Color roles & Style

Color roles @

 $There \ are \ 26 \ standard \ color \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ are \ color \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ color \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ color \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ roles \ organized \ into \ six \ groups: primary, secondary, tertiary, error, surface, and outline \ roles \ organized \ organi$

· Color roles ensure accessibility

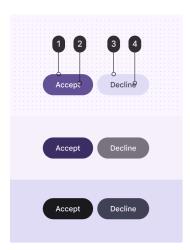
The color system is built on accessible color pairings. These color pairs provide an accessible minimum 3:1 contrast.

General concepts @

Here are helpful-to-know words you'll see in the names of color roles:

- Surface A role used for backgrounds and large, low-emphasis areas of the screen.
- Primary, Secondary, Tertiary Accent color roles used to emphasize or de-emphasize foreground elements.
- Container Roles used as a fill color for foreground elements like buttons. They should not be used for text or icons.
- On Roles starting with this term indicate a color for text or icons on top of its paired parent color. For example, on primary is used for text and icons against the primary fill color.
- Variant Roles ending with this term offer a lower emphasis alternative to its non-variant pair. For example, outline variant is a less emphasized version of the outline color.

Pairing and layering colors @



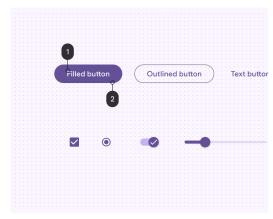
Pair and layer color roles as intended to ensure expected visual results and accessibility. In this example, the two buttons mapped with (1) primary, (2) on primary, (3) secondary container, and (4) on secondary container stay legible as the contrast level changes.

Primary @

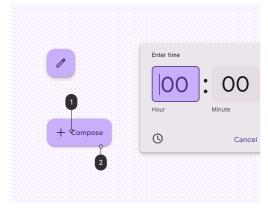
Use primary roles for the most prominent components across the UI, such as the FAB, high-emphasis buttons, and active states.

- Primary High-emphasis fills, texts, and icons against surface
- On primary Text and icons against primary
- Primary container Standout fill color against surface, for key components like FAB
- On primary container Text and icons against primary container





1.On Primary 2.primary



1. On Primary Container 2.Primary Container

Secondary *∂*

Use secondary roles for less prominent components in the UI, such as ${\it filter}$ chips.

There are four secondary roles:

- Secondary Less prominent fills, text, and icons against surface
- On secondary Text and icons against secondary
- Secondary container Less prominent fill color against surface, for recessive components like tonal buttons
- On secondary container Text and icons against secondary container

Tertiary *⊘*

Use tertiary roles for contrasting accents that balance primary and secondary colors or bring heightened attention to an element such as an input field.

There are four tertiary roles:

- Tertiary Complementary fills, text, and icons against surface
- On tertiary Text and icons against tertiary
- Tertiary container Complementary container color against surface, for components like input fields
- On tertiary container Text and icons against tertiary container

Error @

Use error roles to communicate error states, such as an incorrect password entered into a text field.

There are four error roles:

- Error Attention-grabbing color against surface for fills, icons, and text, indicating urgency
- On error Text and icons against error
- Error container Attention-grabbing fill color against surface
- On error container Text and icons against error container

Error is an example of a static color (it doesn't change even in dynamic color schemes). Error color roles are made static by default with any dynamic color scheme.

Surface @

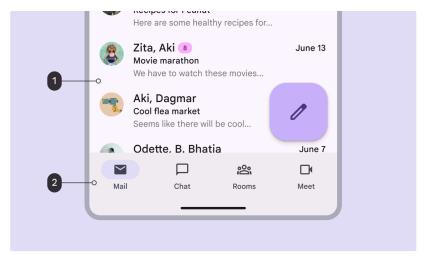
Use surface roles for more neutral backgrounds, and container colors for components like cards, sheets, and dialogs.

