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.
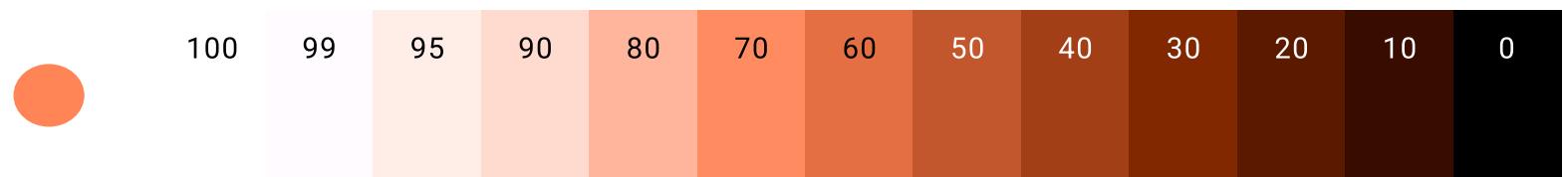
Color Styles

Tonal Palettes
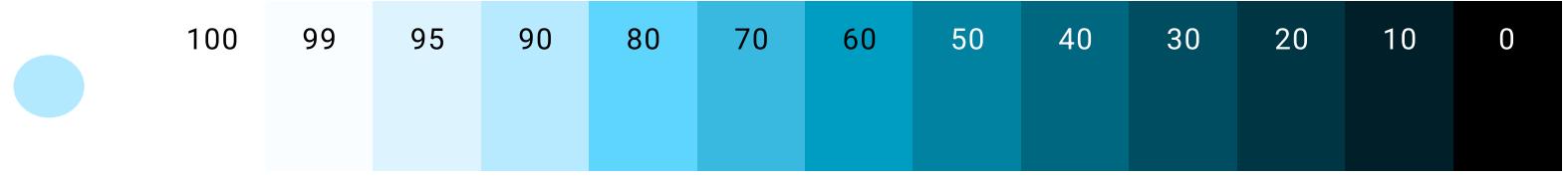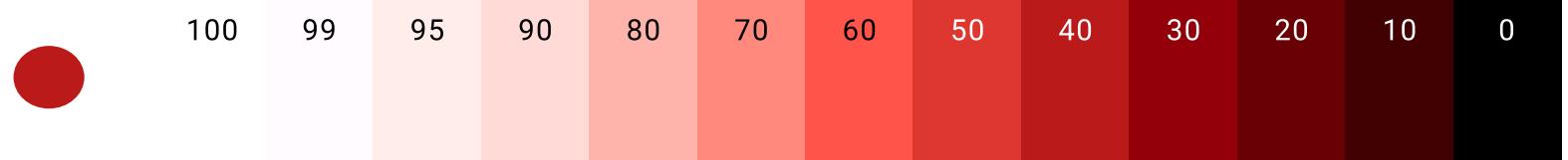
		100	99	95	90	80	70	60	50	40	30	20	10	0
Primary														
Secondary														
Tertiary														
Error														

		100	99	95	90	80	70	60	50	40	30	20	10	0
Neutral														
Neutral Variant														

{ 2 }

Color Styles

Light

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

Custom styles

Background Neutral99	On Background Neutral10	Surface Neutral99	On Surface Neutral10

Surface Variant Neutral-Variant90	On Surface Variant Neutral-Variant30	Outline Neutral-Variant50

Custom styles

Inverse Surface Neutral20	Inverse On Surface Neutral95

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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

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

Custom styles

Inverse Surface	Inverse On Surface
Neutral90	Neutral10

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Color Styles

| Light	Dark
Surface	Surface
Surface at +1 + 5% Primary	Surface at +1 + 5% Primary
Surface at +2 + 8% Primary	Surface at +2 + 8% Primary
Surface at +3 + 11% Primary	Surface at +3 + 11% Primary
Surface at +4 + 12% Primary	Surface at +4 + 12% Primary
Surface at +5 + 14% Primary	Surface at +5 + 14% Primary

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Color Gradients
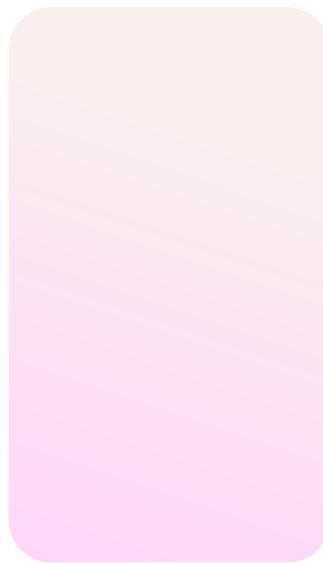
Light
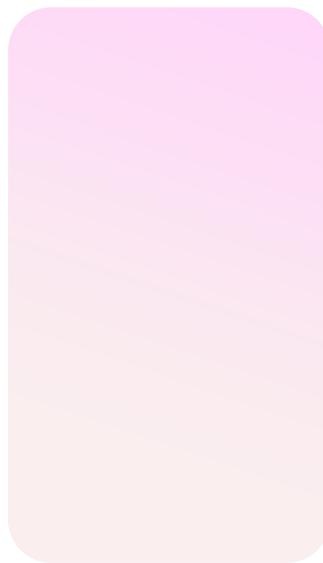
primary-container +
tertiary-container

tertiary-container +
primary-container
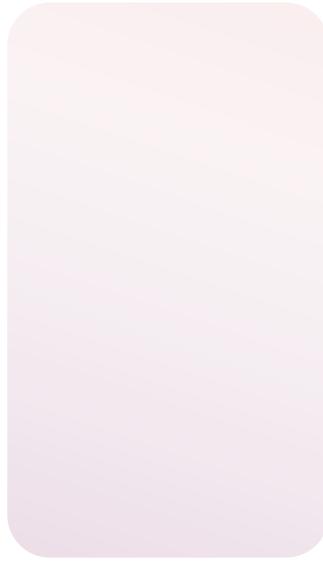
inverse-on-surface +
primary-container
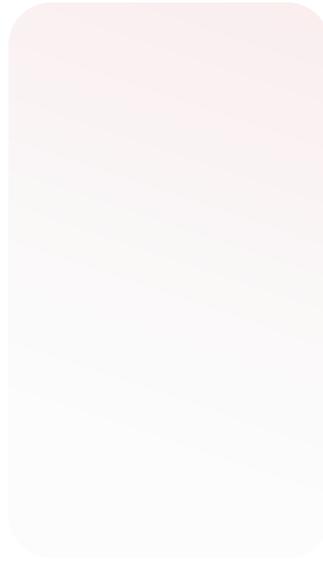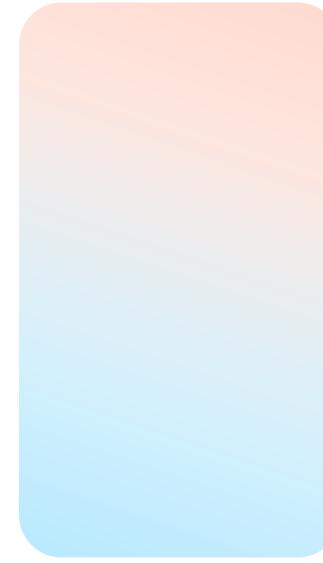
tertiary-container +
inverse-on-surface

inverse-on-surface +
tertiary-container

inverse-on-surface +
surface-varient
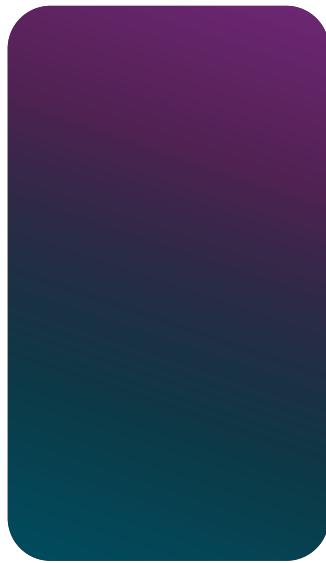
inverse-on-surface +
surface
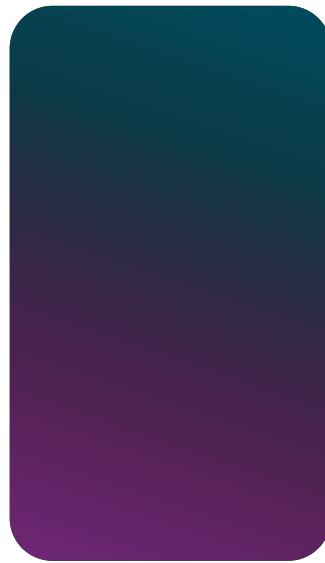
secondary-container +
tertiary-container

