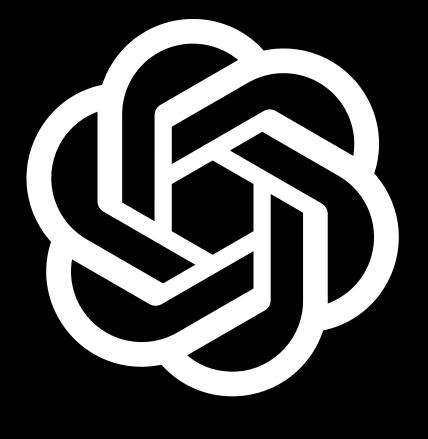
# OpenAI Brand guidelines



Our mission is to ensure that artificial general intelligence benefits all of humanity.

### Introduction

This document sets up the foundations of the OpenAl brand. Understanding and adhering to these standards will be essential in maintaining a consistent brand presence and supporting the brands future ambitions.

This is not an exhaustive representation of all brand elements, however it is intended to serve as a starting point for documenting fundamental aspects of the brand like the logo and color. As the brand evolves this document should be updated accordingly.

These guidelines are intended to help guide and inspire you as you bring the brand to life. Before you create new assets, consult these guidelines to ensure you're on the right track.

You can also share this document with any partner agencies, writers, or designers who may be creating the work for you.



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Introduction

## Introduction



Our brand values are rooted in our mission to ensure artificial general intelligence benefits all of humanity and can be drawn upon to guide future design explorations.



1.2	Introduction Brand values	
Gravitas	Reflect the seriousness of our commitment to safety.	Intentional, solid, firm.
Precision	Reflect the expertise, rigor, and excellence behind our work.	Clarified, Exact, Orderly.
Approachable	Reflect our impact on humanity and all that we do to empower people.	Open, Optimistic, Warm.
Allure	Reflect the wonder and awe in the technology and our messy, playful approach to discovery.	Unexpected, Delightful, Mysterious.
Bold	Reflect the scale and scope of what we want to accomplish.	Innovative, Groundbreaking, Novel.



- Introduction 2.1
- Logomark
- 2.3 2.4 Logotype
- Lockup
- Clearance
- 2.6 Color
- 2.7 Minimum sizes
- 2.8 **Placement**
- 2.9 Avatar
- What to avoid 2.10



As our most recognizable brand element, our logo blends rigid machinelike construction with the finesse of the human touch. These formal qualities express our focused pursuit to create technology that benefits humanity.



Our logomark is the shorthand for our brand. It's easy to recognize, and works perfectly as both a simple sign-off and visual tool in a piece of our internal communication—where your audience might be familiar with the context of the OpenAl brand.





The logotype is generally not used without the logomark. However, the logotype has been optically adjusted to ensure an even rhythm between the letters. When possible, use the approved logotype as opposed to typing out the name of the company. When dealing with live text, do not use the logotype, instead use live text.





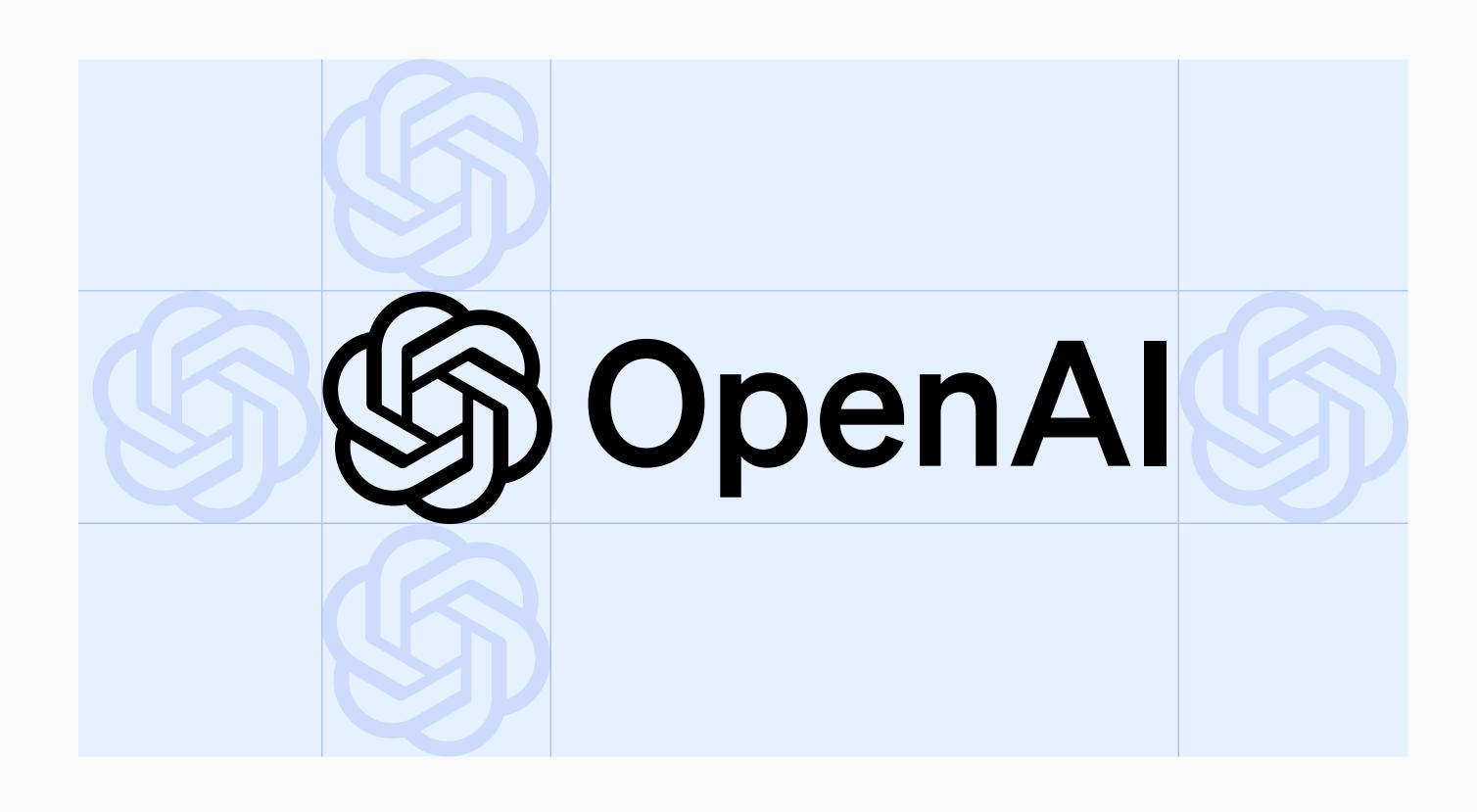
Our lockup is the structured relationship between the logomark and logotype. It is the most common use of the logo. It should be used for external facing applications as the use of the logomark with the logotype help provide context and establish brand recognition.





The area around the logo should always provide ample space so that the balance and wholeness of the logo are not crowded or constrained by external elements.

The diagrams show the correct amount of space that should surround the logo. No accompanying text or logos should appear in this area.

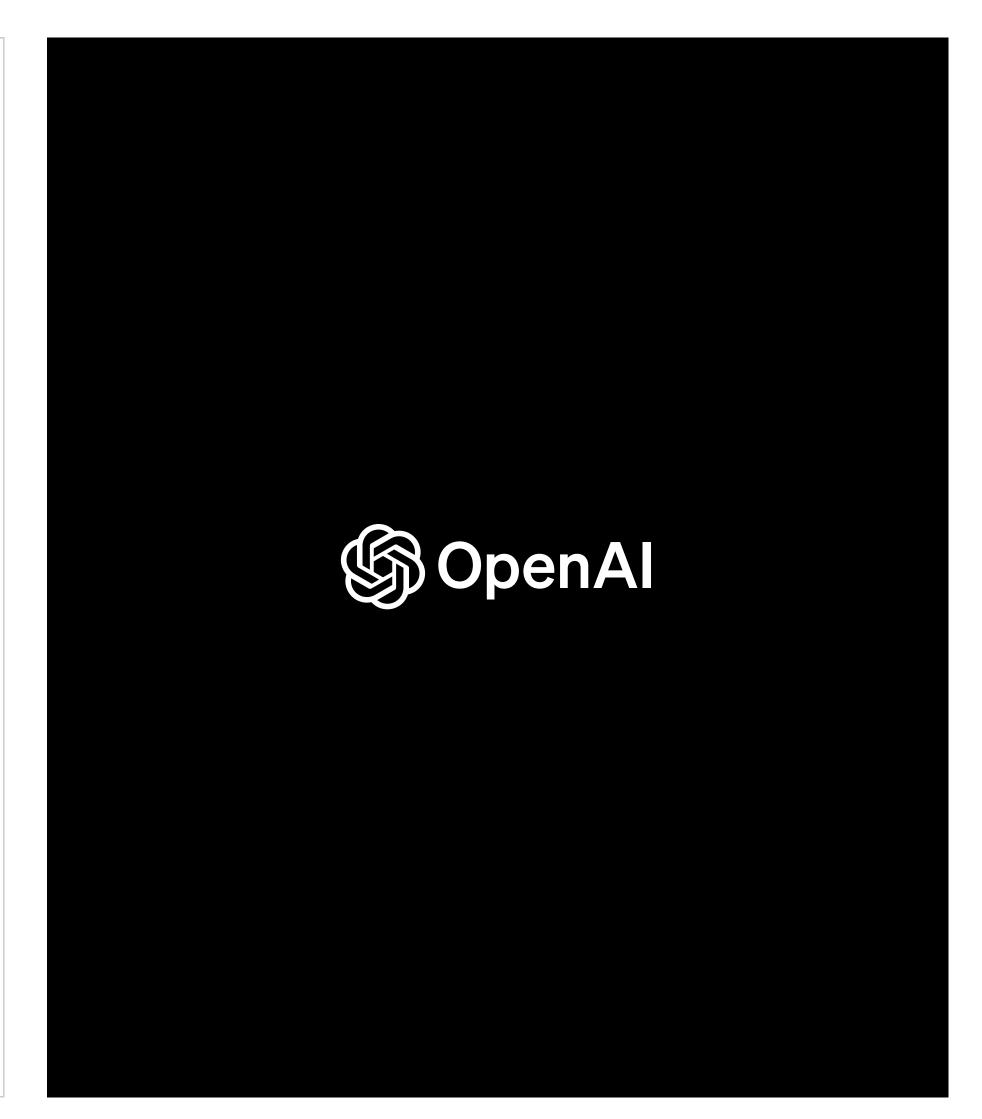




Whenever possible, the logo should appear on the primary black or white backgrounds.

These applications reflect our core brand values and are suitable for instances when a quieter brand presence is necessary, such as a header on a website or letterhead and business card.





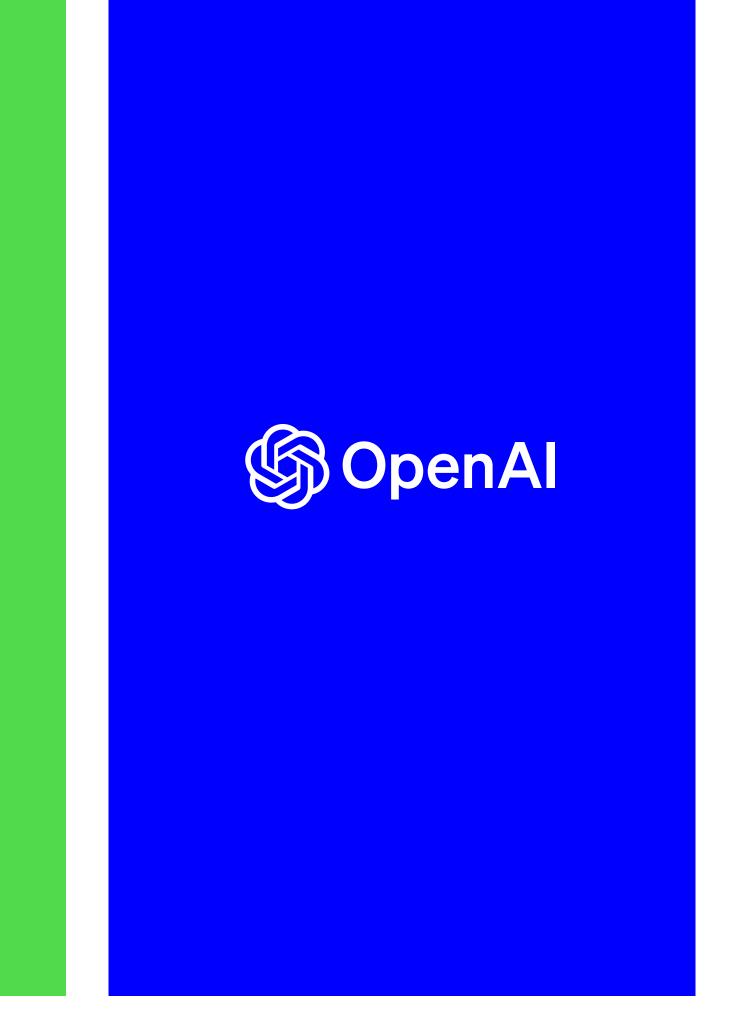


Black

When a louder brand presence is needed, such as a billboard or subway advertisement, the logo may be paired with a selection of our primary brand colors.





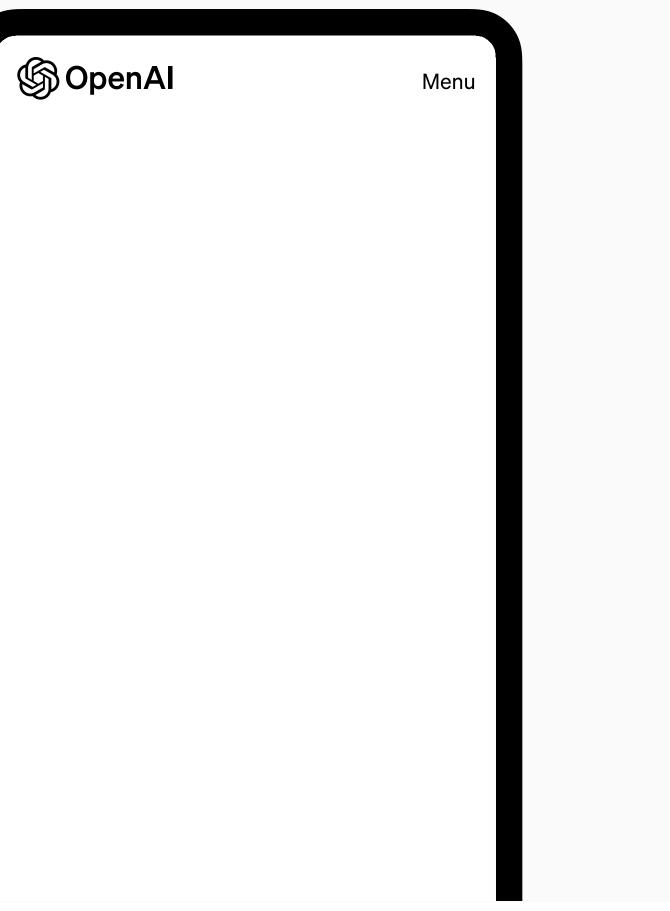




Red 700 Green 600 Blue 600

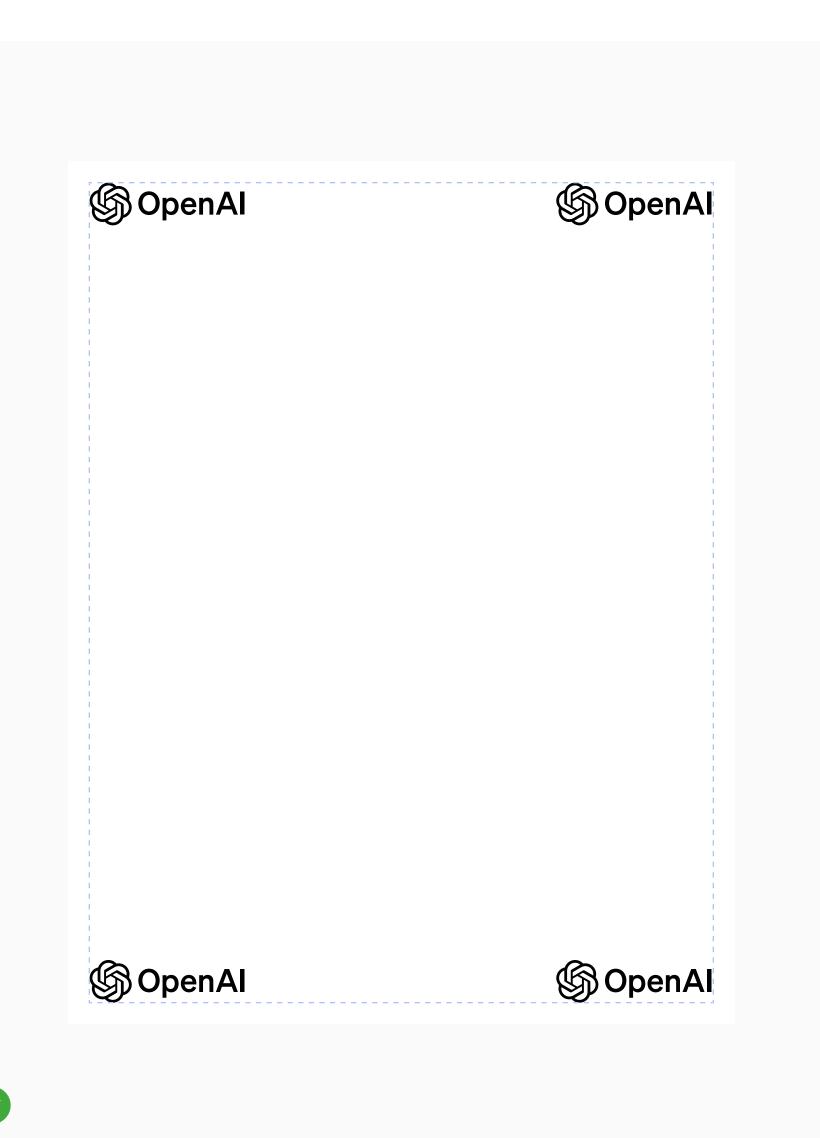
To ensure readability and legibility of the, brand mark, logotype and lockup across all screens and digital devices the logo should not be used at sizes below 126px wide.

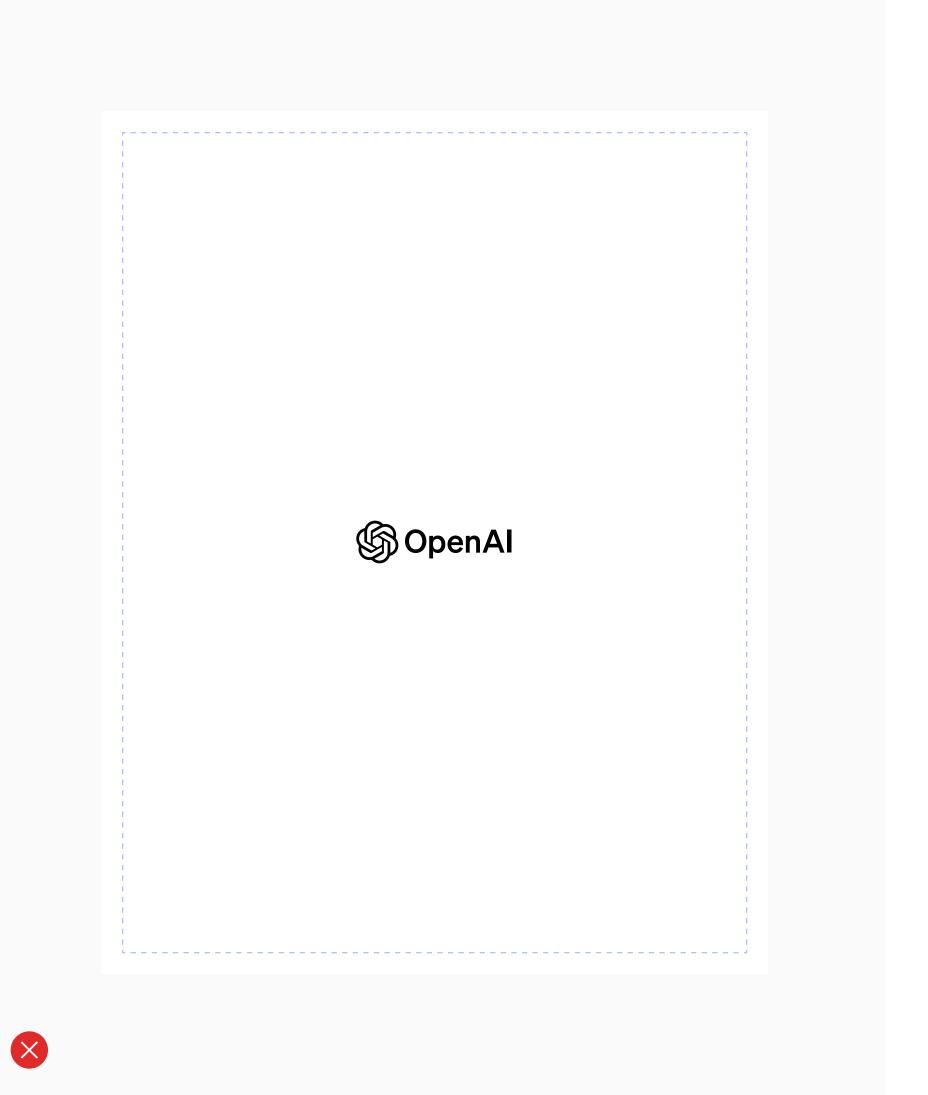






Our logo should appear left-aligned along the top or bottom of a page or document cover. Do not center the logo horizontally.







The avatar should be used for small formats, like social media icons. Do not use the avatar treatments for large graphic such as a posters, banners or billboard advertisement.





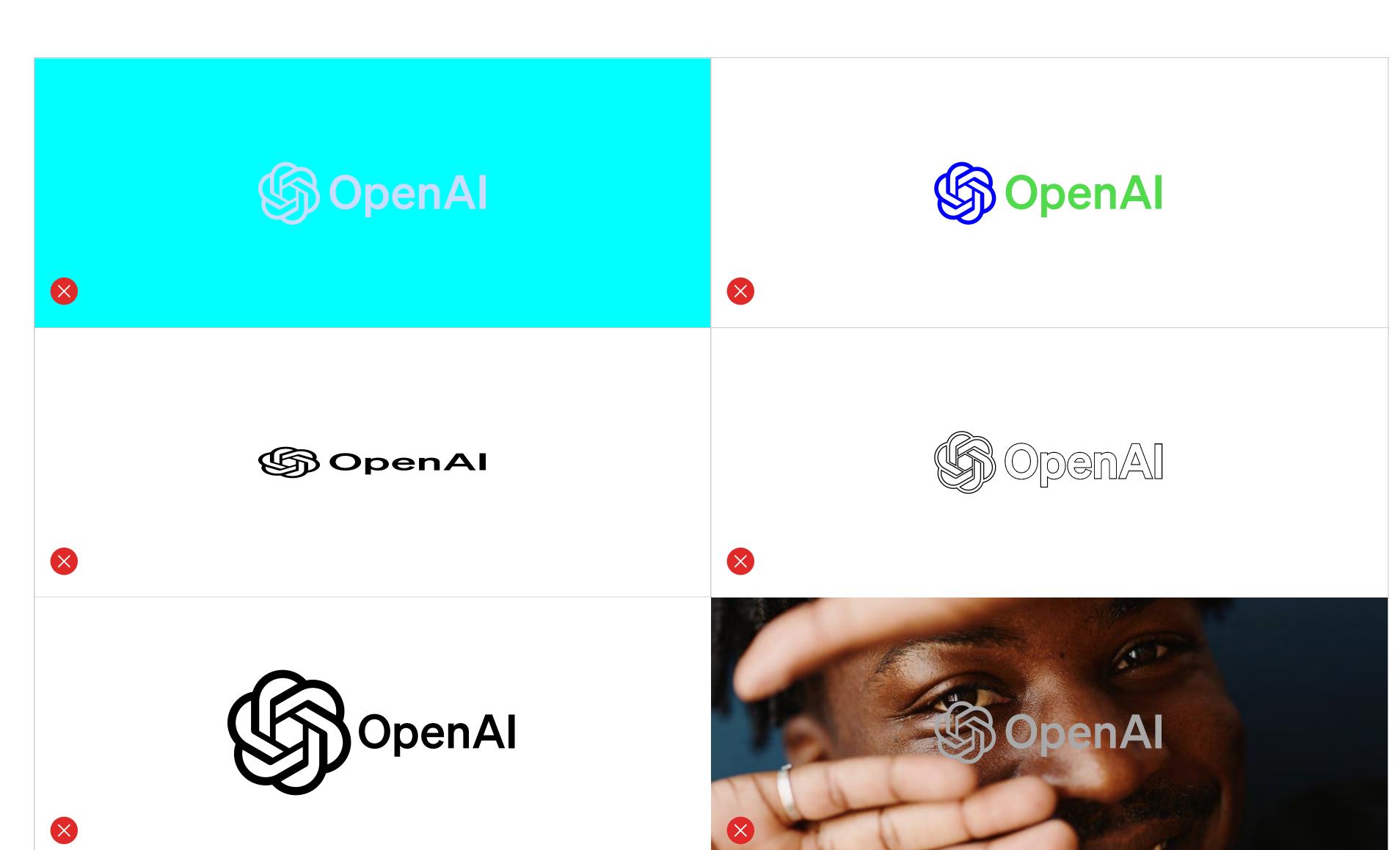






## **Logo**What to avoid

- Do not use color combinations that make the logomark illegible
- Do not use different colors for the colors logotype and the symbol
- Do not disproportionately stretch or warp the logo
- Do not stylize or alter the logo including outlining it, adding a drop shadow or bevel, or any stylistic effect
- Do not scale, reposition or modify the logo in any way
- Do not place the logo over images which make the logomark illegible or use in any color other than white or black when being placed on top of an image





## 

- 3.1 Introduction
- 3.2 Primary
- 3.3 Secondary
- 3.4 Tertiary
- 3.5 Supplemental
- 3.6 Shades
- 3.7 Color contrast
- 3.8 Themes



OpenAl is an empty vessel that adapts to its content. To embody this concept, the OpenAl brand relies heavily on the use of black and white.



### **Color** Primary

Our primary color palette is pure black and white. Black and white are preferred for most scenarios and sufficiently communicates our brand value that OpenAl is an empty vessel that adapts to its content.

The stark contrast of black and white expresses the boldness and precision we have as an organization. The interplay of black and white can also be expressed in creative ways by playing with different blend modes when setting text over photography.

