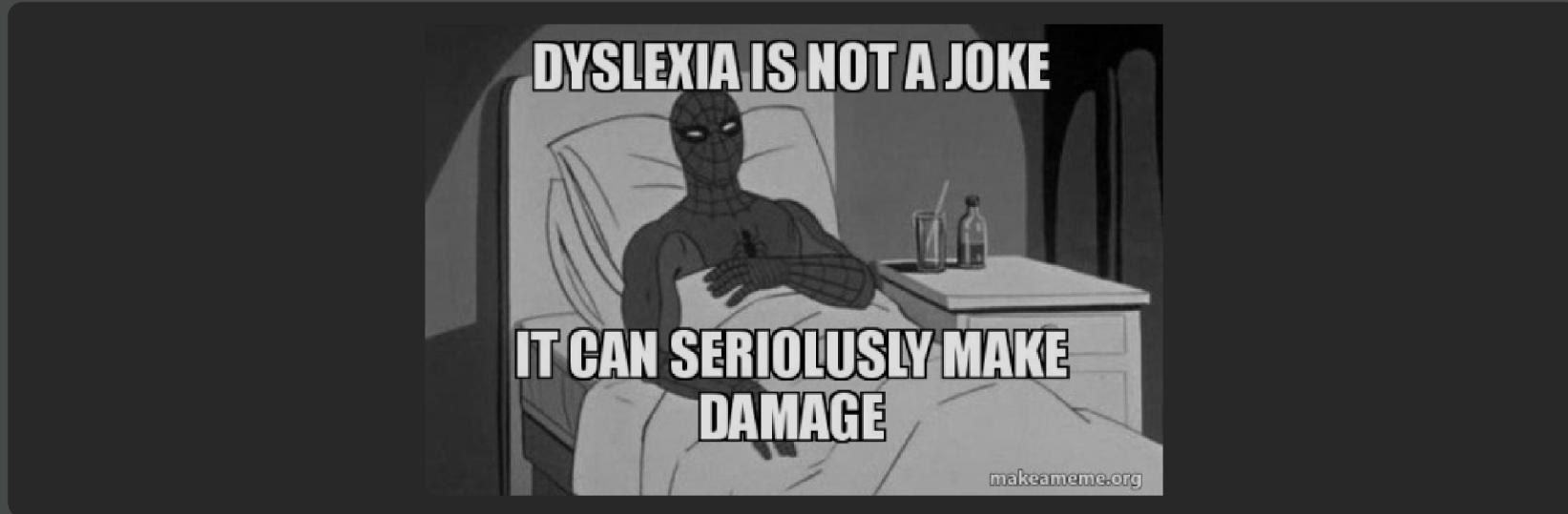
Contrast Aa 13.02

to an "h" sound?

- How many words can you think of that rhyme with the word "cat"?

Dyslexia

This is a learning disability that affects reading skills. Unlike other learning disabilities, intelligence isn't affected.



Dyslexia simulation: Wavy

So many parents are fearful of their children being diagnosed as having dyslexia. Sometimes the fear almost borders on irrational or hysterical, but it doesn't need to be this way. There are things in life that we should fear, but dyslexia in children is not one of them. That's because the outlook for a child who has dyslexia is actually very bright if some things are put in place to help – and parent fears about a dyslexic child are often greater than they need to be.

Dyslexia simulation: Swirl

So many parents are fearful of their children being diagnosed as having dyslexia. Sometimes the fear almost borders on irrational or hysterical, but it doesn't need to be this way. There are things in life that we should fear, but dyslexia in children is not one of them. That's because the outlook for a child who has dyslexia is actually very bright if some things are put in place to help – and parent fears about a dyslexic child are often greater than they need to be.

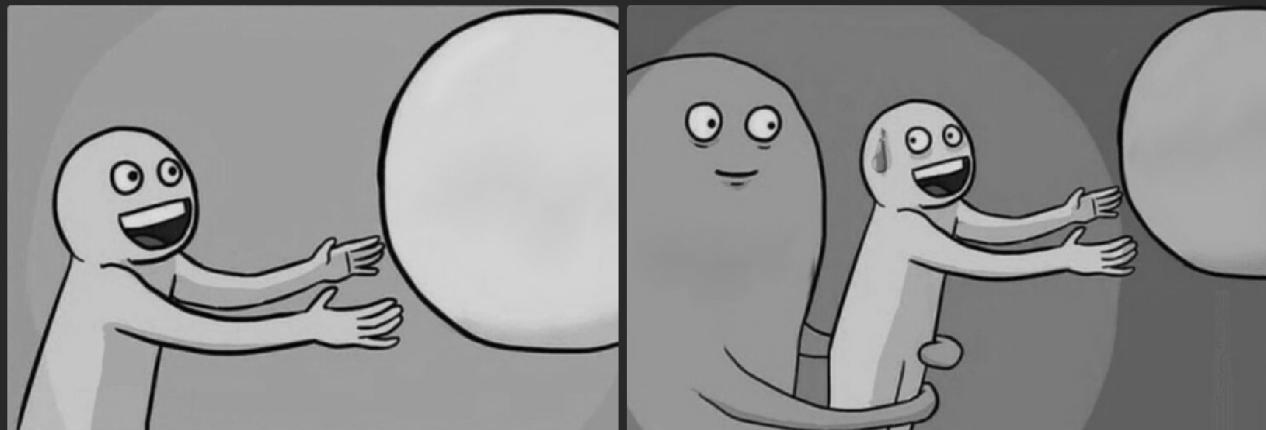
Dyslexia simulation: River

So parents fearful their children
being as having dyslexia.
fear almost borders on
irrational or but it
be There things life we
should fear, in children is not one
of them. That's because for a
who has dyslexia is actually very
some things put in to help
parent fears a are
greater than they need

About **10%** or **750 million** of the world's adults are dyslexic.