Color Gradients
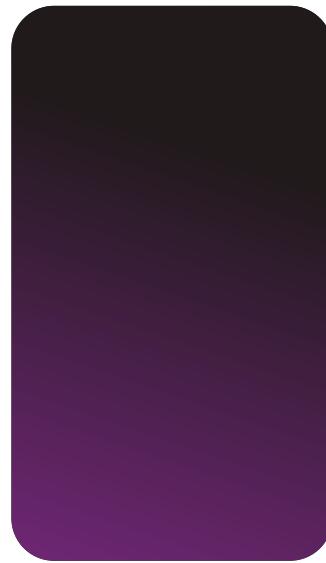
Dark
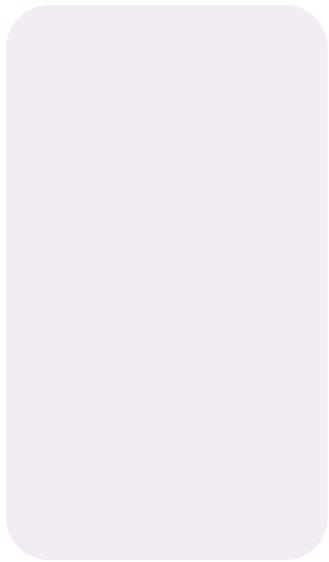
primary-container + tertiary-container	tertiary-container + primary-container	inverse-on-surfac + primary-container	tertiary-container + inverse-on-surfac
inverse-on-surface + tertiary-container	inverse-on-surface + surface-varient	inverse-on-surface + surface	secondary-container + tertiary-container

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
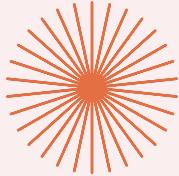
Body Medium - Roboto 14/20 . +0.25

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
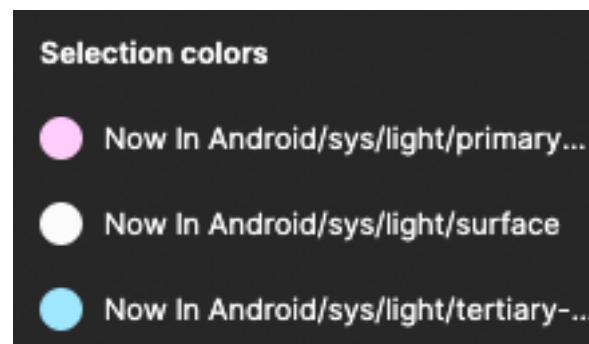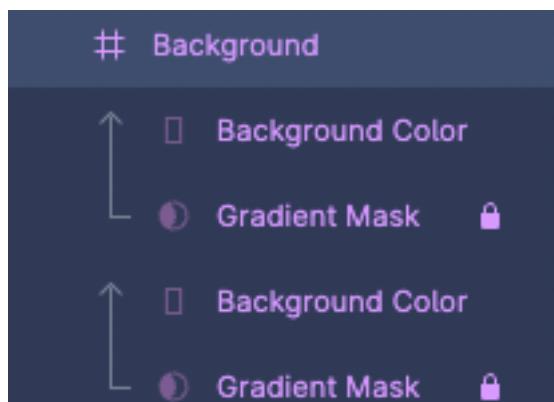
ILLUSTRATIONS & ELEMENTS
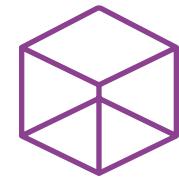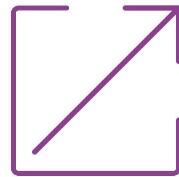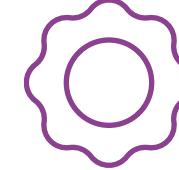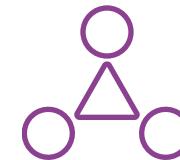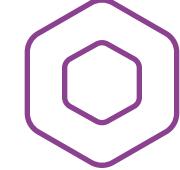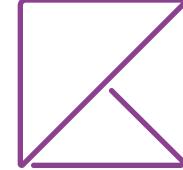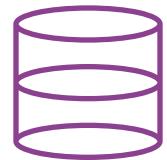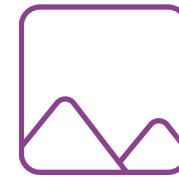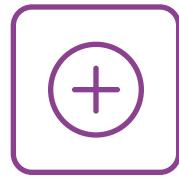
Icon elements use <u>Material design icons</u> or were custom built.

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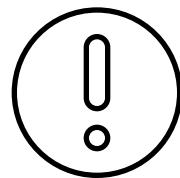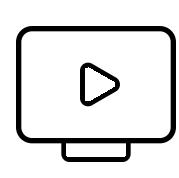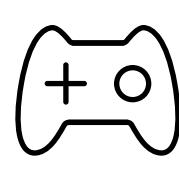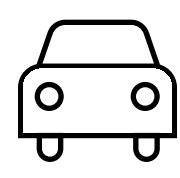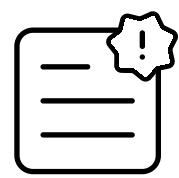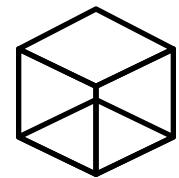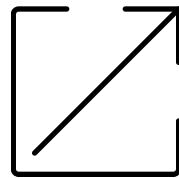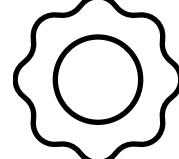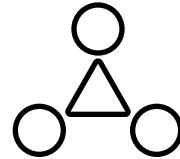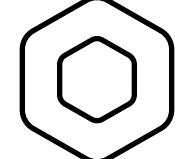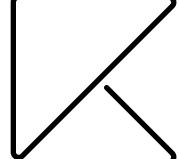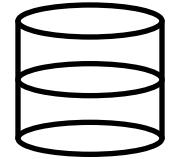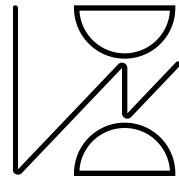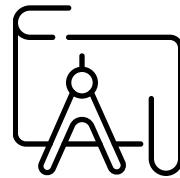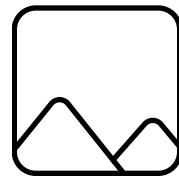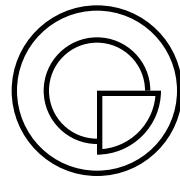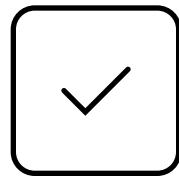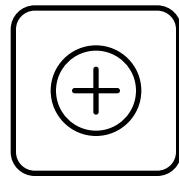
Gradient colors in figma don't currently allow for style names but require hex numbers instead. So that gradients styles can be dynamically themed we used gradient masks and selection colors to create gradient components.
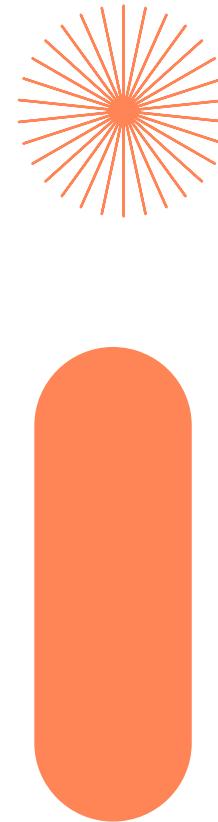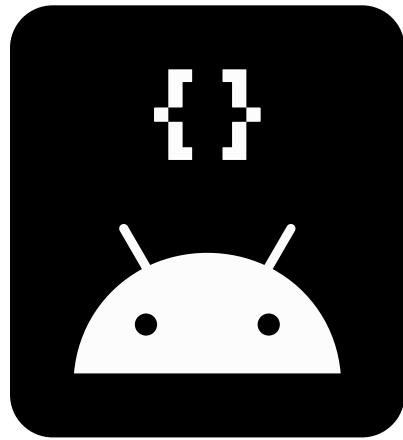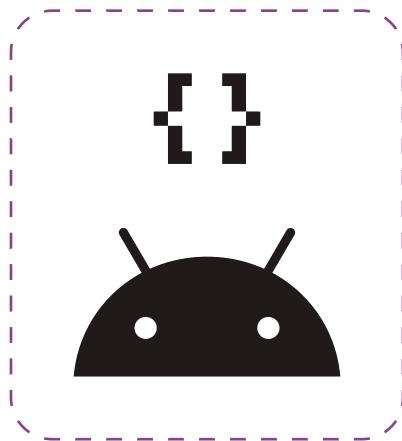
Solid Icons and Illustrations