This symbolizes our focus on the tension between what's natural and artificial and the duality between human and machine.

```
White
     255
255
255
C 0%
M 0%
Y 0%
K 0%
# FFFFFF
P ---
```

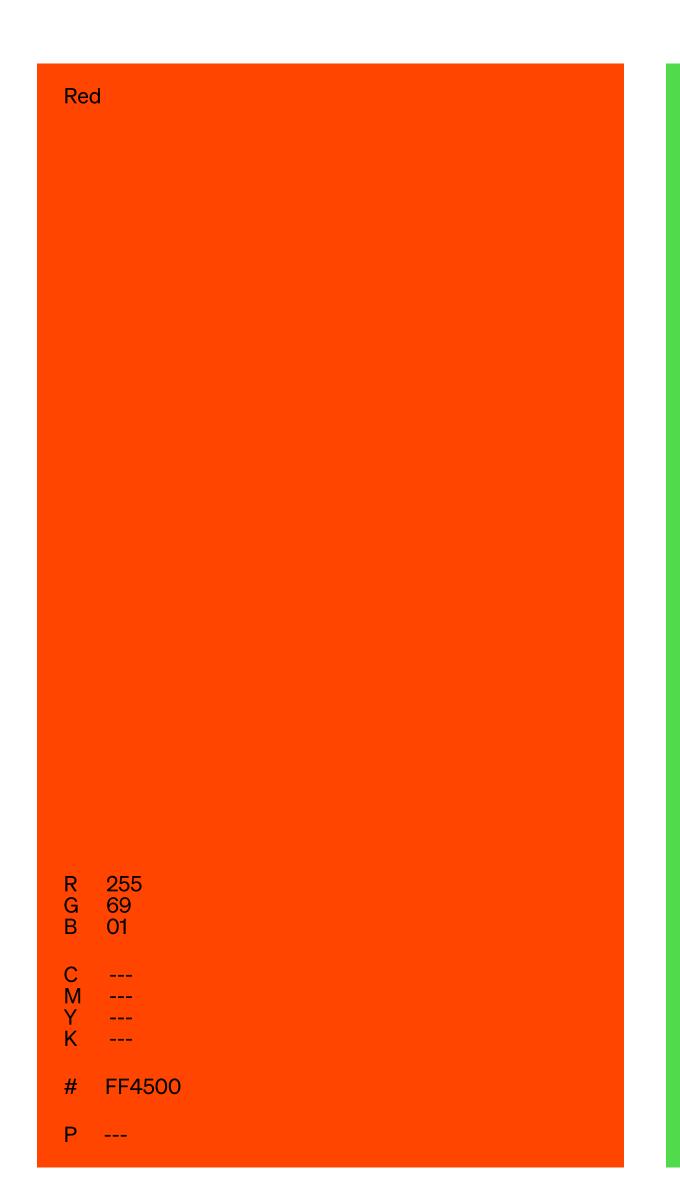


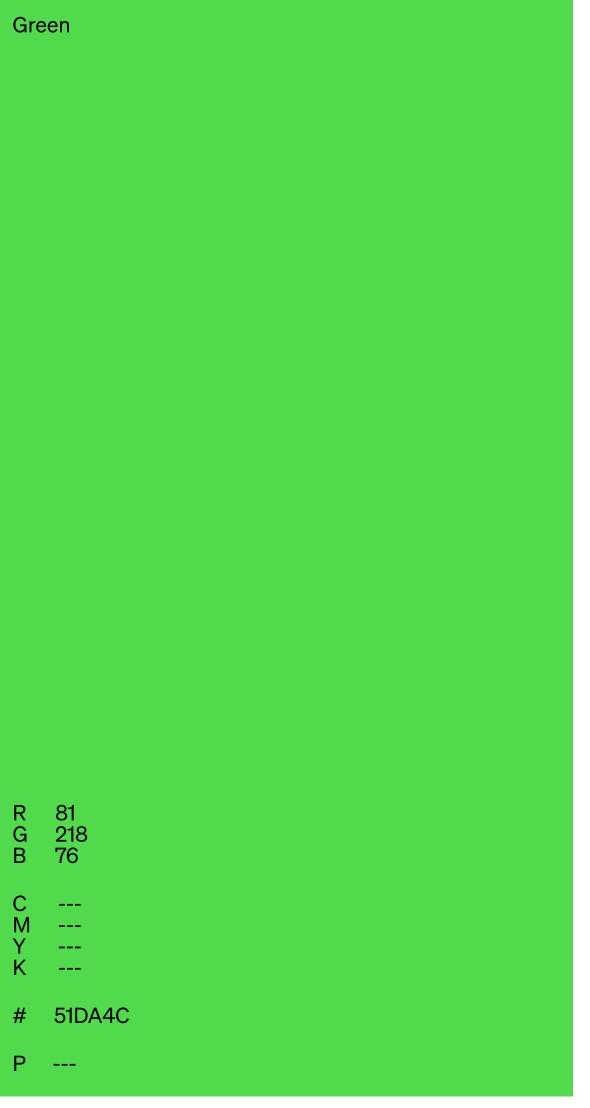


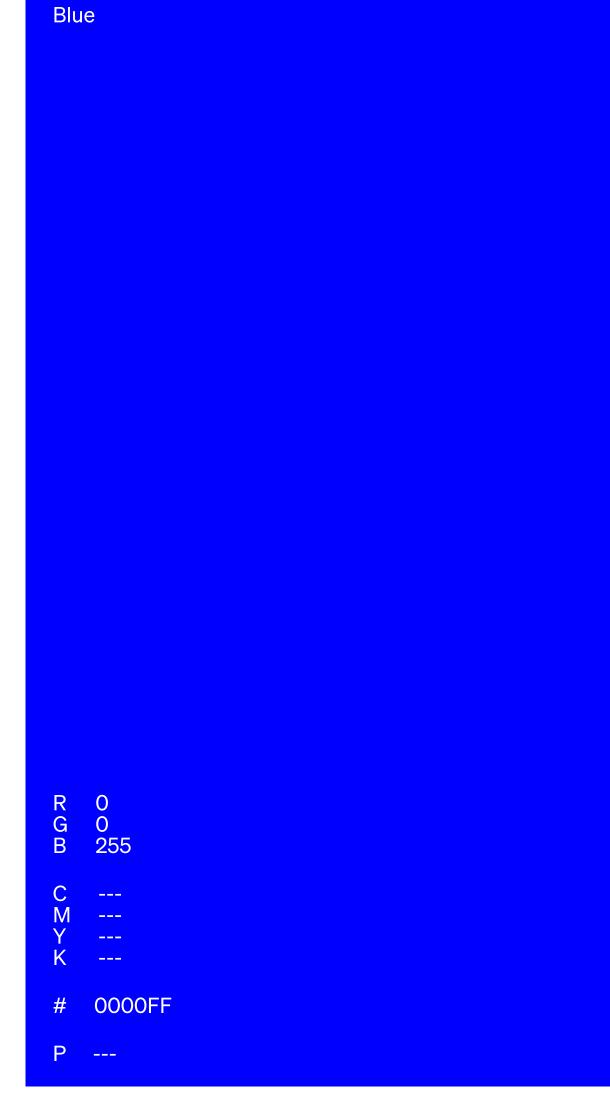
### **Color** Secondary

OpenAI has no singular brand color. Our secondary color palette is diverse and utilizes a flat hierarchy.

The highly saturated colors embrace the technology used to create a digital world. Red, green, and blue values evoke the additive color space of screens.





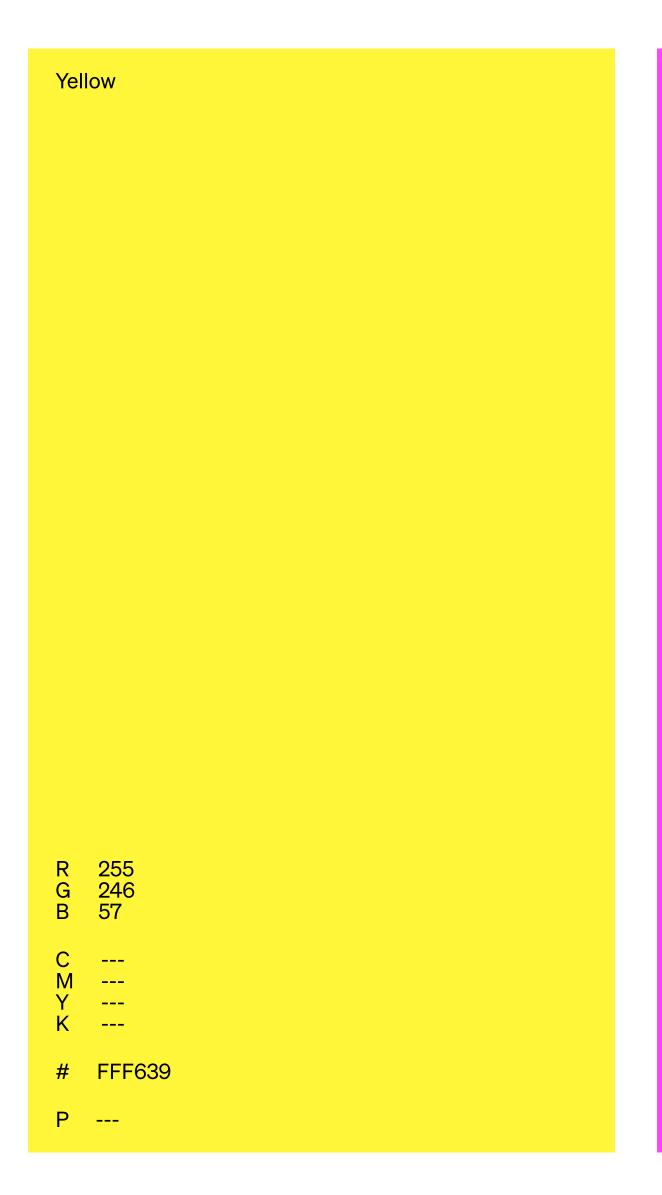


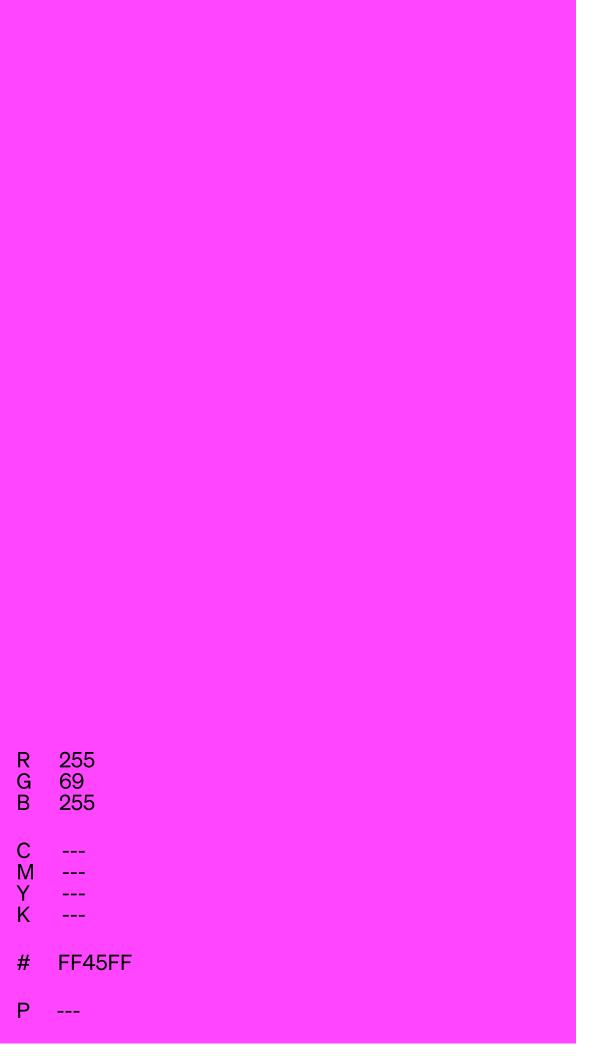


### **Color** Tertiary

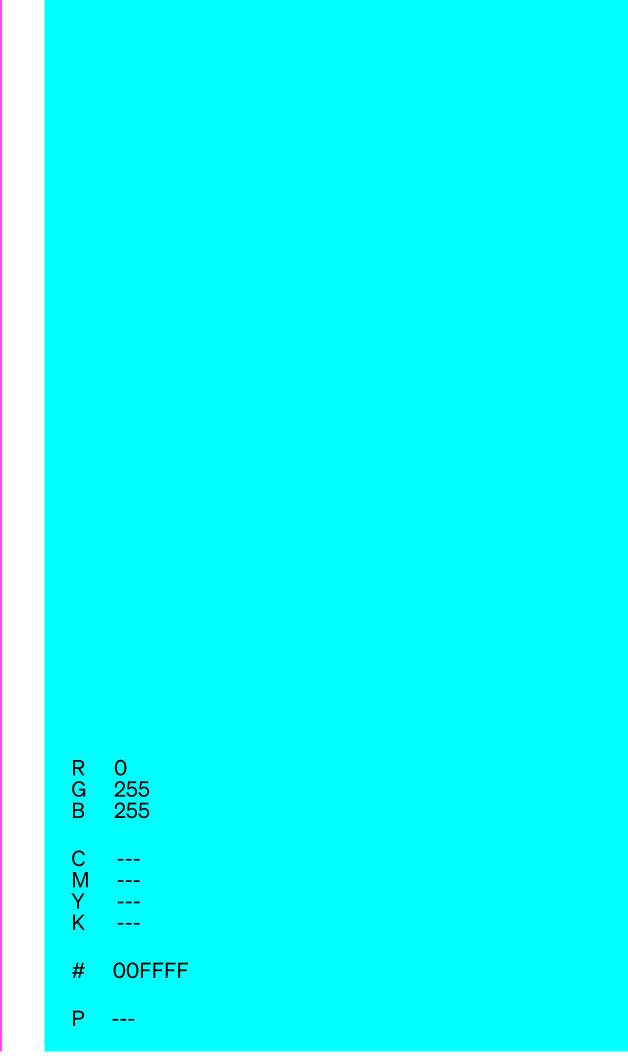
To expand our color palette, we took inspiration from other methods of producing color—CMYK printing. Our tertiary colors serve as an analog counterpart to the RGB values from our secondary palette.

The tertiary colors should be used sparingly. They are typically used when additional values are needed for data visualization or when the asset of a page works well with a pre-determined color theme.





Magenta



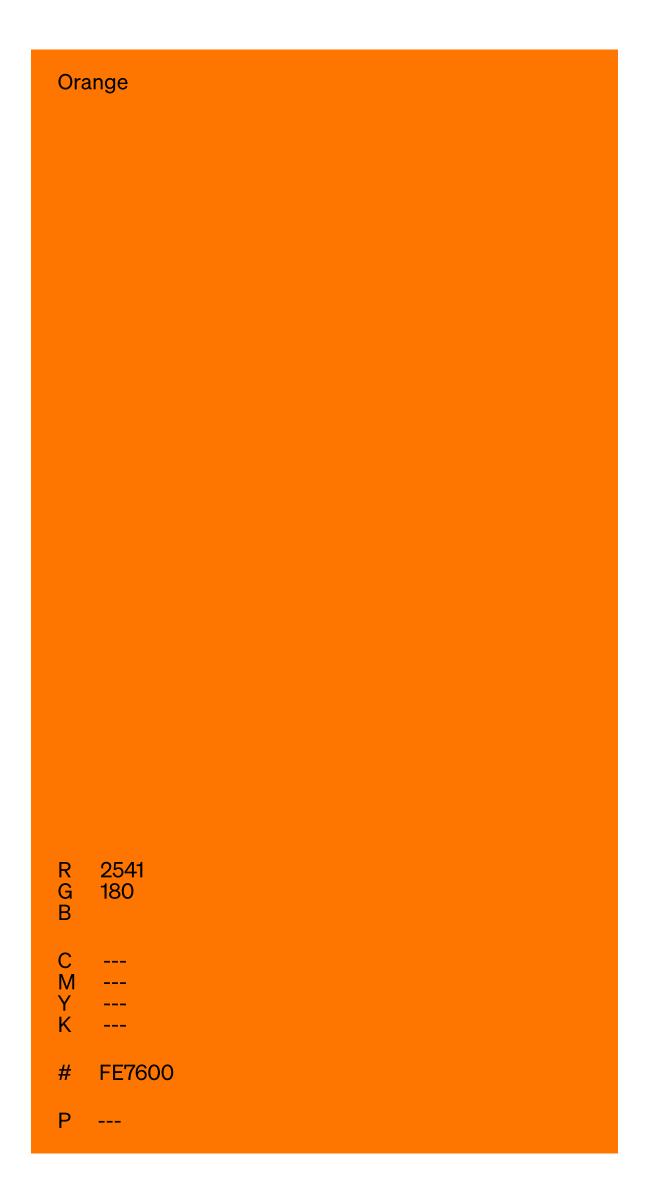
Cyan

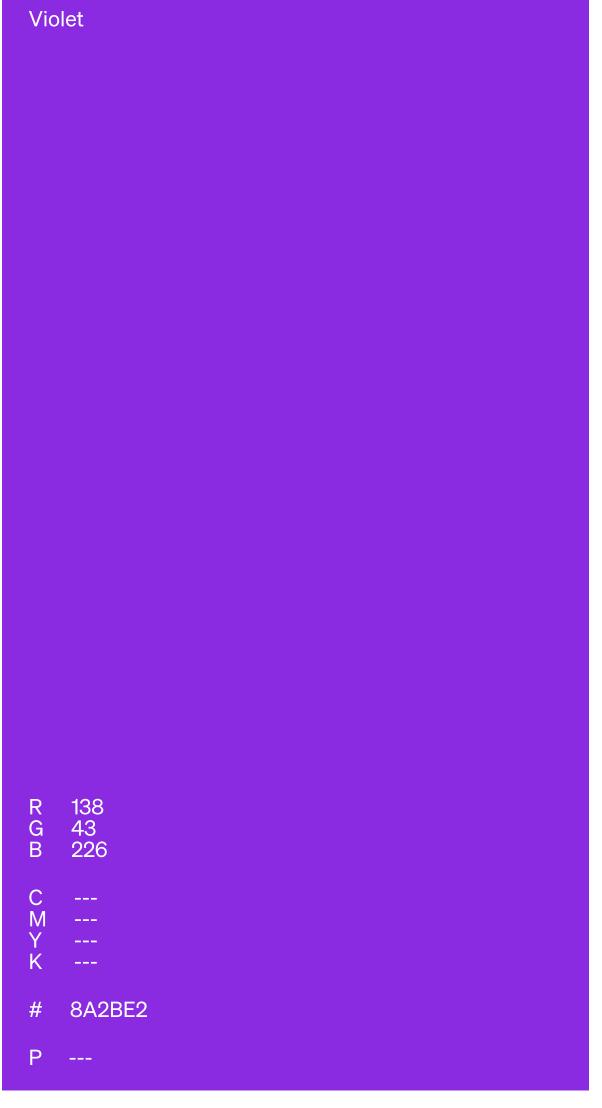


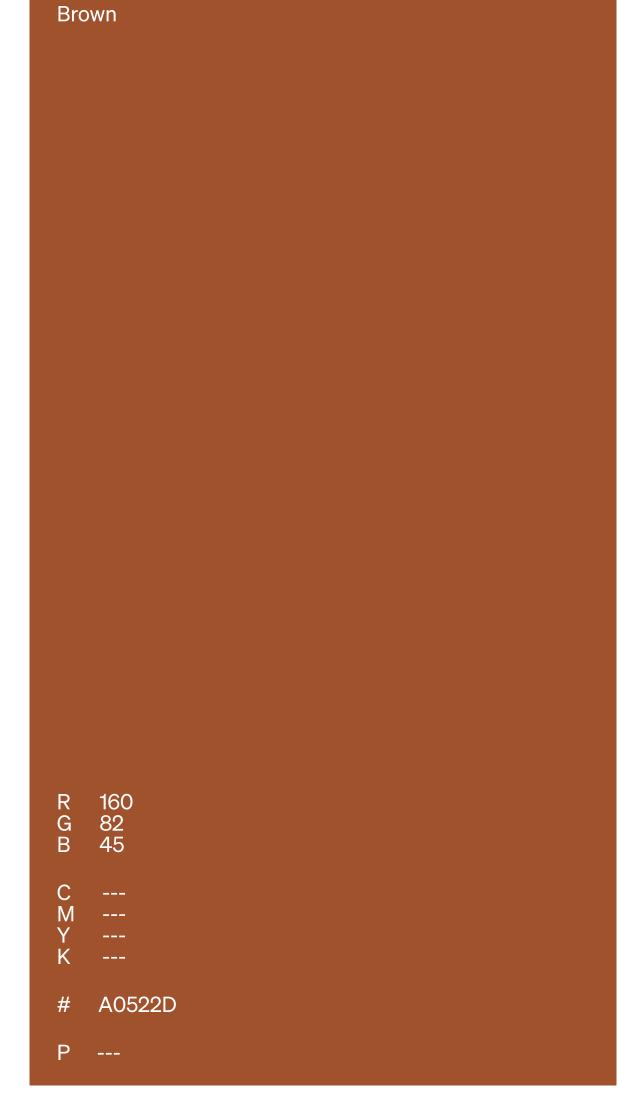
### Color

Supplemental

The supplemental colors are to be used when absolutely necessary. They work well when an action has a standard color associated with it. For example: orange works well as a cautionary color for UI elements, like when a user is filling our a form with sensitive information.









**Color** Shades (Primary)

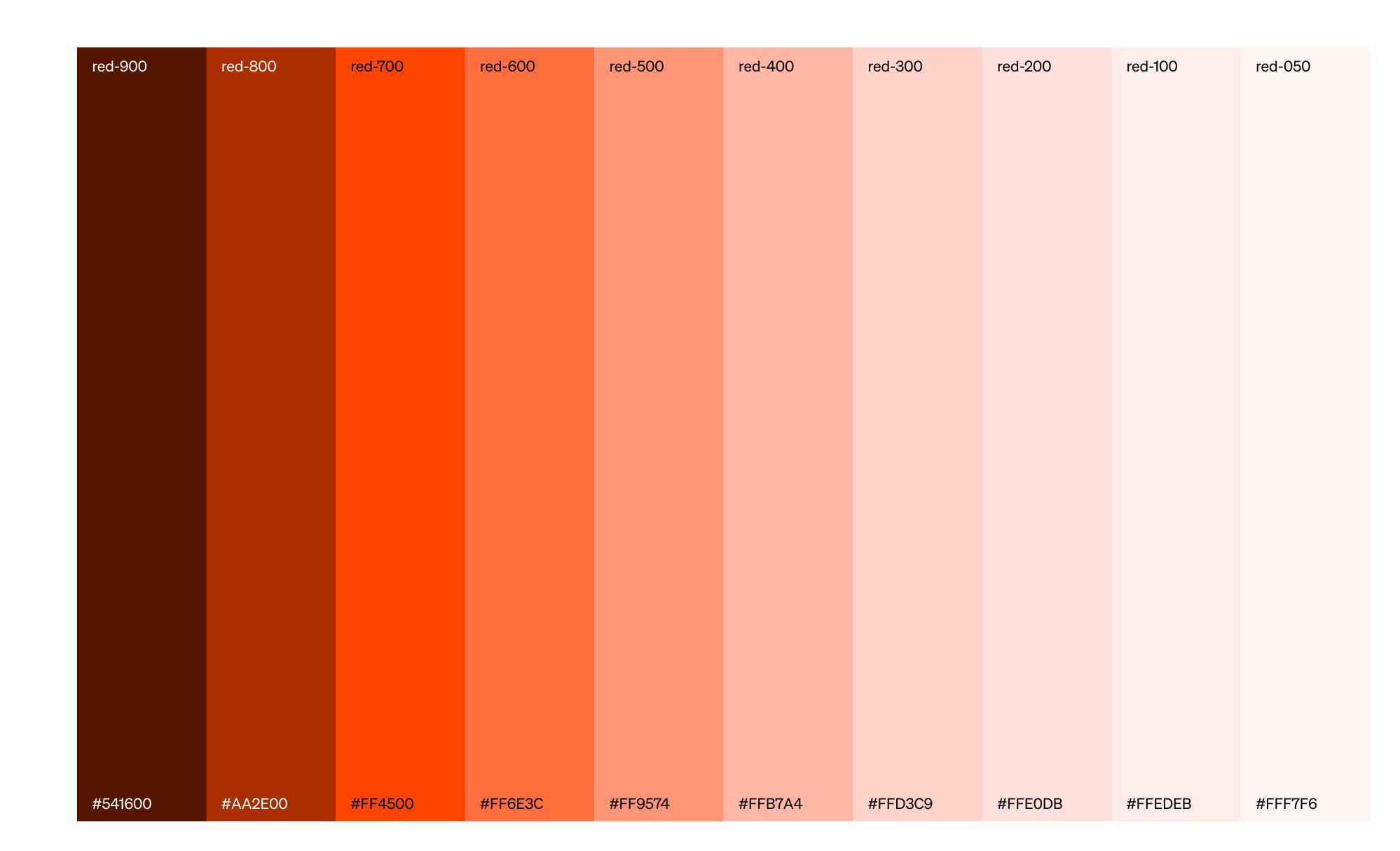
Gray

gray-900	gray-800	gray-700	gray-600	gray-500	gray-400	gray-300	gray-200	gray-100	gray-000
#000000	#393939	#747474	#A8A8A8	#CDCDCD	#FFB7A4	#E5E5E5	F5F5F5	#FAFAFA	#FFFFF



**Color** Shades (Secondary)

Red

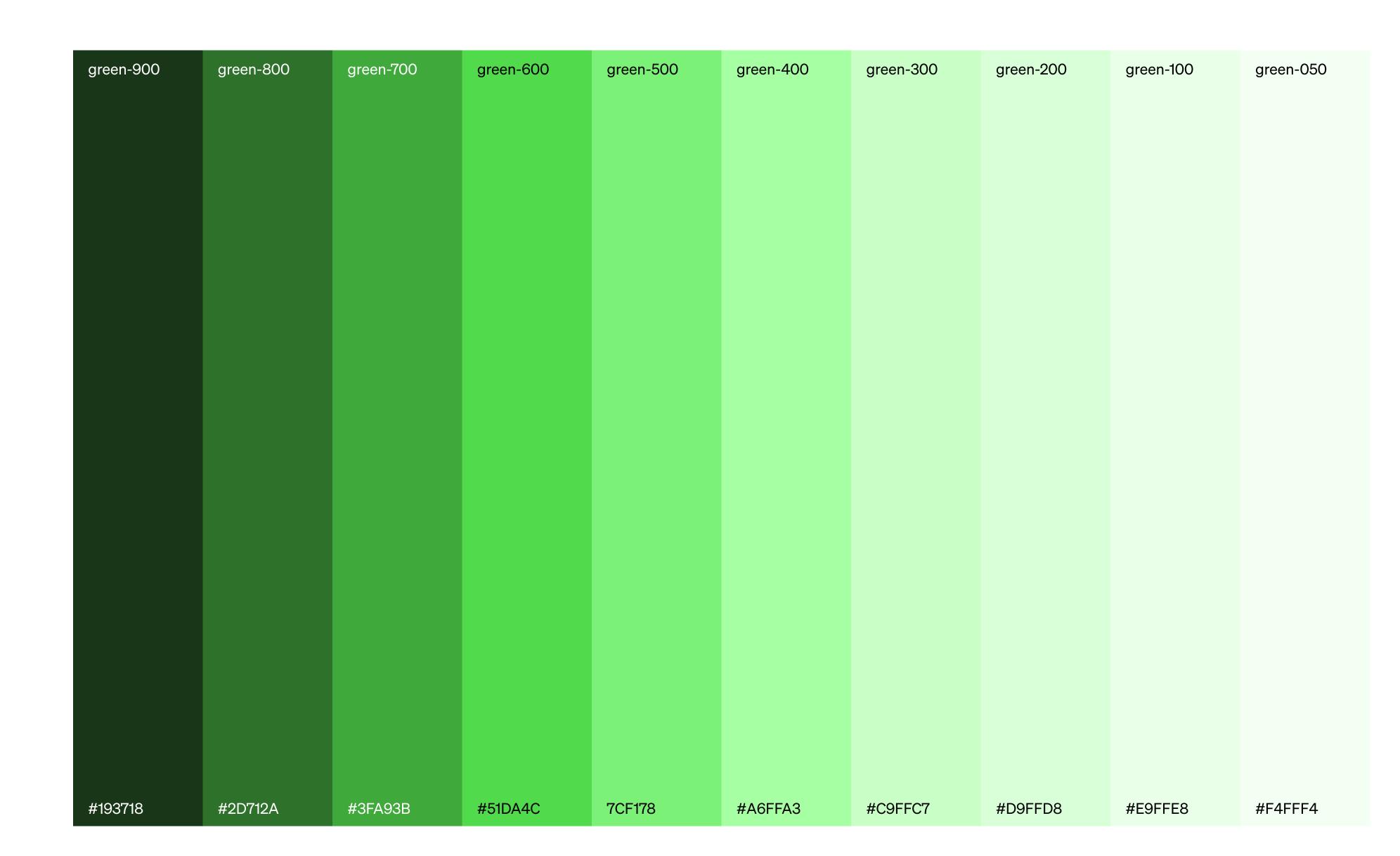




Color

Shades (Secondary)

Green

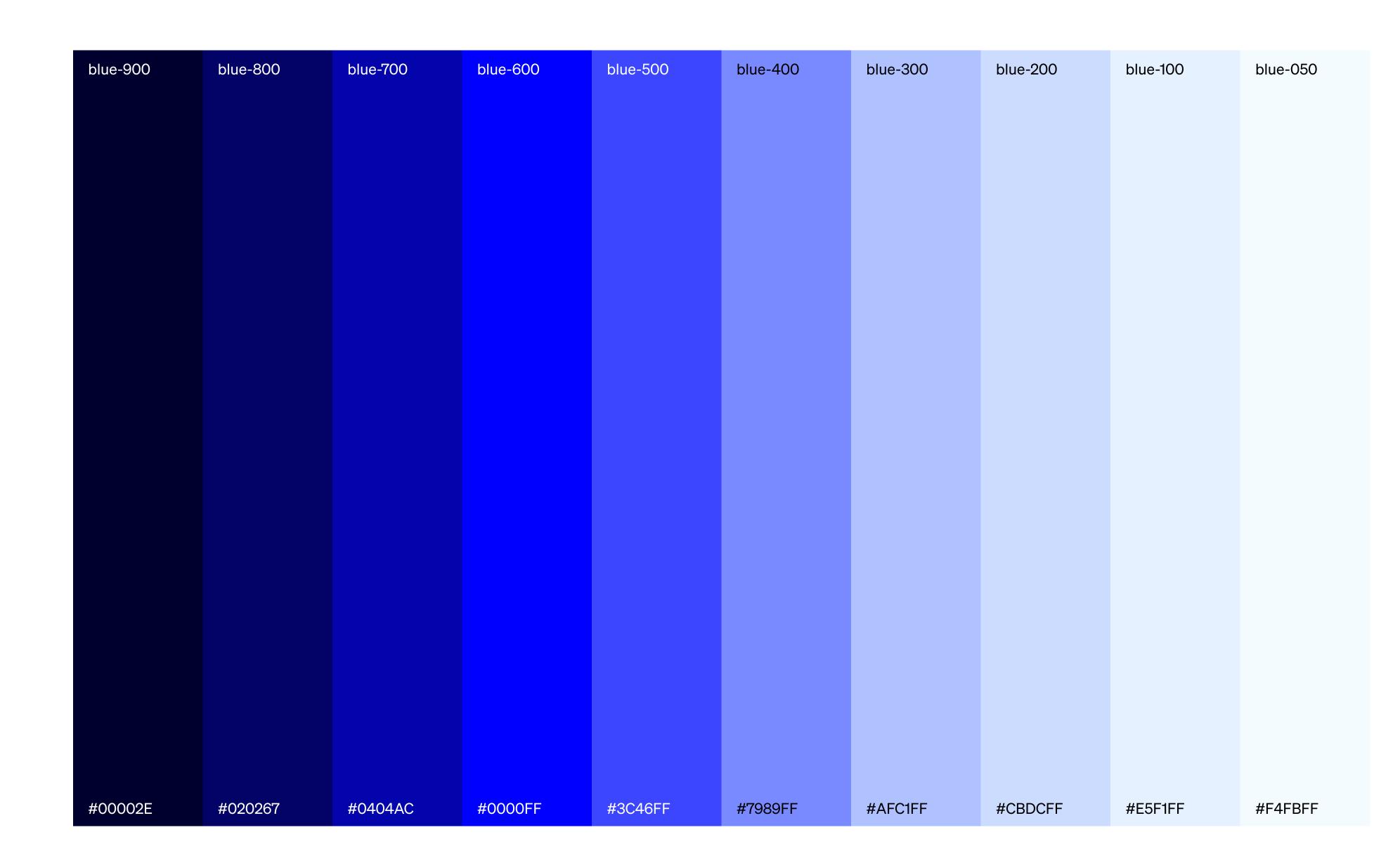




### Color

Shades (Secondary)

