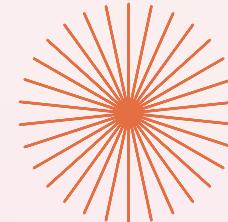




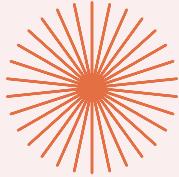
{ }



MATERIAL 3 CASE STUDY

Now in Android App
with Material 3

[link to figma file](#)



COLOR GUIDANCE

Color is used to express style and communicate meaning. With dynamic color, Material puts personal color preferences and individual needs at the forefront of systematic color application.

These color styles were generated using the Material Theme Builder however we altered the Neutral color set with custom colors. This allowed us the opportunity to show developers how they might alter M3 styles if required within the opensource code base.

Note
If you customize colors beyond what M3 dynamically generates you must carefully test these colors contrast accessibility.

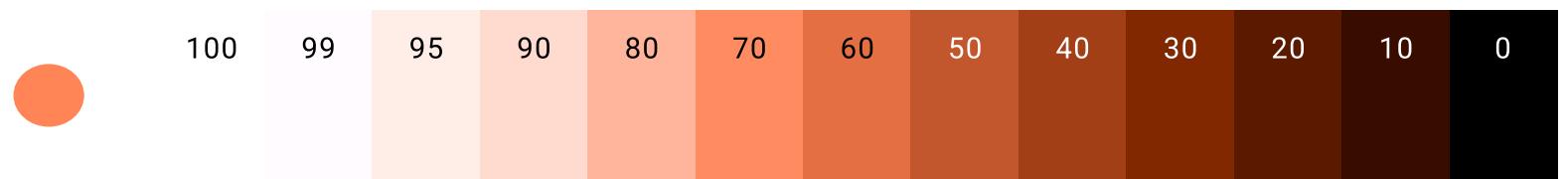
Color Styles

Tonal Palettes

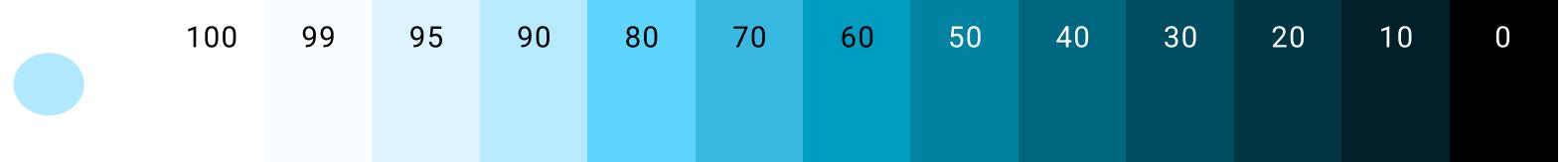
Primary



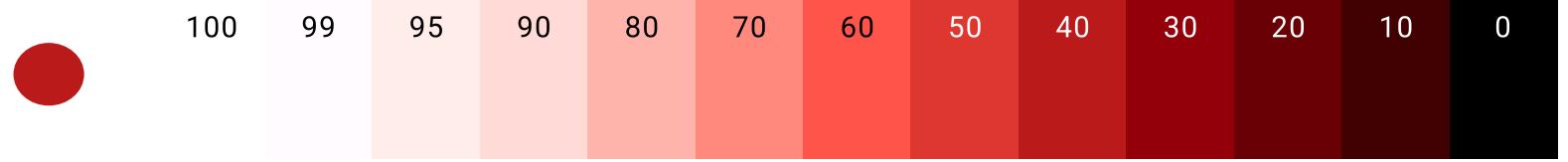
Secondary



Tertiary



Error



Custom styles

Neutral



Neutral Variant



Color Styles

Light

Primary	On Primary	Primary Container	On Primary Container
Primary40	Primary100	Primary90	Primary10
Secondary	On Secondary	Secondary Container	On Secondary Container
Secondary40	Secondary100	Secondary90	Secondary10
Tertiary	On Tertiary	Tertiary Container	On Tertiary Container
Tertiary40	Tertiary100	Tertiary90	Tertiary10
Error	On Error	Error Container	On Error Container
Error40	Error100	Error90	Error10

Custom
styles

Background	On Background	Surface	On Surface
Neutral99	Neutral10	Neutral99	Neutral10

Custom
styles

Surface Variant	On Surface Variant	Outline
Neutral-Variant90	Neutral-Variant30	Neutral-Variant50
Inverse Surface	Inverse On Surface	
Neutral20	Neutral95	

Color Styles

Dark

Primary	On Primary	Primary Container	On Primary Container
Primary80	Primary20	Primary30	Primary90
Secondary	On Secondary	Secondary Container	On Secondary Container
Secondary80	Secondary20	Secondary30	Secondary90
Tertiary	On Tertiary	Tertiary Container	On Tertiary Container
Tertiary80	Tertiary20	Tertiary30	Tertiary90
Error	On Error	Error Container	On Error Container
Error80	Error20	Error30	Error90

Custom
styles

Background	On Background	Surface	On Surface
Neutral10	Neutral90	Neutral10	Neutral90

Custom
styles

Surface Variant	On Surface Variant	Outline
Neutral-Variant30	Neutral-Variant80	Neutral-Variant60

Inverse Surface	Inverse On Surface	
Neutral90	Neutral10	

Color Styles

Custom styles

Light

Surface

Surface at +1

+ 5% Primary

Surface at +2

+ 8% Primary

Surface at +3

+ 11% Primary

Surface at +4

+ 12% Primary

Surface at +5

+ 14% Primary

Dark

Surface

Surface at +1

+ 5% Primary

Surface at +2

+ 8% Primary

Surface at +3

+ 11% Primary

Surface at +4

+ 12% Primary

Surface at +5

+ 14% Primary

Color Gradients

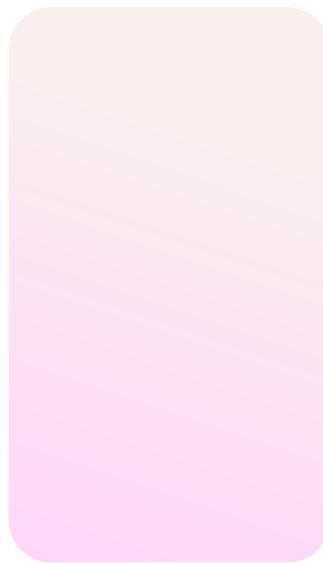
Light



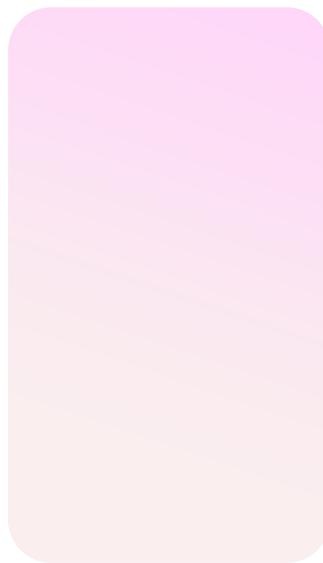
primary-container +
tertiary-container



tertiary-container +
primary-container



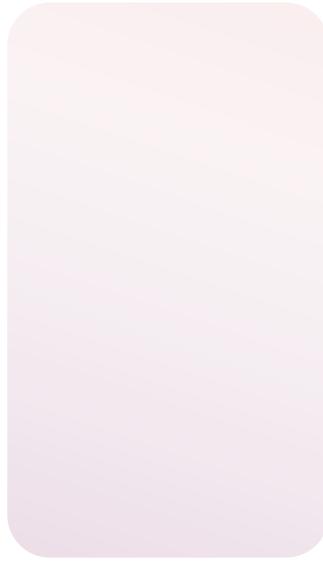
inverse-on-surface +
primary-container



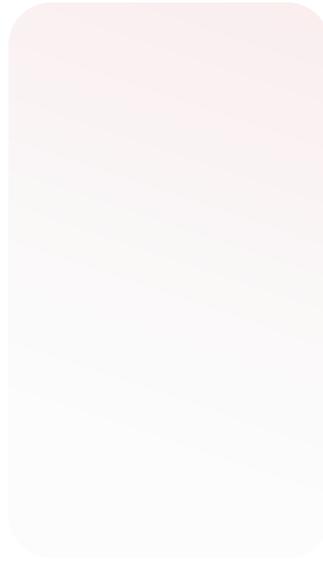
tertiary-container +
inverse-on-surface



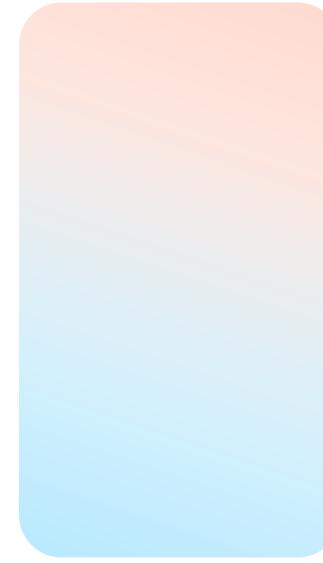
inverse-on-surface +
tertiary-container



inverse-on-surface +
surface-varient



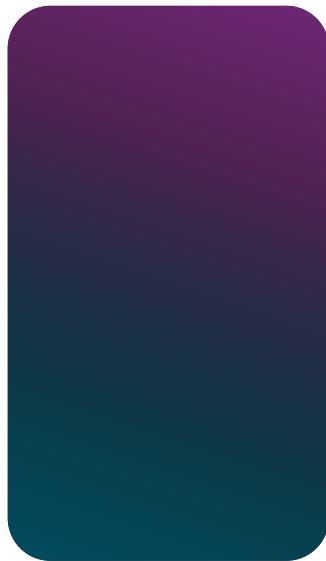
inverse-on-surface +
surface



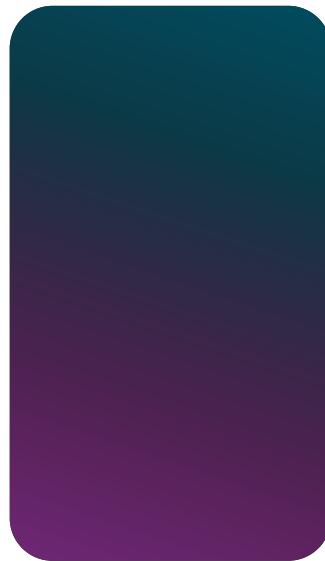
secondary-container +
tertiary-container