Black/White Icons and Illustrations
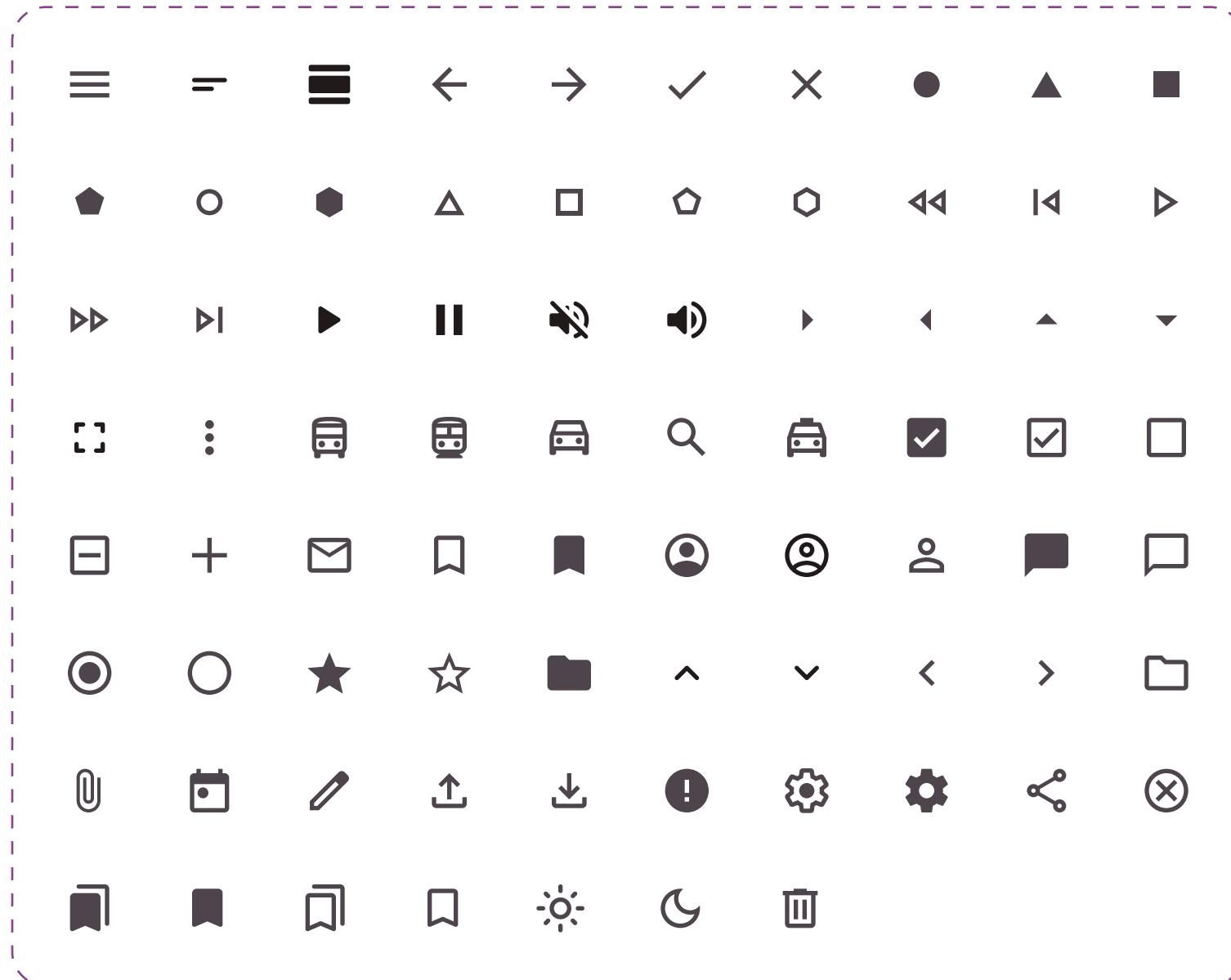
# Logos and Illustrations

Elements

Material icons
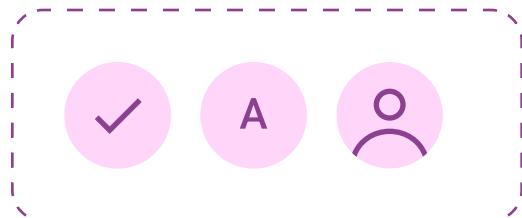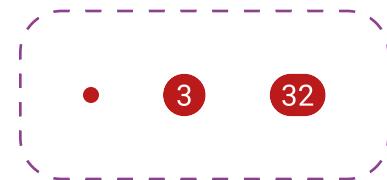
Elements