Blue





**Color** Shades (Tertiary)

Yellow

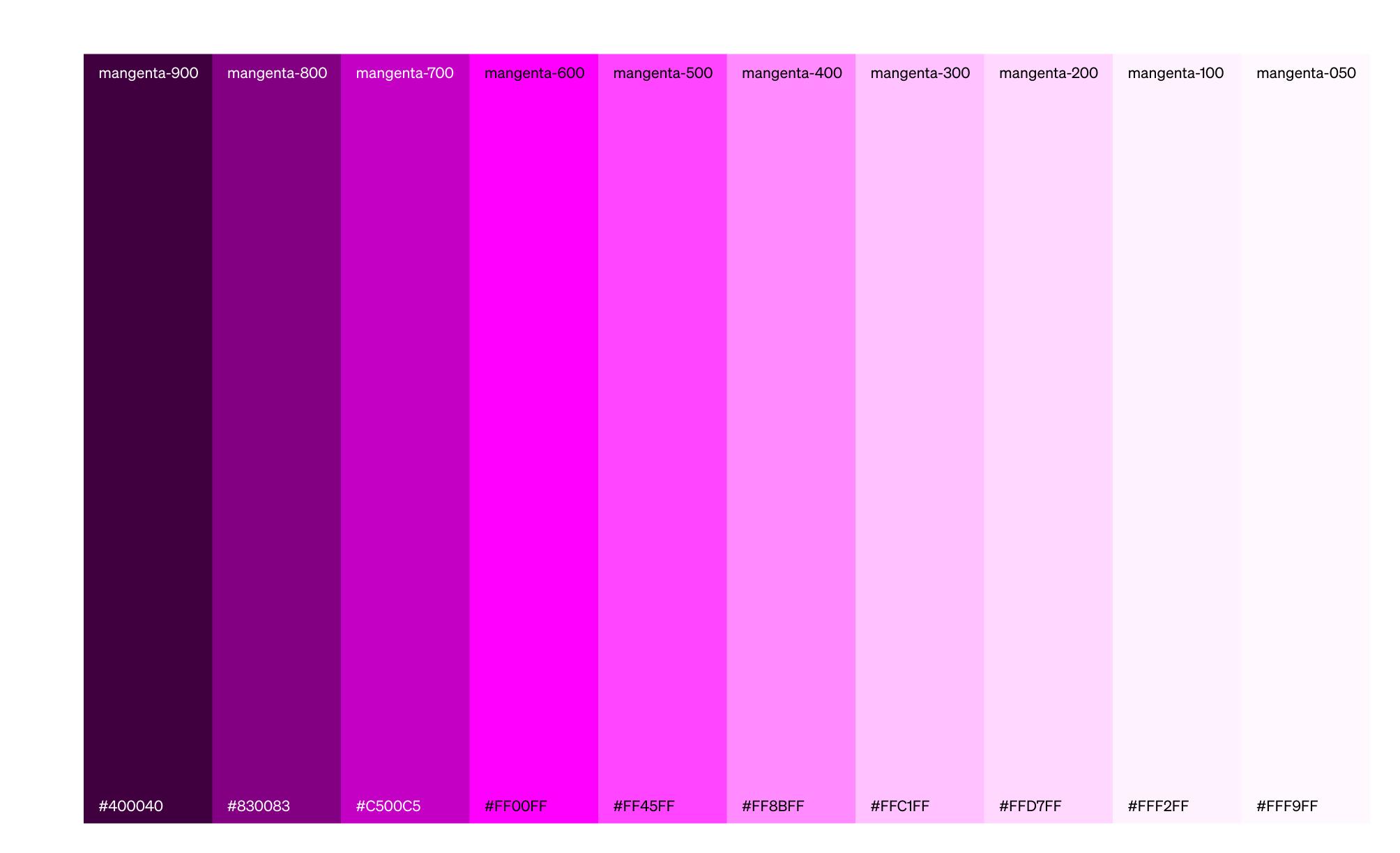
ellow-900	yellow-800	yellow-700	yellow-600	yellow-500	yellow-400	yellow-300	yellow-200	yellow-100	yellow-050



### Color

Shades (Tertiary)

Magenta

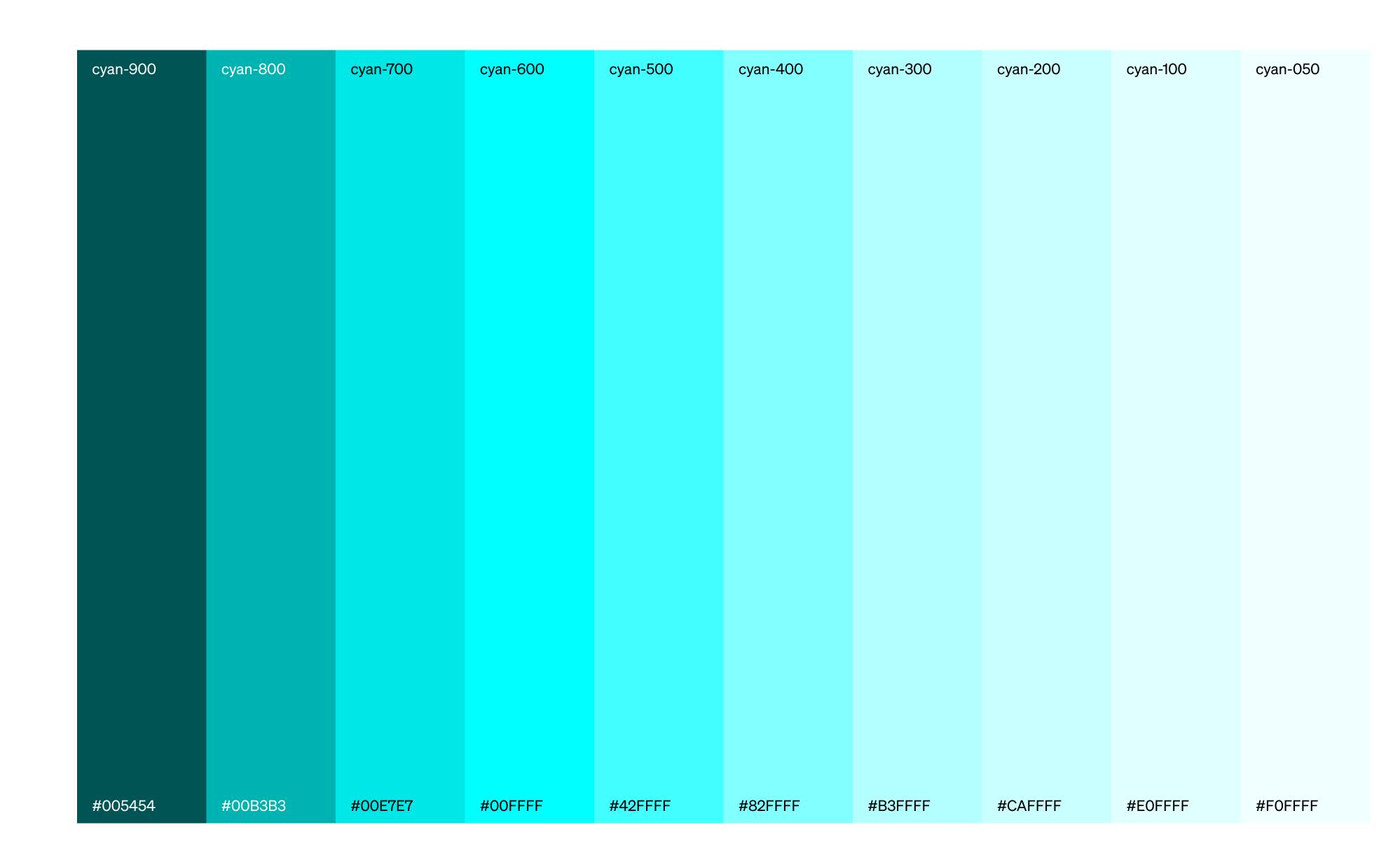




### Color

Shades (Tertiary)

Cyan

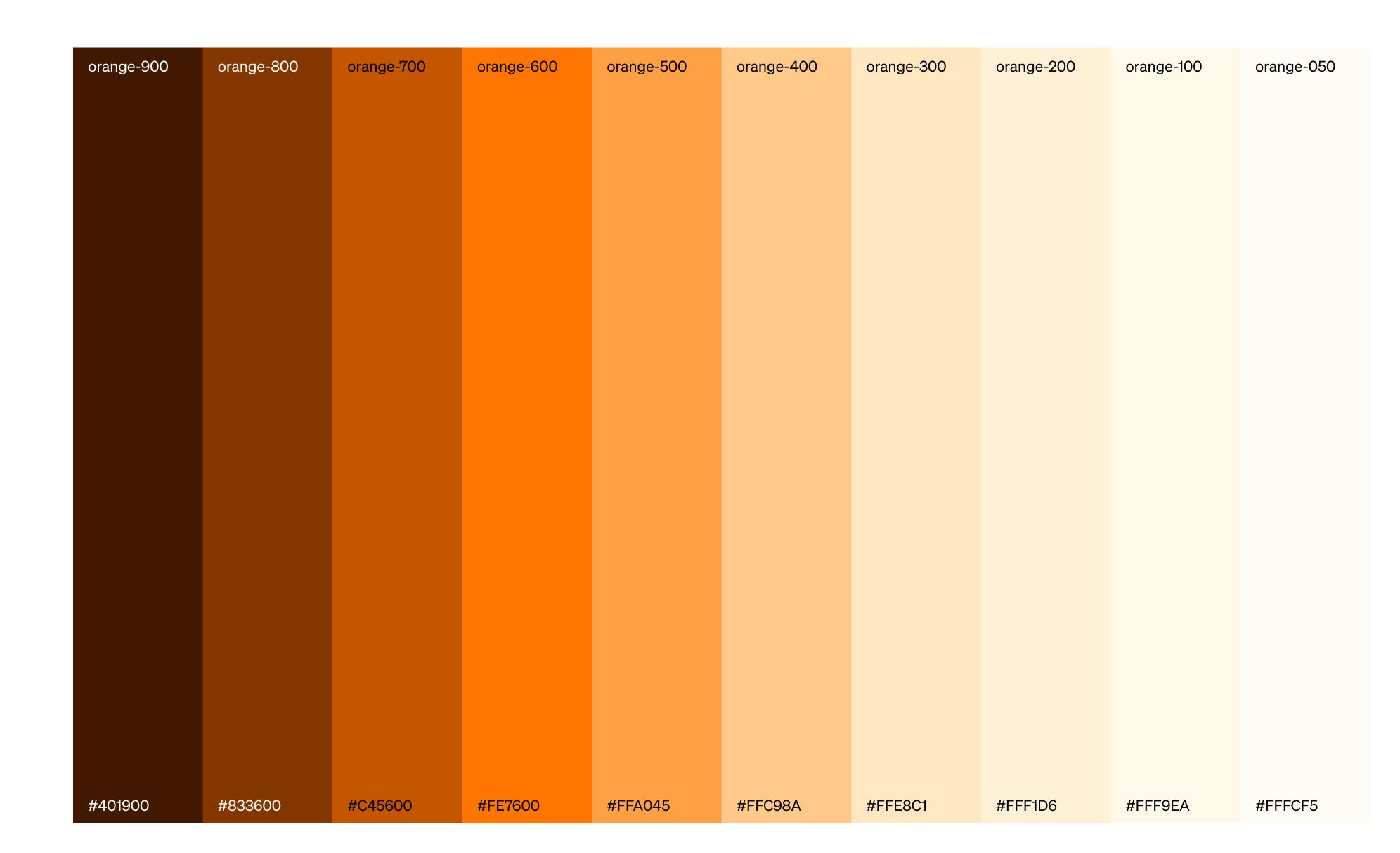




Color

Shades (Supplemental)

Orange

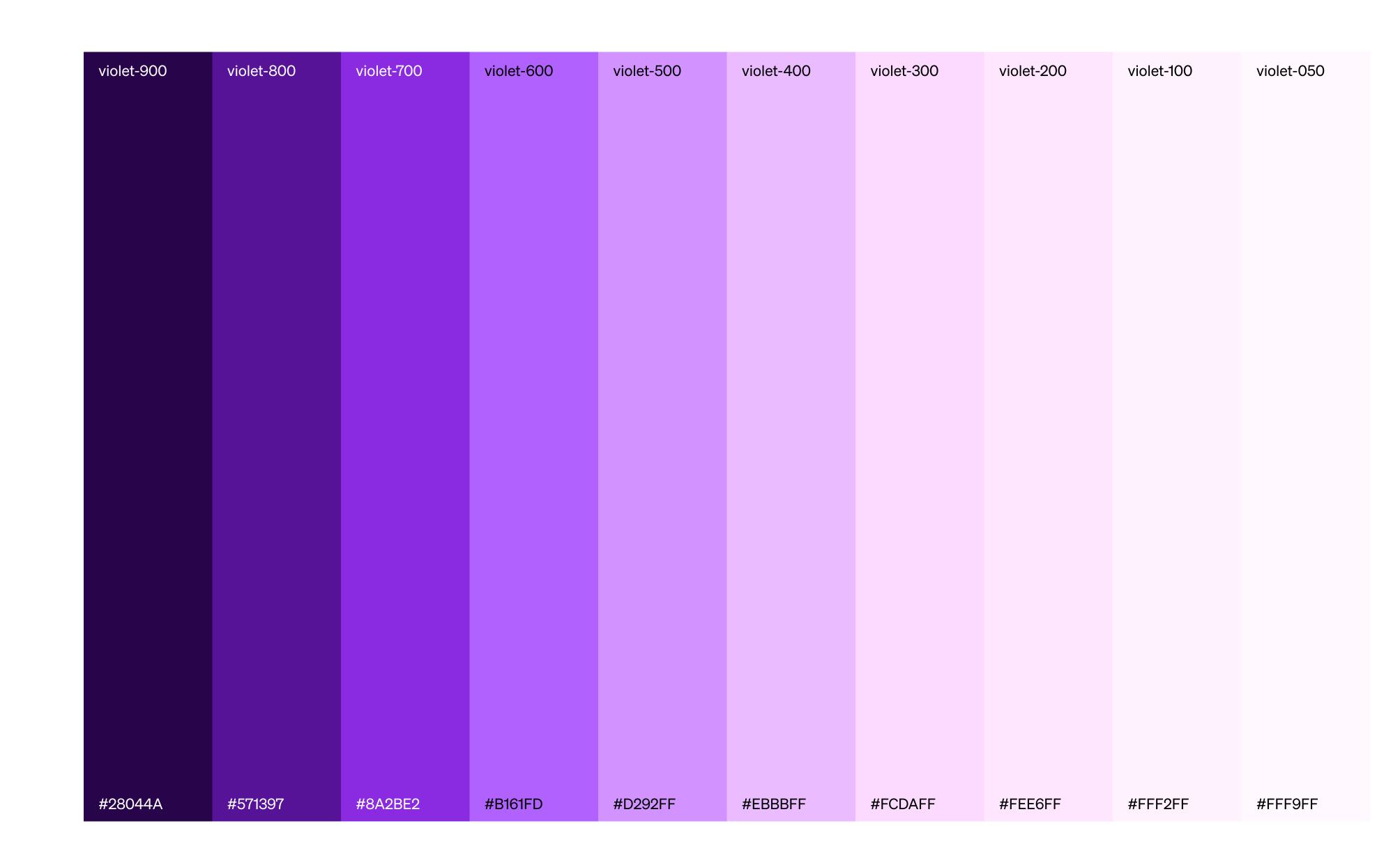




### Color

Shades (Supplemental)

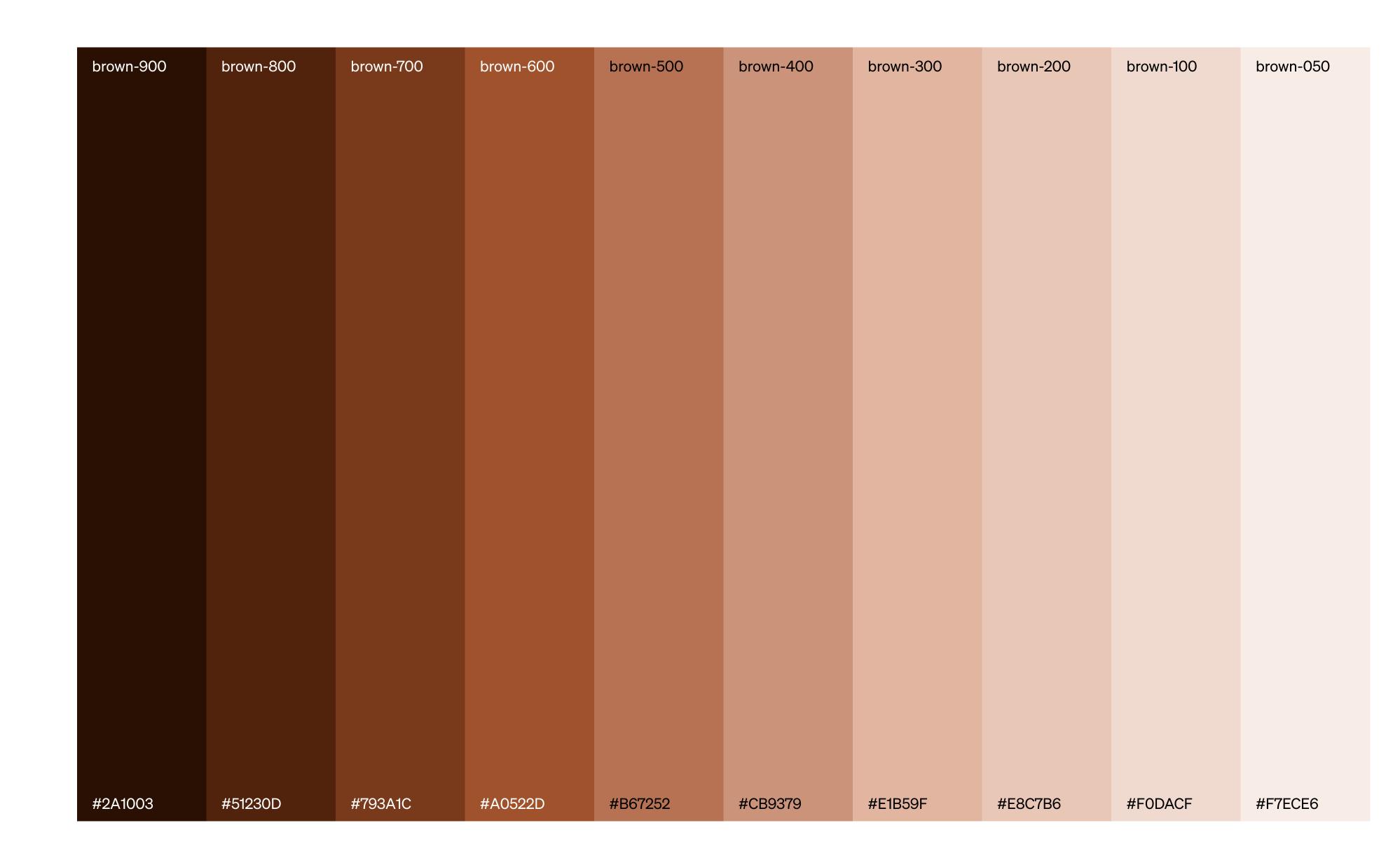
Violet





Color Shades (Supplemental)

Brown





## Color contrast

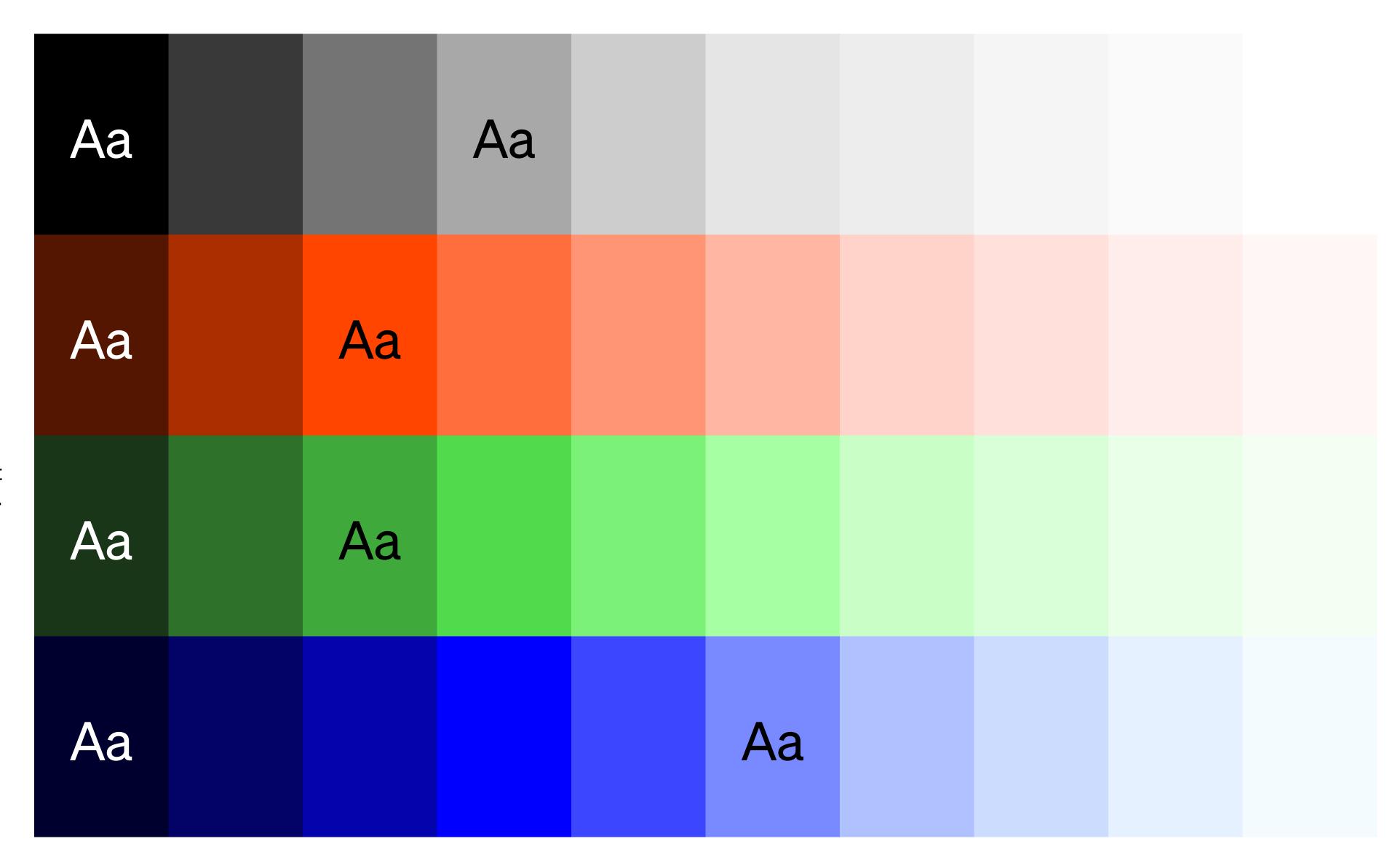
Whenever the color system is applied it is critical that all texts maintain clear and legible color contrasts.

In digital contexts the OpenAl brand maintains the highest levels of accessibility to ensure our platform is considerate of all types of users, including those with low vision and blindness.

Contrast ratios represent how different one color is from another and is commonly written as 1:2 or 21:1. The greater the difference is between the numbers the higher the color contrast is between both colors.

The World Wide Web Consortium (WCAG) recommends Large text (defined as 14pt bold or 18pt regular) to maintain a 3:1 color contrast ratio against the background the text is set on.

For small text colors must maintain a 4.5:1 contrast against its background. All colors within the OpenAl color system conform with the WCAG color contrast requirements.





**Color** Color contrast

This chart represents the appropriate text colors for text set on tertiary and supplemental background colors.

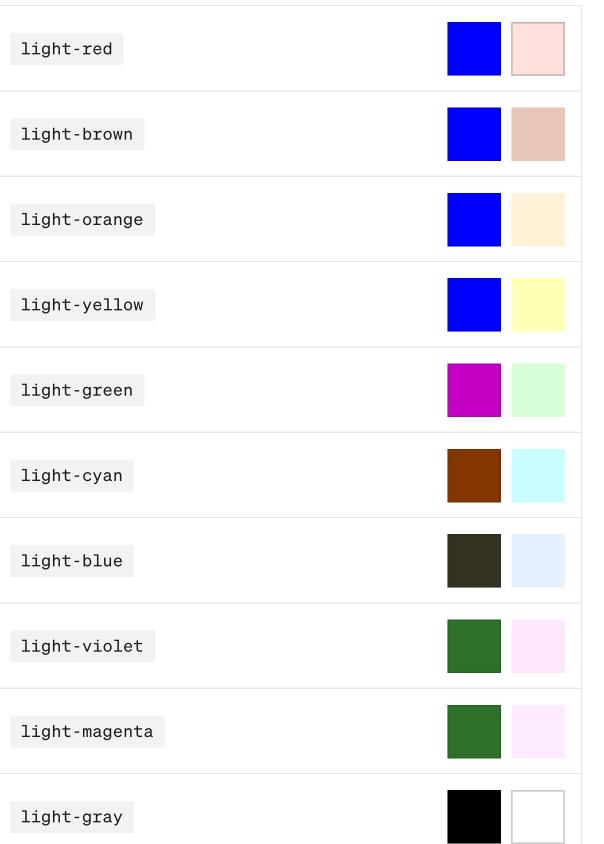


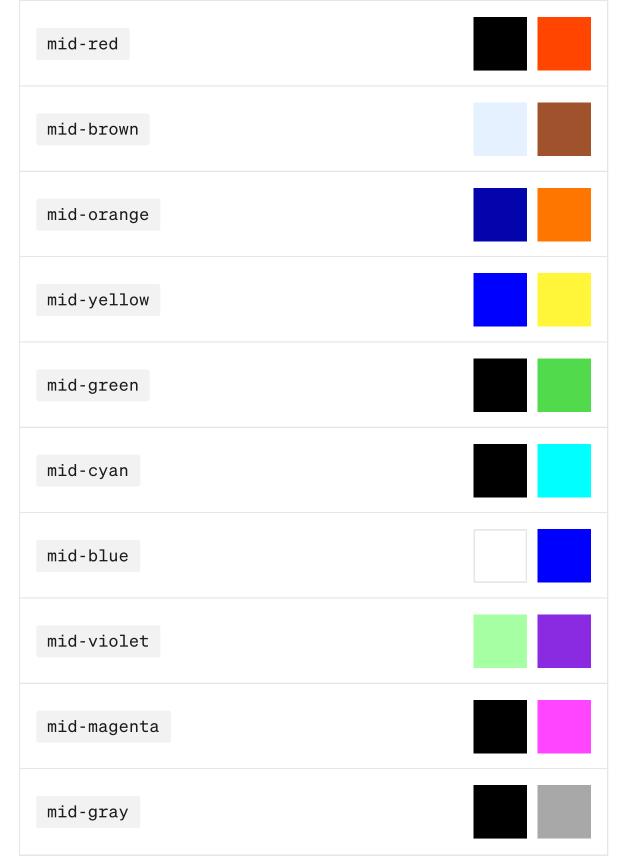


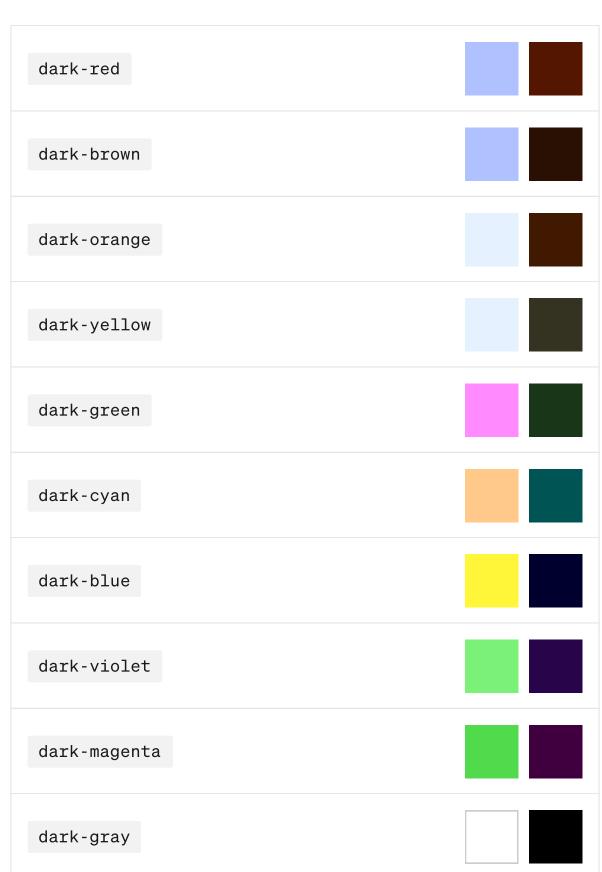
### **Color**Themes

30 color themes have been predefined for immediate use. The themes are based on our core 10 colors.

For each theme there exists a light, mid, and dark version. Color themes should be used to create moments of emphasis. The themes are manually selected and up to the judgment of the designer to determine the level of appropriateness.