There are three surface roles:

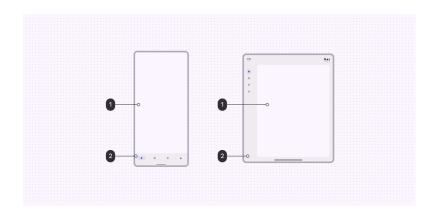
- Surface Default color for backgrounds
- On surface Text and icons against any surface color
- On surface variant Lower-emphasis color for text and icons against any surface color

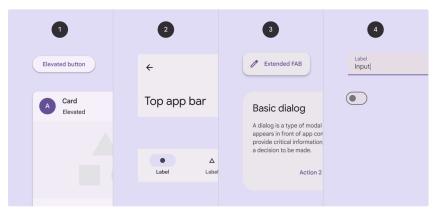
There are also **five surface container** roles named based on their level of emphasis:Read More

The most common combination of surface roles uses surface for a background area and surface container for a navigation area.



1. Surface 2.Surface container





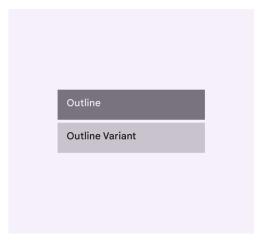
Default surface container roles applied to components:

- 1. Surface container low
- 2. Surface container
- 3. Surface container high
- 4. Surface container highest

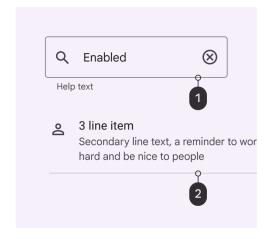
Outline 🖉

There are two outline colors to be used against surface:

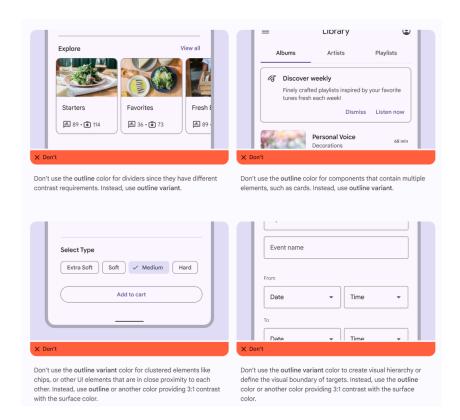
- Outline Important boundaries, such as a text field outline
- Outline variant Decorative elements, such as dividers



Outline and outline variant roles in the color scheme, shown in light theme



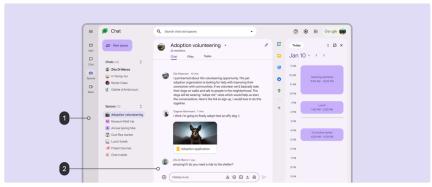
- 1. A text field which uses **outline** for its container border
- 2. A list item which uses **outline variant** for its divider line



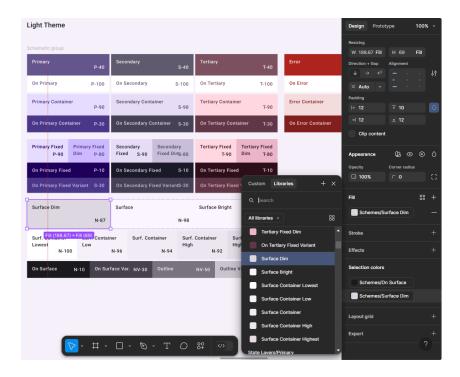
Bright and dim surface roles







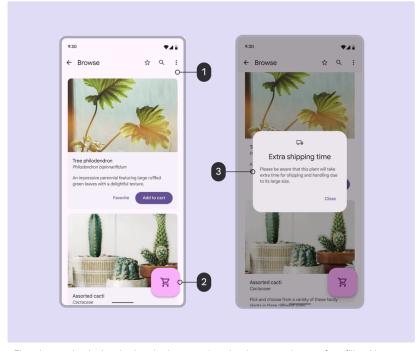
- 1. Navigation rail with surface dim background
- 2. Chat window with surface bright background



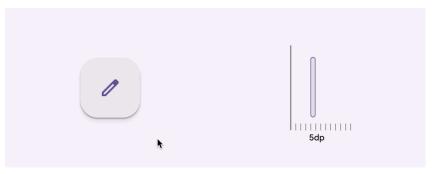
Elevation @

Elevation is the distance between two surfaces on the z-axis

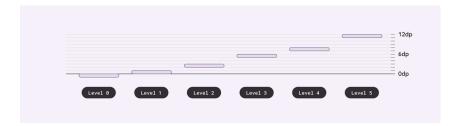
- Elevation applies to all surfaces and components
- Use the default elevation in Material 3 components
- Keep the elevation story simple (not too many levels)
- Show elevation changes by changing surface color