Custom icons & other elements

9:30

LAYOUT

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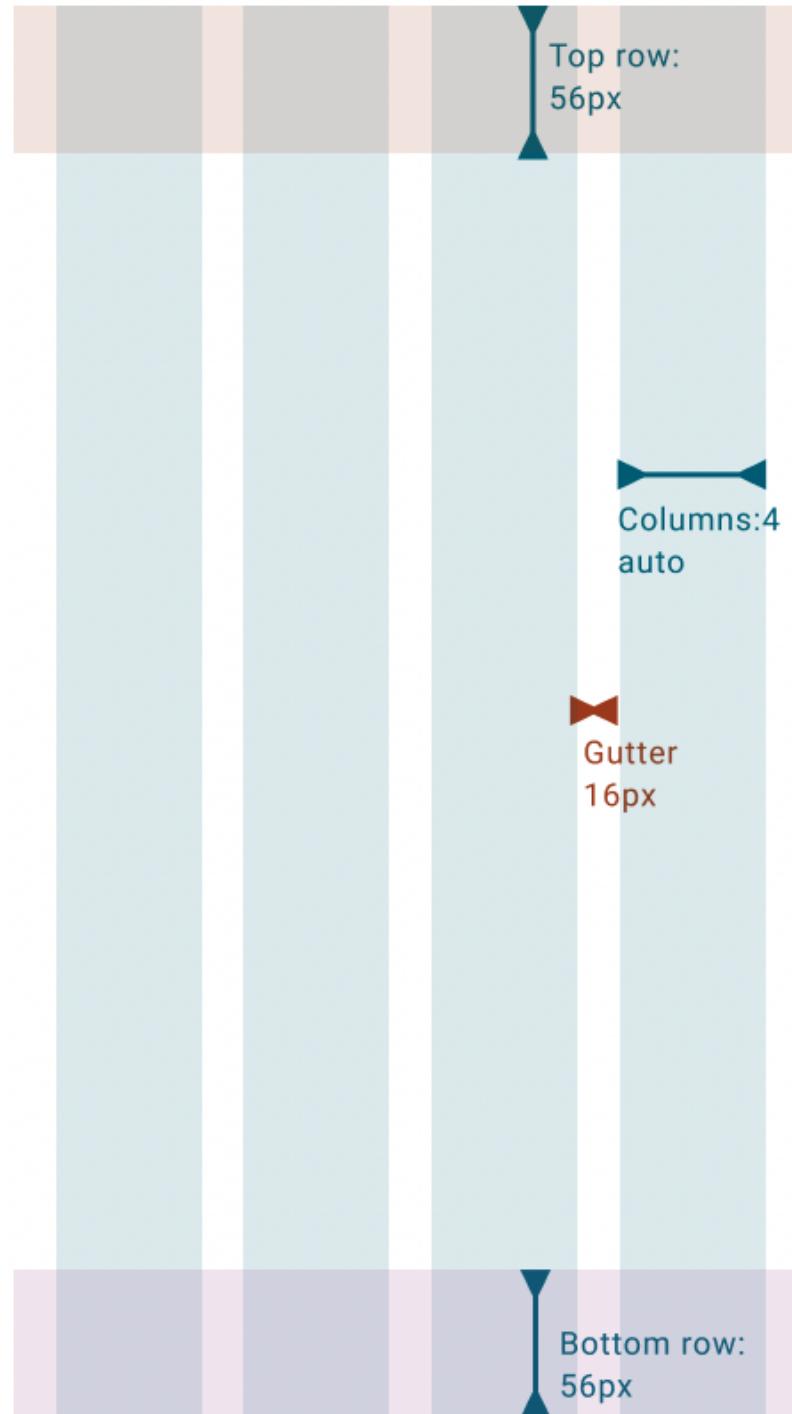
These designs give the main margins, paddings, row size and colomn count for various screen sizes and layouts.

The entire view isn't shown for these designs or has been re-sized to fit.
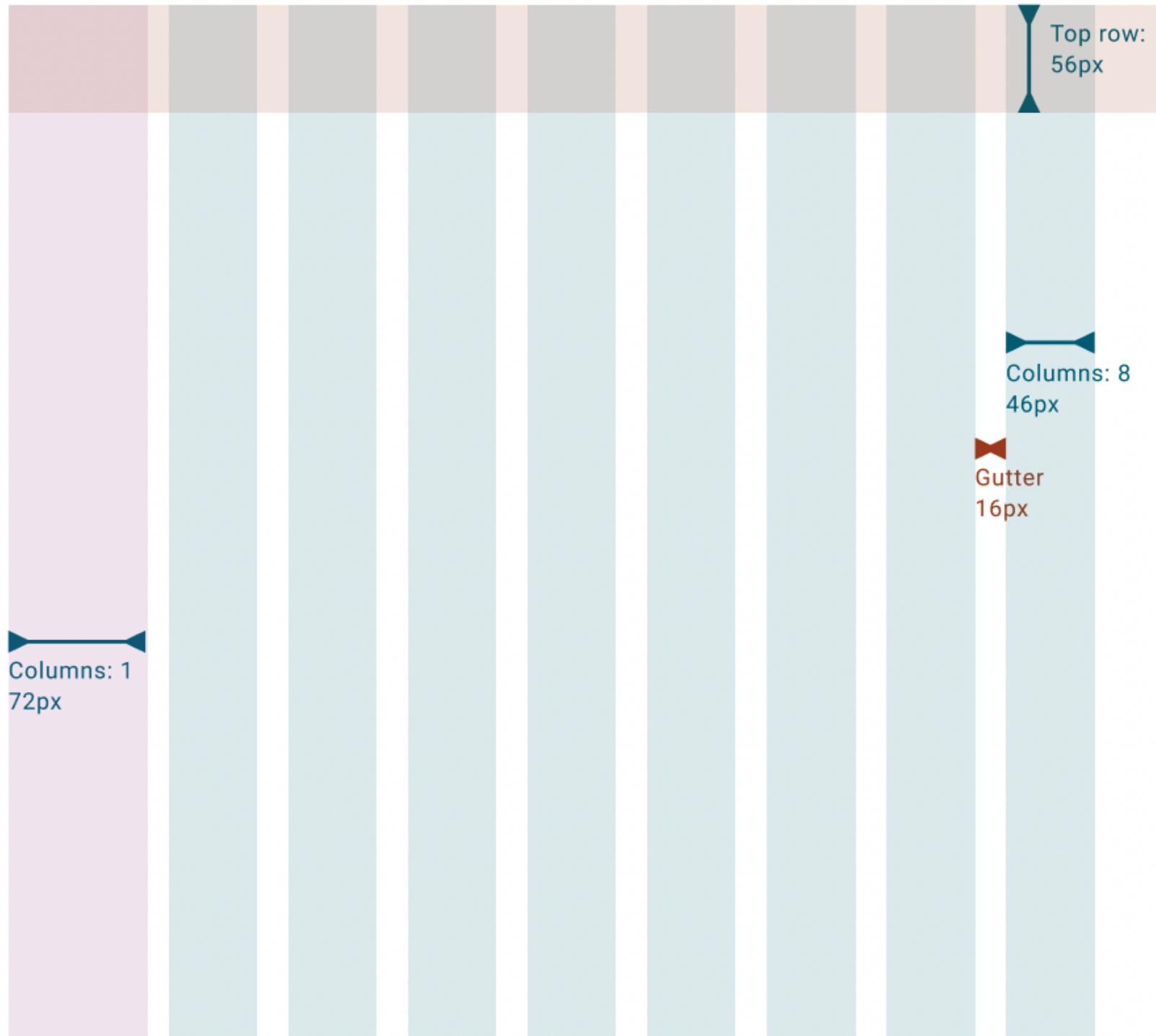
Extra Small (0-599dp)