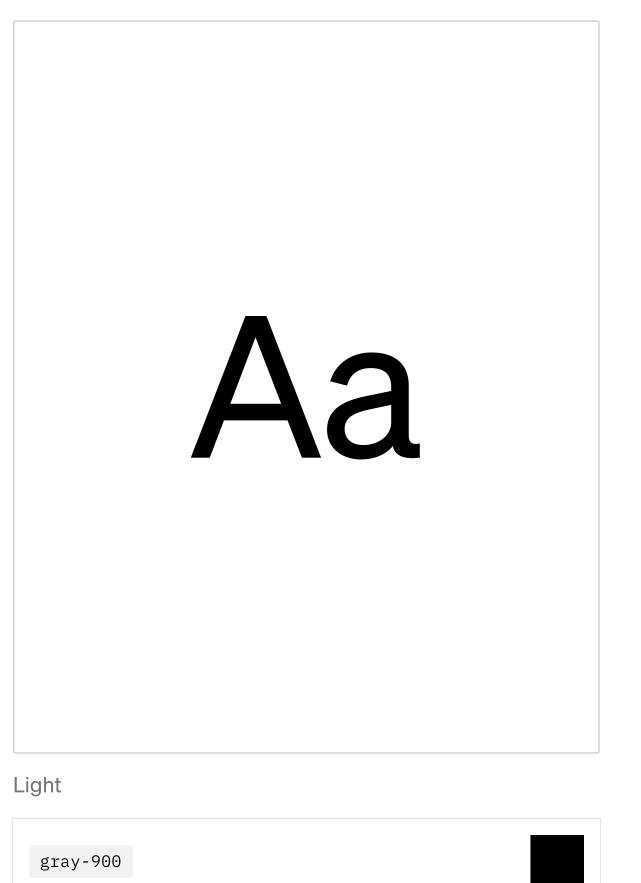


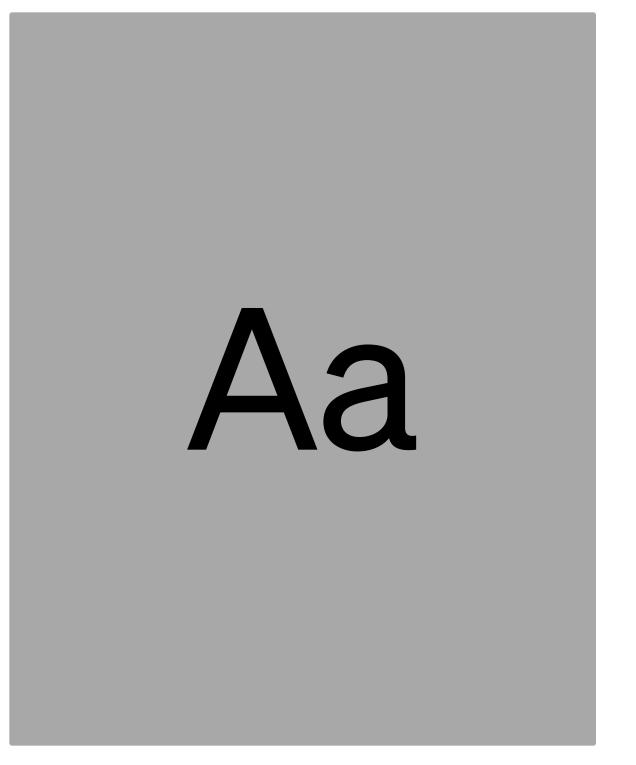


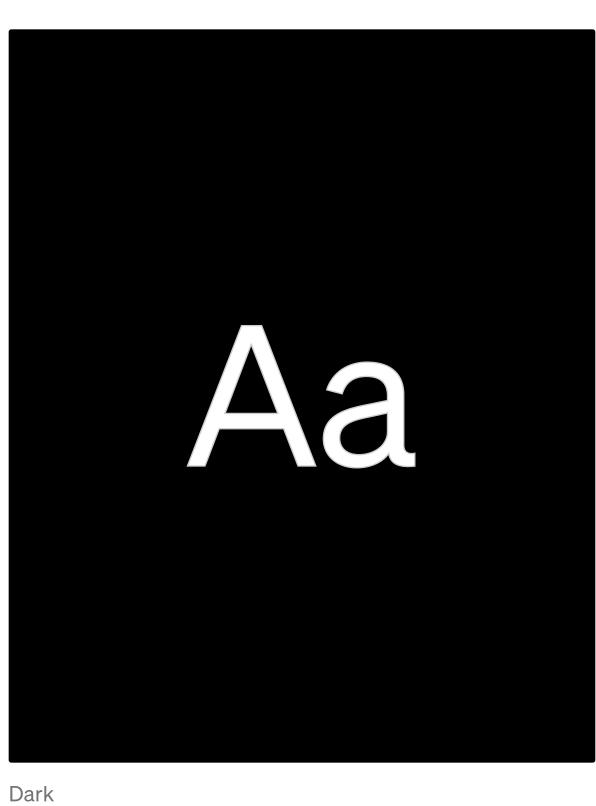


**Color**Themes

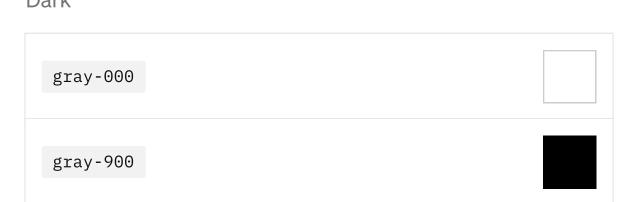
Neutral







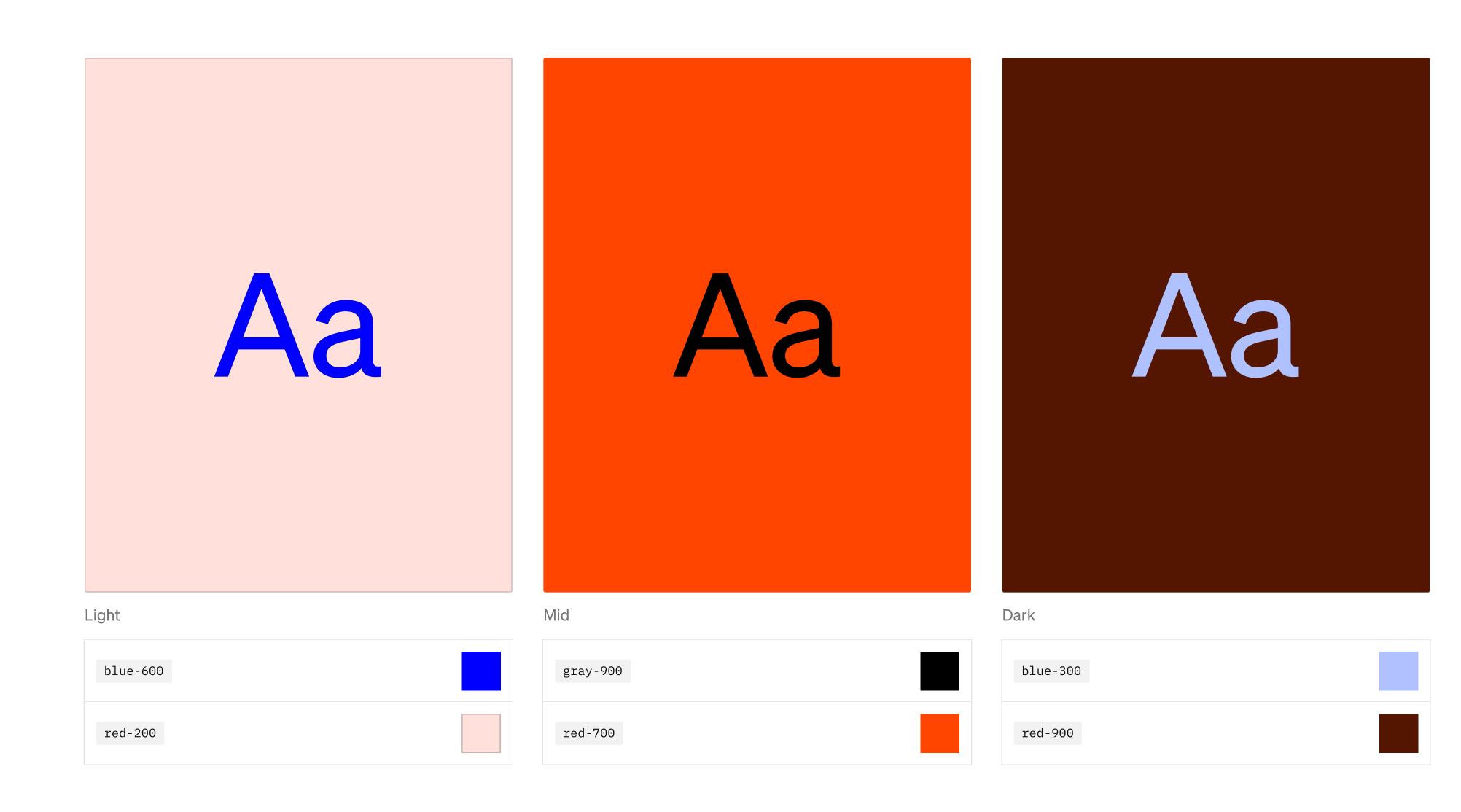
ght	Mid
gray-900	gray-900
gray-000	gray-600