Color Gradients

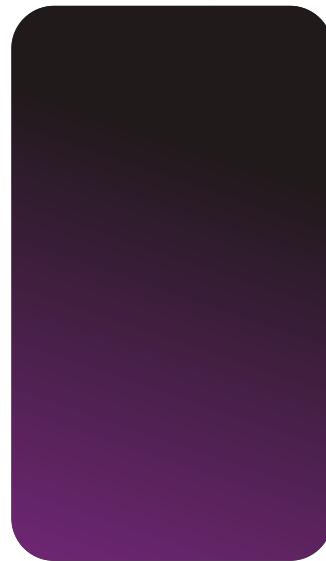
Dark



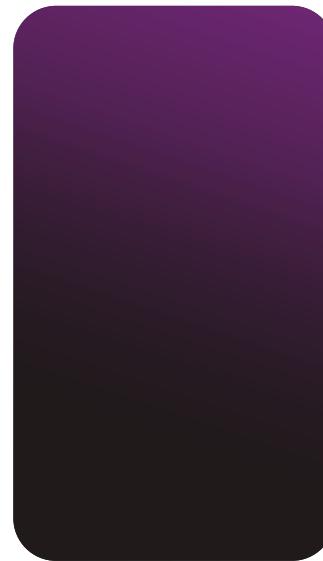
primary-container +
tertiary-container



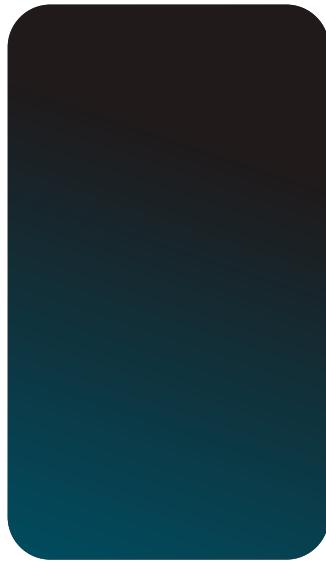
tertiary-container +
primary-container



inverse-on-surface +
primary-container



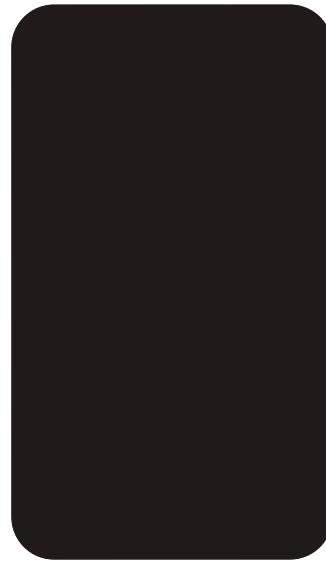
tertiary-container +
inverse-on-surface



inverse-on-surface +
tertiary-container



inverse-on-surface +
surface-variant

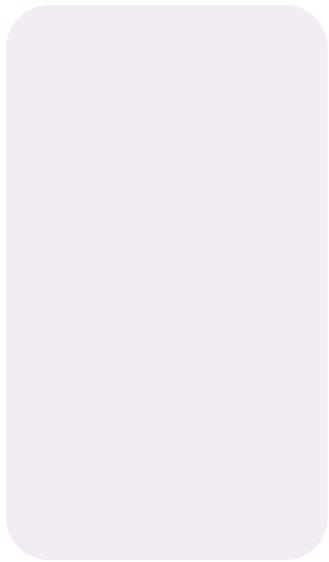


inverse-on-surface +
surface



secondary-container +
tertiary-container

Color Background



primary 8% + surface



primary 8% (dark) +
surface (dark)



TYPOGRAPHY

Use typography to make writing legible and beautiful. Material's default type scale includes contrasting and flexible styles to support a wide range of use cases.

[Google roboto font download](#)

Typography

Display Large Roboto 36/44 . 0

Display Medium Roboto 45/52 . 0

Display Small Roboto 57/64 . -0.25

Headline Large Roboto 32/40 . 0

Headline Medium Roboto 28/36 . 0

Headline Small Roboto 24/32 . 0

Typography

Title Large - Roboto Bold 22/28 . 0

Title Medium - Roboto Bold 18/24 . +0.1

Title Small - Roboto Medium 14/20 . +0.1

Body Large - Roboto 16/24 . +0.5

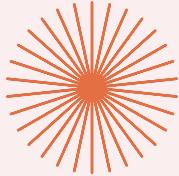
Body Medium - Roboto 14/20 . +0.25

Body Small - Roboto 12/16 . +0.4

Label Large - Roboto 14/20 . +0.1

Label Medium - Roboto 12/16 . +0.5

Label Small - Roboto 10/16 . 0



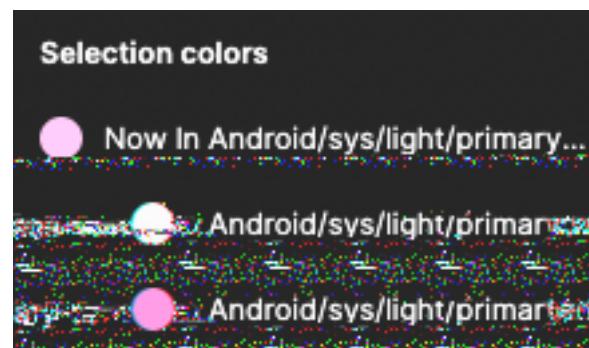
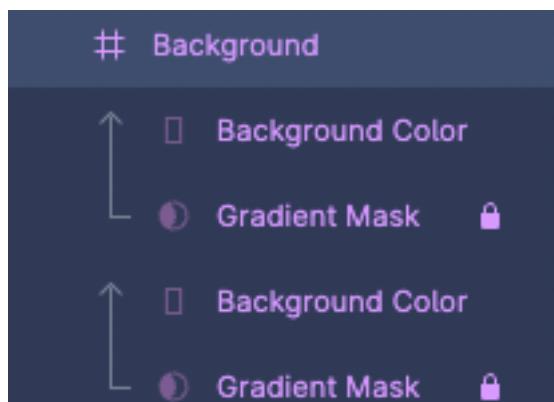
ILLUSTRATIONS & ELEMENTS



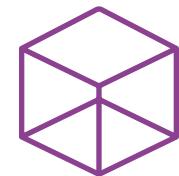
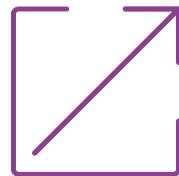
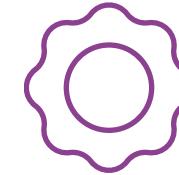
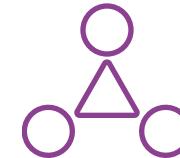
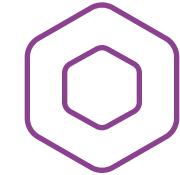
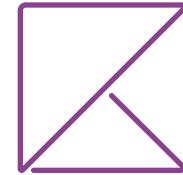
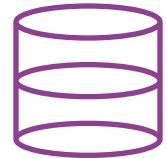
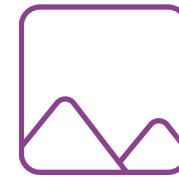
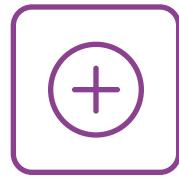
Icon elements use Material design icons or were custom built.

The illustrations use nested components and masks. This makes it easier to create alternate themes, but it has the trade-off of adding size to exported SVGs.

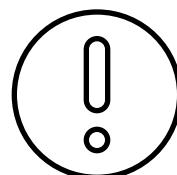
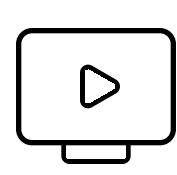
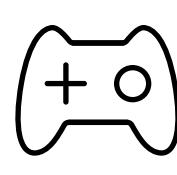
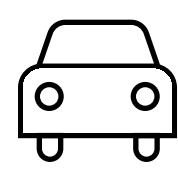
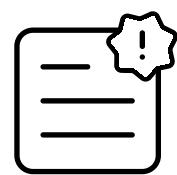
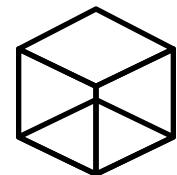
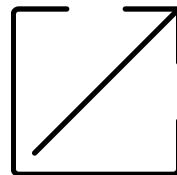
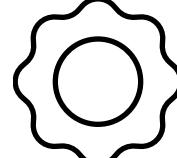
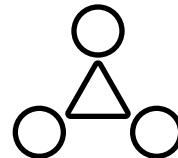
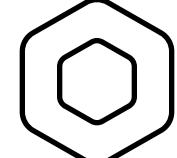
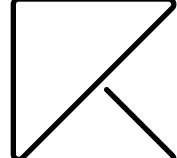
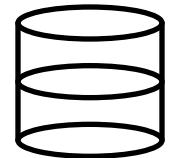
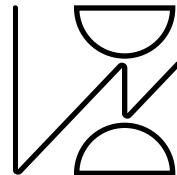
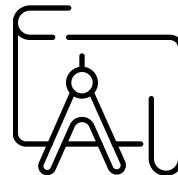
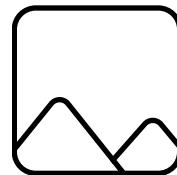
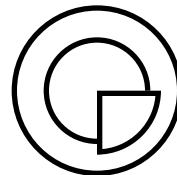
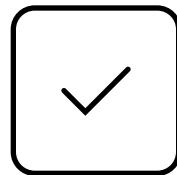
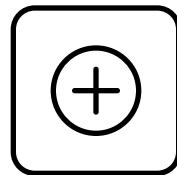
Gradient colors in figma don't currently allow for style names but require hex numbers instead. So that gradients styles can be dynamically themed we used gradient masks and selection colors to create gradient components.



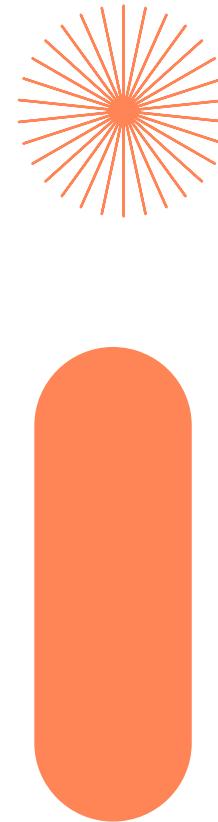
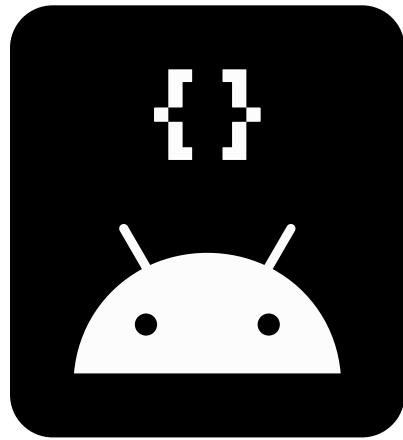
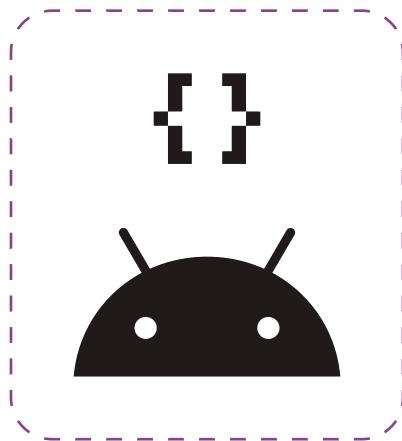
Solid Icons and Illustrations