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

Top row: 56px

Columns:4 auto

Gutter 16px

Bottom row: 56px
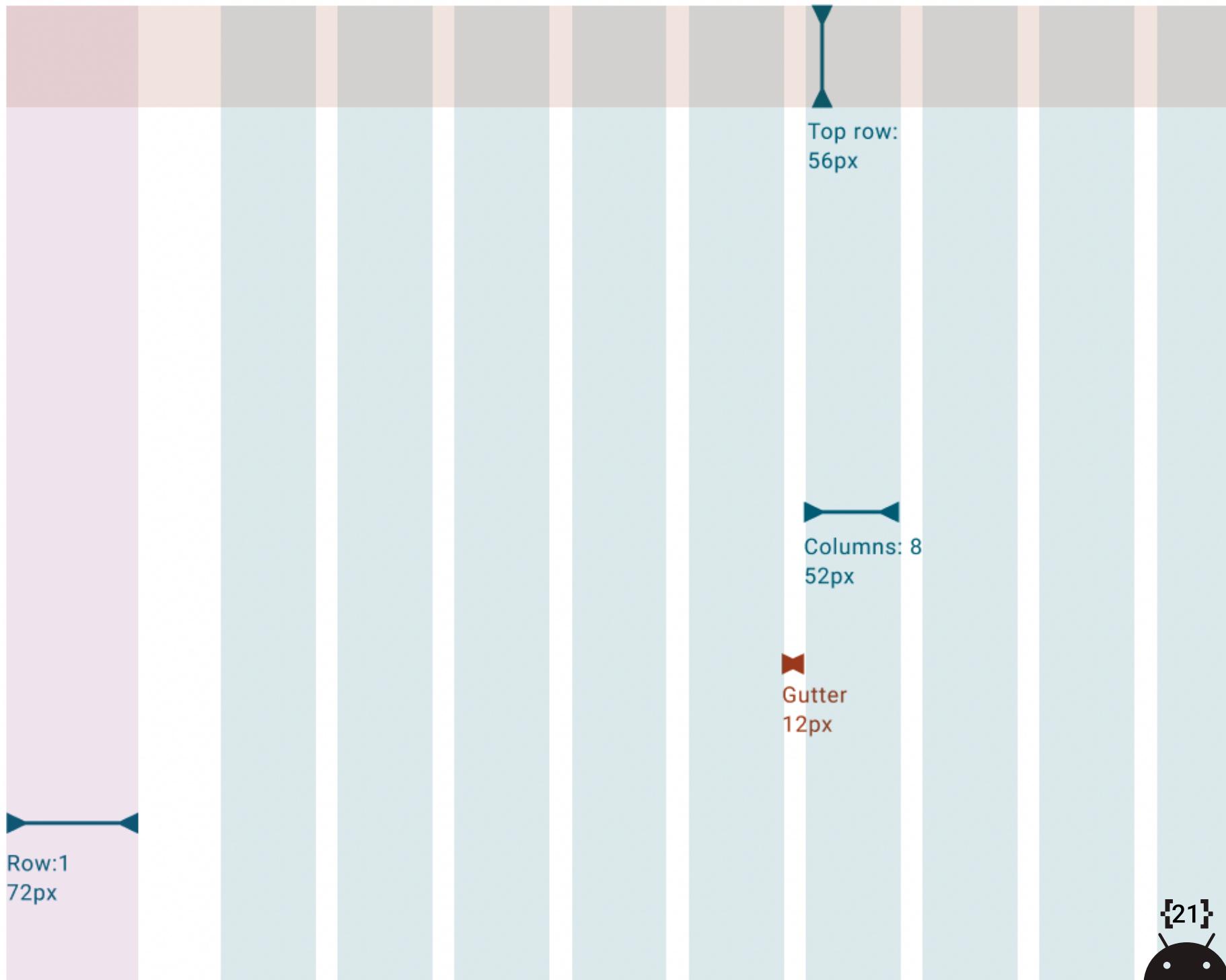
Small (600-904dp)

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

Top row: 56px

Columns: 8
46px

Gutter
16px

Columns: 1
72px

{20}
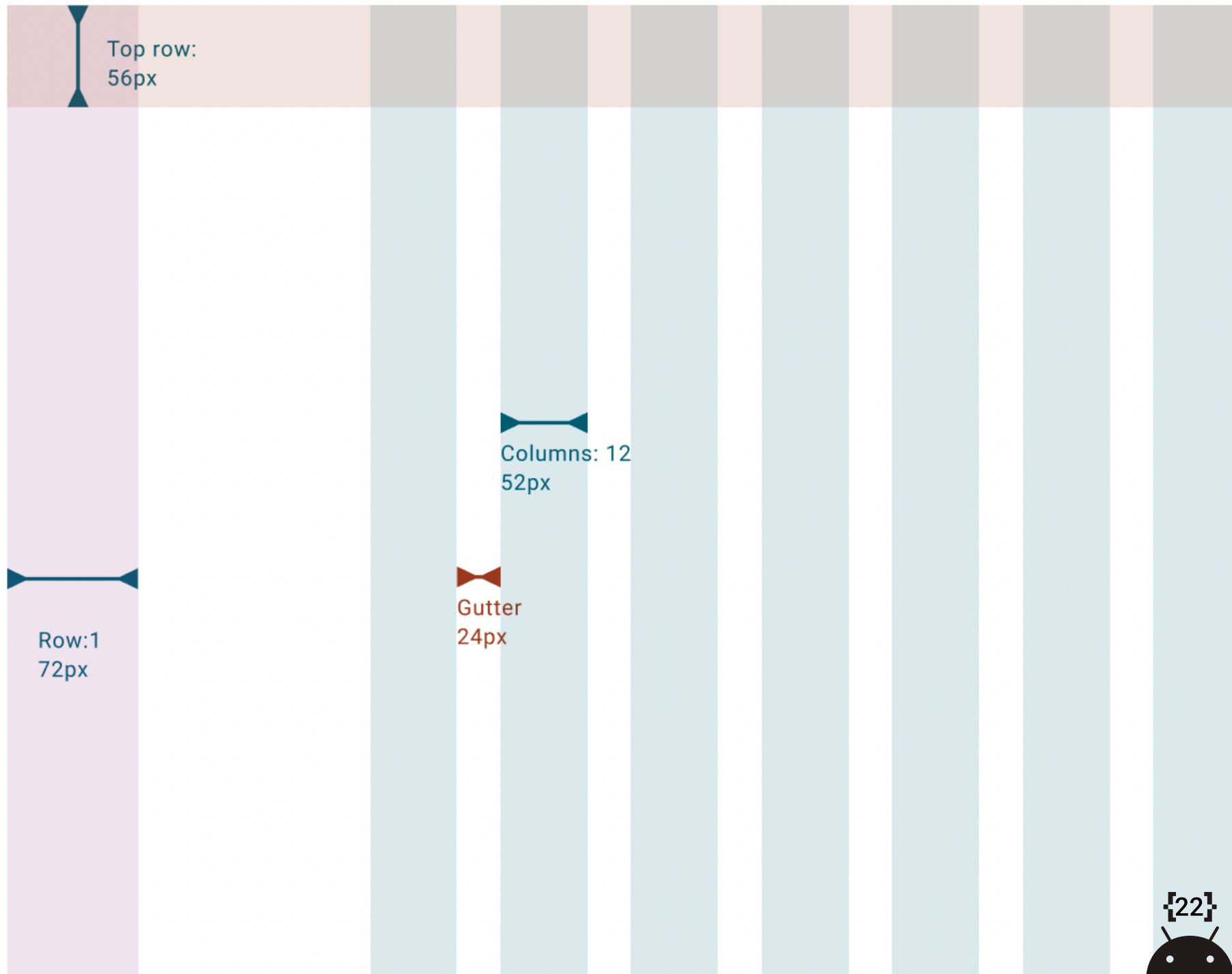
Medium (905-1239dp)

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

Top row:
56px

Columns: 8
52px

Gutter
12px

Row:1
72px

{21}

Medium (1240-1439dp)