**Color**Themes

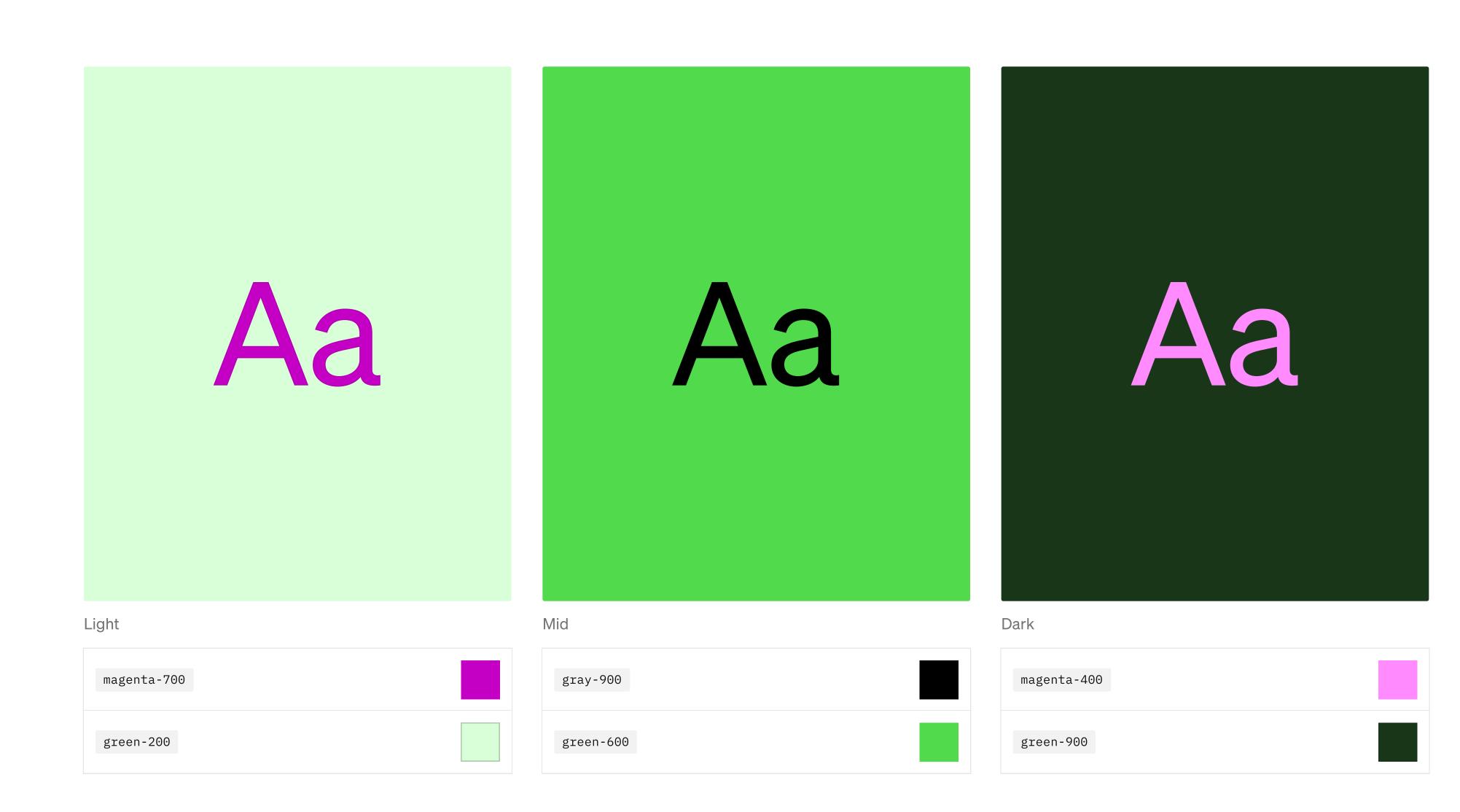
Red





**Color**Themes

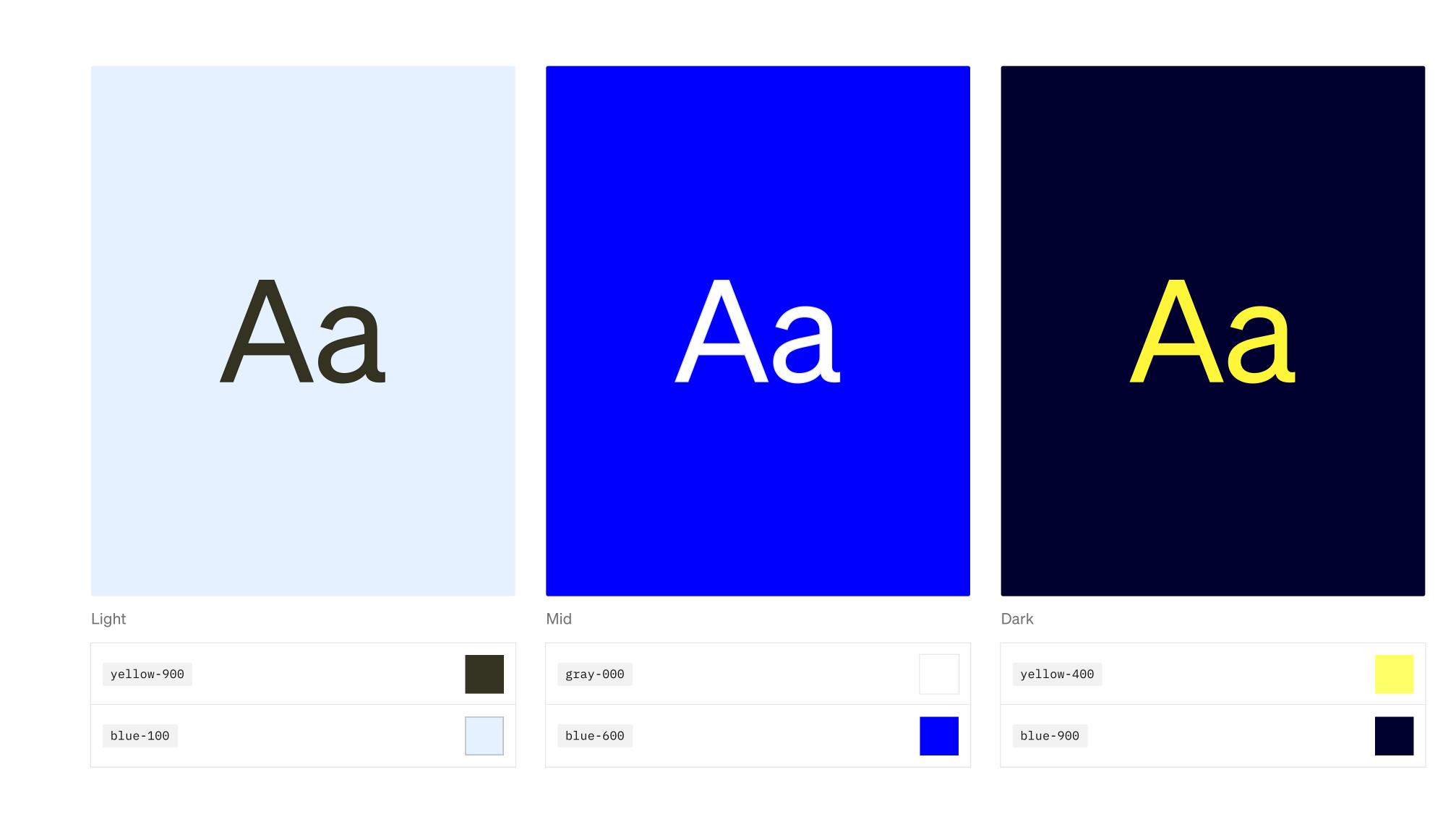
Green





**Color**Themes

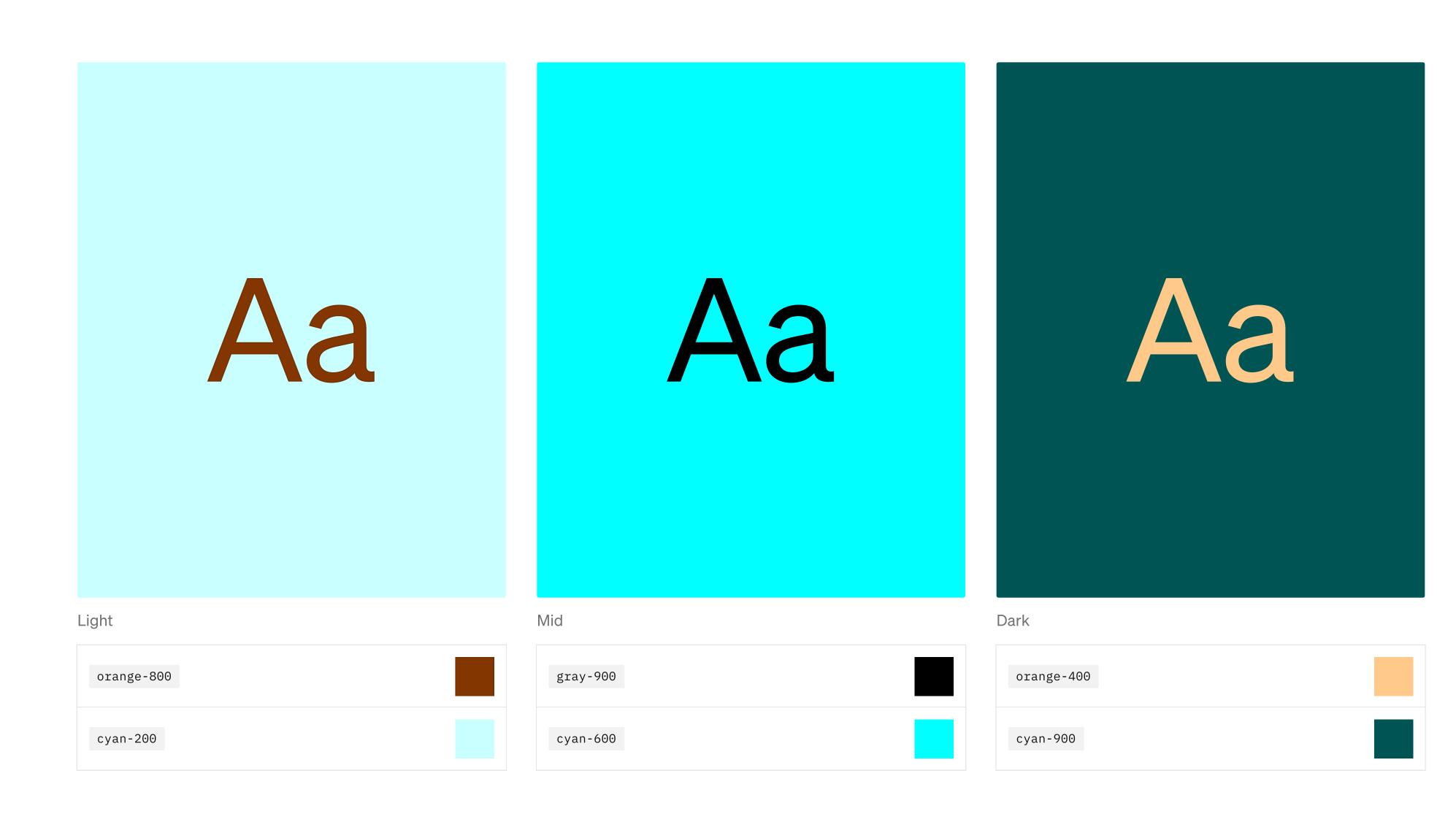
Blue





**Color**Themes

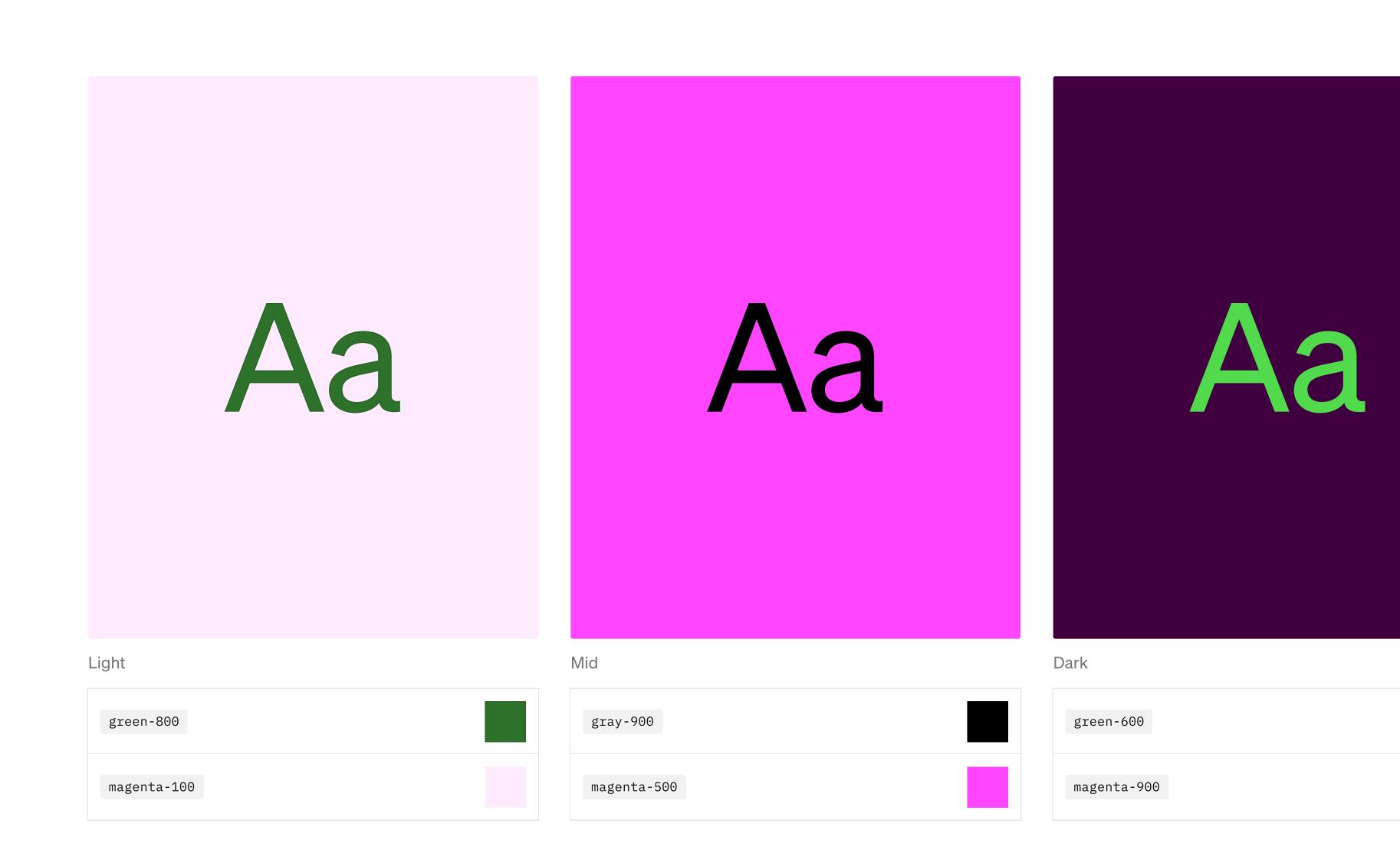
Cyan





**Color**Themes

Magenta





**Color** Themes

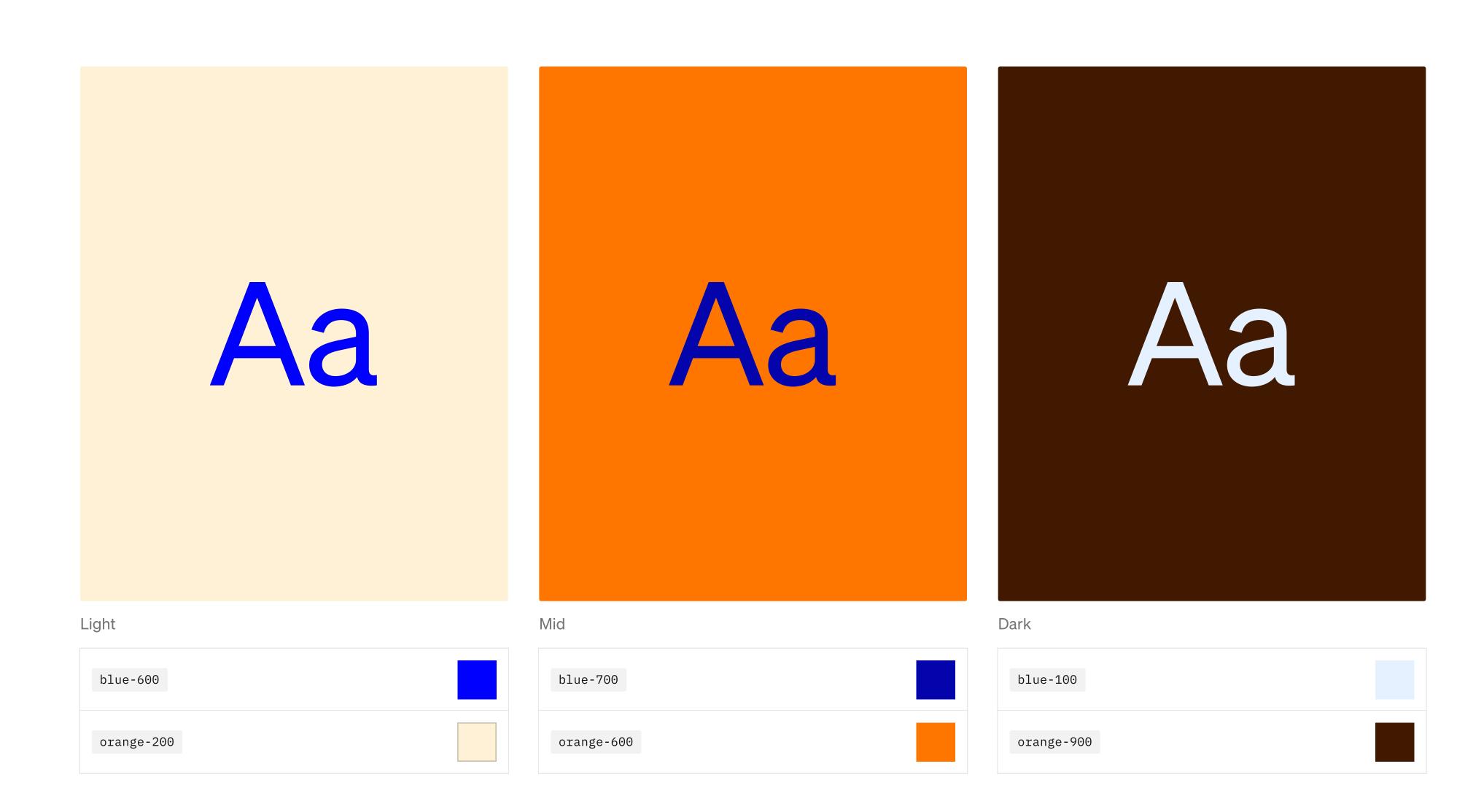
Yellow





**Color** Themes

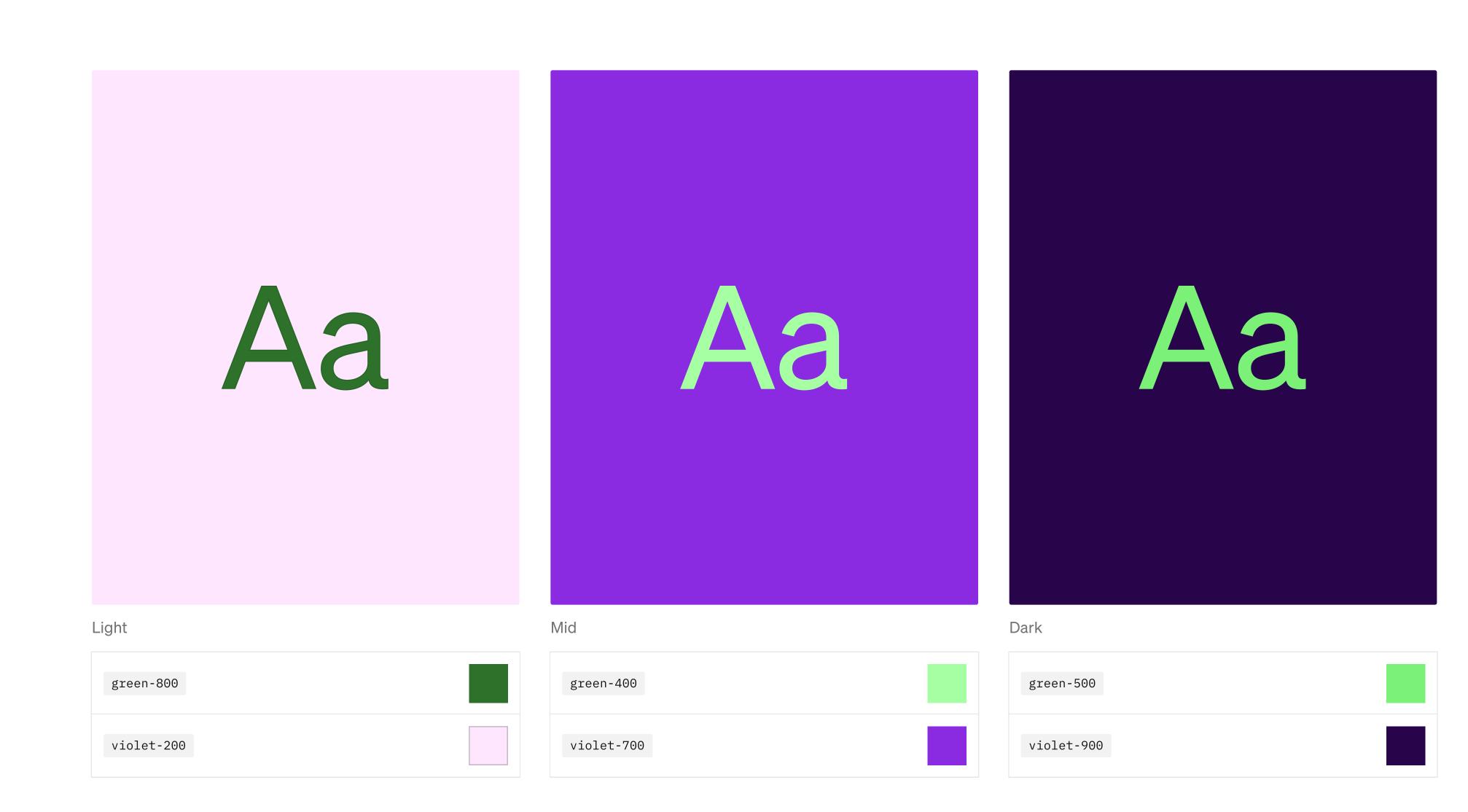
Orange





**Color**Themes

Violet





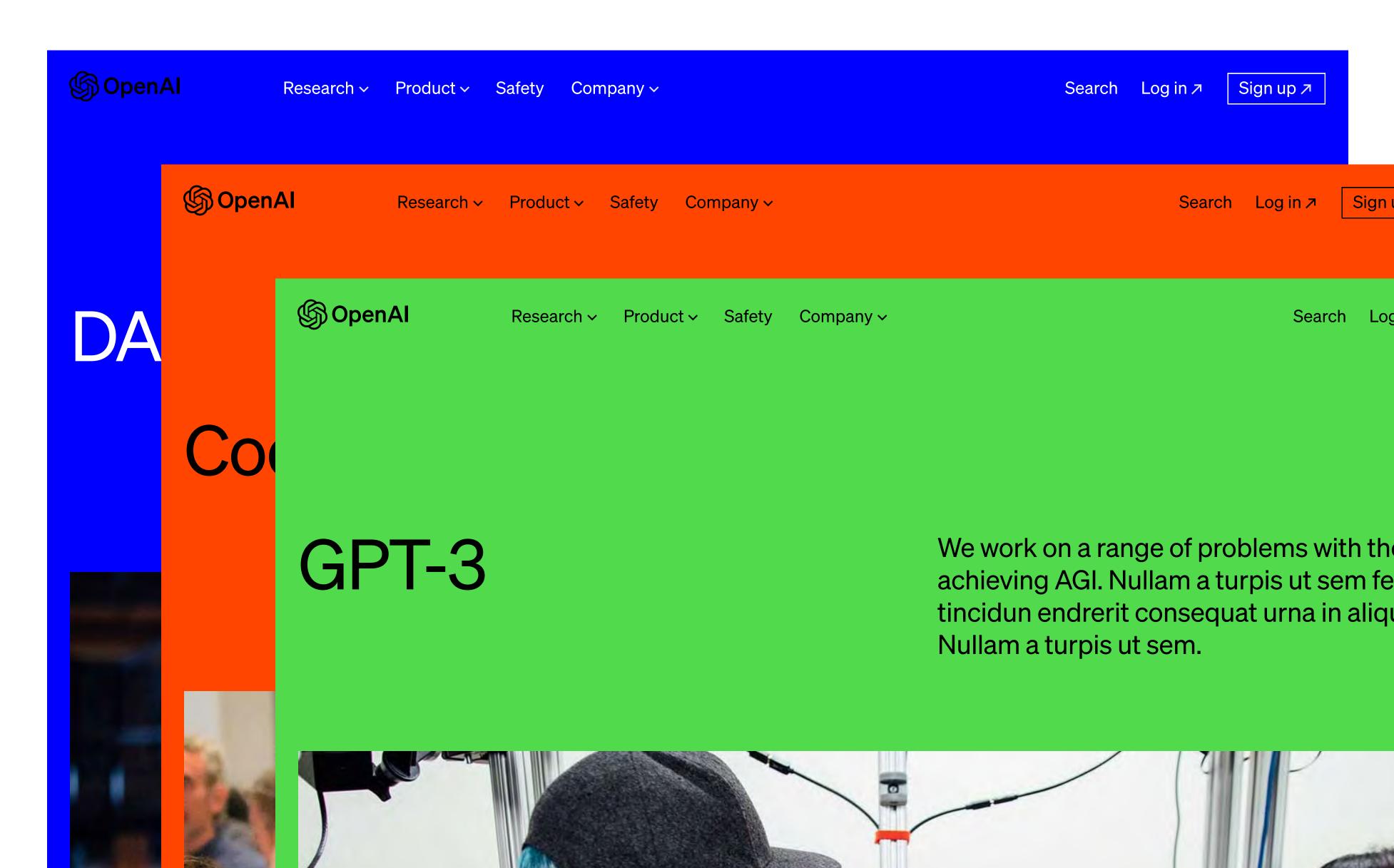
**Color**Themes

Brown





Primary color themes (red, blue, or green) should be used to represent products in digital contexts like a page header or related feature within the website.





## Typography

- 4.1 Introduction
- 4.2 Serif
- 4.3 San-serif
- 4.4 Weights
- 4.5 What to avoid



Typography is an essential element of our identity and a powerful tool for achieving consistent expression in our communication.



**Typography**Serif

Signifier is used for long form content and for moments to communicate a brand voice. When additional emphasis is needed, use the italic version of the font.

# Signifier

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890!@#\$"%^&\*;;/{}[]()?!



### **Typography**Serif: line-height

Line-height is the space between baselines and it determines the legibility and readability of the typography and also impacts the strength of voice.

As a general rule of thumb, the line-height of text should be reduced as the size of the text increases. For body text, the line-height should increase to give the texts room to breath and space for the reader's eye to rest.

Please refer to the typography scale on the next page for line-height values corresponding to your chosen type size.

### OpenAI conducts fundamental, long-term research toward the creation of safe AGI.

100%

OpenAI's mission is to ensure that artificial general intelligence (AGI)—by which we mean highly autonomous systems that outperform humans at most economically valuable work—benefits all of humanity.

130%

We commit to use any influence we obtain over AGI's deployment to ensure it is used for the benefit of all, and to avoid enabling uses of AI or AGI that harm humanity or unduly concentrate power. Our primary fiduciary duty is to humanity. We anticipate needing to marshal substantial resources to fulfill our mission, but will always diligently act to minimize conflicts of interest among our employees and stakeholders that could compromise broad benefit.



### **Typography**Serif: scale

The type sizes in the system are derived from a mathematical formula which systematizes traditional types sizes. It utilizes a pentatonic scale. This means the type size doubles every five steps.

Pentatonic

Formula:

 $a_n = a_0 \times r^{(n-1)}$ 

 $a_n$  = The type size / term in the sequence

 $a_0$  = The base type size, 12pt

 $r = 2^{(1/5)}$ 

n =The step in the scale. e.g. step 1 = 12pt

Kern setting	Letter-spacing	Line-height	Type size	Style
metric	0%	140%	9	Signifier Light
metric	0%	140%	10	Signifier Light
metric	0%	140%	11	Signifier Light
metric	0%	140%	12	Signifier Light
metric	0%	140%	14	Signifier Light
metric	0%	140%	16	Signifier Light
metric	0%	140%	18	Signifier Light
metric	0%	140%	21	Signifier Light
metric	0%	130%	24	Signifier Light
metric	0%	130%	28	Signifier Light
metric	-1% (-0.01em)	130%	32	Signifier Light
metric	-1% (-0.01em)	130%	36	Signifier Light
metric	-1% (-0.01em)	130%	42	Signifier Light
metric	-1% (-0.01em)	120%	48	Signifier Light
metric	-1% (-0.01em)	120%	55	Signifier Light
metric	-2% (-0.02em)	110%	64	Signifier Light
metric	-2% (-0.02em)	110%	73	Signifier Light
metric	-2% (-0.02em)	110%	84	Signifier Light
metric	-2% (-0.02em)	110%	96	Signifier Light



**Typography**Sans-serif

Söhne is the memory of Akzidenz-Grotesk framed through the reality of Helvetica. It captures the analogue materiality of "Standard Medium" used in Unimark's legendary wayfinding system for the NYC Subway.

## Schne

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890!@#\$"%^&\*,;/{}[]()?!↑←↓→



#### **Typography**

Sans-serif: line-height

The line-height recommendations are the same for both serif and sans-serif typography. Again, as a general rule of thumb, line-heights should be reduced as the type size increases.

### OpenAl conducts fundamental, long-term research toward the creation of safe AGI.

100%

OpenAl's mission is to ensure that artificial general intelligence (AGI)—by which we mean highly autonomous systems that outperform humans at most economically valuable work—benefits all of humanity.

130%

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### **Typography**Sans-serif: scale

This list demonstrates 21 typographic steps in our scale for Söhne Buch. If larger sizes are needed the formula can be used to generate additional harmonious sizes.

Kern setting	Letter-spacing	Line-height	Type size	Style
metric	0%	130%	6	Söhne Buch
metric	0%	130%	7	Söhne Buch
metric	0%	130%	8	Söhne Buch
metric	0%	130%	9	Söhne Buch
metric	0%	130%	10	Söhne Buch
metric	0%	130%	12	Söhne Buch
metric	0%	130%	14	Söhne Buch
metric	0%	130%	16	Söhne Buch
metric	0%	130%	18	Söhne Buch
metric	0%	130%	21	Söhne Buch
metric	-1% (-0.01em)	120%	24	Söhne Buch
metric	-1% (-0.01em)	120%	28	Söhne Buch
metric	-1% (-0.01em)	120%	32	Söhne Buch
metric	-1% (-0.01em)	120%	36	Söhne Buch
metric	-1% (-0.01em)	120%	42	Söhne Buch
metric	-2% (-0.02em)	120%	48	Söhne Buch
metric	-2% (-0.02em)	110%	55	Söhne Buch
metric	-2% (-0.02em)	110%	64	Söhne Buch
metric	-2% (-0.02em)	100%	73	Söhne Buch
metric	-2% (-0.02em)	100%	84	Söhne Buch
metric	-2% (-0.02em)	100%	96	Söhne Buch



### **Typography**Sans-serif: scale

This list demonstrates 21 typographic steps in our scale for Söhne Halbfett. If larger sizes are needed the formula can be used to generate additional harmonious sizes.

Style	Type size	Line-height	Letter-spacing	Kern setting
Söhne Halbfett	6	130%	0%	metric
Söhne Halbfett	7	130%	0%	metric
Söhne Halbfett	8	130%	0%	metric
Söhne Halbfett	9	130%	0%	metric
Söhne Halbfett	10	130%	0%	metric
Söhne Halbfett	12	130%	0%	metric
Söhne Halbfett	14	130%	0%	metric
Söhne Halbfett	16	130%	0%	metric
Söhne Halbfett	18	130%	0%	metric
Söhne Halbfett	21	130%	0%	metric
Söhne Halbfett	24	120%	-1% (-0.01em)	metric
Söhne Halbfett	28	120%	-1% (-0.01em)	metric
Söhne Halbfett	32	120%	-1% (-0.01em)	metric
Söhne Halbfett	36	120%	-1% (-0.01em)	metric
Söhne Halbfett	42	120%	-1% (-0.01em)	metric
Söhne Halbfett	48	120%	-2% (-0.02em)	metric
Söhne Halbfett	55	110%	-2% (-0.02em)	metric
Söhne Halbfett	64	110%	-2% (-0.02em)	metric
Söhne Halbfett	73	100%	-2% (-0.02em)	metric
Söhne Halbfett	84	100%	-2% (-0.02em)	metric
Söhne Halbfett	96	100%	-2% (-0.02em)	metric



Our typographic system utilizes a very limited set of weights and styles and evokes a sense of simplicity and gravitas.

Signifier Light can be deployed when more brand presence is necessary or for publications and research documents when a more classic feel is appropriate.

Söhne is our workhors sans-serif typeface and works well alongside of Signifier in many instances. Söhne Halbfett can be used to create contrast and texture for typographic elements like eyebrows above a list item or secondary section titles.

Söhne Mono is used sparingly for instances where a more techinical feel is appropriate, like representing Al generated code within a product module on the website.

### Signifier Light Söhne Buch Söhne Halbfett Söhne Mono Buch



### Typography What to avoid

- Avoid extremely tall leading for both heading and body text
- Avoid overly tight leading, with crashing ascenders and descenders, for both heading and body text
- Avoid overly tight tracking, with crashing glyphs
- Avoid overly wide tracking
- Avoid mixed weights or fonts within a single headline.
- Do not set headlines in all caps. Our brand language sets headlines in Sentence Case.

OpenAI is an AI research and deployment company. Our mission is to ensure that artificial general intelligence benefits all of humanity.

OpenAI is an AI research and deployment company. Our mission is to ensure that artificial general intelligence benefits all of humanity.

X

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X

OpenAI is an AI research and deployment company. Our **mission** is to ensure that artificial general intelligence **benefits all** of humanity.

OPENAI IS AN AI RESEARCH AND DEPLOYMENT COMPANY. OUR MISSION IS TO ENSURE THAT ARTIFICIAL GENERAL INTELLIGENCE BENEFITS ALL OF HUMANITY.





X



## Iconography

- 5.1 Introduction
- 5.1 Grid
- 5.2 Weight
- 5.3 Scale
- 5.4 Alignment
- 5.5 Style
- 5.6 Library



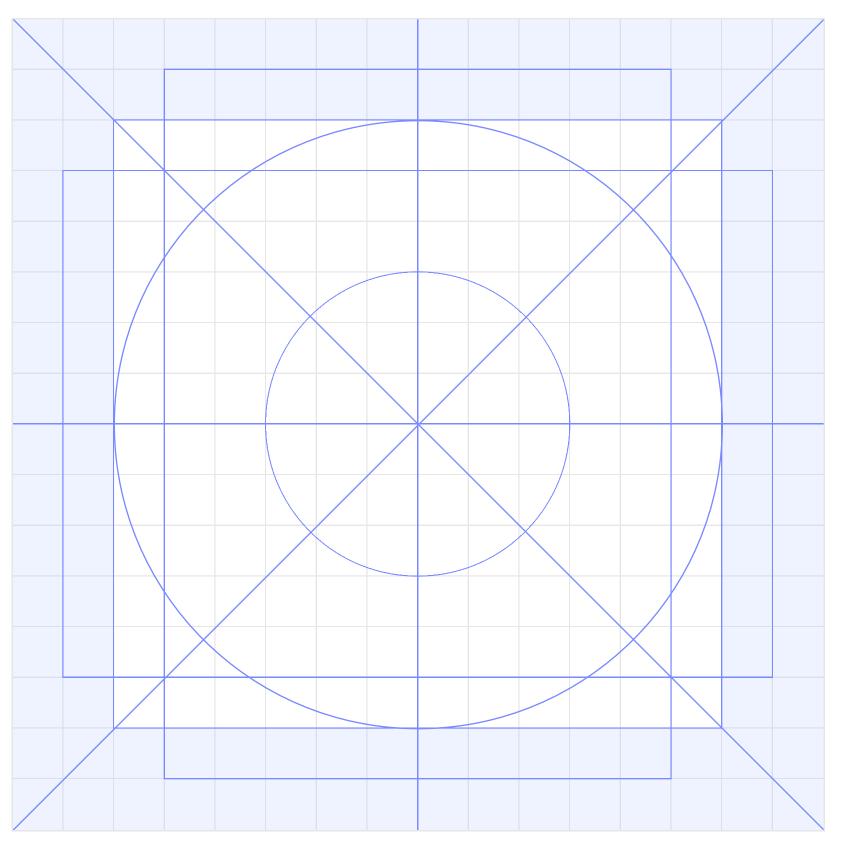
Inspired by our logo and sans-serif typeface Söhne, our iconography utilizes simple forms to efficiently communicate ideas.



### **Iconography**Grid

Our iconography system is crafted on a 16px grid. Be sure to always design your icons based on this grid. Also provided in the diagram to the right is an example of clear space around each glyph, as well as key-lines that should be used to align shapes.

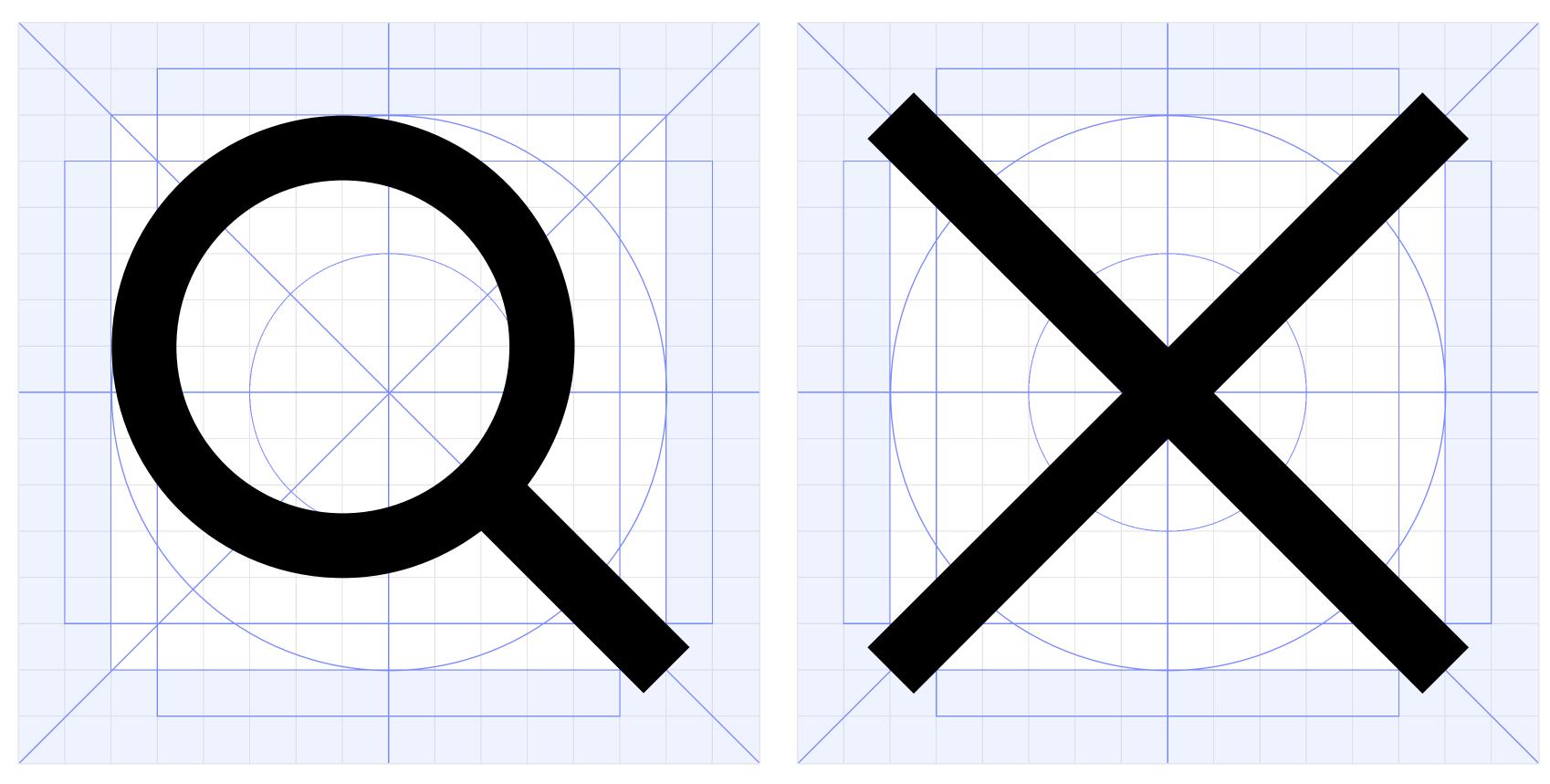
For horizontally proportioned icons used the horizontal key-lines provided. For vertically proportioned icons, be sure to align your shapes to the vertically proportioned key-lines.



Examples of the 16px grid units, key-lines and margins.



Example of icons drawn on the grid.



Shapes align to relevant keylines.

Angles are drawn at 15° increments.

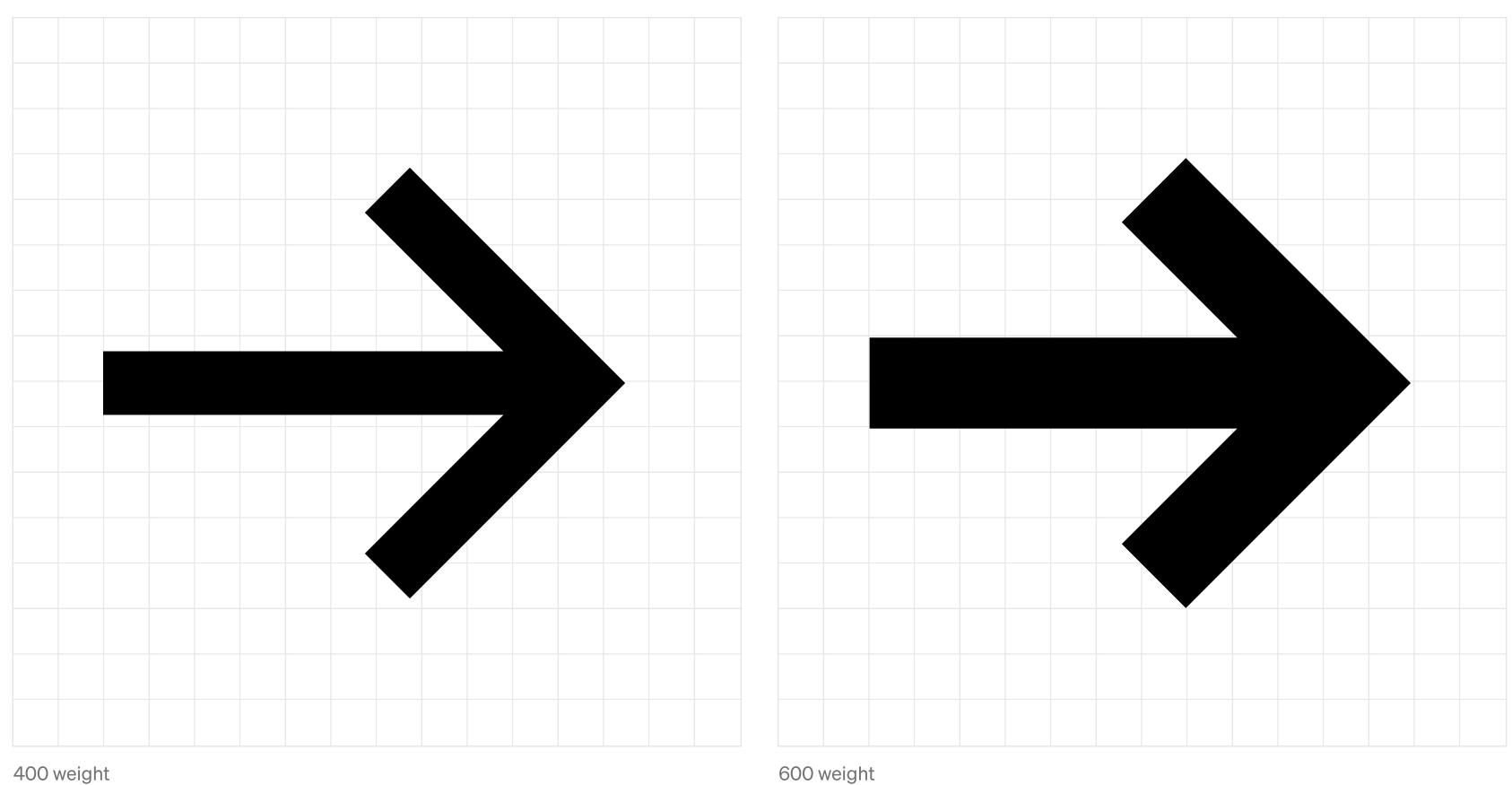


#### Iconography Weight

Our icons use two main strokes weights:

1.4px stroke = 400 weight 2px stroke = 500 weight

Be sure to scale line-weight while adjusting the size of icons. Use the keyboard shortcuts to scale proportionally while maintaining lineweight.



400 weight



### **Iconography** Scale

Our icons use two main stroke weights that scale proportionally with the size of the text and weights that accompany each shape. If you are pairing iconography with Söhne Buch, which is equivalent to a 400 weight, use a 1.4px stroke width.

If you are pairing iconography with text that is set in Söhne Halbfett, the equivalent of a 500 weight, used a 2px.

Söhne Buch 12 →
Söhne Buch 13 →
Söhne Buch 14 →
Söhne Buch 15 →
Söhne Buch 16 →
Söhne Buch 18 →
Söhne Buch 21 →
Söhne Buch 24 →
Söhne Buch 24 →
Söhne Buch 28 →