What affected dyslexia?

Dyslexia can appear differently and be more or less common depending on language rules and writing system .



Language rules

Easier

German

Konfekt ist eine allgemeine Bezeichnung für feine Zucker- und Backwaren.

Norwegian

Konfekt er esker med små sjokoladekledde biter med forskjellig innhold.

Harder

Russian

Кондитерские изделия — продукты питания с сахаром.

English

Confectionery is the art of making confections, or sweet foods.

Writing systems

Alphabetic

French	Une confiserie est un produit à base de sucre.
Hangul	과자는 기호식품 중 하나다. 주로 단맛이나 짠맛을 낸다.

Logographic

Chinese	点麵粉製成的非正餐食品的總稱。
Kanji	ご馳走様でした。

Dyslexia-friendly typefaces

Arial / Calibri / *Comic Sans*

Josefin Sans / Open Sans

OpenDyslexic

Legibility disaster

READ MORE

ART & PHOTOGRAPHY

The Dazed 100 is back!

ART & PHOTOGRAPHY

8 things to know about Marina Abramović's Great Wall Walk

LIFE & CULTURE

Meeting the best Timothée Chalamet lookalikes at the viral NYC contest

TEXT LAURA MOLLOY

Since Liam Payne tragically died at the age of 31 last week, many who grew up during One Direction's prime have been reminiscing about what, on the surface, seems to be a simpler era of pop culture. Fans are revisiting old albums, fawning over the clumsiness of their earliest performances and even looking back fondly on the unhinged fanfiction and memes that once littered the internet. But at the centre of this outpouring of grief-tainted nostalgia is one realisation that seems painfully stark in hindsight: at the very height of their fame, they were so unbelievably young.

Teenagers and young adults have helmed some of the world's biggest cultural movements. Yet, in the wake of yet another tragedy, it's abundantly clear that there's a stark difference between allowing adolescents to create art and transforming them into purpose-built, multi-billion dollar brands.

This is better

The Skeleton Mode on the Site

The Skeleton Mode has an interesting backstory. Initially, when we developed [Grids](#) website, one of its standout features was the Grid Mode. It was designed to provide a deeper understanding of the design framework, making it easier for designers and users to appreciate the meticulous planning behind the site's layout. Building on this concept, we introduced a more advanced version of this feature on the DES website.

Now, with Skeleton Mode, we've taken the idea a step further. When you enable Skeleton Mode, you don't just see the grid layout; you gain insight into the grid and the structural skeletons of all shapes and fonts used throughout the site. This comprehensive view allows you to see the blueprint of our design, showcasing how different elements are arranged and interact with each other.

By allowing users to see the structural foundation of the site, we aim to inspire and educate, demonstrating the importance of thoughtful design in creating a cohesive and aesthetically pleasing user experience.

Technologies

When developing the website, we utilized the default stack which included 11ty static site generator based on PUG, [GSAP](#) for animations, and connected to the Strapi CMS. The most interesting and

How to measure legibility?

User testing : Check the speed when users read from the design and the same text without it.

Automation tools : Find the problems with text contrast.

Tools: Typography

- [Google fonts](#)
- [Accessible fluid type generator](#)
- [Syncopé](#).

Tools: Contrast ratio

- Colour contrast checker
- Hueton
- RandomA11y
- axe DevTools
- Chrome Lighthouse
- Chrome, Firefox, and Safari developer tools.

Tools for Figma

- Include: Contrast checker, color deficiencies simulator, text resizing–guidance, responsive reflow–guidance.
- A11y Annotation Kit: Check reflow and zoom.
- Stark contrast and accessibility checker: Typography analysis, vision simulator.

Readability

What is readability?

How easy text is to read.



Readability components

- Legibility.
- Level of complexity of the text and its familiarity.
- Spelling and grammar.
- Consistency of fonts and hierarchy of text content.

How to measure readability?

Scored automatically via **readability calculators** based on readability formulas.

- Flesch-Kincaid reading level.
- Fry graph.
- Dale-Chall.
- Текстометр.

Summary

Long story short

- Accessibility in typography is about visual clarity.
- Visual clarity includes legibility and readability.
- Legibility focuses on typefaces, fonts, font size, line height, contrast, etc.
- Readability includes the overall quality of texts.

Links



[Doka Guide](#)



[Doka Guide GitHub](#)



[Blog on accessible development](#)

Checklists and materials

Legibility checklist [1]



- Use sans-serif fonts with regular width for body text.
- Ensure clear letter distinction and open apertures.
- Verify proper letter spacing and x-height ratio.
- Desktop font sizing: minimum 16 pixels.
- Mobile font sizing: minimum 12 pixels.
- Use relative size units (em, rem, %).

Legibility checklist [2]



- Desktop line height: 1.5–2.
- Mobile line height: 1.3–1.45.
- Line length: 45–80 characters.
- Maintain adequate text-background contrast.
- Verify browser text resizing, content zooming, and responsive behavior.
- Run automated accessibility checks and tests with users.

Readability checklist



- Match the tone to the audience.
- Use active voice.
- Keep sentences concise.
- Choose simple, short words.
- Run spelling/grammar check.
- Test with readability tools.

Interesting materials

- Legibility, readability, and comprehension
- Introducing accessibility in typography
- What is an accessible font?
- Typefaces and written content
- 3 typography mistakes that hurt accessibility
- Why should type be fluid, anyway?
- Dyslexia font.