Top row:
56px

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

Columns: 12
52px

Gutter
24px

Row:1
72px
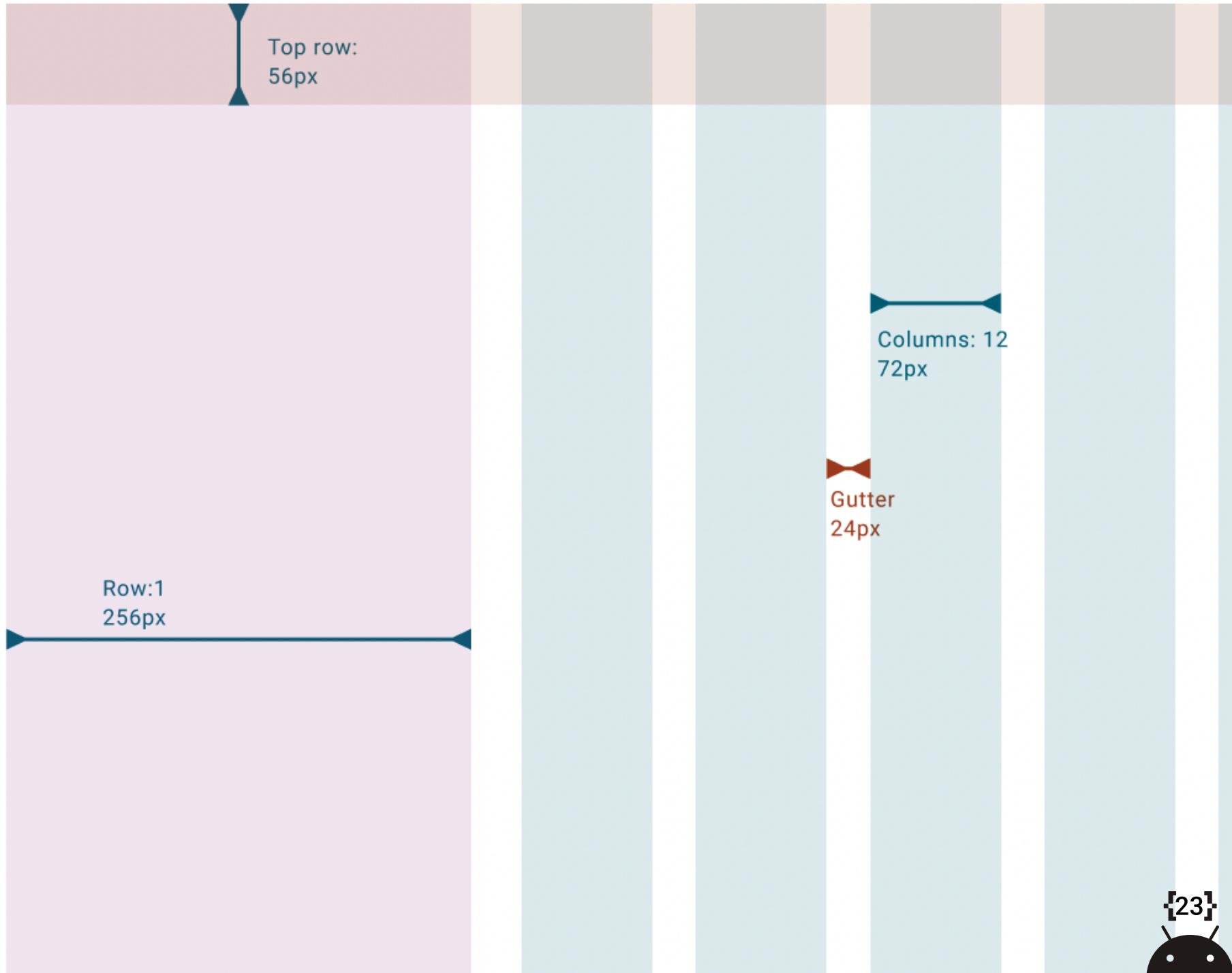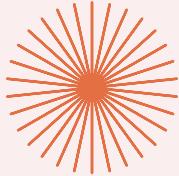
Large (1440+dp)

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

Top row: 56px

Columns: 12
72px

Gutter
24px

Row:1
256px

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COMPONENTS

The figma Material 3 Design Kit was used to originally design the components for this file and are reccommended 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 componets beyond what M3 offers you must carefully test these components for accessiblity.

Buttons (Light)

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

{25}

# 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 |

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Icons Butons (Light)

{27}

Icons Butons (Dark)

{28}

Radio Buttons

Title

⦿ Text

◯ Text

Title

⦿ Text

◯ Text

Checkbox Buttons

Text ✓

Text ☐

Text ✓

Text ☐

Cards (Light)