Söhne Buch 32 →
Söhne Buch 36 →

Söhne Buch 42 →

Söhne Buch 48 →

Söhne Buch 54 →

Söhne Buch 60 →

Söhne Buch 72→

Söhne Kräftig 12 →

Söhne Kräftig 13 →

Söhne Kräftig 14 →

Söhne Kräftig 15 →

Söhne Kräftig 16 →

Söhne Kräftig 18 →

Söhne Kräftig 21 →

Söhne Kräftig 24 →

Söhne Kräftig 28 →

Söhne Kräftig 32 →

Söhne Kräftig 36 →

Söhne Kräftig 42 →

Söhne Kräftig 48 →

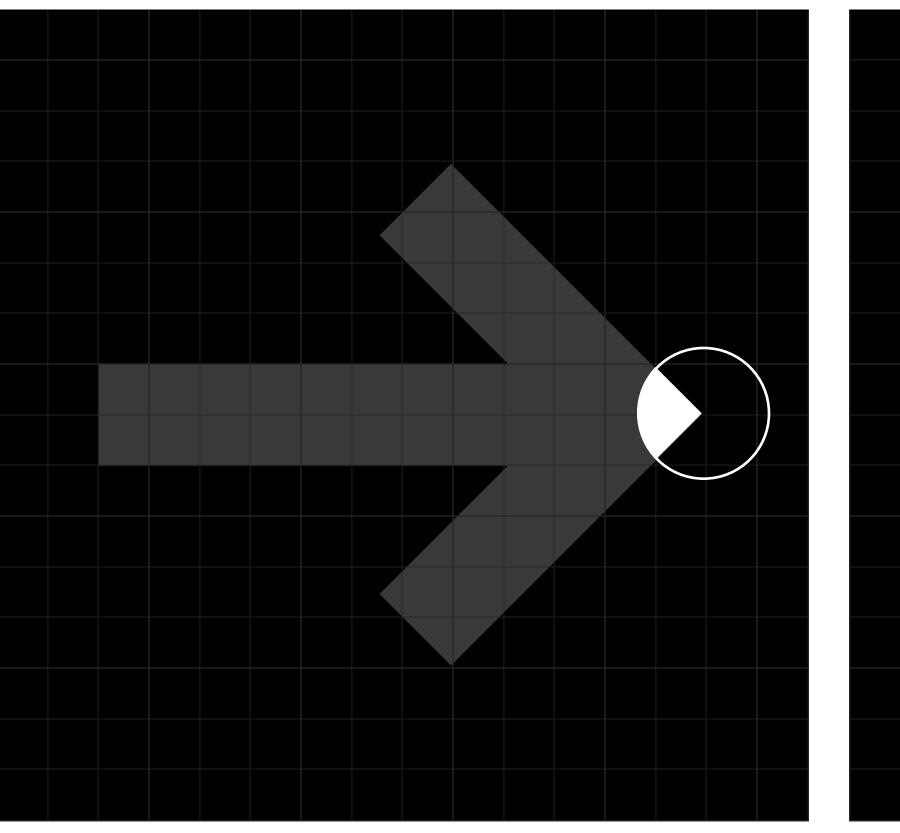
Söhne Kräftig 54 →

Söhne Kräftig 60 →

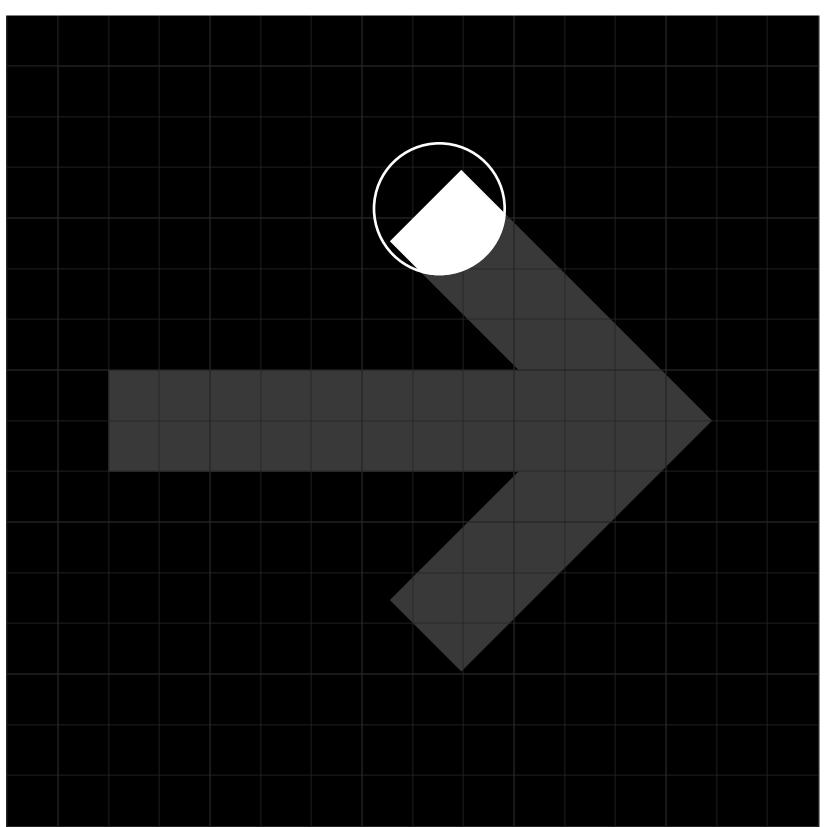
Söhne Kräftig 72 →



#### Mitered caps





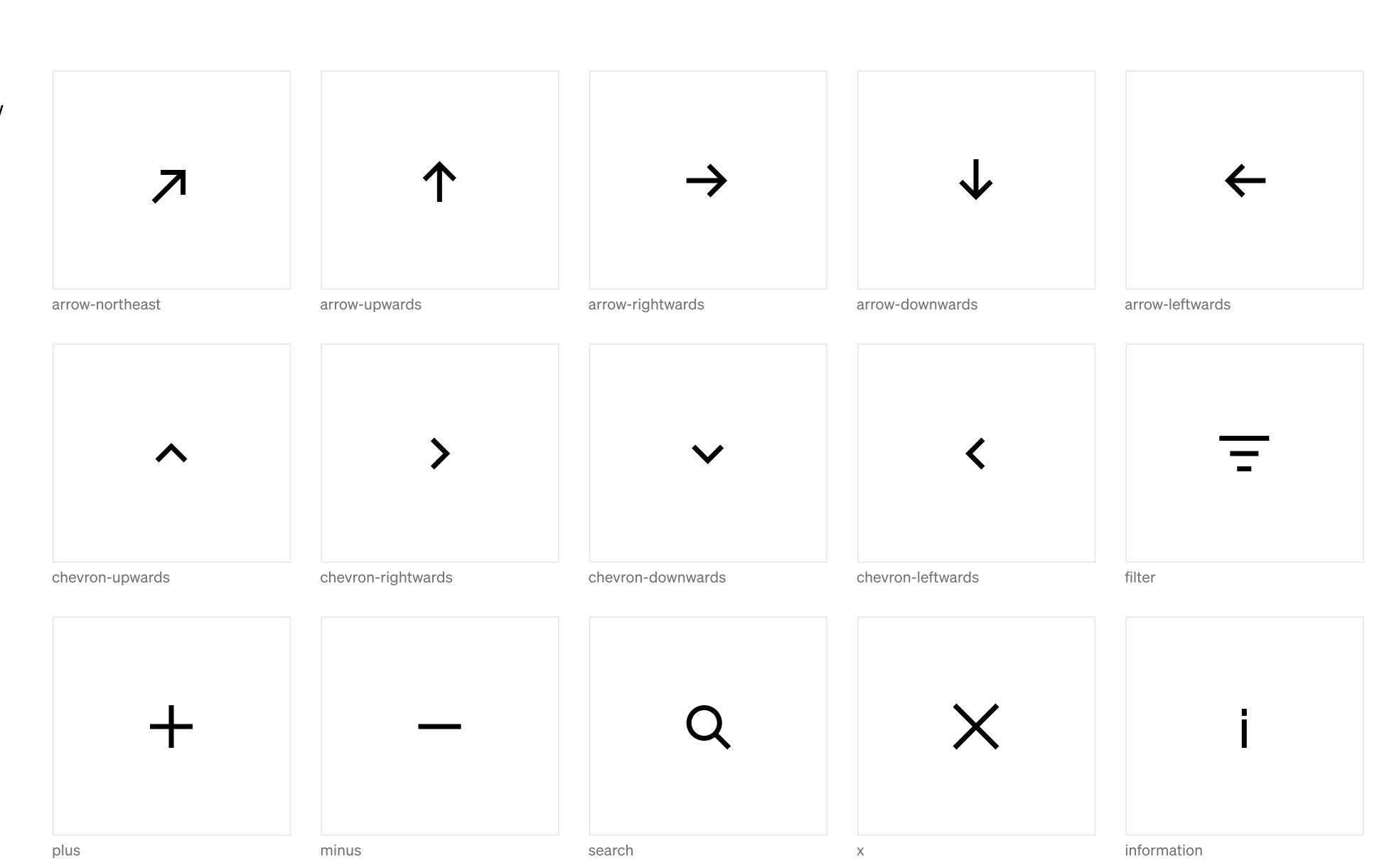


Use butted caps for stroke endings.



### **Iconography**Library

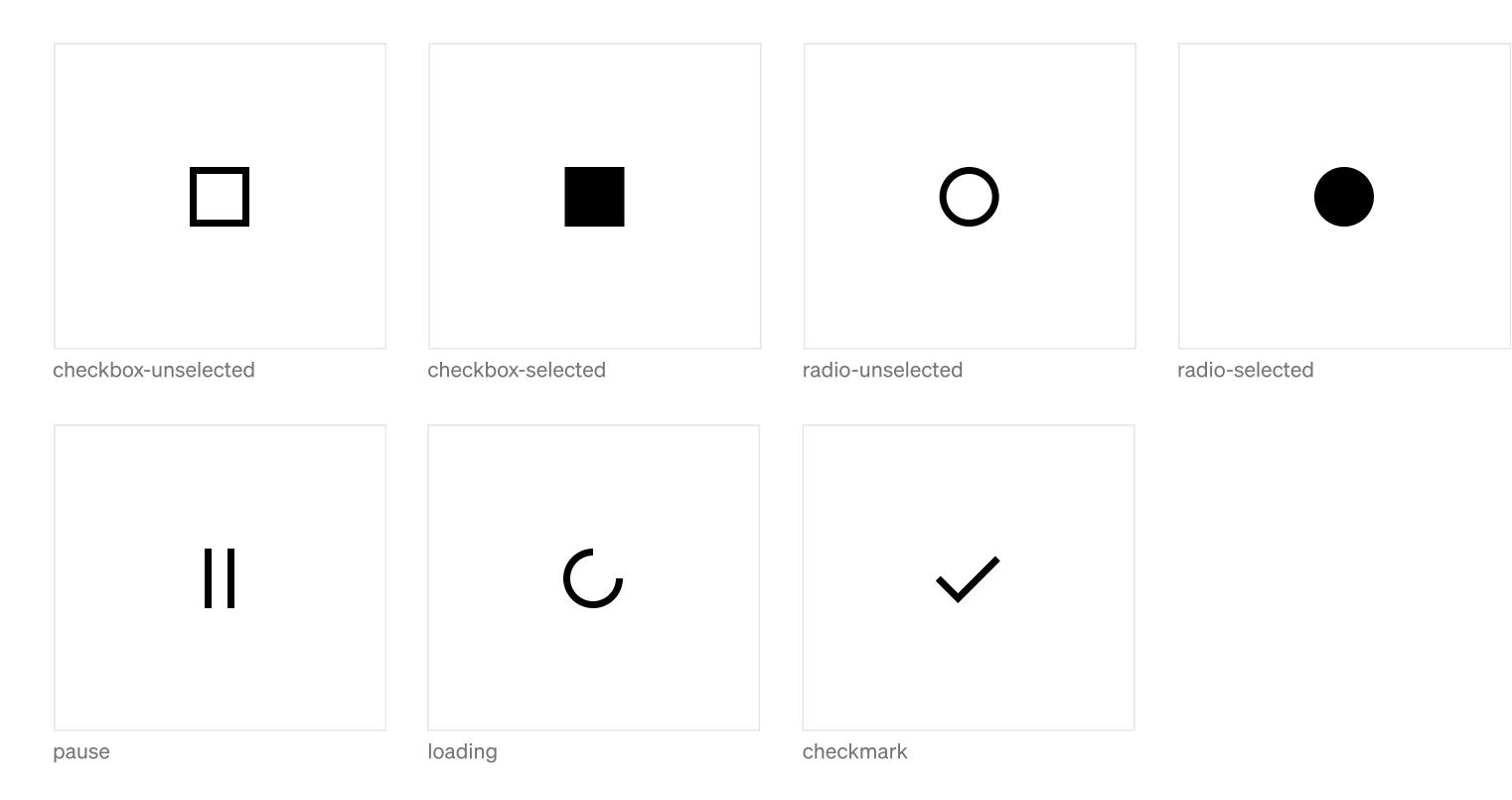
A diverse set of iconography can be referenced here. As you design and add new icons to the system, please ensure the style and characteristics feel cohesive with the existing iconography.





### **Iconography**Library

Our iconography is minimalistic, and explores the simplest shapes needed to communicate an idea. For example, a checkbox is a stroked square and a filled square. A radio button is a stroked circle and a filled circle



play



## Photography

- 6.1 Introduction
- 6.2 Color
- 6.3 Composition
- 6.4 Elements
- 6.5 Light and shadow
- 6.6 Al generated

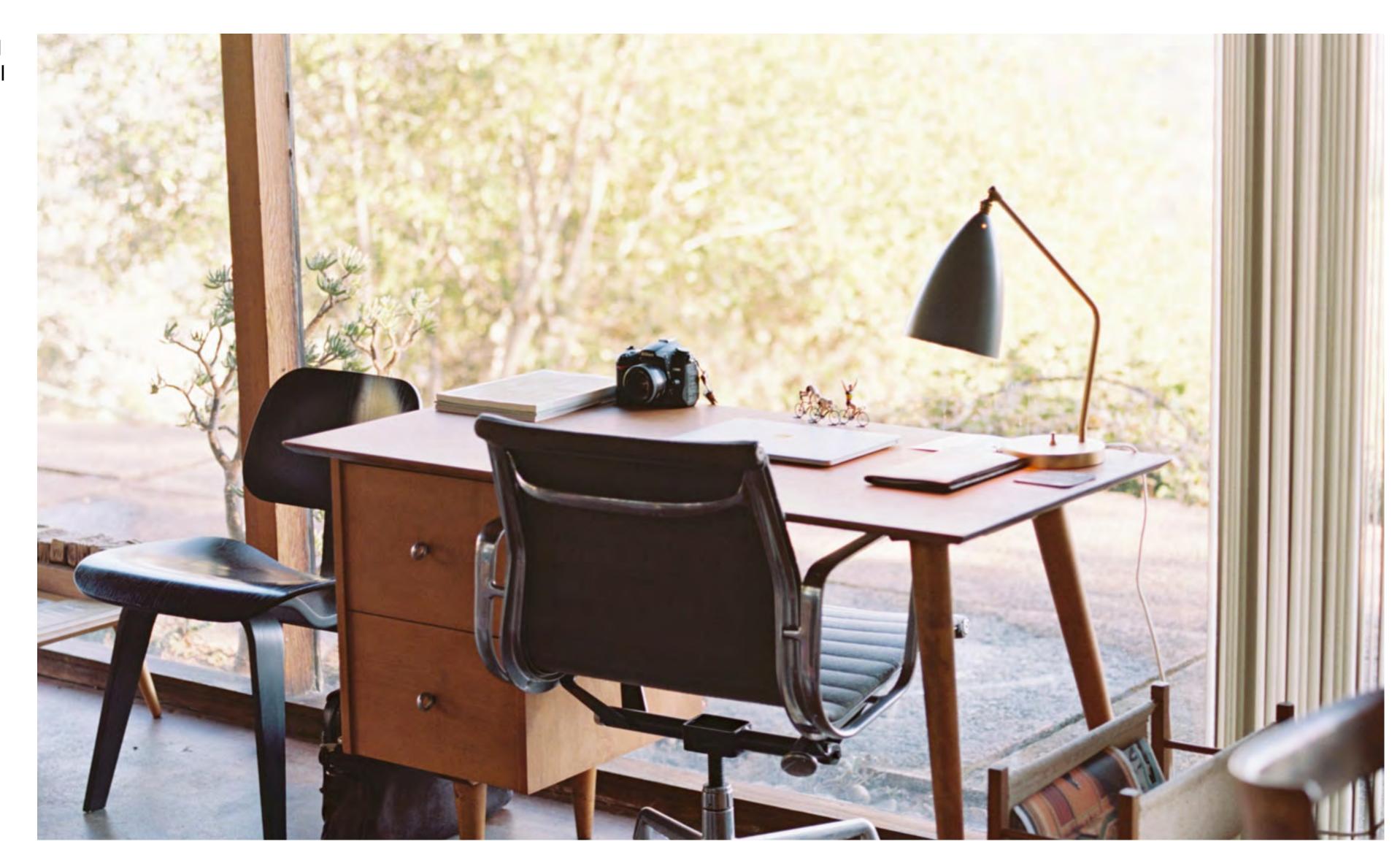


Our photography expresses warmth, approachability, and humanity. We capture the intimate and messy moments that showcase real people behind our technology and products.



Color

The color and tone of the photography should be rich and warm. This will evoke an emotional feeling of our impact on humanity and all that we do to empower people. The white balance should skew slightly toward an amber color temperature and magenta tint.





# Photography Color: do's

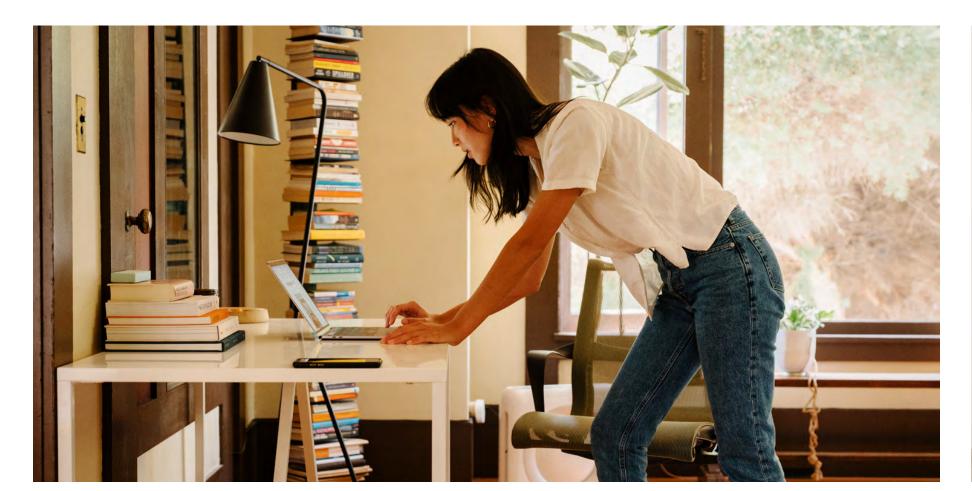
Here are some guiding principles when creating photography assets. They're not hard and fast rules, nor a complete set, but are provided as a starting point for you to consider when shooting imagery to be used for print or digital collateral.

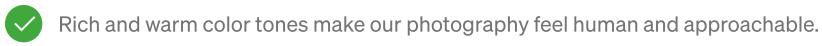






Play with light and shadow to create visual interest.











# Photography Color: dont's

Here are some guiding principles when creating photography assets. They're not hard and fast rules, nor a complete set, but are provided as a starting point for you to consider when shooting imagery to be used for print or digital collateral.

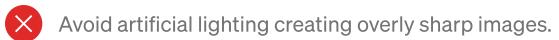






Avoid lighting that makes skin color appear unnatural.





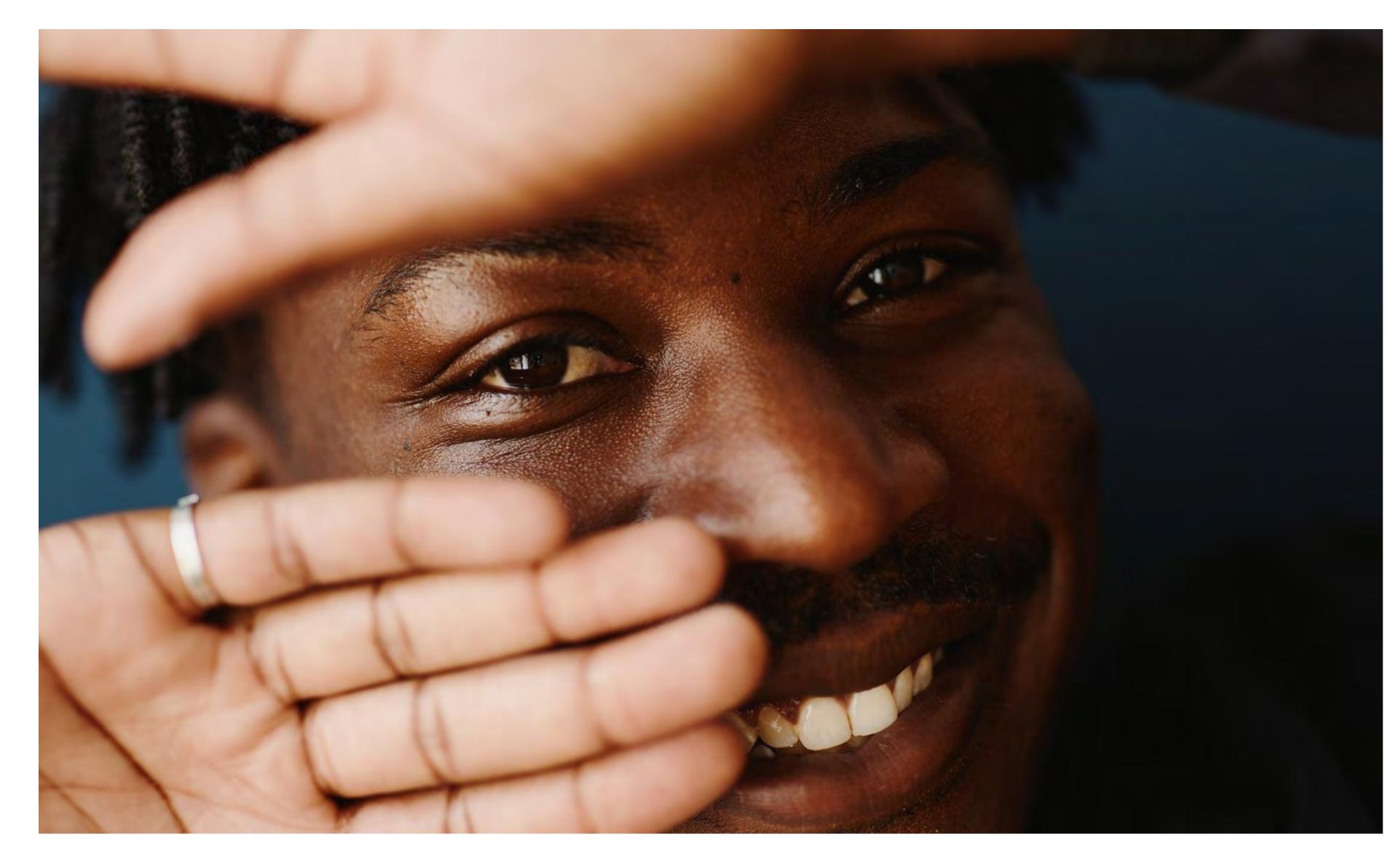






# Photography Composition

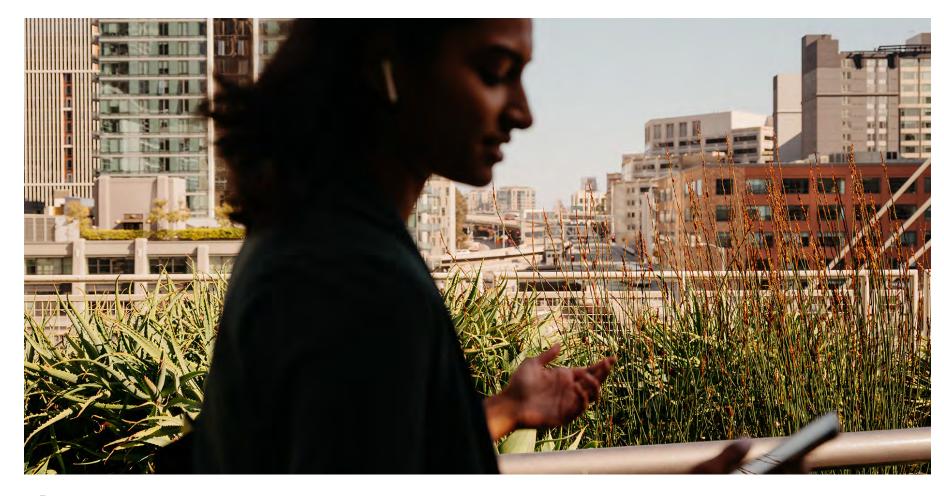
The composition we use will immediately invoke a feeling to the viewer. Use these guiding principles to ensure our photography work aligns with our design values.



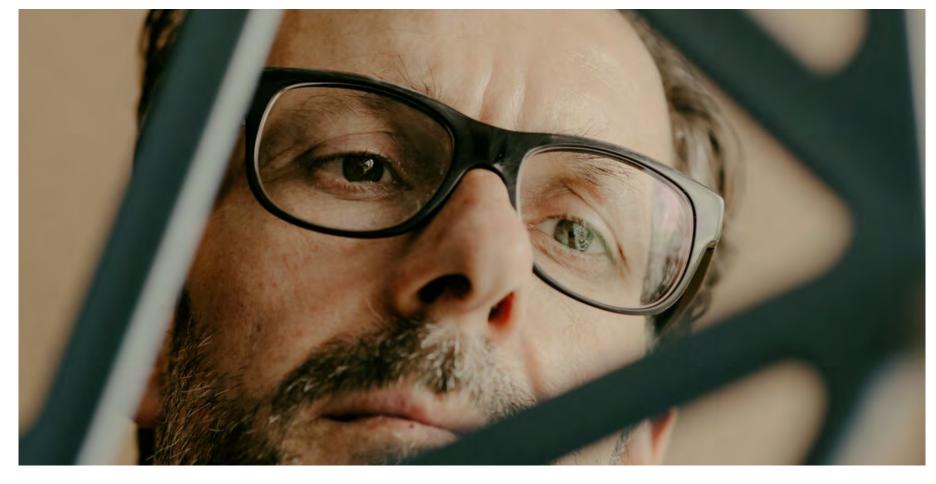


Composition: do's

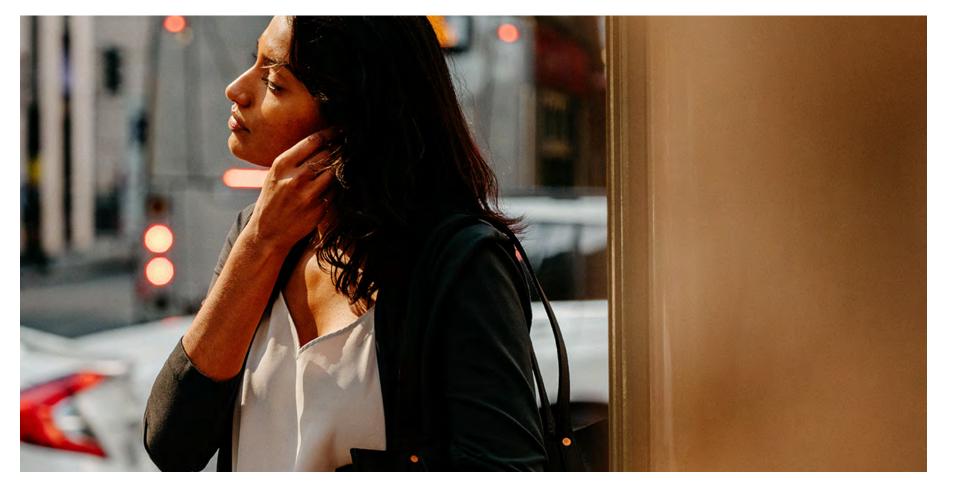
Here are some guiding principles or examples of compositions to inspire future photo work.







Objects in the foreground add a sense of depth and intrigue.









Reflections create a dynamic composition and evokes a sense of magic.

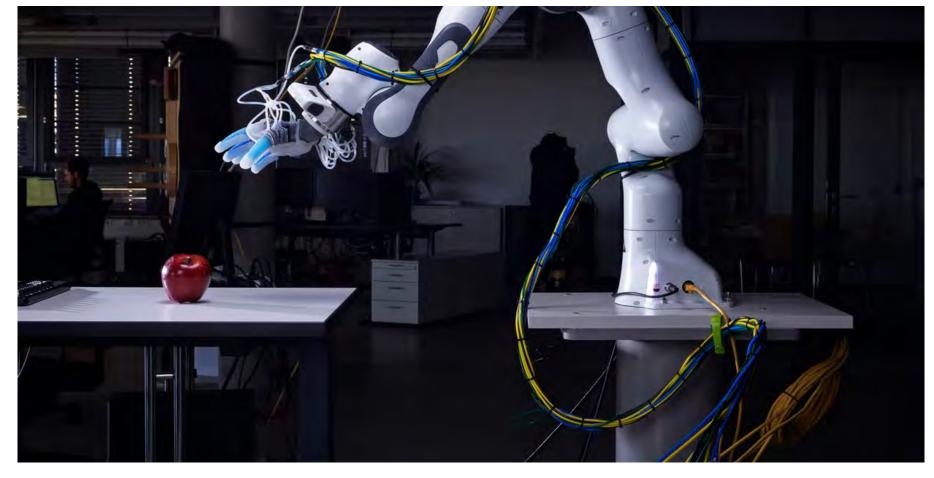


Composition: dont's

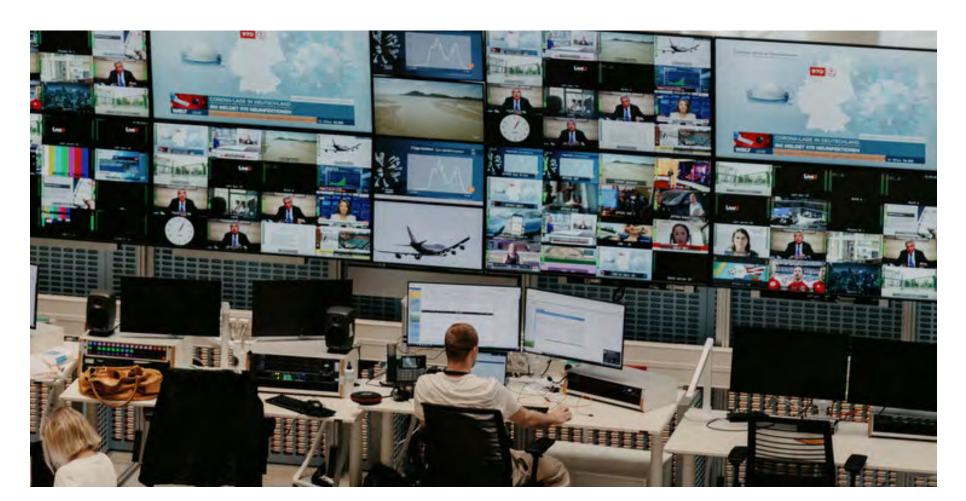
Here are examples of types of imagery to avoid.







Avoid images that do not include people.









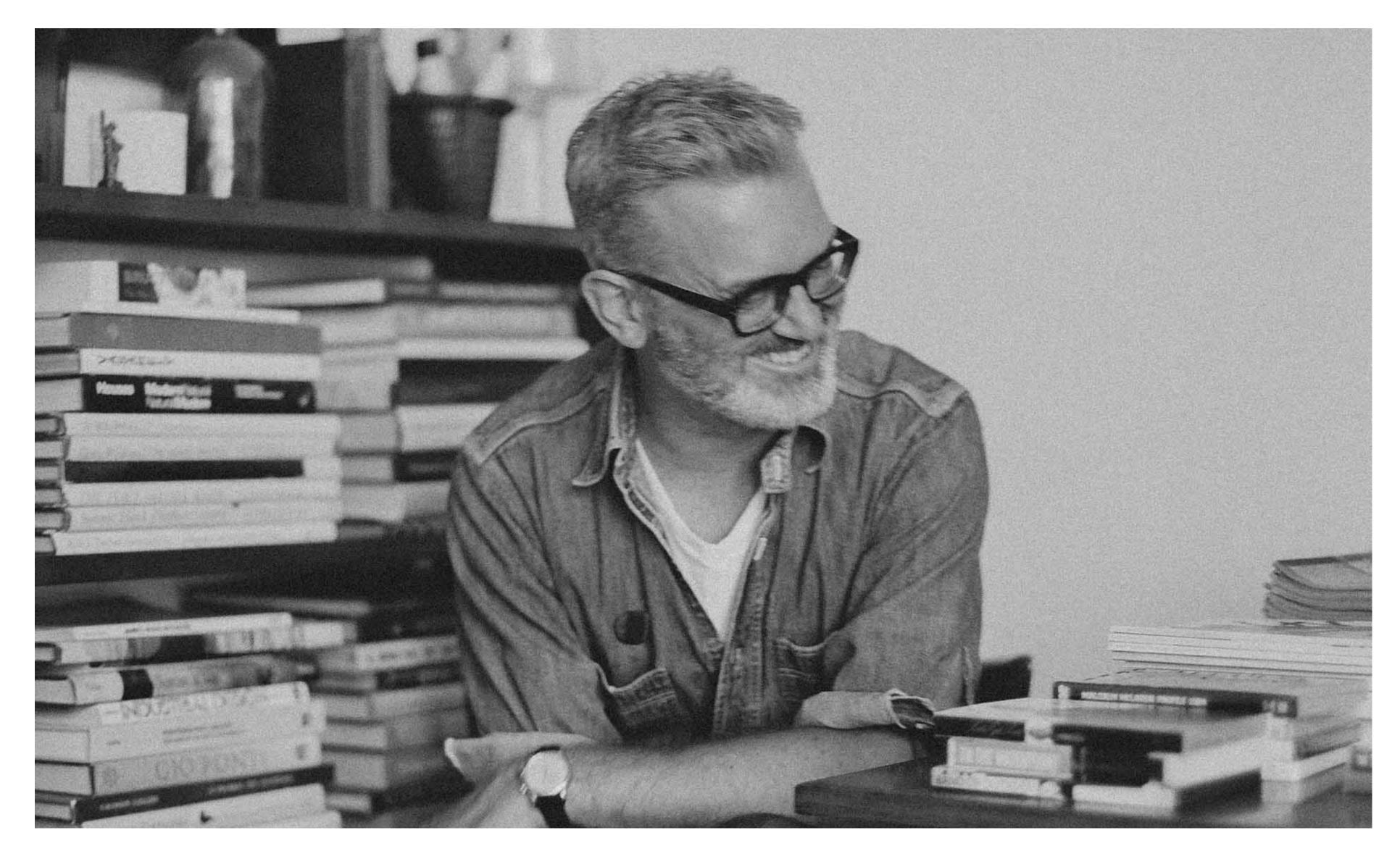




### Photography Elements

Like all of the brand elements from typography to color to photography, our choices should always tie back to our brand values. We can use photography to dial up the approachability and allure of the OpenAl brand.