Black/White Icons and Illustrations

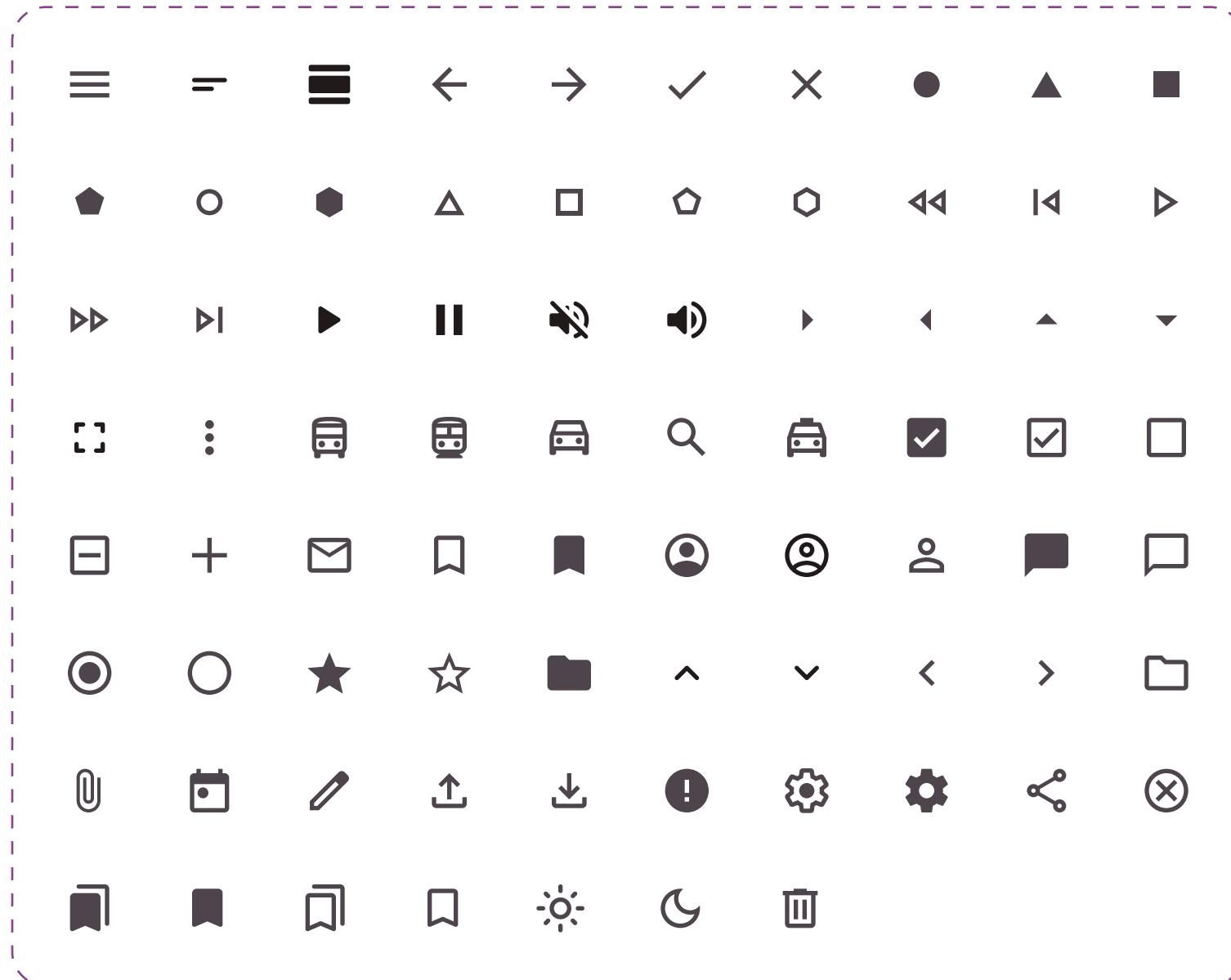


Logos and Illustrations



Elements

Material icons

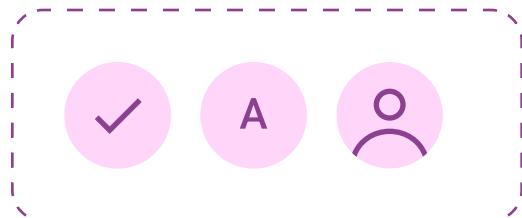
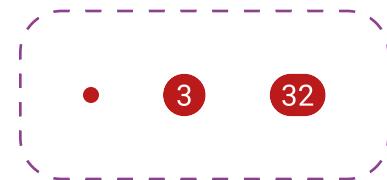


Elements

Custom icons & other elements



9:30





LAYOUT



Layout and breakpoints.

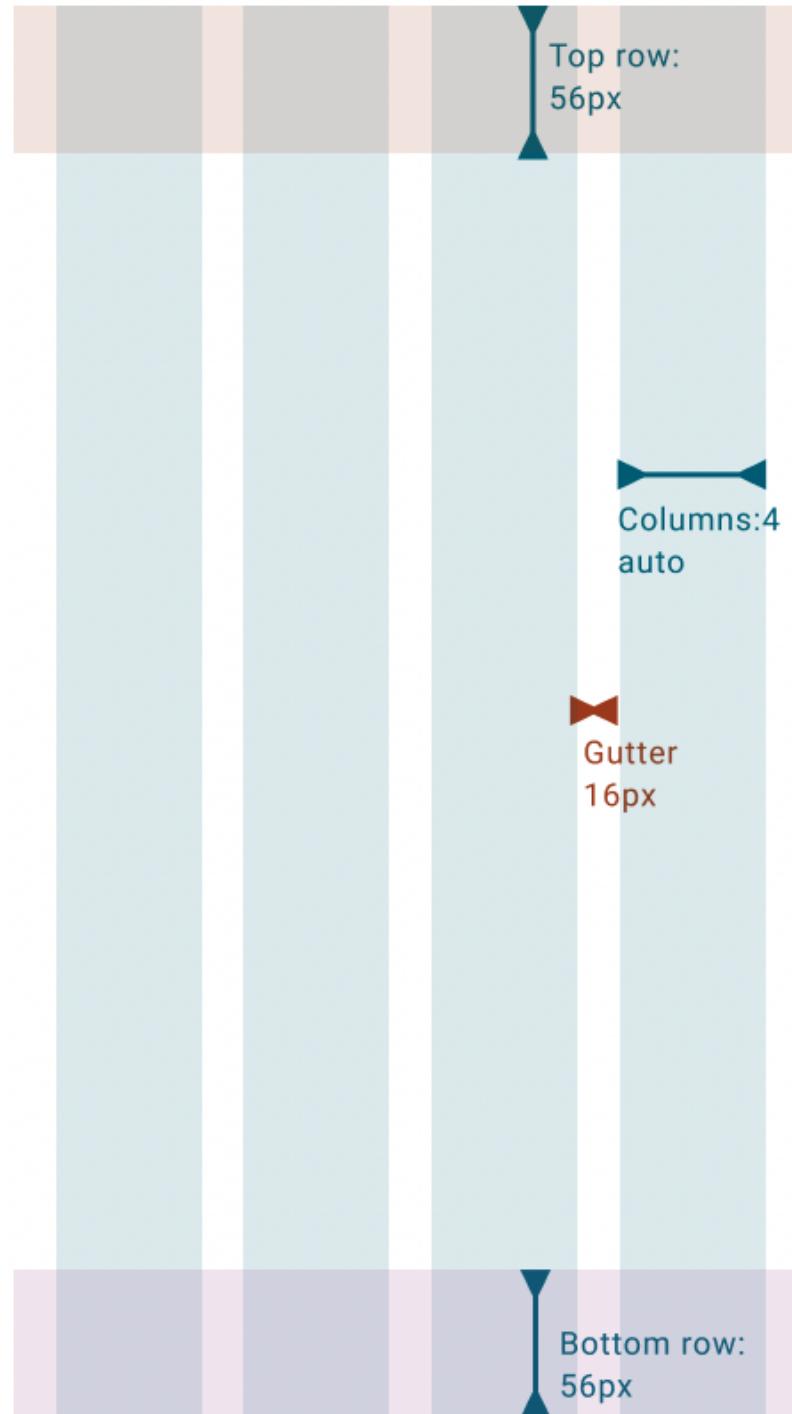
These designs give the main margins, paddings, row size and column count for various screen sizes and layouts.

The entire view isn't shown for these designs or has been re-sized to fit.



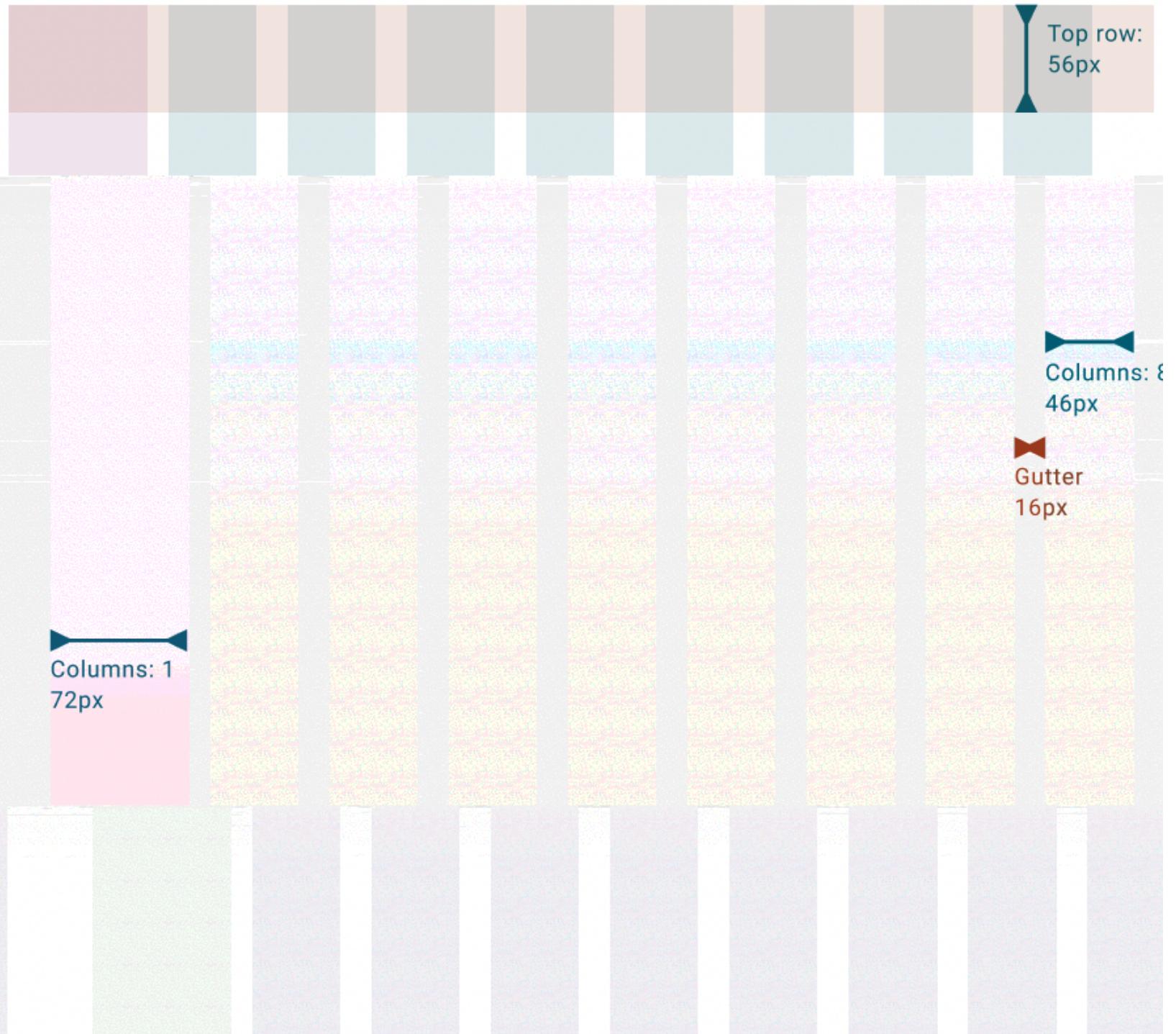
Extra Small (0-599dp)

(Resized and/or
cropped to fit
this view.)



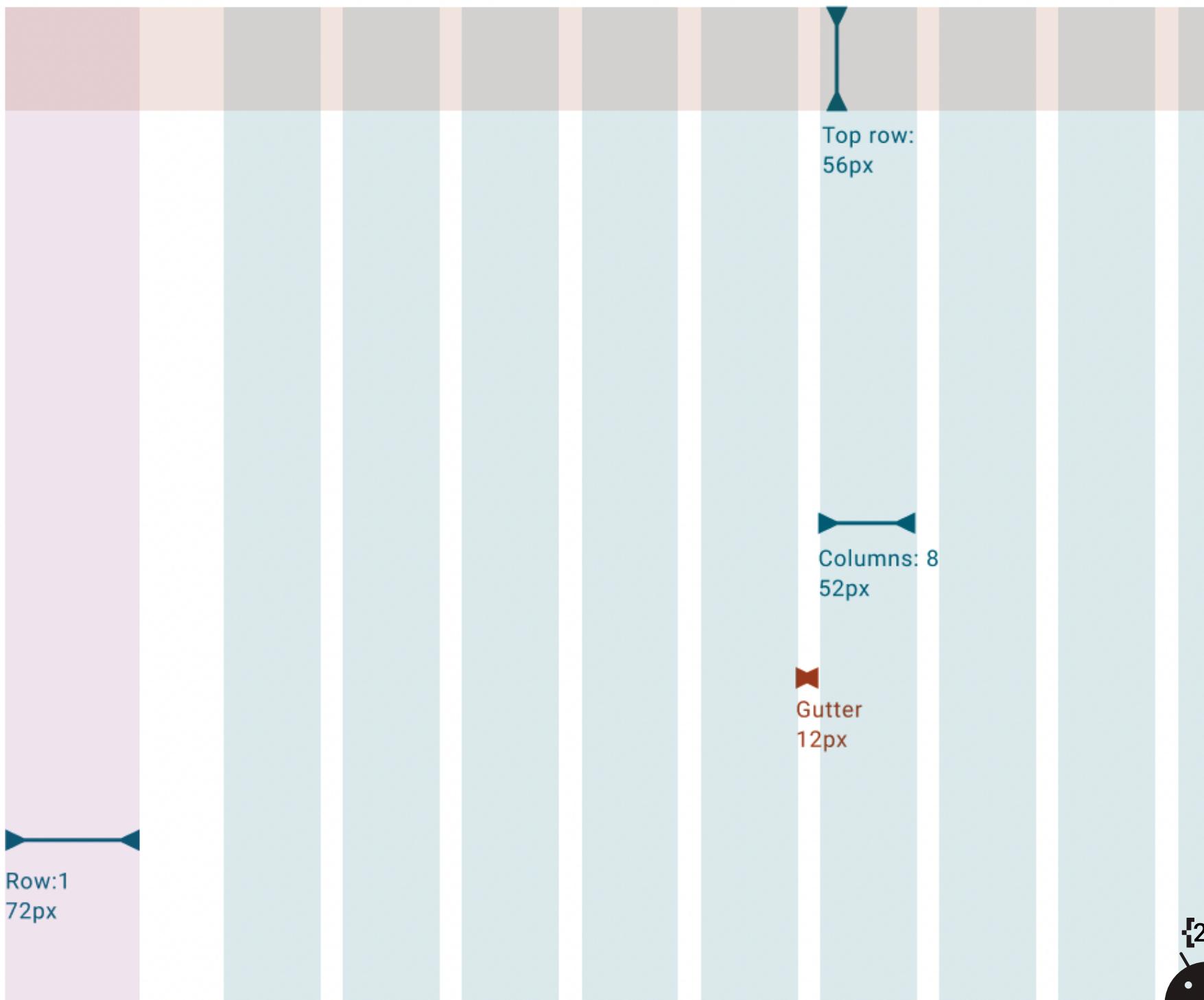
Small (600-904dp)

(Resized and/or
cropped to fit
this view.)