Author
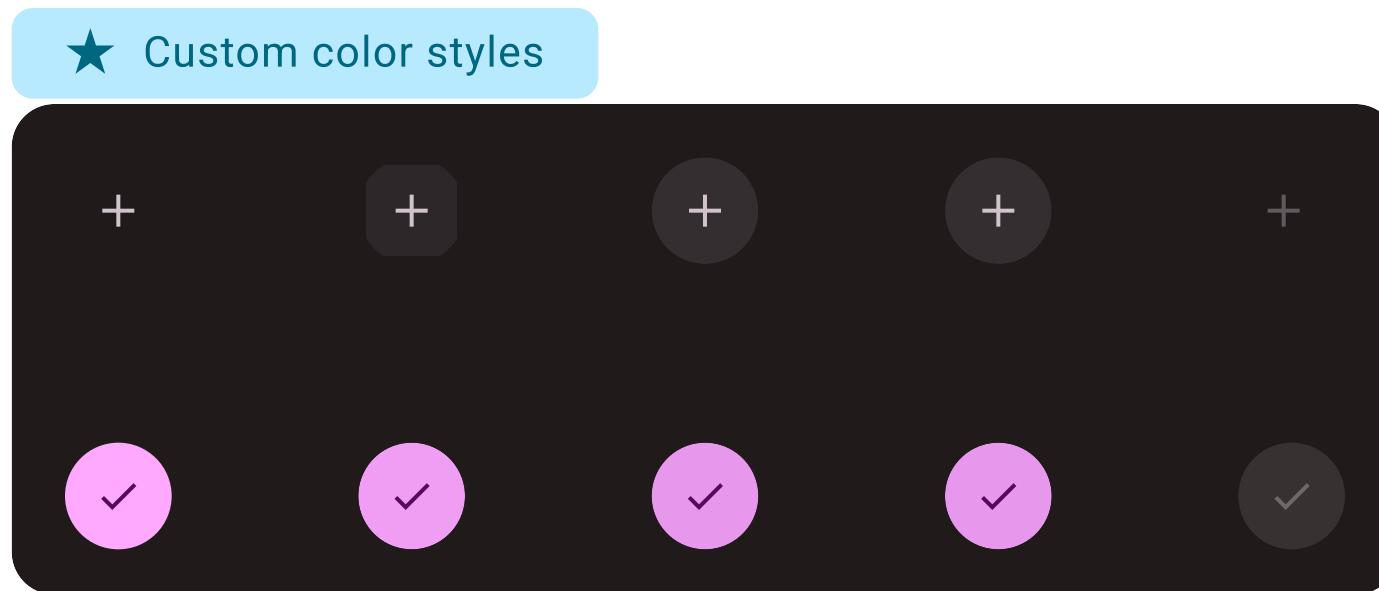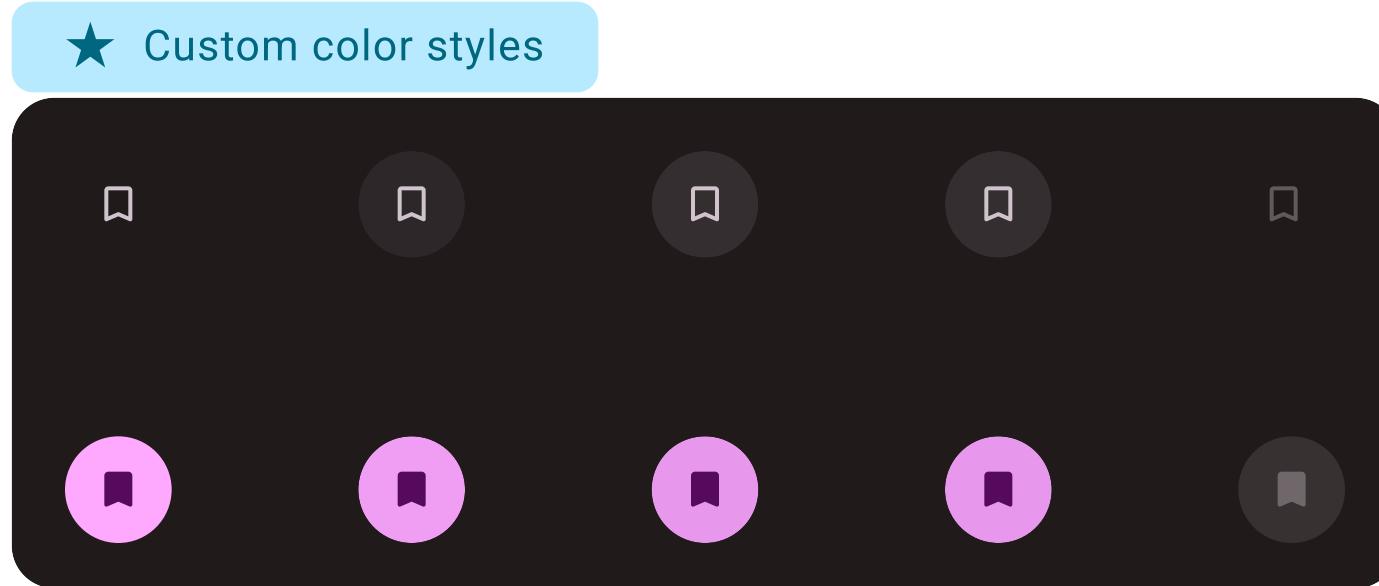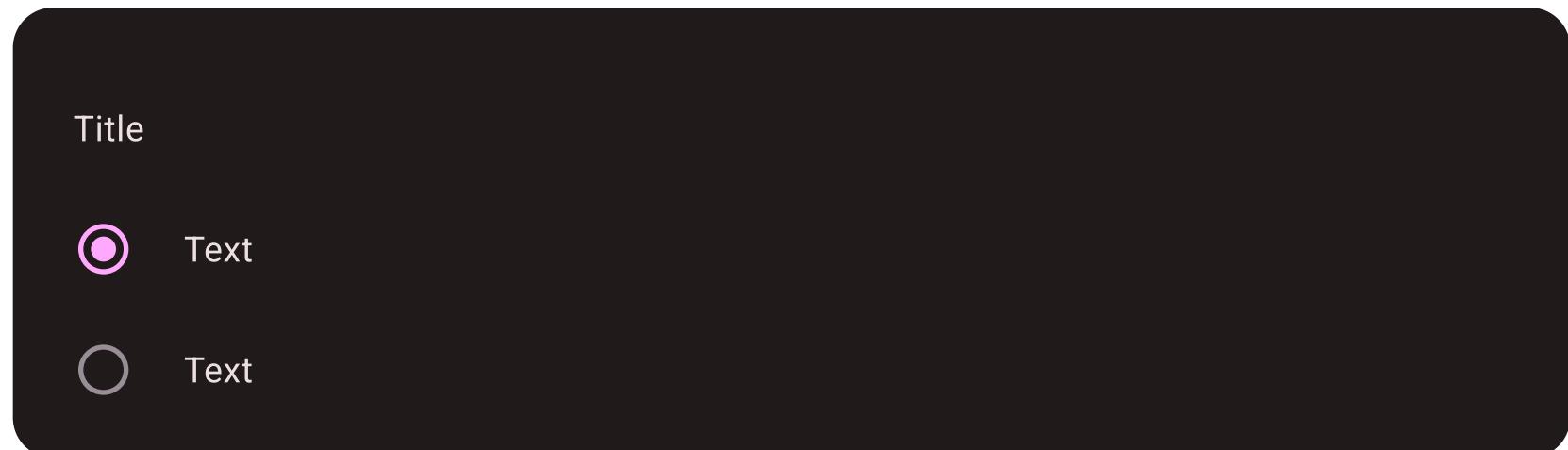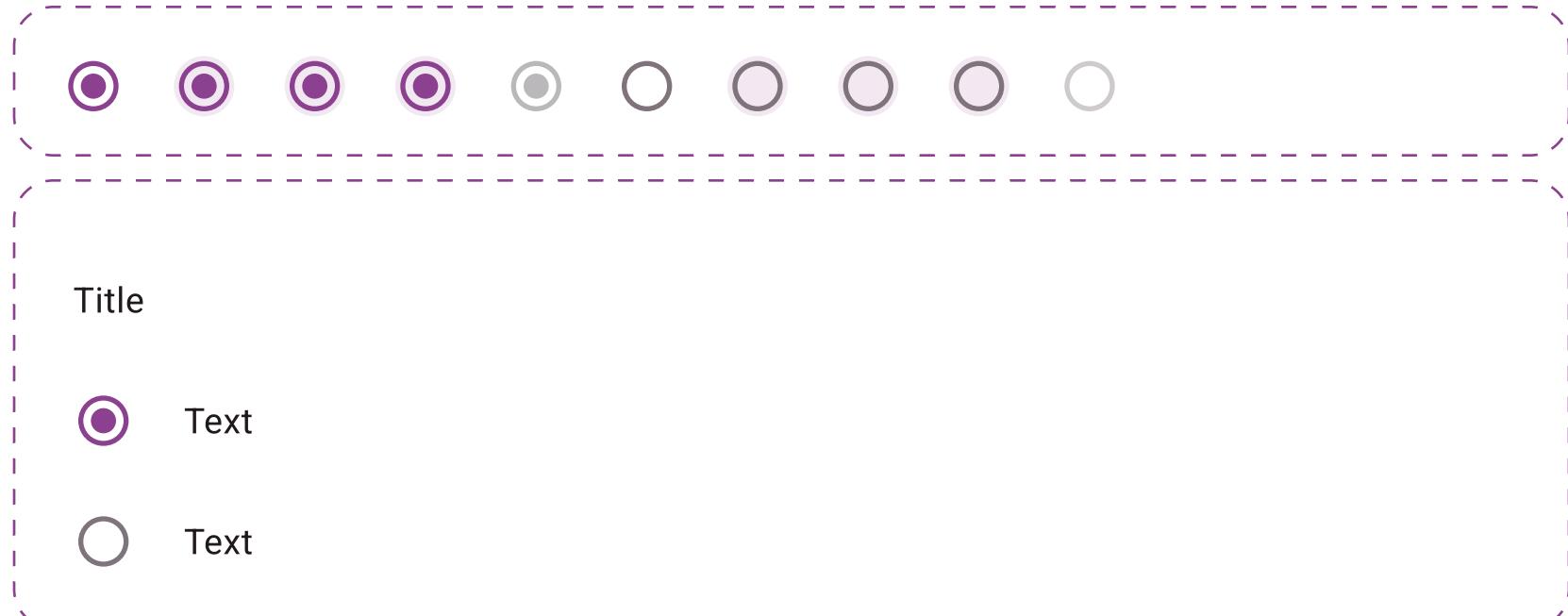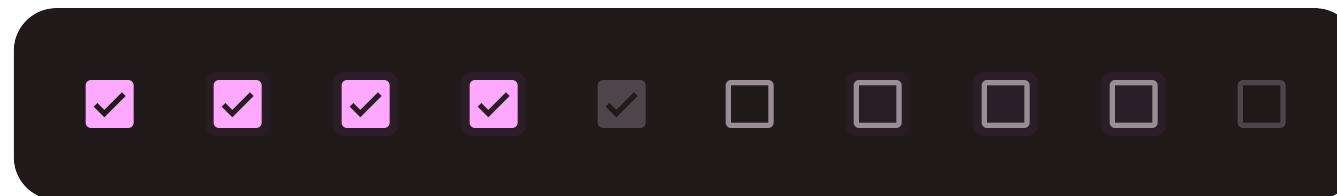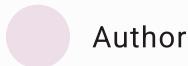
Update headline

⬤ January 1, 2021 • developer.android.com

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

Topic Topic Topic Topic Topic ⋮

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 ⋮

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Cards (Dark)

Update headline

January 1, 2021 • developer.android.com

Topic | Topic | Topic | Topic | Topic

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

Author

Update headline

January 1, 2021 • developer.android.com

Topic | Topic | Topic | Topic | Topic

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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.