Elevation can be depicted using shadows or other visual cues, such as surface fills with a tone difference



Hovering over a button increases its elevation to show user interaction

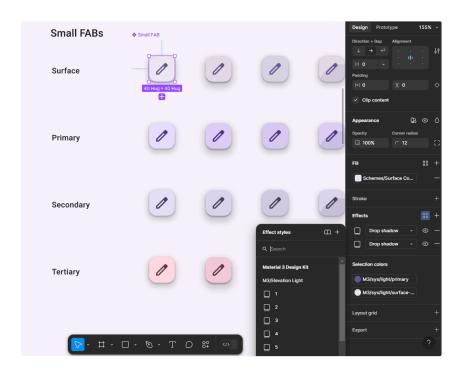


More about applying Elevation

Elevation levels can be implemented with tokens.

Resting level	Component	DP Height
5	(not assigned as resting level)	12dp
4	(not assigned as resting level)	8dp
3	FAB Extended FAB	6dp
	Modal Date Picker	
	Docked Date Picker	
	Modal Date Input	
	Dialog	
	Search Bar	
	Search View	
	Time Picker	
	Time Input	
	Time Input	
2	Autocomplete Menu	3dp
2		3dp
2	Autocomplete Menu	3dp
2	Autocomplete Menu Bottom App Bar	3dp
2	Autocomplete Menu Bottom App Bar Dropdown Menu	3dp
2	Autocomplete Menu Bottom App Bar Dropdown Menu Menu	3dp
2	Autocomplete Menu Bottom App Bar Dropdown Menu Menu Navigation Bar	3dp
2	Autocomplete Menu Bottom App Bar Dropdown Menu Menu Navigation Bar Select Menu	3dp
1	Autocomplete Menu Bottom App Bar Dropdown Menu Menu Navigation Bar Select Menu Rich Tooltip	3dp
	Autocomplete Menu Bottom App Bar Dropdown Menu Menu Navigation Bar Select Menu Rich Tooltip Top App Bar (Scrolled)	
	Autocomplete Menu Bottom App Bar Dropdown Menu Menu Navigation Bar Select Menu Rich Tooltip Top App Bar (Scrolled) Assist Chip (Elevated)	

	Elevated Card	
	Extended FAB (Lowered)	
	FAB (Lowered)	
	Filter Chip (Elevated)	
	Navigation Drawer (Modal)	
	Side Sheet (Modal)	
	Slider (Handle)	
	Suggestion Chip (Elevated)	
0	Assist Chip (Flat)	Odp
	Carousel Item	
	Filled Button	
	Filled Tonal Button	
	Filled Card	
	Filter Chip (Flat)	
	Full Screen Dialog	
	List Item	
	Input Chip	
	Navigation Rail	
	Primary Navigation Tabs	
	Secondary Navigation Tabs	
	Outlined Card	
	Side Sheet (Docked)	
	Slider (Track)	
	Suggestion Chip (Flat)	
	Top App Bar	



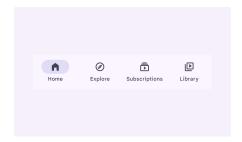
Icons @

More about Icons

Accessibility @

Icons with a label text ${\mathscr O}$

Label text provides short, meaningful descriptions



Small icons ${\mathscr O}$

Material Symbols can scale up or down in size without a loss of fidelity. **Simple symbols, like stars for ratings**, can be used on their own at any size, as long as they remain identifiable.

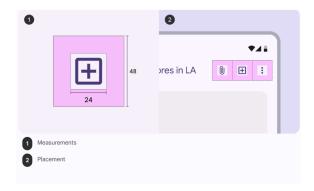
Other symbols should have an accompanying text label below 20dp to ensure their meaning is clear and to maintain accessibility. These symbols include:

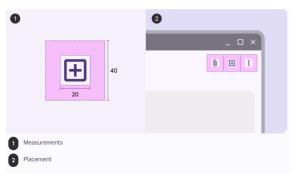
- Complex icons, which are highly detailed or have multiple parts
- Icons with a key action, which are essential to using the product

Target size *⊘*

Adequate space should surround icons to allow legibility and interaction.

Symbols of 24dp should have a target size of 48dp by default.





A 20dp size symbol can use a target size of 40dp.