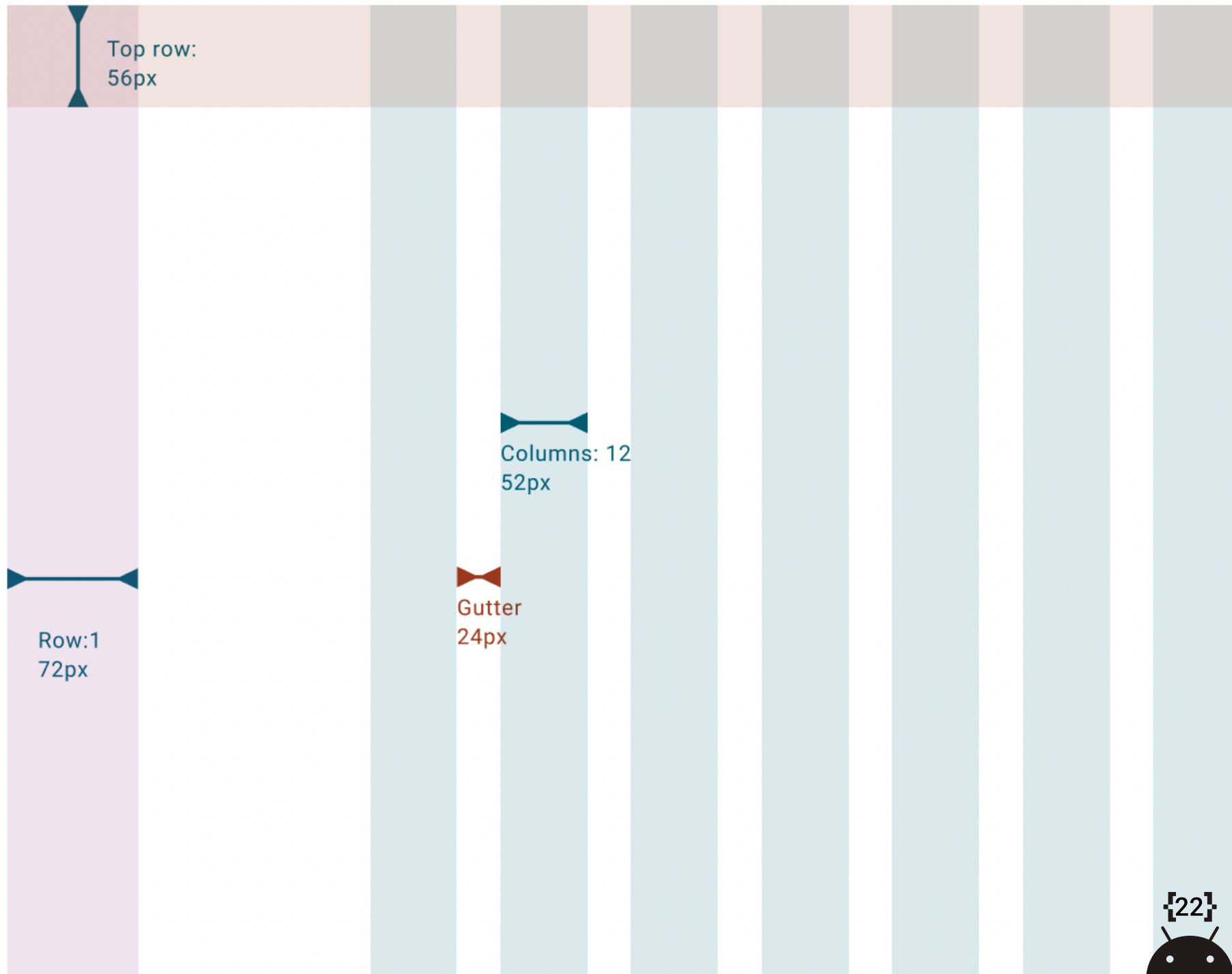
Medium (905-1239dp)

(Resized and/or cropped to fit this view.)



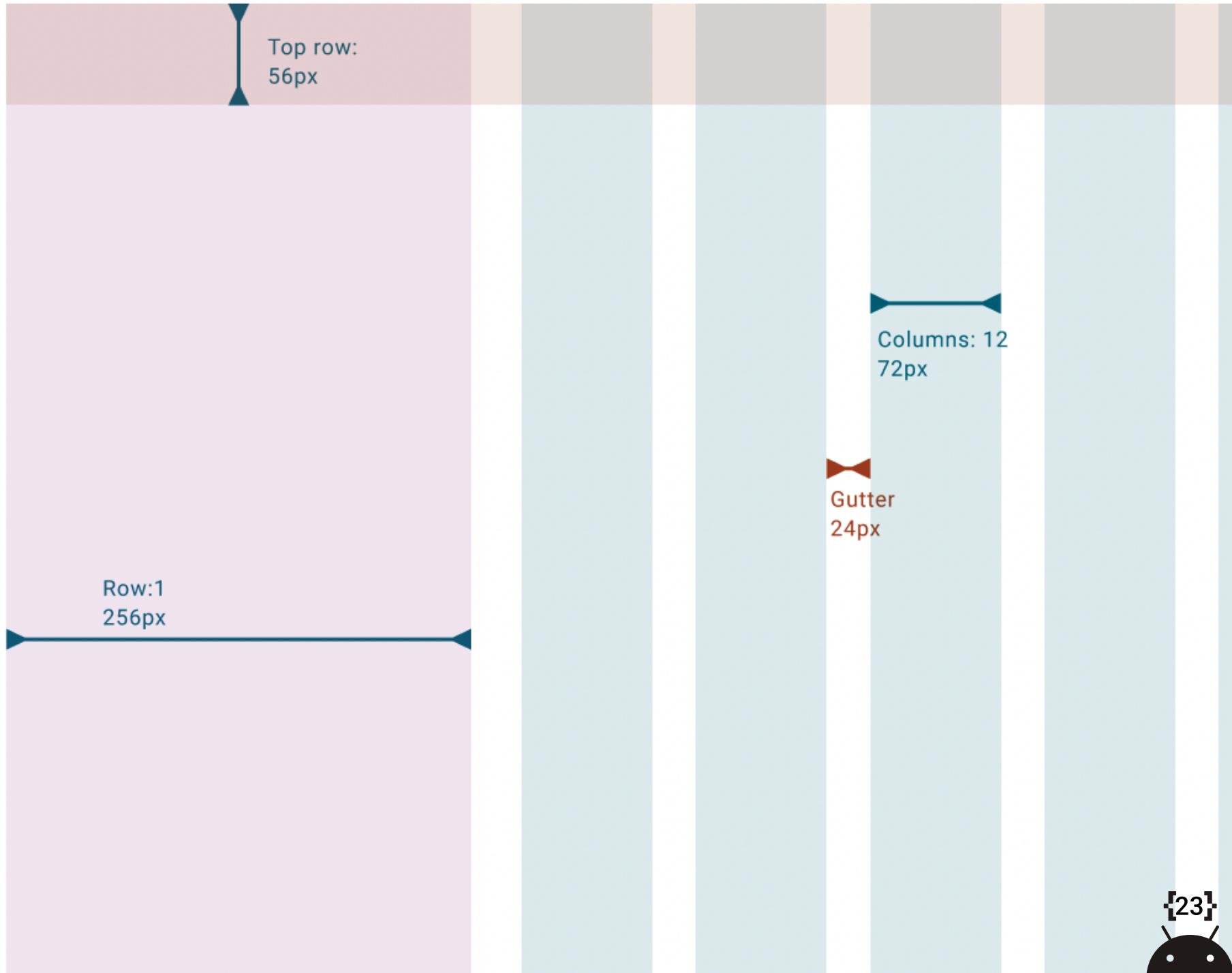
Medium (1240-1439dp)

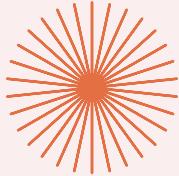
(Resized and/or
cropped to fit
this view.)



Large (1440+dp)

(Resized and/or cropped to fit this view.)





COMPONENTS

The figma [Material 3 Design Kit](#) was used to originally design the components for this file and are recommended for building out M3 components.

Some components have been customized beyond the colors and fonts from the Material 3 Design kit and the Material theme builder styles. We have marked these components as custom. Also we have generated what the components would have looked like without customization. This type of customization provides real world learning examples in the app for developers.

★ Custom color styles

Note

If you customize components beyond what M3 offers you must carefully test these components for accessibility.



Buttons (Light)

★ Custom color styles

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Buttons (Dark)

★ Custom color styles

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Enabled

Hovered

Focused

Pressed

Disabled

+ Enabled

+ Hovered

+ Focused

+ Pressed

+ Disabled

Icons Buttons (Light)