To do this we leverage elements native to analog photography. These include elements such as, visible grain, overly-high contrast of images, and minor imperfections such as soft focus.

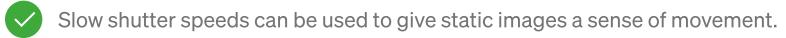


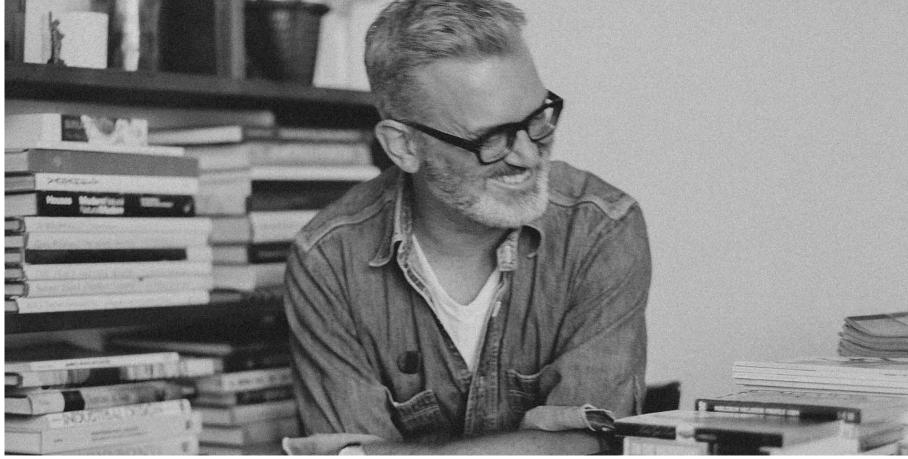


# Photography Elements: do's

These examples show various ways in which we can use photography to invoke allure and approachability.







Out of focuse elements adds softness to an image.



A high amount of grain is a nod to analog photography without over doing it.



Shooting with film ensures our photography doesn't feel overly perfect or too sterile.



# **Photography** Elements: dont's

Our photography style takes cues from film photography, but as a way of showing precision and finesse, we should avoid over stylizing photography.





X Avoid light leaks.







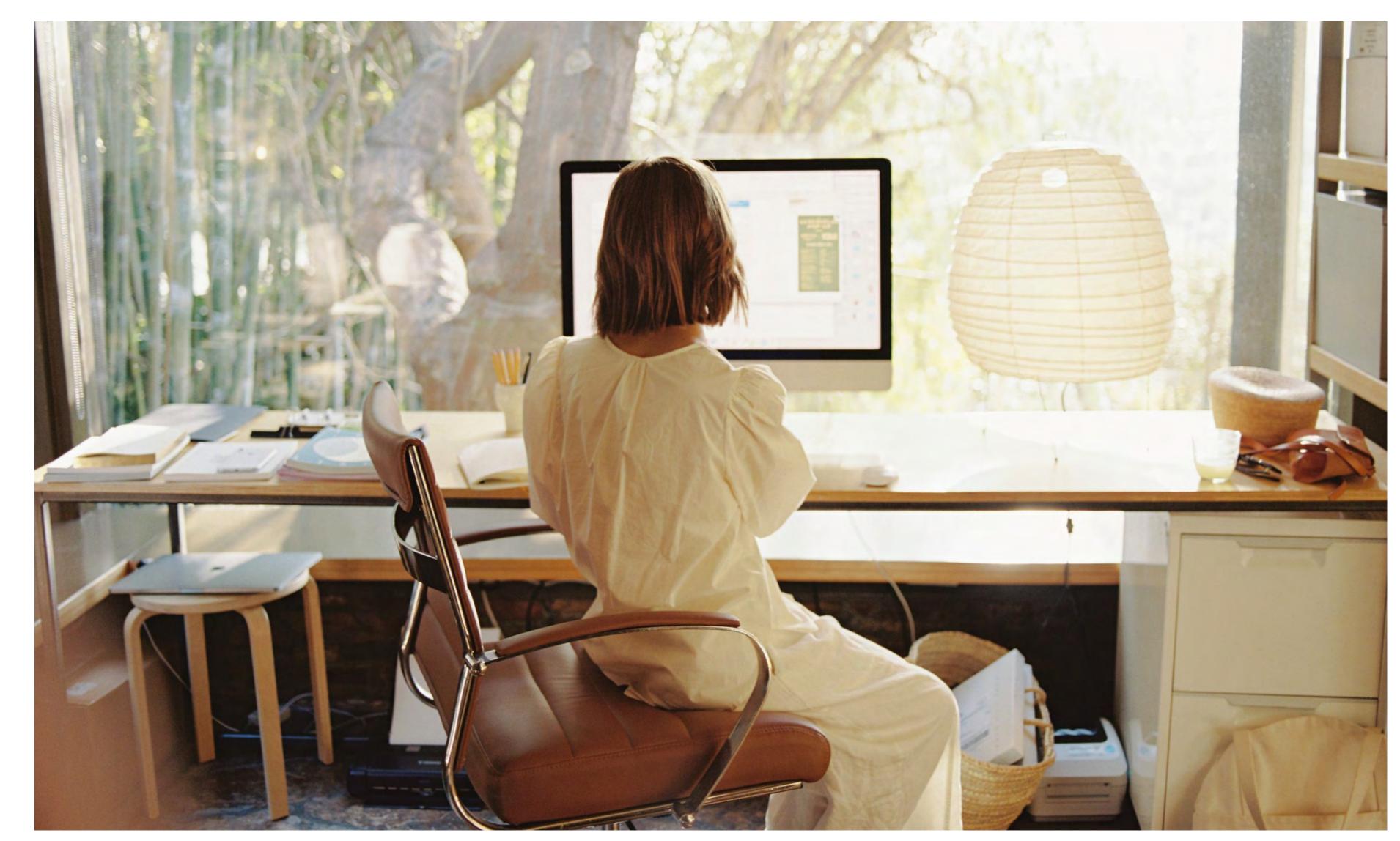
Avoid over stylized image that create a sense of busyness.





Light and shadow

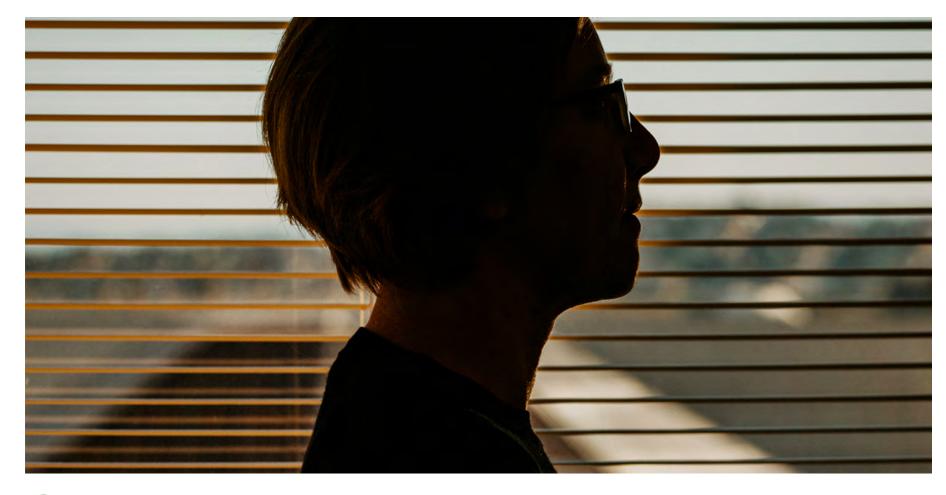
Our photography should feel natural. To achieve this effect we rely on natural lighting whenever possible. The color temperature of daylight skews towards the warmer end of the color spectrum.





Light and shadow: do's

The color and tone of the photography should be rich and warm. This will evoke an emotional feeling of our impact on humanity and all that we do to empower people. The white balance should skew slightly toward an amber color temperature and magenta tint.







Utilize natural light sources to bring warmth to imagery.







Light and shadow: dont's

As a general guideline, try to avoid using staged lighting. It makes the photo work feel unnatural and the color temperature of manmade light sources often skew towards the cool end of the color temperature spectrum.







Avoid mixing various light sources. Multiple light sources create multiple shadows and an unnatural feeling.







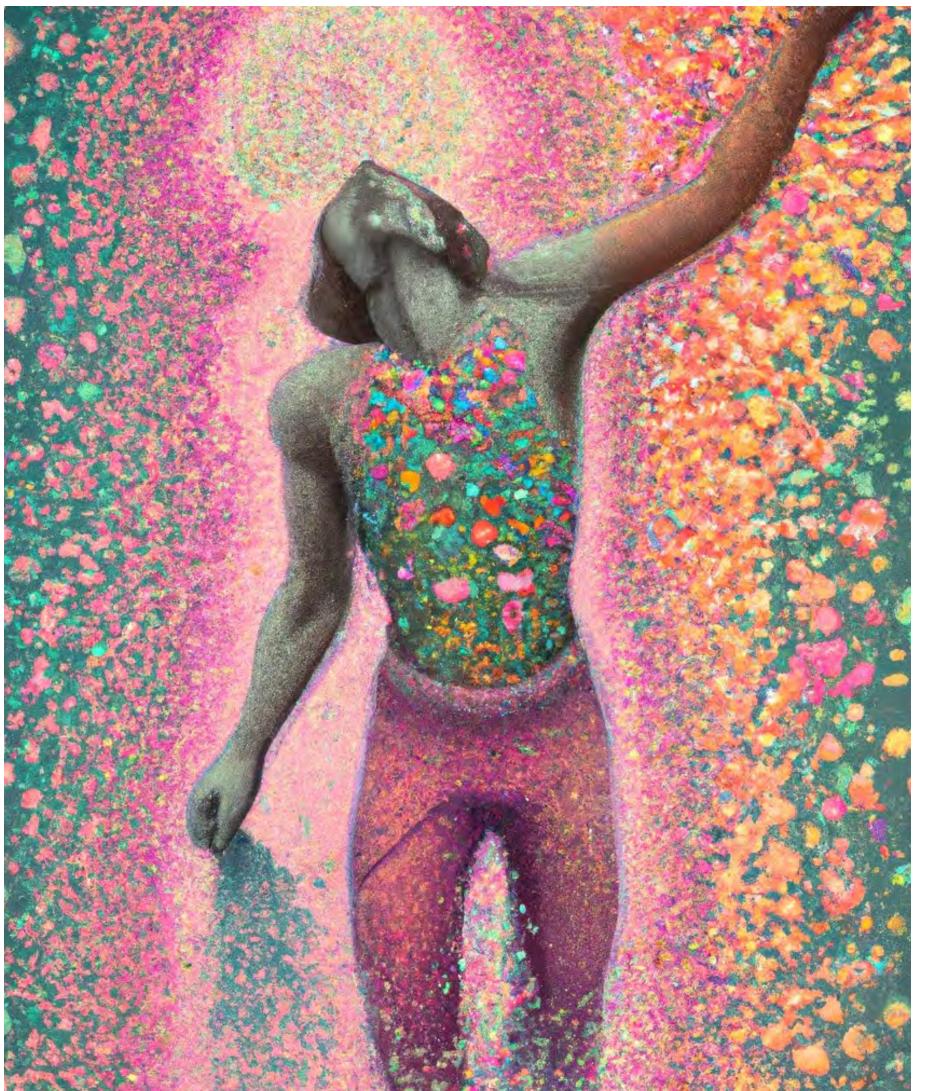






# Photography Al generated

When photography assets are not available, DALL-E can be used as an alternative. Do use abstract compositions, or assets created in a non-photo realistic style. DALL-E is great at that. Use caution when using DALL-E to create photo realistic assets as they can appear unnatural to the human eye







- 7.1 Introduction
- 7.2 Grid lines and markers
- 7.3 Spacing
- 7.4 Primary colors
- 7.5 Secondary colors
- **7.6** Tertiarty colors
- 7.7 Lines
- 7.8 Bar and column charts
- 7.9 Line charts
- 7.10 Area charts
- 7.11 Pie and donut charts



Data visualizations should employ principles of minimalism and reduction. A data visualization first and foremost has to accurately convey the data. It must not mislead or distort.

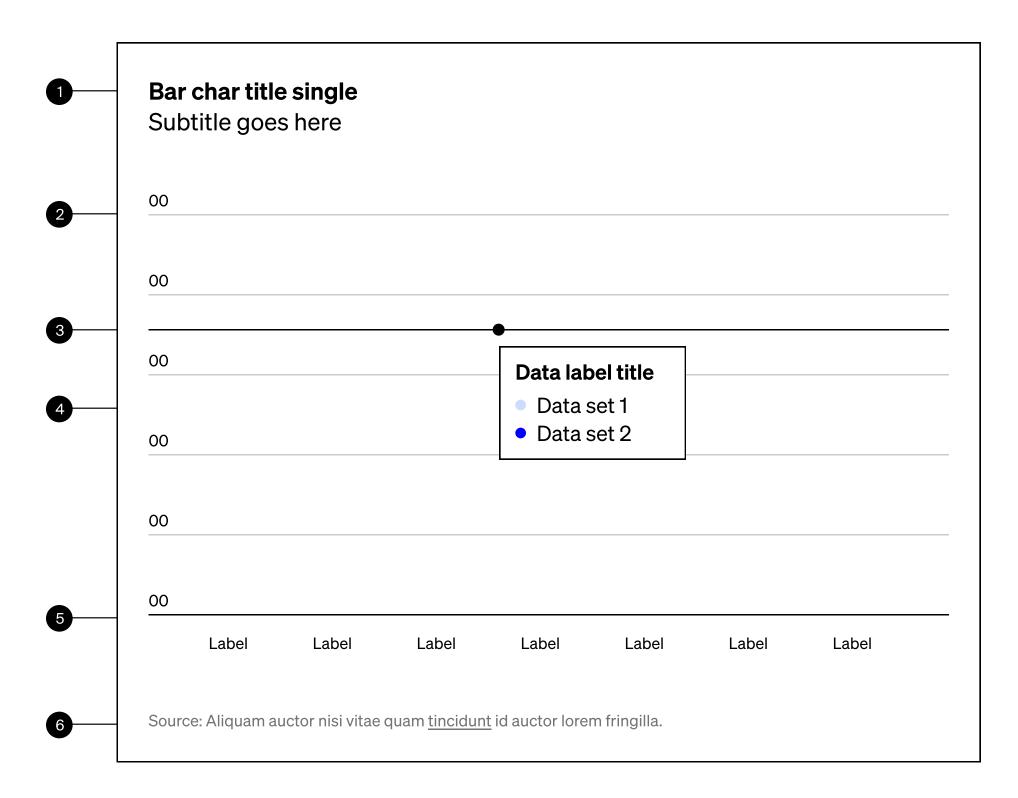


#### **7.2**

#### **Data visualization**

Grid lines and markers

The following guidelines are intended for digital applications. All measurements are in pixels and distances are measured from text box edges in CSS to other text boxes or object edges. The grid is based on the large breakpoint and the body container width of 648 pixels.



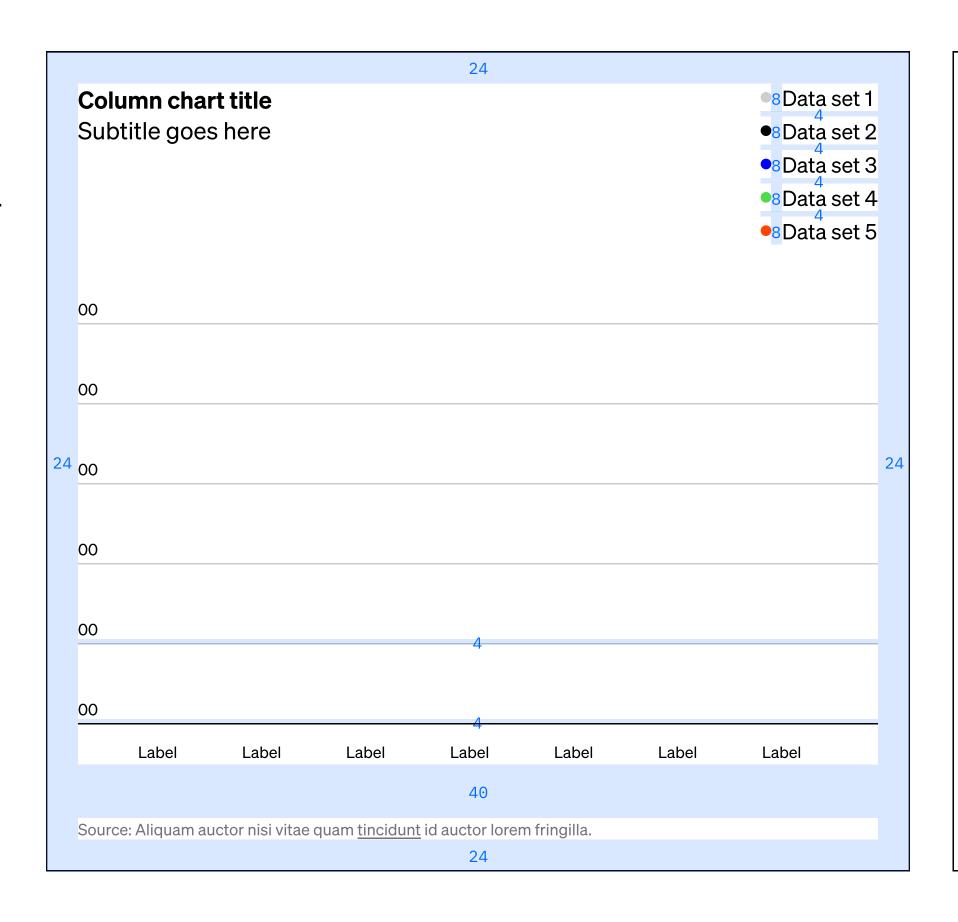
Line	Weight	Color
Border	1px	gray-900, 20%
Grid	1px	gray-900, 20%
Marker	1px	gray-900
Box	1px	gray-900
Baseline	1px	gray-900, 20%
Caption		gray-900, 20

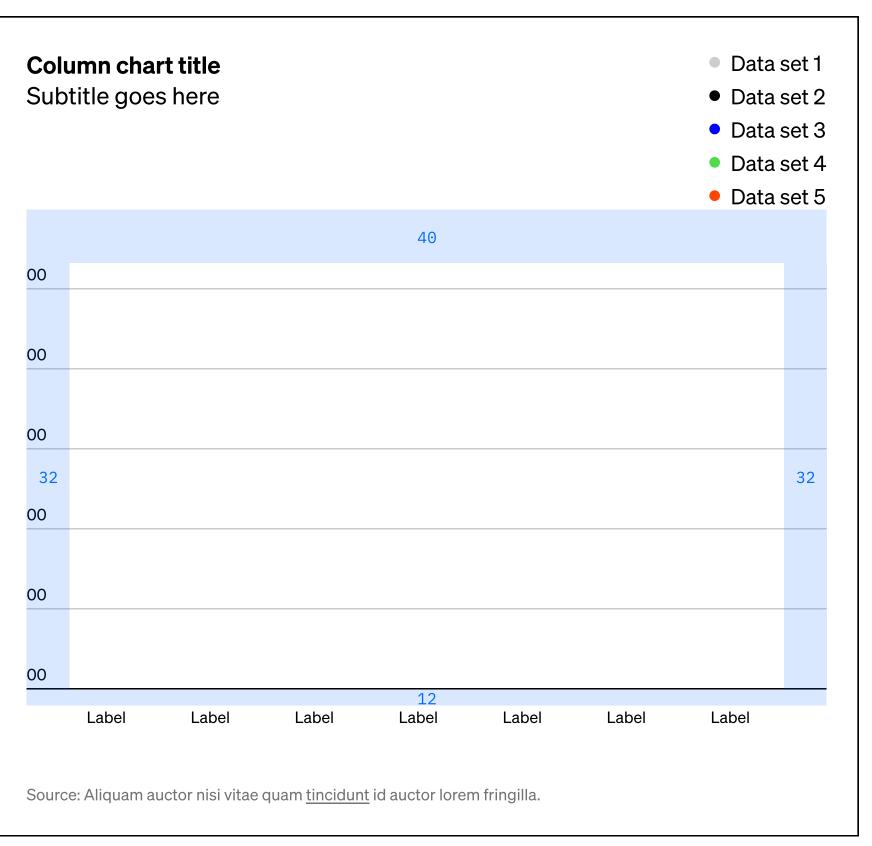


Spacing

The recommendation is to place charts within a stroked area. This creates an anchoring mechanism to ensure charts feel grounded in the composition when surrounded by body copy. There should be 24px between the outer stroke of the chart and the interior contents.

To ensure there is sufficient room to read labels and understand the charts, it is recommended that there be 32px between the left and right edges of the chart and any data visualization.



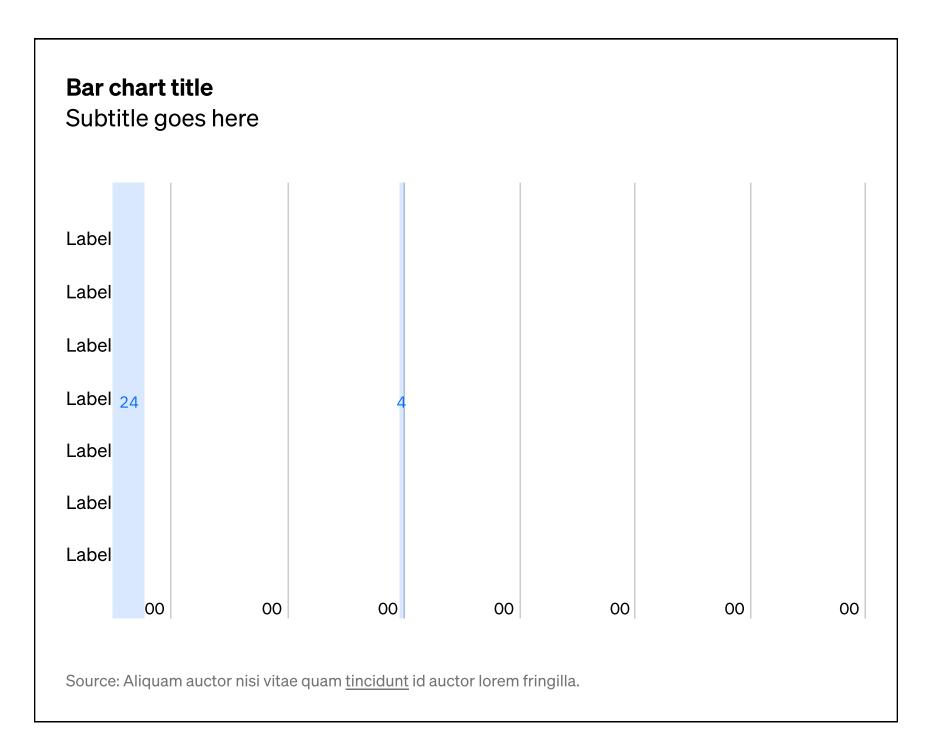


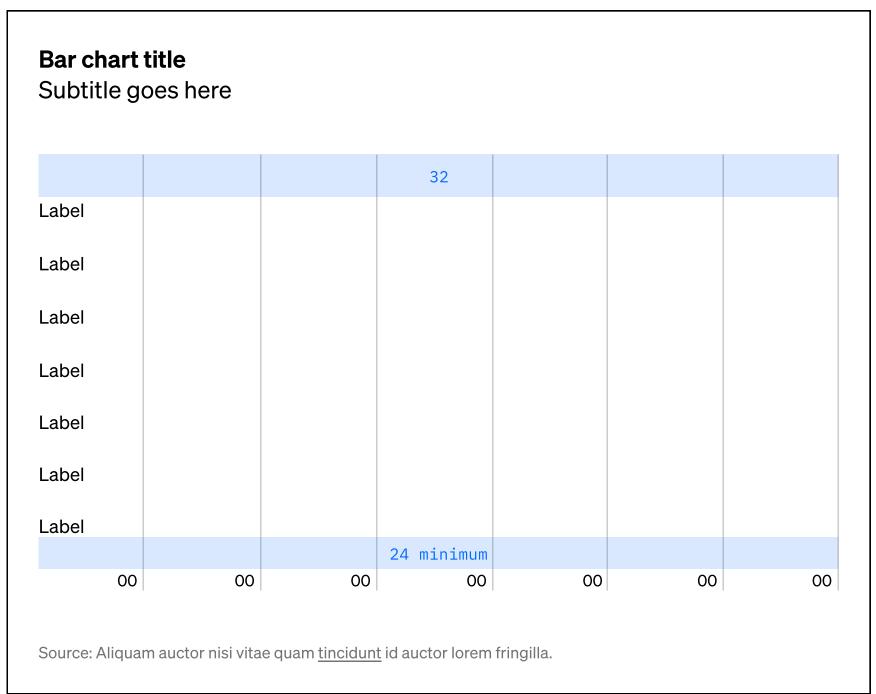


Spacing

When using a bar chart, ensure that there is 24px of spacing between the right edge of the labels and the vertical data markers. Labels should be 4px from all vertical markers.

To ensure legibility there must be a vertical minimum of 24px between the x-axis labels and y-axis labels. As designers use your discretion if more is needed.







Primary colors

The primary colors are the preferred way to represent data within a chart or graph. Red, green, and blue can be used as accent colors and are provided for scenarios where more contrast and depth is needed to highlight a specific data set.

The accent colors can be used alongside of gray shades to represent multiple data points.

red-700		
green-600		
blue-600		
gray-900		
gray-800		
gray-700		
gray-600		
gray-500		
gray-400		
gray-300		
gray-200		
gray-100		



Secondary colors

Secondary colors can be used to supplement primary colors or for when more contrast is needed to adequetly represent the data. The primary colors are the preferred color system for most data visualizations.

Try to use color sparingly. Too much color or colors with too little contrast confuses to reader and misrepresents the data you are trying to communicate.

yellow-400

magenta-500

cyan-600



Secondary colors

Yellow shades and tints.

Shades and tints have been provided for scenarios where more color depth is needed.

yellow-900

yellow-800

yellow-400

yellow-200

yellow-100



Secondary colors

Megenta shades and tints

magenta-900

magenta-900-800

magenta-500

magenta-200

magenta-100



Secondary colors

Cyan shades and tints

cyan-900

cyan-800

cyan-600

cyan-200

cyan-100



Tertiary colors

Tertiary colors can be used to supplement primary and secondary colors when more contrast is needed to adequetly represent the data. The primary colors are the preferred color system for most data visualizations.

orange-600

violet-700

brown-600



Tertiary colors

Orange shades and tints

orange-900

orange-800

orange-600

orange-200

orange-100



Tertiary colors

Violet shades and tints



violet-800

violet-700

violet-200

violet-100



Tertiary colors

Brown shades and tints

brown-900

brown-800

brown-600

brown-200

brown-100



Lines

Singular lines should be used when the goal of the visualization is to show an overall correlation of data and when individual values within the data are not important.

Lines with markers can be used to show both overall correlation within the data and further highlight specific values within the data. Line stroke width should be 2px and the circular markers should be 8px on digital platforms.