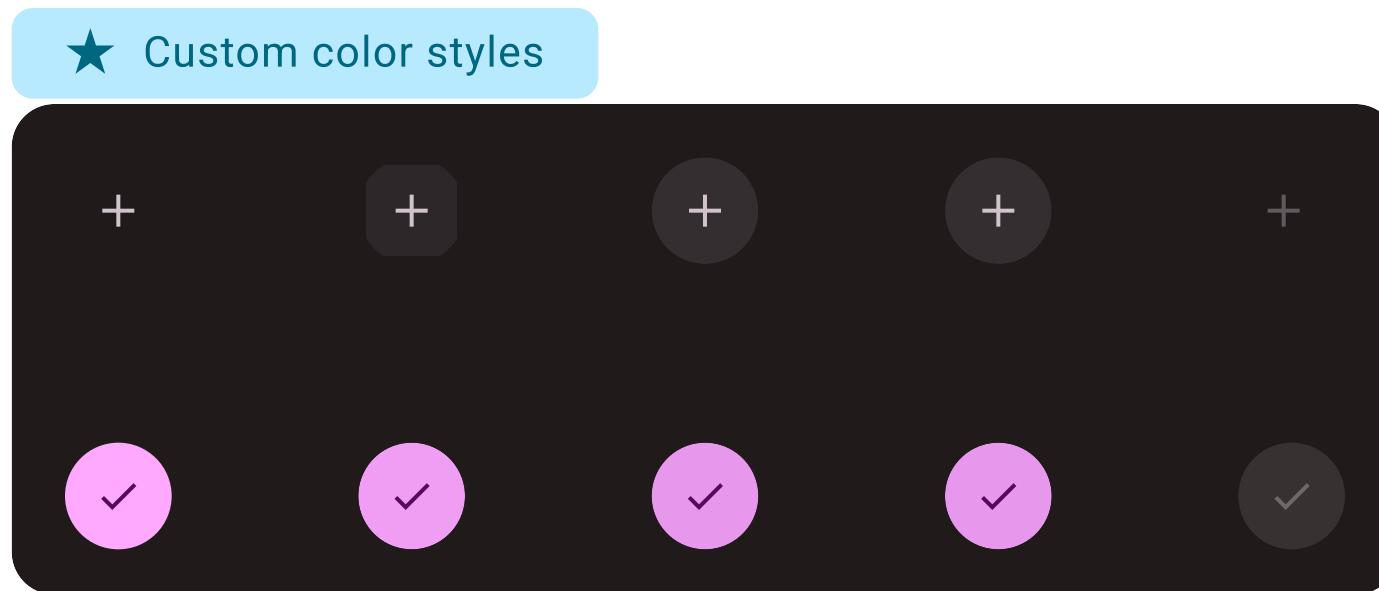
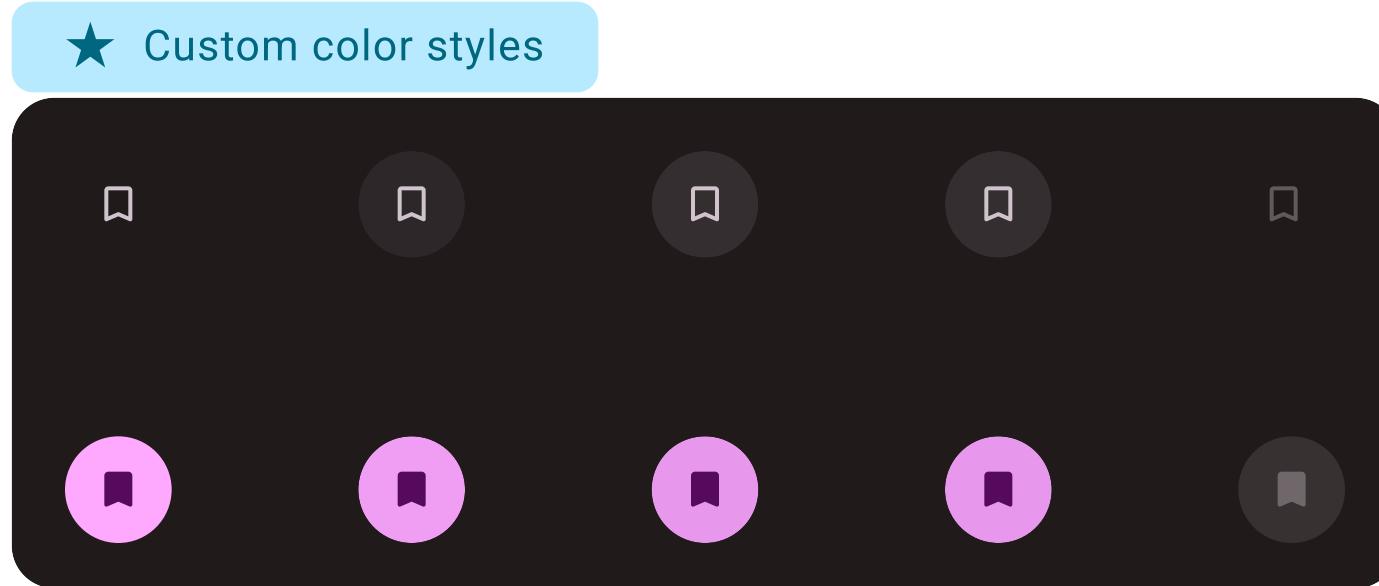
★ Custom color styles



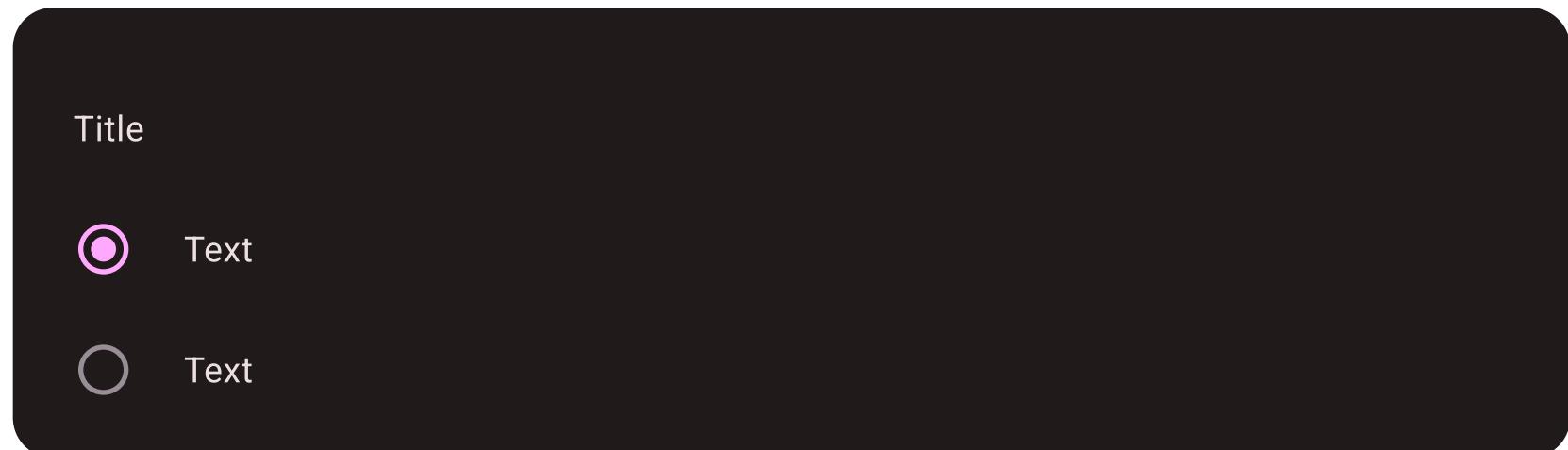
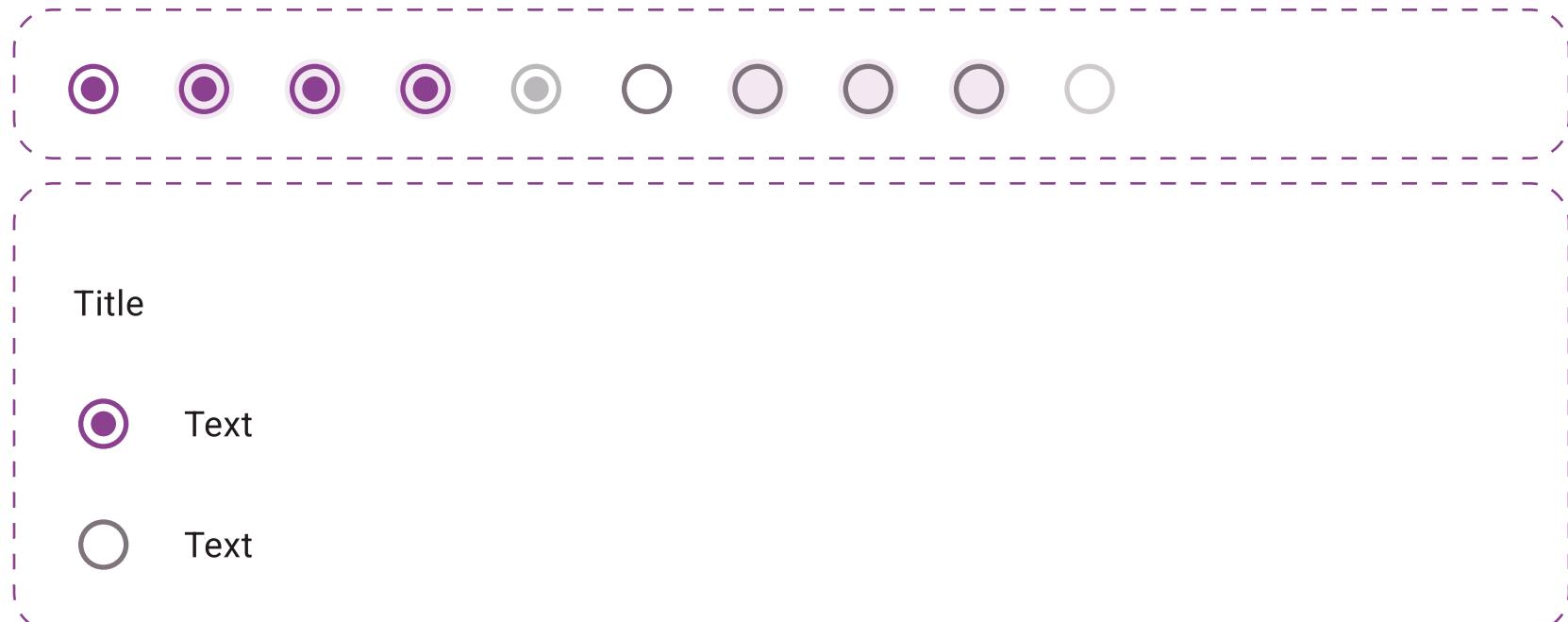
★ Custom color styles



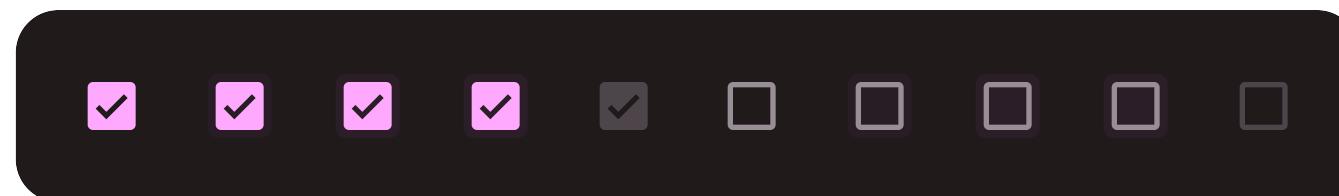
Icons Buttons (Dark)



Radio Buttons



Checkbox Buttons



Cards (Light)



Update headline

● January 1, 2021 • developer.android.com

Include an image for each update, extracted from the webpage or manually chosen.

Topic

Topic

Topic

Topic

Topic

⋮



Update headline

● January 1, 2021 • developer.android.com

Topic

Topic

Topic

Topic

Topic

⋮



Author

Update headline

● January 1, 2021 • developer.android.com

Topic

Topic

Topic

Topic

Topic

⋮



Cards (Dark)

A dark-themed card with rounded corners and a light gray header section. The header contains a white circular profile picture labeled "Author" and a large white title "Update headline". Below the title is a purple circular icon with white text and a small white bookmark icon. The main content area contains a purple circular icon with white text, the date "January 1, 2021", the source "developer.android.com", and a descriptive text block: "Include an image for each update, extracted from the webpage or manually chosen." At the bottom are five dark gray circular buttons labeled "Topic" and a vertical ellipsis.

Author

Update headline

January 1, 2021 • developer.android.com

Include an image for each update, extracted from the webpage or manually chosen.

Topic Topic Topic Topic Topic

Two dark-themed cards side-by-side, both showing the same article details. The top card has a white header section with a white circular profile picture labeled "Author", a large white title "Update headline", a purple circular icon with white text, the date "January 1, 2021", the source "developer.android.com", and a vertical ellipsis. The bottom card has a black header section with a white circular profile picture labeled "Author", a large white title "Update headline", a purple circular icon with white text, the date "January 1, 2021", the source "developer.android.com", and a vertical ellipsis.

Author

Update headline

January 1, 2021 • developer.android.com

Topic Topic Topic Topic Topic

Dialogs

Basic dialog title

A dialog is a type of modal window that appears in front of app content to provide critical information, or prompt for a decision to be made.