Lines	Lines with markers		
red-700			
green-600			
blue-600			
gray-900			
gray-600			
gray-400			
yellow-400			
magenta-500			
cyan-600			
orange-600			
violet-700			
brown-600			



7.7

#### Data visualization

Lines: with fill

Area charts come in several varieties, including stacked area charts and overlapped area charts:

- Stacked area charts show multiple time series (over the same time period) stacked on top of one another
- Overlapped area charts show multiple time series (over the same time period) overlapping one another

Lines with fill

Line: red-700 / fill: red-700, 10% opacity

Line: green-600 / fill: green-600, 10% opacity

Line: blue-600 / fill: blue-600, 10% opacity

Line:gray-900 / fill: gray-900, 10% opacity

Line: gray-600 / fill: gray-600, 10% opacity

Line: gray-400 / fill: gray-400, 10% opacity

Line: yellow-400 / fill: yellow-400, 10% opacity

Line: magenta-700 / fill: magenta-700, 10% opacity

Line: cyan-600 / fill: cyan-600, 10% opacity

Line: orange-600 / fill: orange-600, 10% opacity

Line: violet-700 / fill: violet-700, 10% opacity

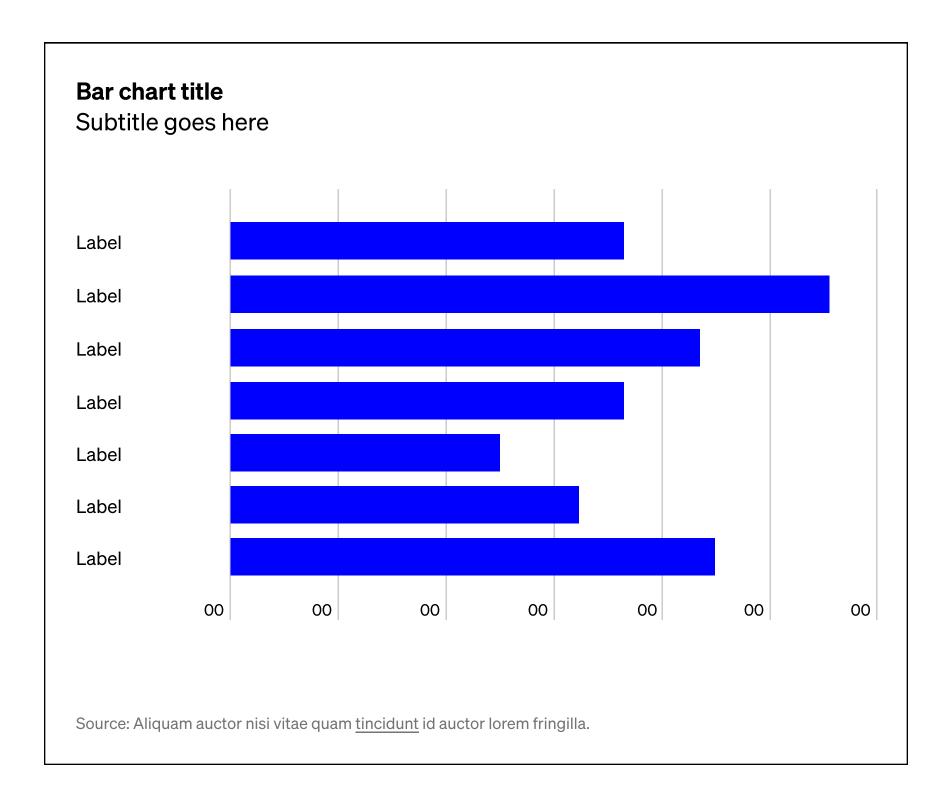
Line: brown-600 / fill: brown-600, 10% opacity

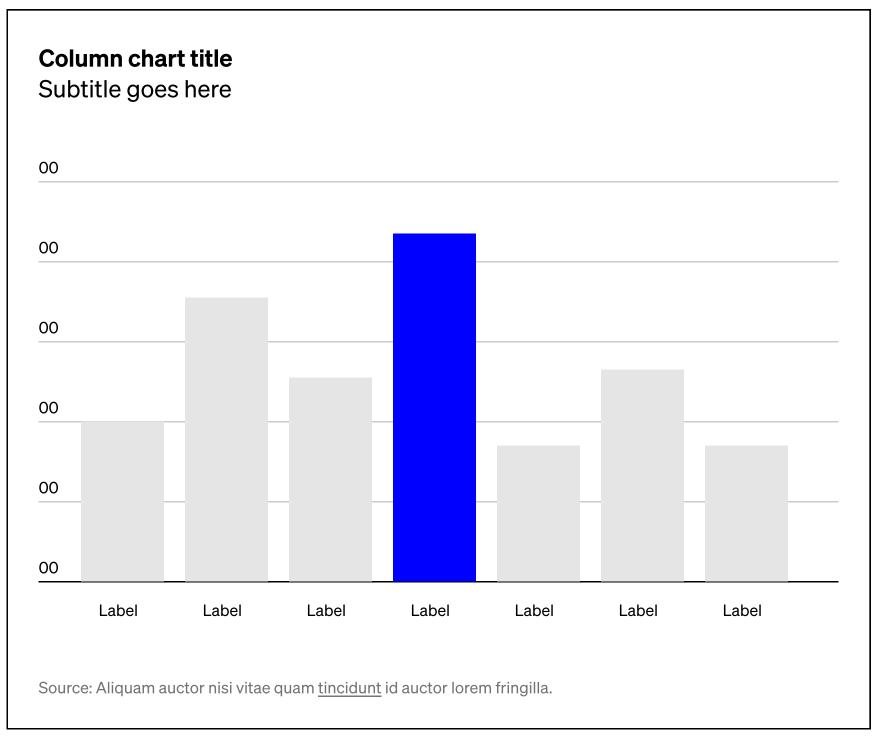


Bar and column charts

A bar chart presents categorical data with rectangular bars with heights or lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally.

The column chart is a common variant of a bar chart, used to compare ordinal values. As a general rule, the width should be twice the width of the space between the bars.

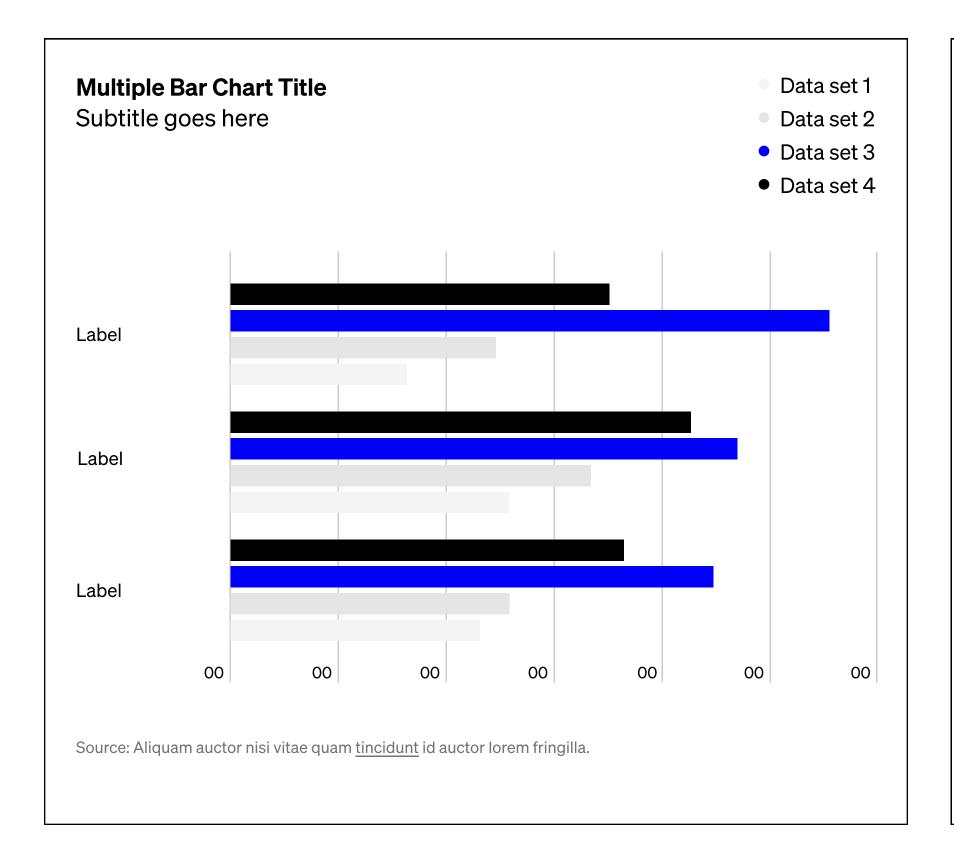


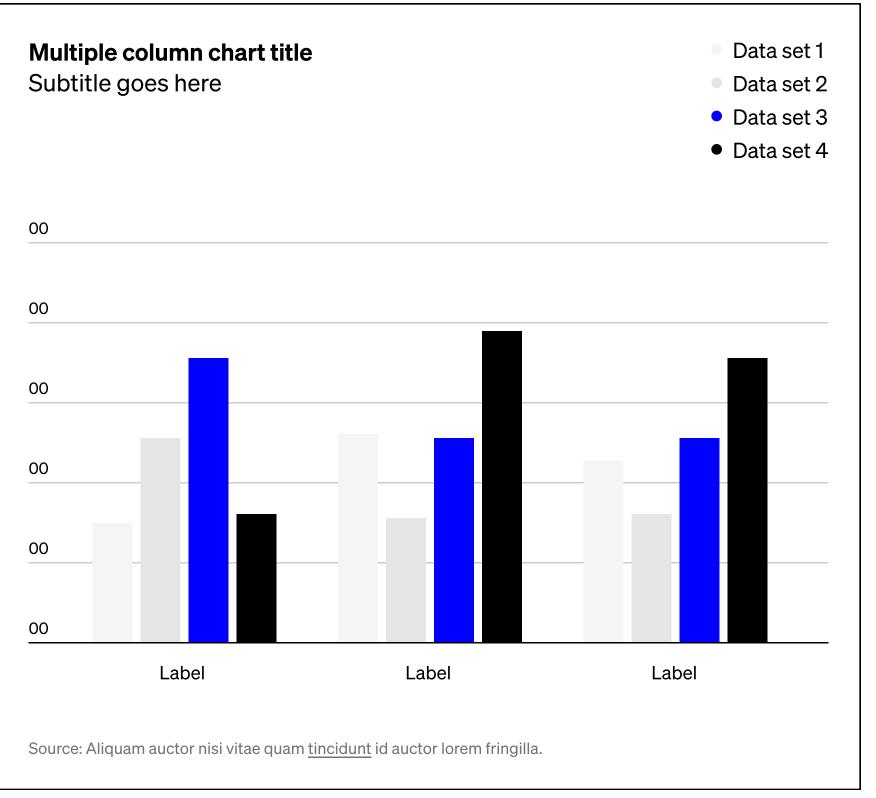




Bar and column charts (multiple bars)

Alternating light and dark bars for bar charts makes it difficult to compare data. Shade bars from lightest to darkest to make comparison easier.



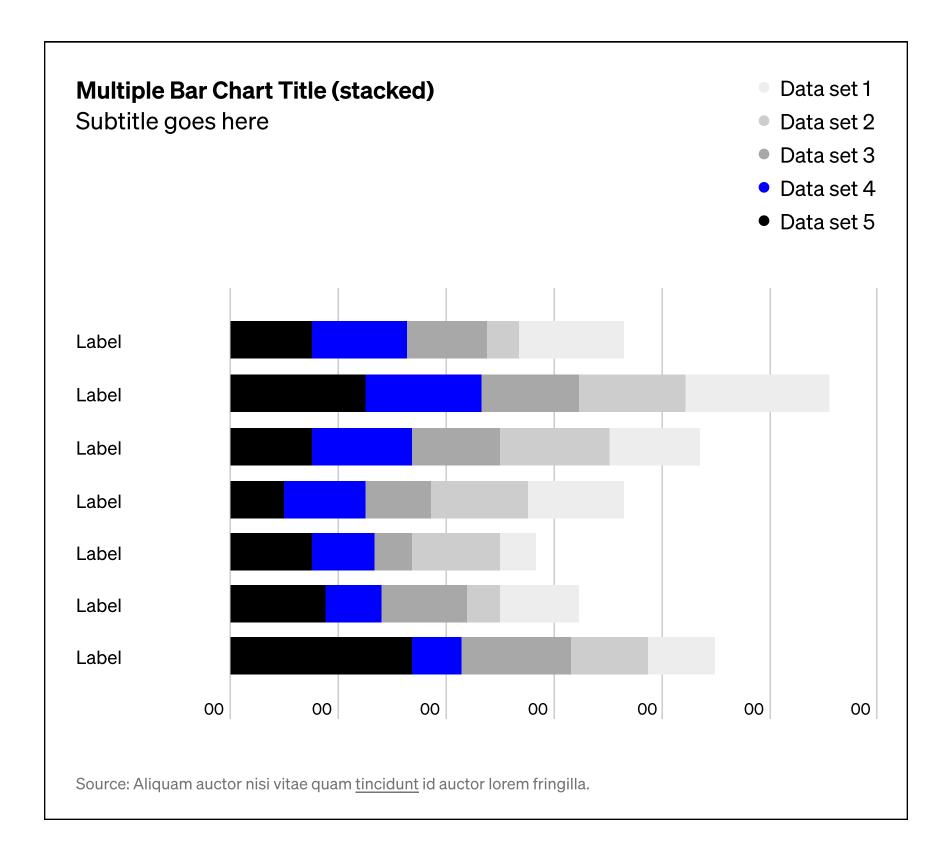


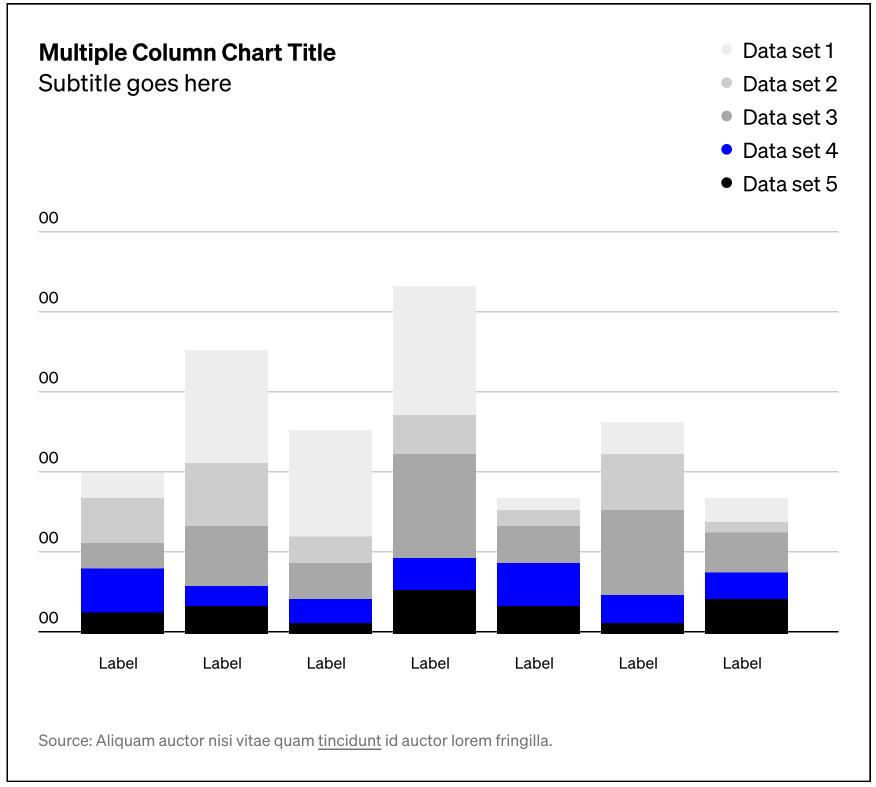


Bar and column charts (stacked)

Stacked bar charts are good for showing group relationships and value differences across more complex categories and subcategories.

Stacked column charts can also be used to show group relationships within subsets of ordinal data.

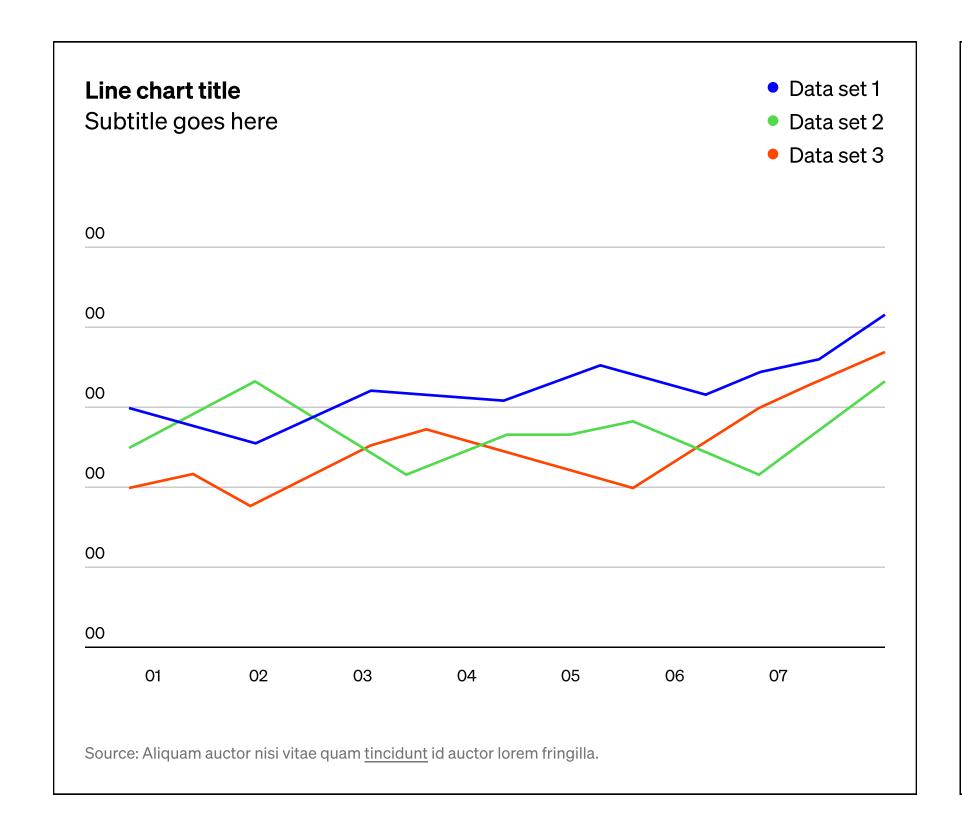


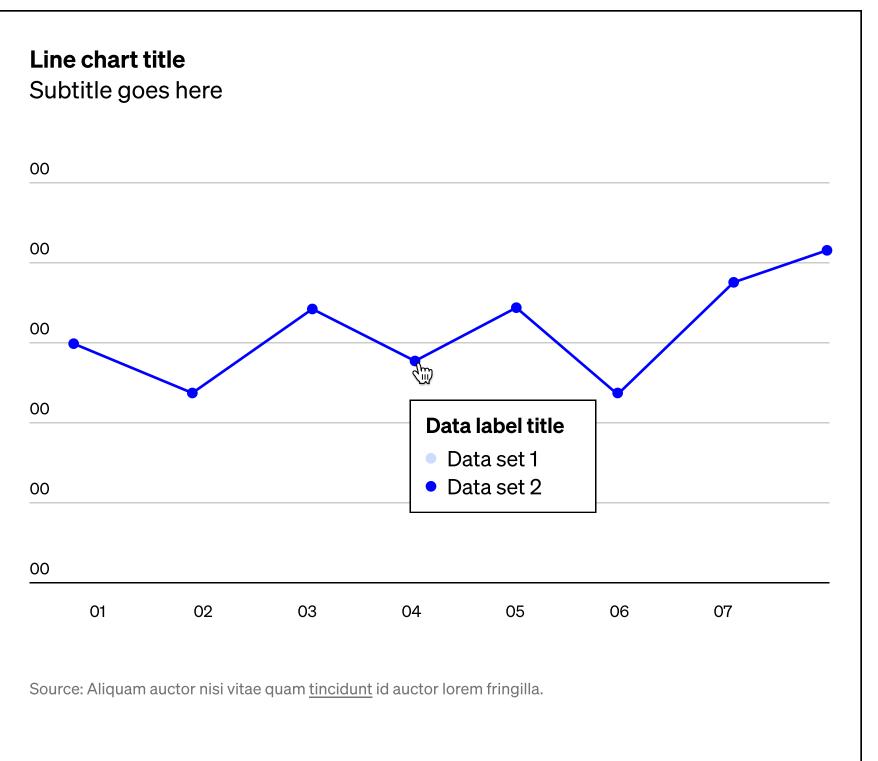




Line charts

A line chart displays information as a series of data points called 'markers' connected by straight line segments. A line chart is often used to visualize a trend in data over intervals of time—a time series—thus the line is often drawn chronologically. Don't use more than four lines on the same graph.

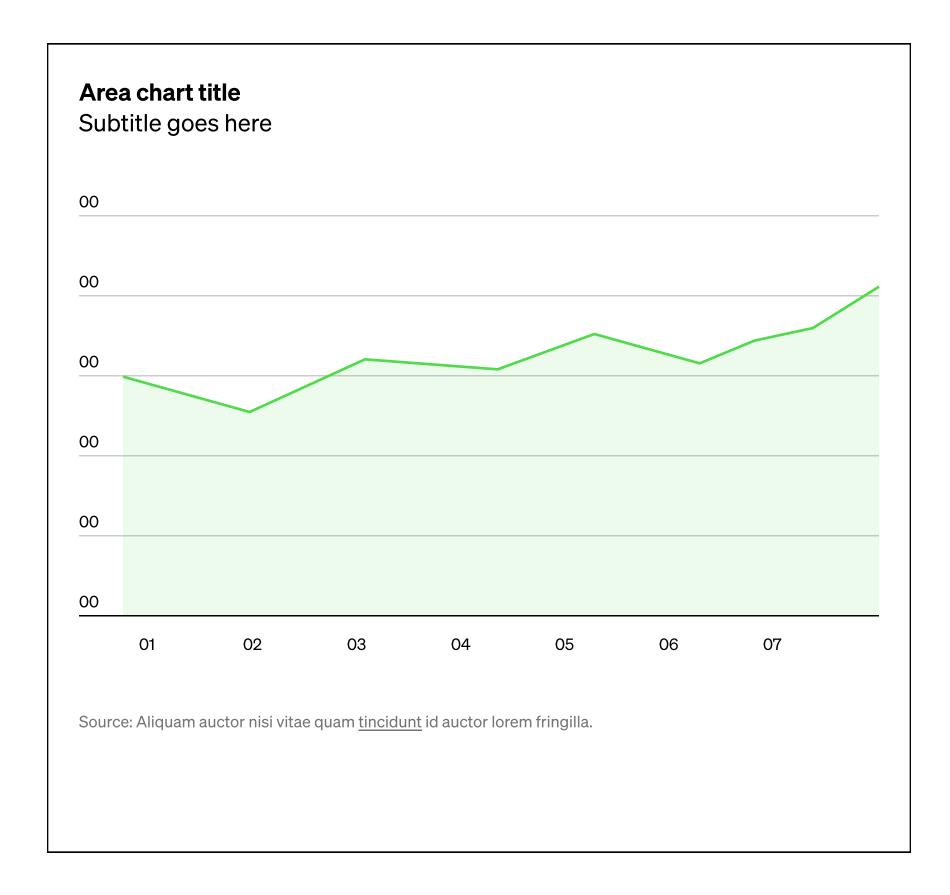


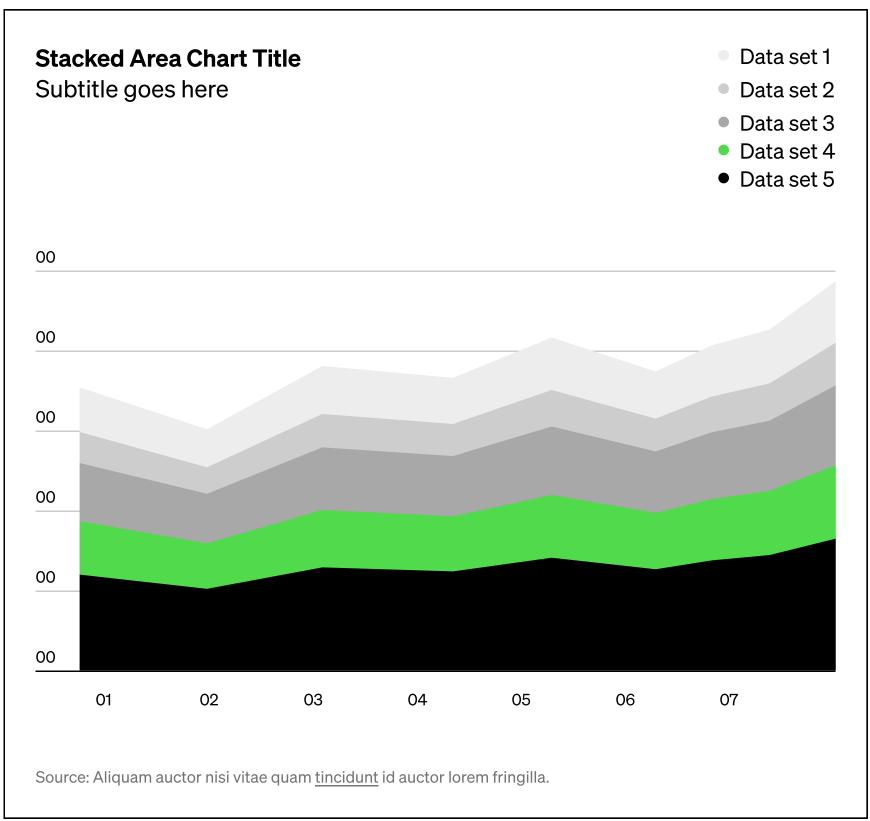




Area charts

An area chart or area graph displays graphically quantitative data. Area charts come in several varieties, including stacked area charts and overlapped area charts.



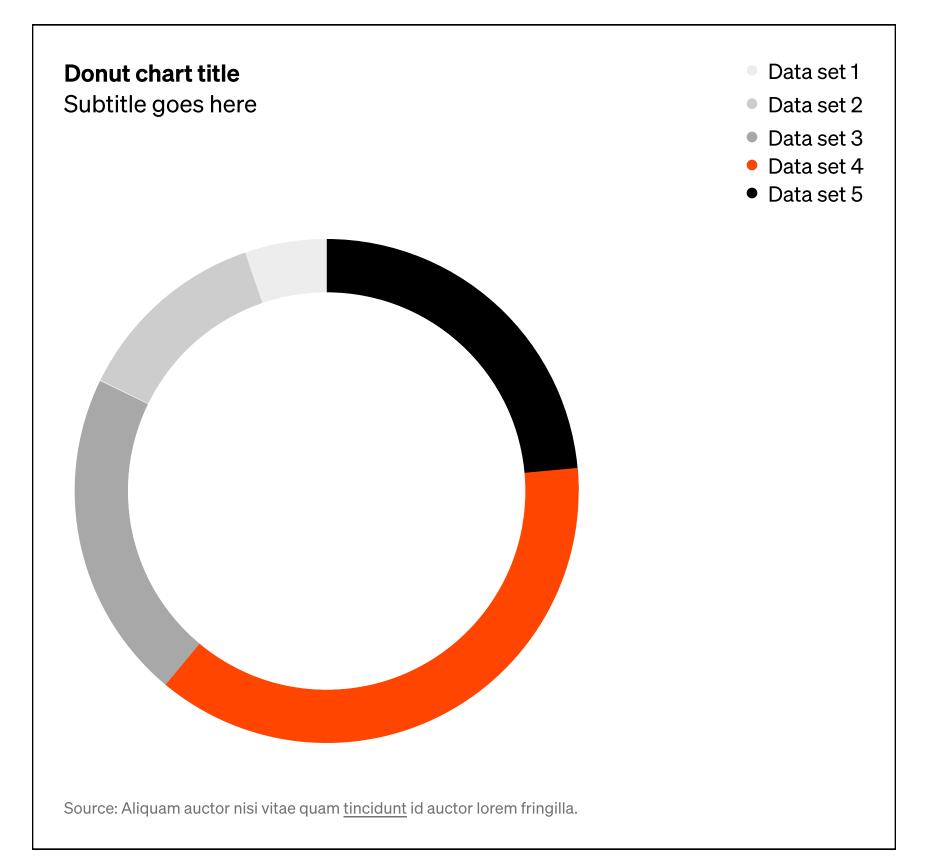


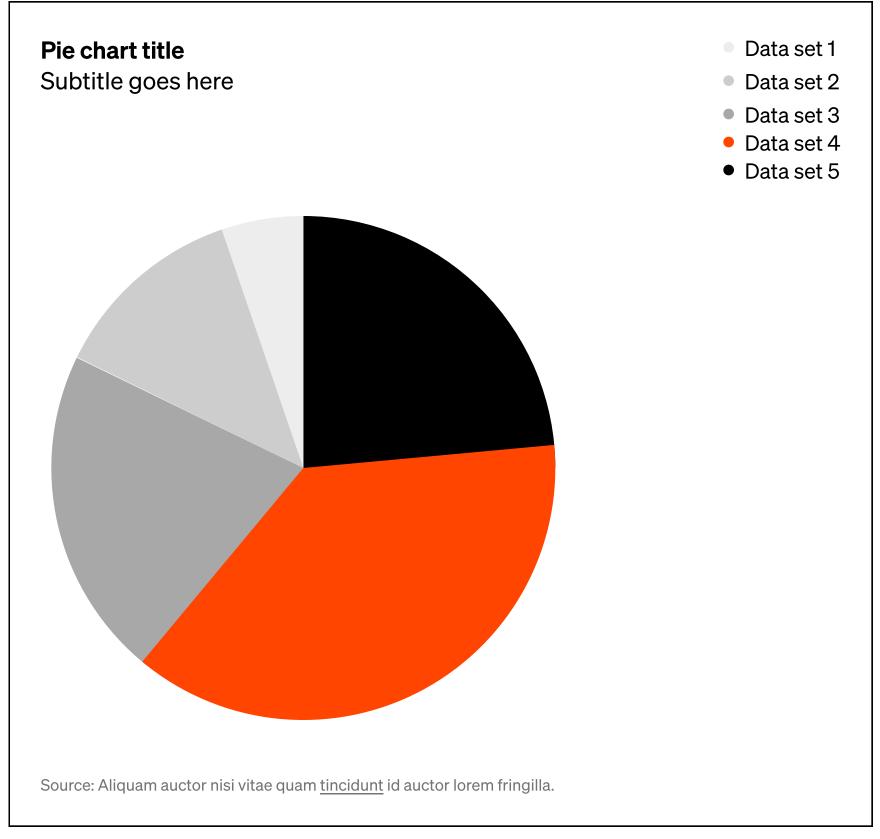


Pie and Donut

A pie chart is divided into slices to illustrate numerical proportion. In a pie chart, the arc length of each slice is proportional to the quantity it represents.

A donut chartis a variant of the pie chart, with a blank center allowing for additional information about the data as a whole to be included. Donut charts provide a better data intensity ratio to standard pie chart.







Line charts: Inline labels

Labels for line charts can also be placed adjacent to the relevant data sets. Be considerate when taking this approach as too many labels or charts with dense data can quickly feel cluttered, or worse, become illegible for a reader.

As a general rule try to only include a maxium of 3 data sets when using inline labels.

Alignment for the labels can either be above or below the data set. Use your best judgement based on where available space for the text may be.

When showing a singular data set labels should be right-aligned to the edge of the chart.