Enabled

Enabled

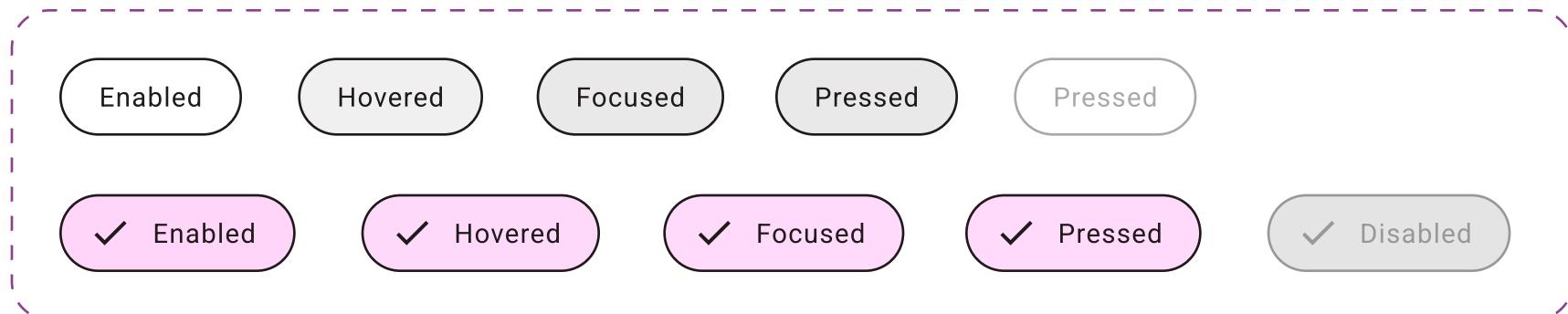
Basic dialog title

A dialog is a type of modal window that appears in front of app content to provide critical information, or prompt for a decision to be made.

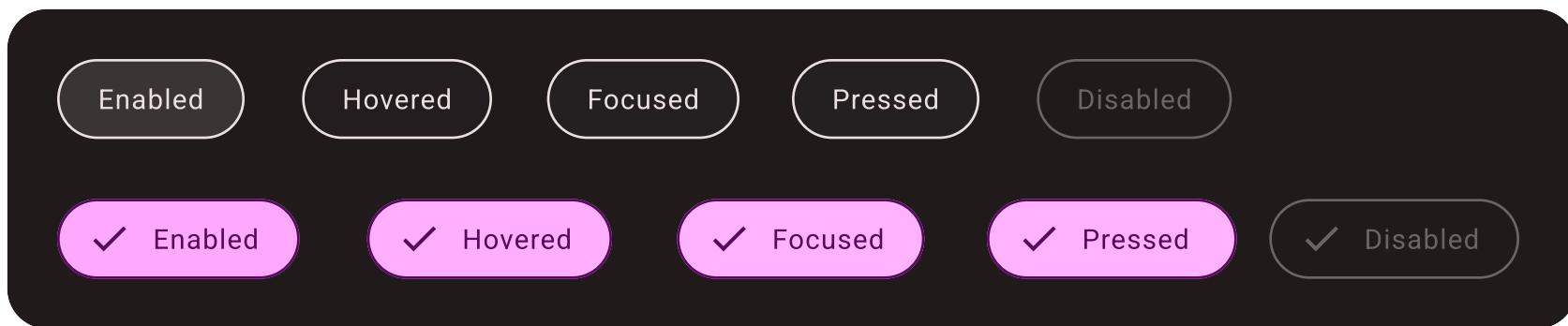
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Enabled

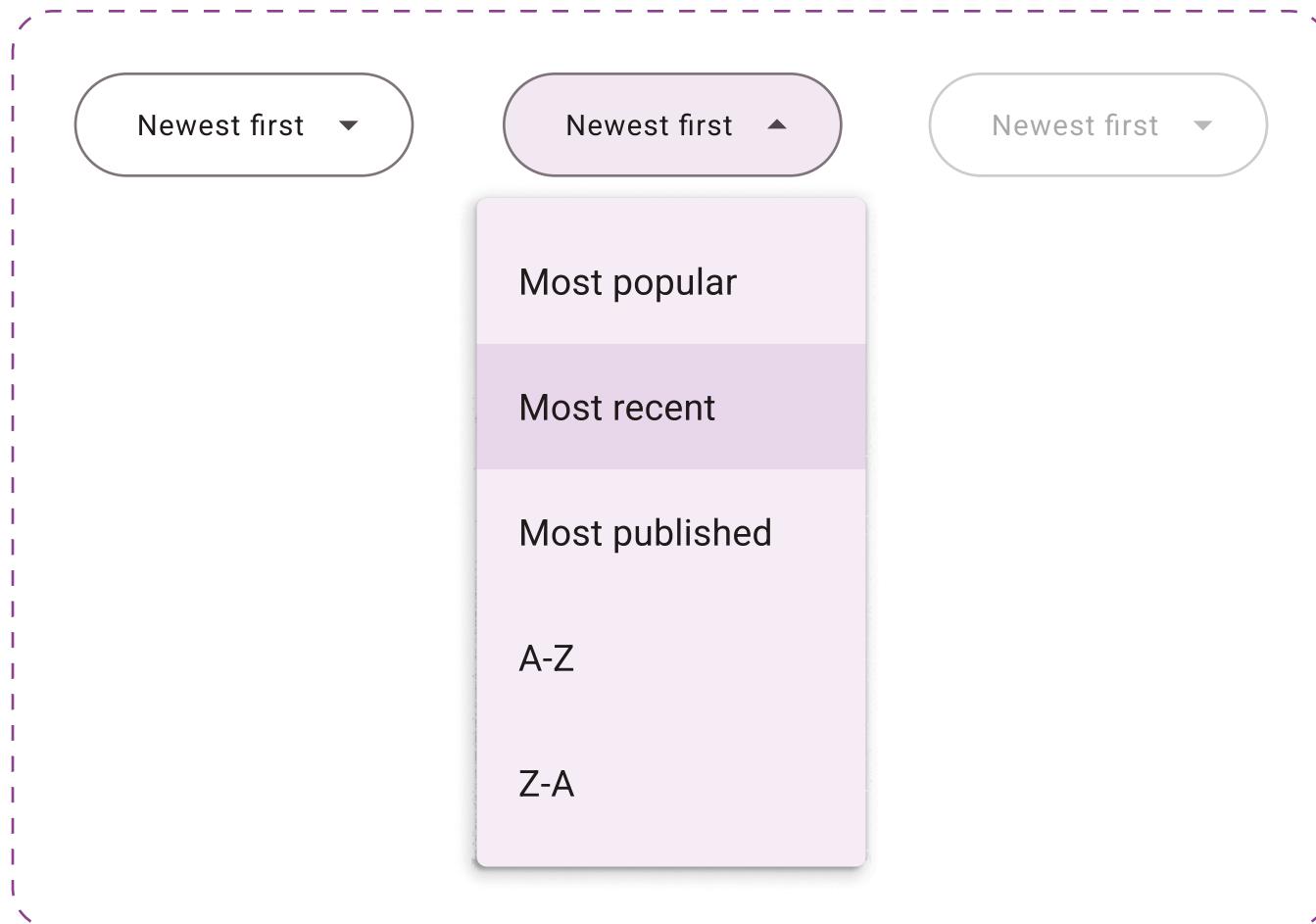
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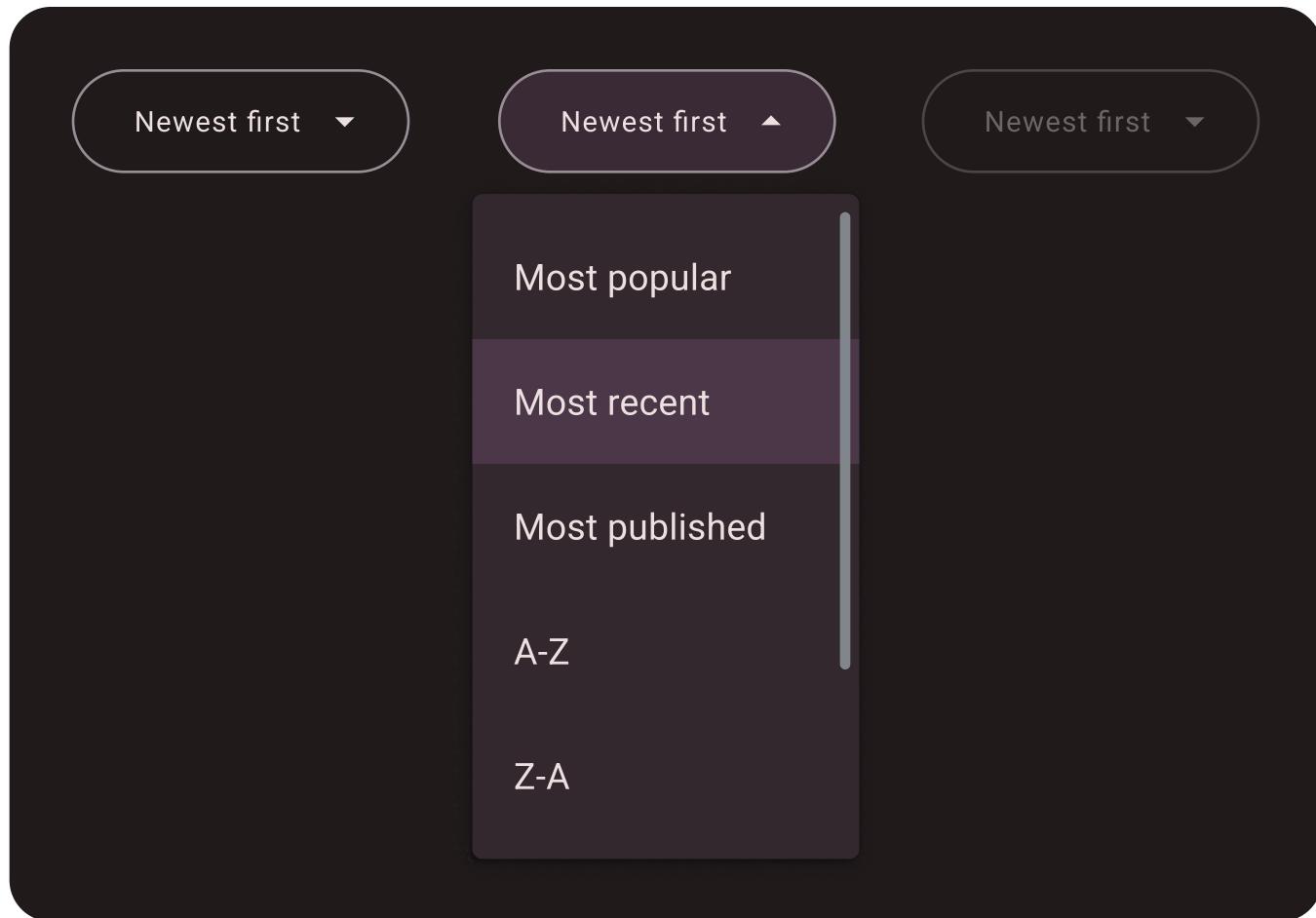
★ Custom color styles



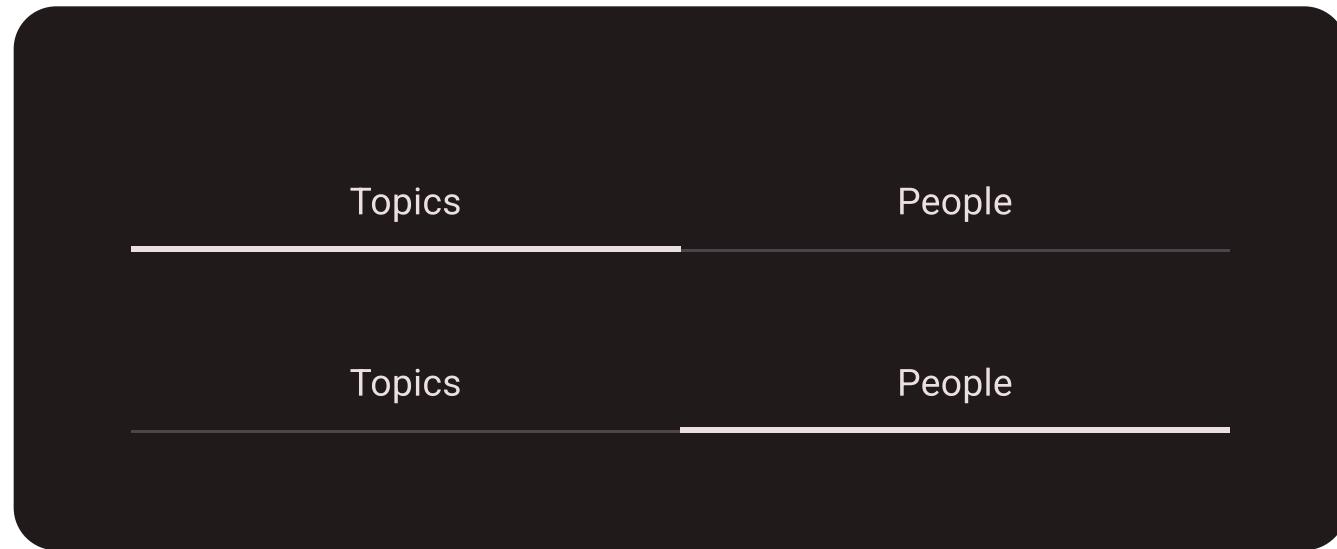
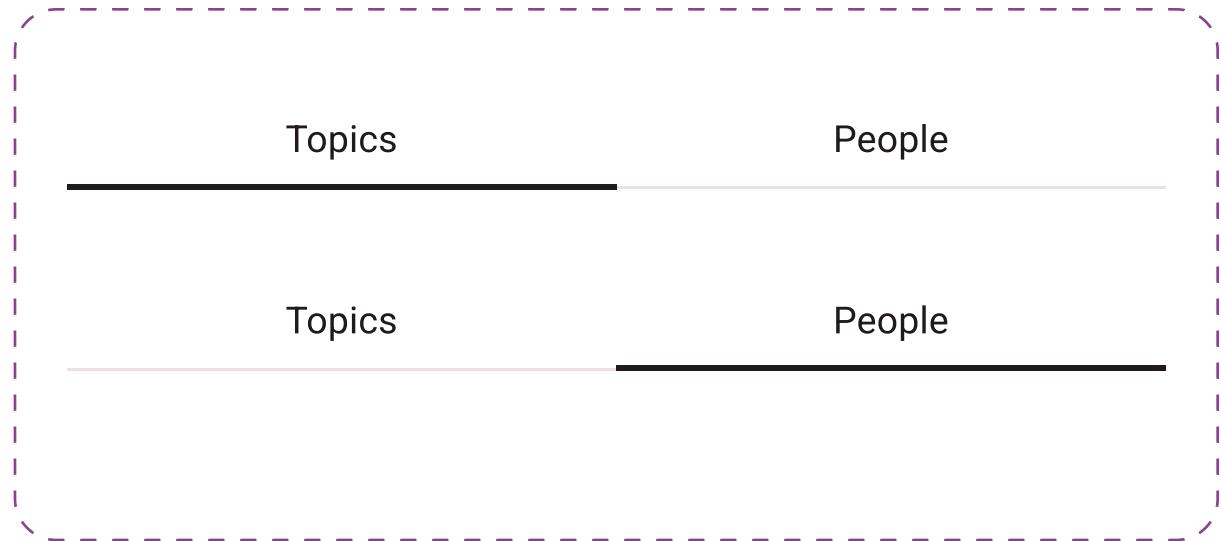
Dropdown Menus (Light)



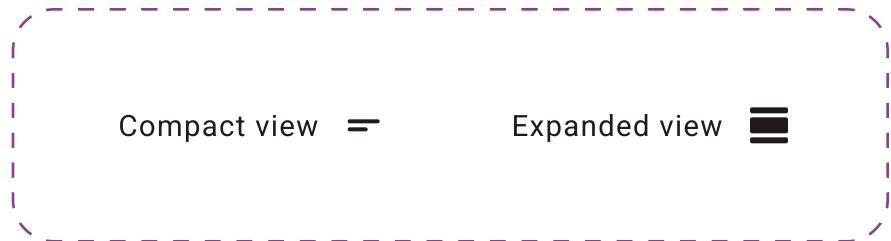
Dropdown Menus (Dark)



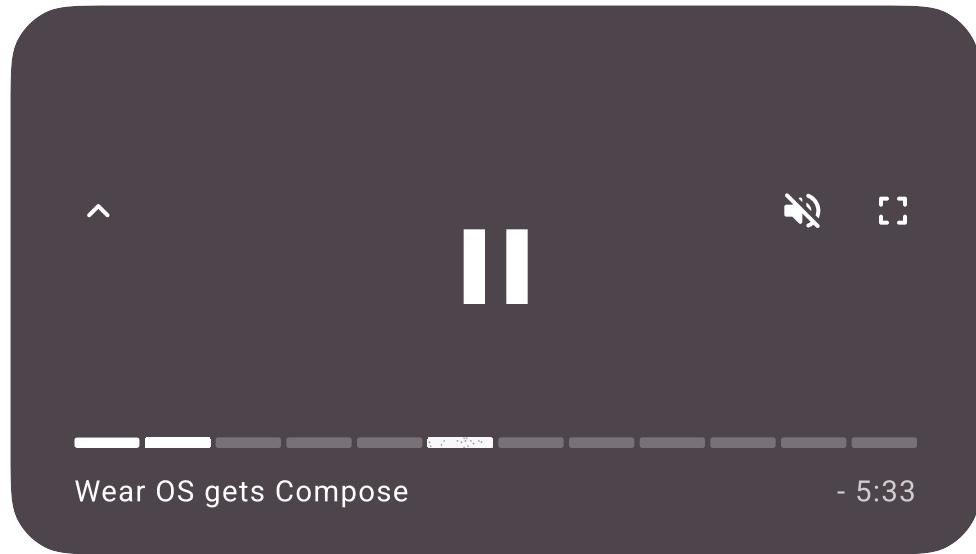
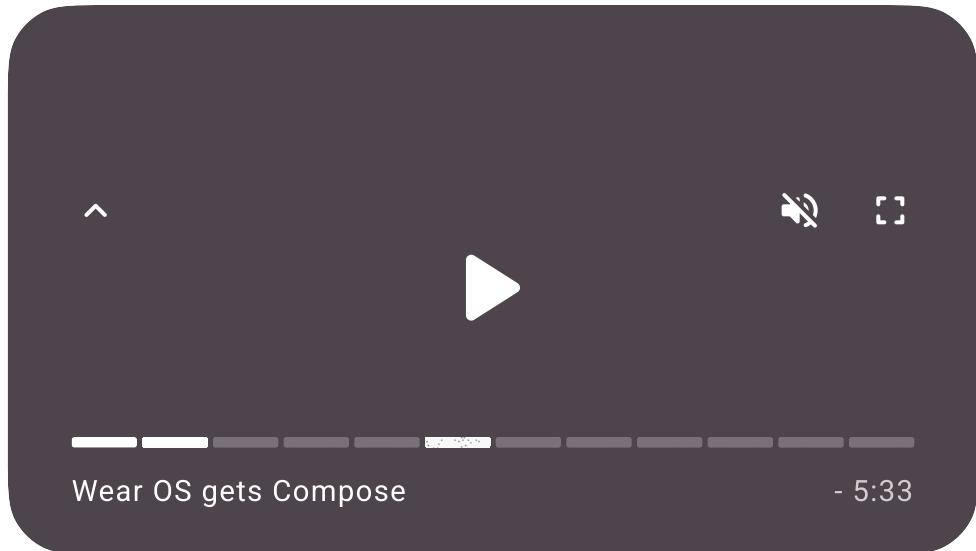
Tabs



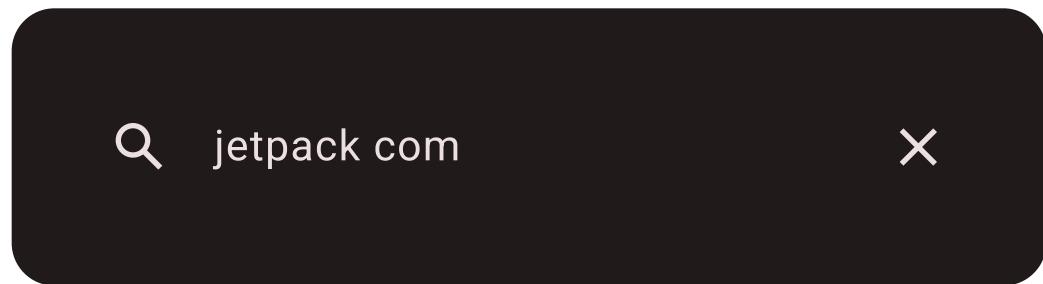
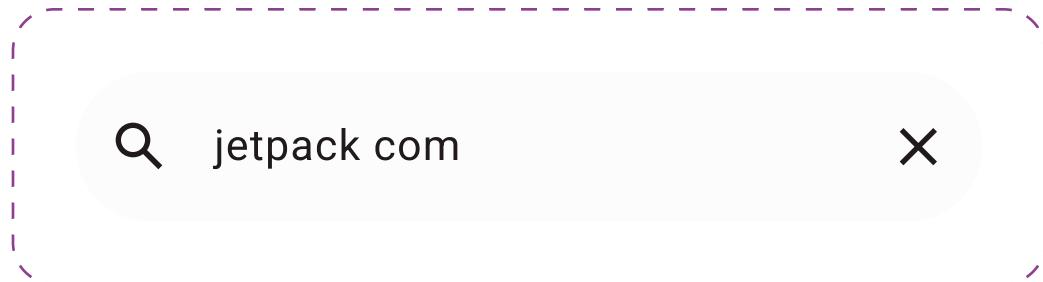
View Toggle



Video

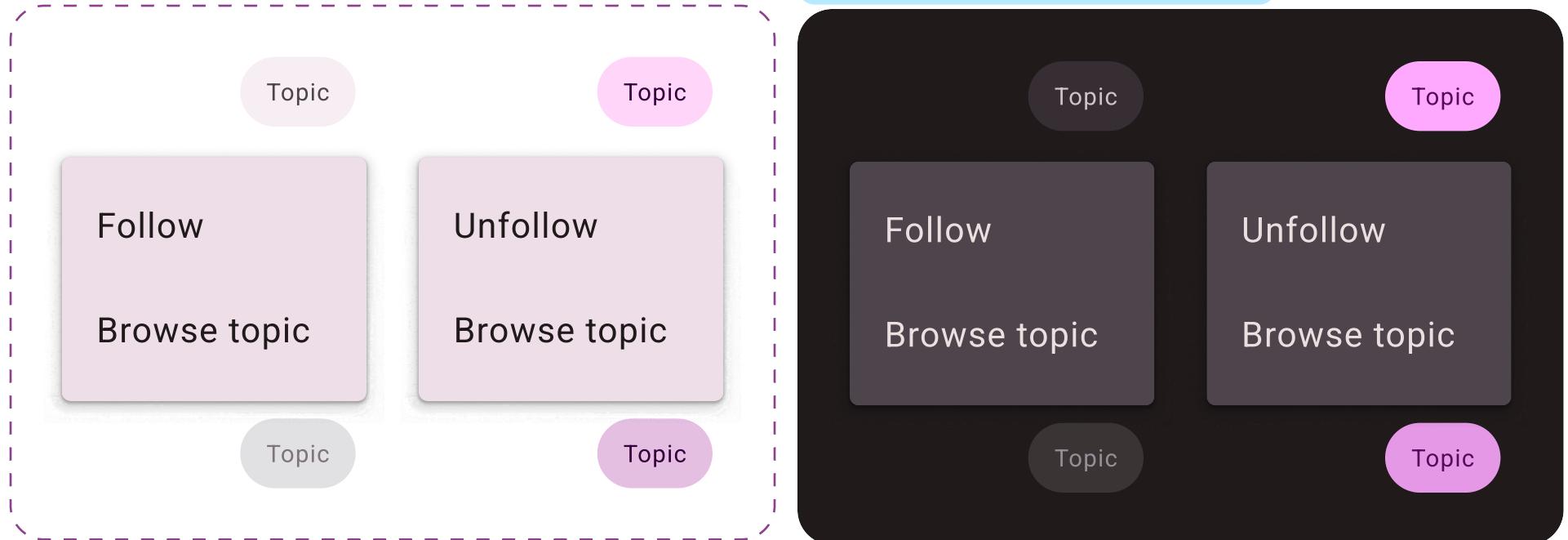


Search Input



Topic Tags

★ Custom color styles



Topic List (Light)



Person



Topic



Person



Topic



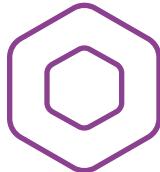
Topic



Topic



At vero eos et accusamus et iusto
odio dignissimos ducimus qui.



Topic



Topic



At vero eos et accusamus et iusto
odio dignissimos ducimus qui.

Topic List (Dark)

★ Custom color styles



Person



Person



Topic

+



Topic



Topic

+



Topic



At vero eos et accusamus et iusto
odio dignissimos ducimus qui.



Topic

+

At vero eos et accusamus et iusto
odio dignissimos ducimus qui.

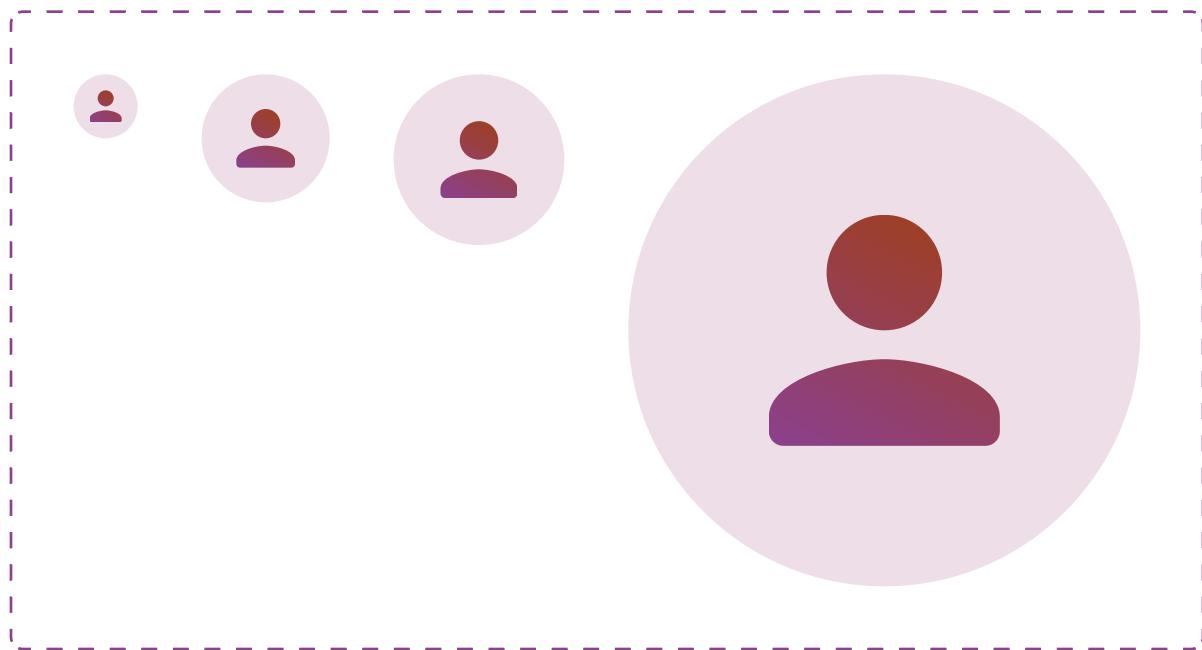


Topic



At vero eos et accusamus et iusto
odio dignissimos ducimus qui.

Place Holder Author Image



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Navigation Bars (Light)

★ Custom color styles



For you



Episodes



Saved



Interests



For you



Episodes



Saved



Interests



For you



Episodes



Saved



Interests



For you



Episodes



Saved



Interests



For you



Episodes



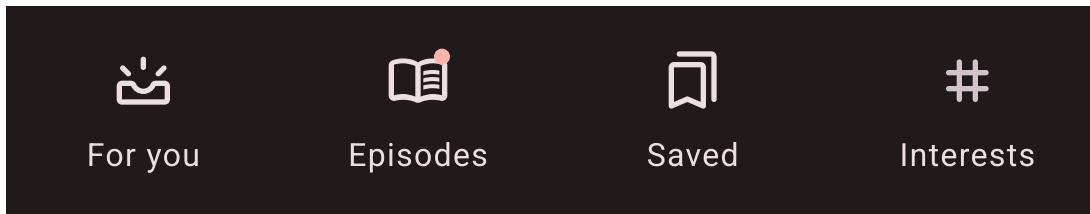
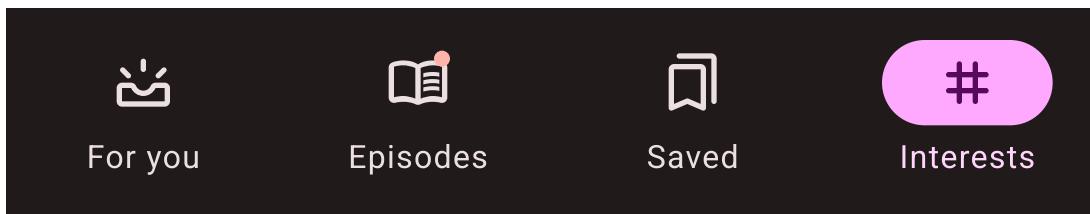
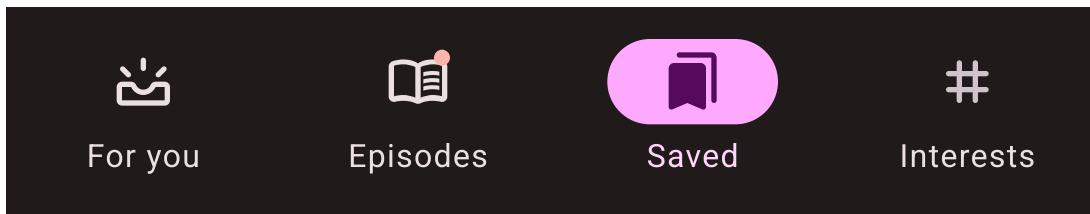
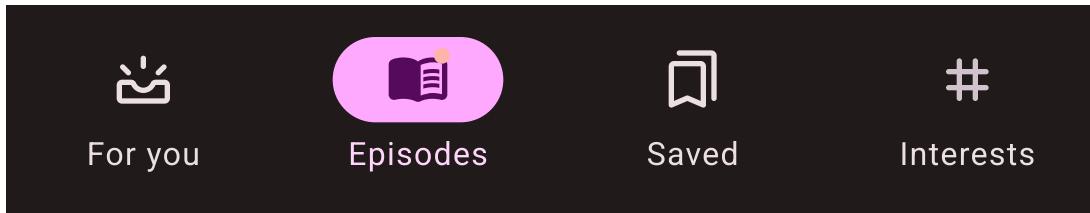
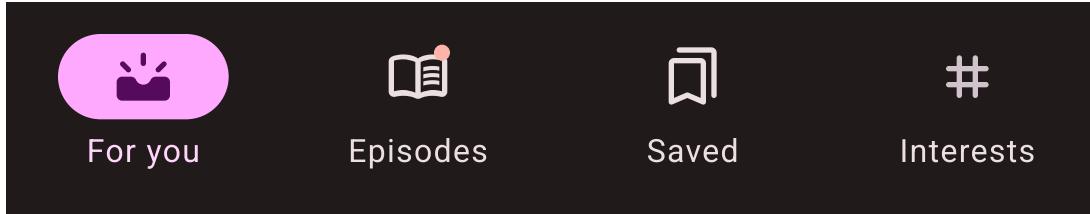
Saved



Interests

Navigation Bars (Dark)

★ Custom color styles



Navigation Bar Alerts

★ Custom color styles



For you



For you



For you



Episodes



Saved



Interests

★ Custom color styles



For you



For you



For you



Episodes



Saved



Interests

Side Navigation Bar

★ Custom color styles

📺 For you

📖 Episodes

Bookmark Saved

Interests

★ Custom color styles

📺 For you

📖 Episodes

Bookmark Saved

Interests

Switch

★ Custom color styles and component style



★ Custom color styles and component style



Switch text



Switch text



Switch text



Switch text



Top App Bar (Light)

← Title



←



Title

←



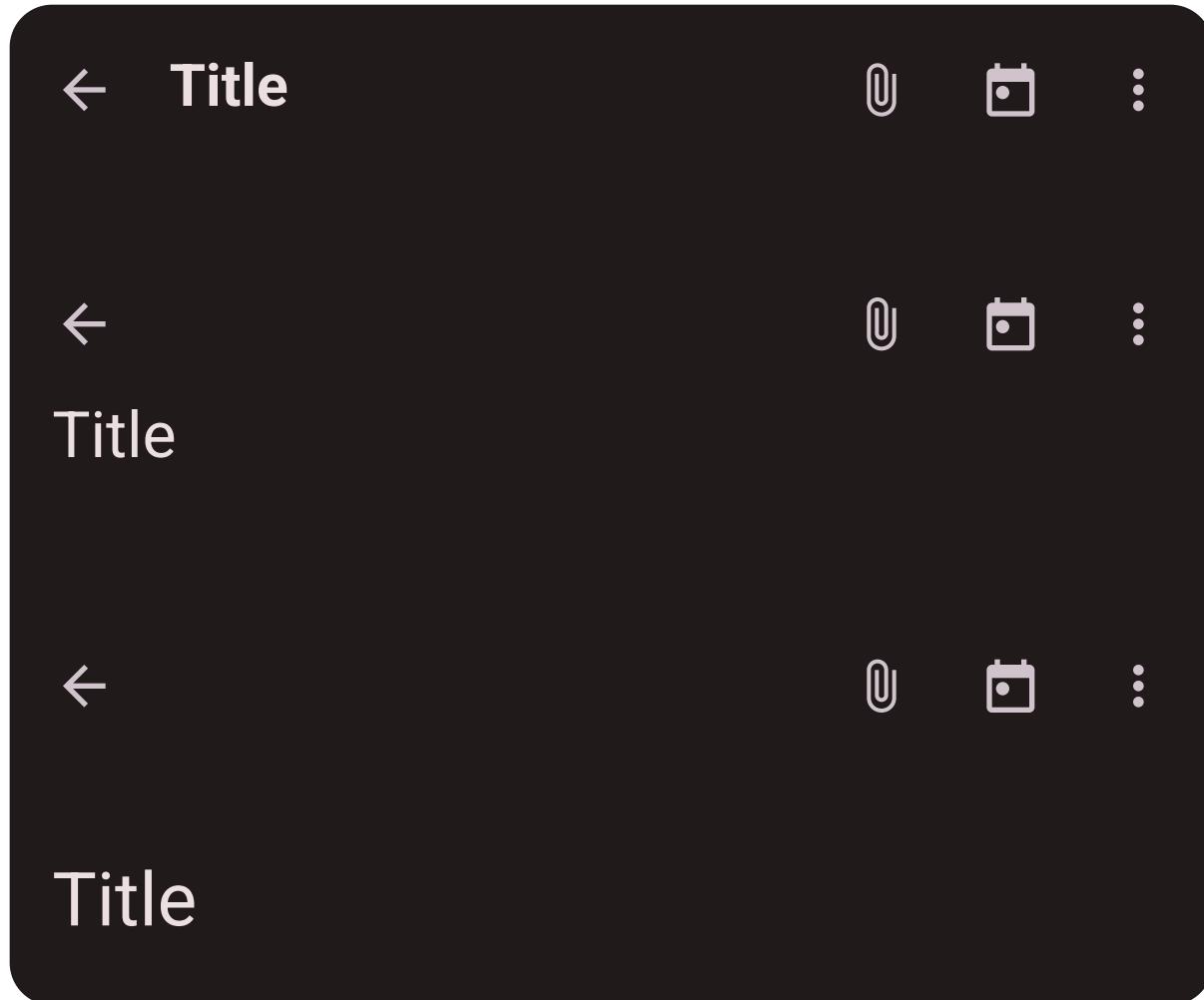
Title

←

Title



Top App Bar (Dark)





Errors & Loading



Error and loading states should follow these sample designs.



Errors & Loading