Enabled   Enabled

Chips

Enabled	Hovered	Focused	Pressed	Pressed
✓ Enabled	✓ Hovered	✓ Focused	✓ Pressed	✓ Disabled

★ Custom color styles

Enabled	Hovered	Focused	Pressed	Disabled
✓ Enabled	✓ Hovered	✓ Focused	✓ Pressed	✓ Disabled

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Dropdown Menus (Light)

Newest first ▼

Newest first ▲

Newest first ▼

Most popular

Most recent

Most published

A-Z

Z-A

Dropdown Menus (Dark)

Newest first ▼

Newest first ▲

Most popular

Most recent

Most published

A-Z

Z-A

Newest first ▼

Tabs

Topics   People

Topics   People

Topics   People

Topics   People

View Toggle

Compact view ☰   Expanded view ☰

Compact view ☰   Expanded view ☰

Video

Wear OS gets Compose — 5:33

Wear OS gets Compose — 5:33

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Search Input

🔍 jetpack com	✕

🔍 jetpack com ✕

【40】
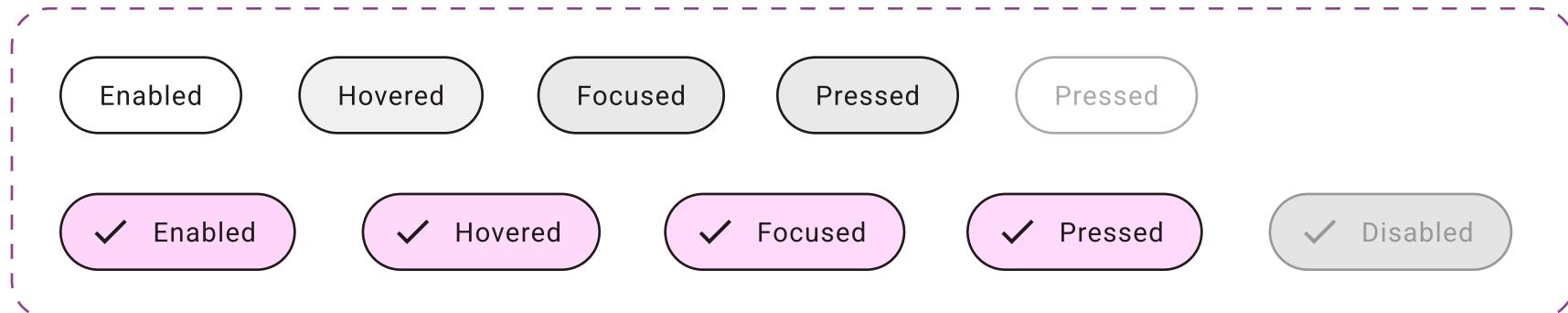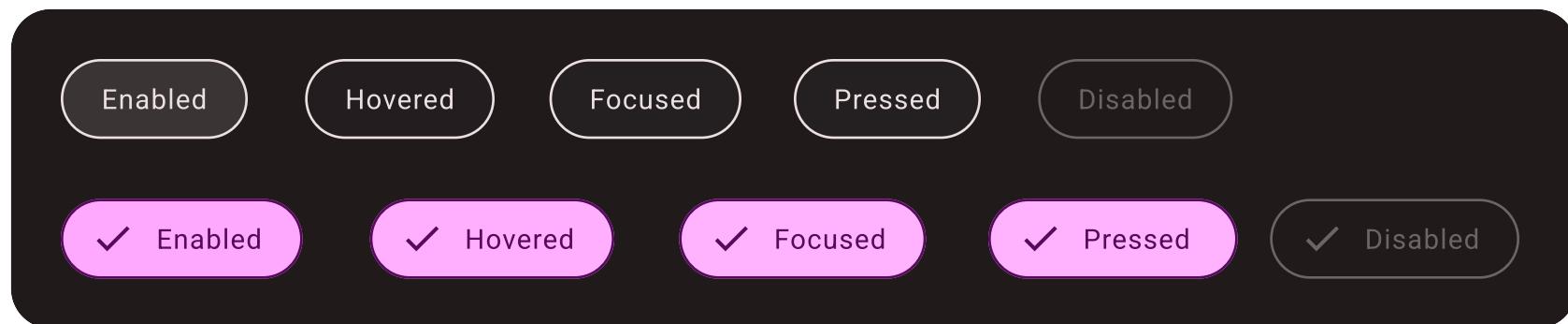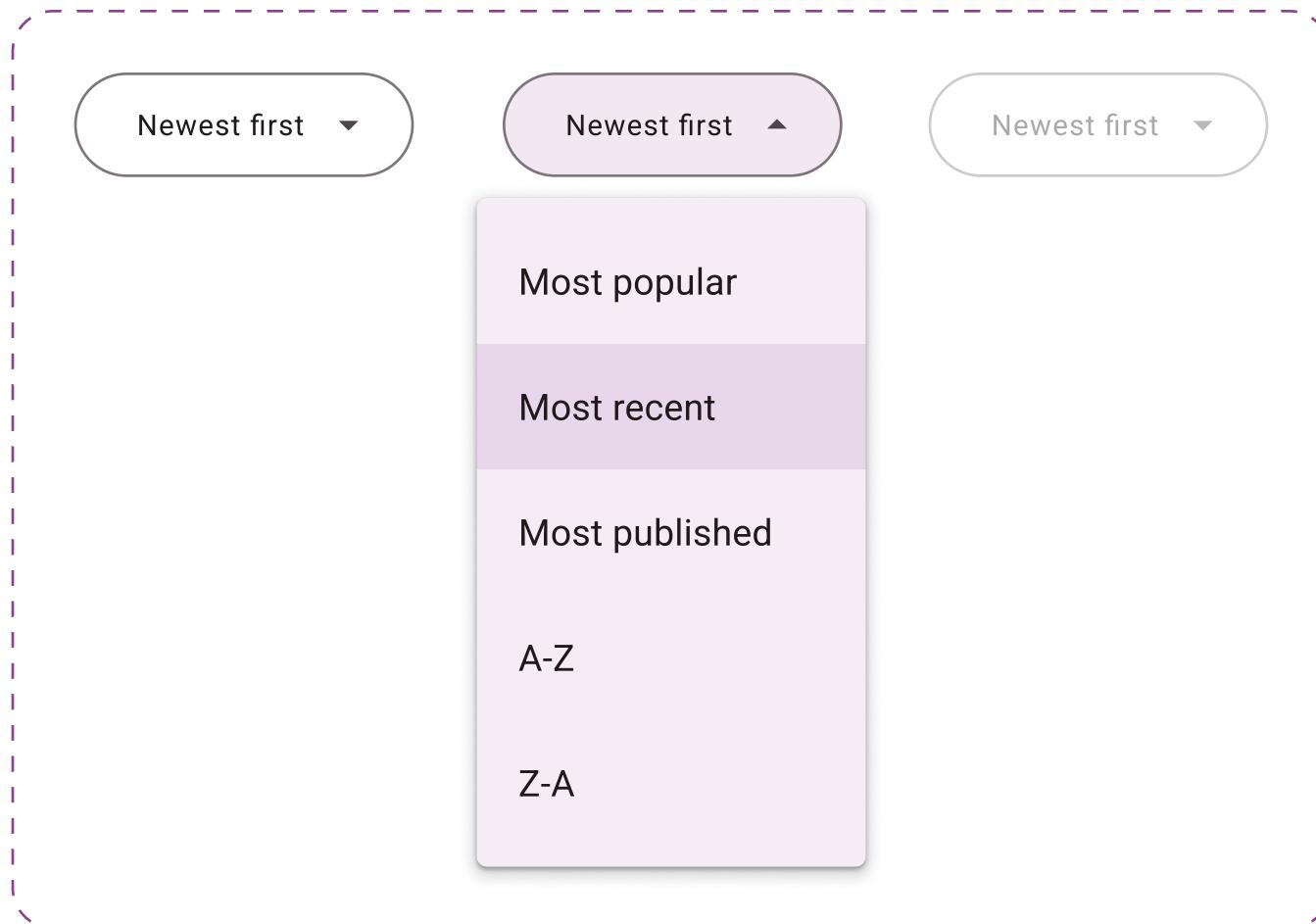
Topic Tags

Custom color styles

Topic

Topic

Follow

Browse topic

Unfollow

Browse topic

Topic

Topic

Topic

Topic

Follow

Browse topic

Unfollow

Browse topic

Topic

Topic

{41}

**Topic List (Light)**

Person

Person

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.

Topic ✓

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

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Topic List (Dark)

Person

Person

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.

Topic ✓

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

{43}
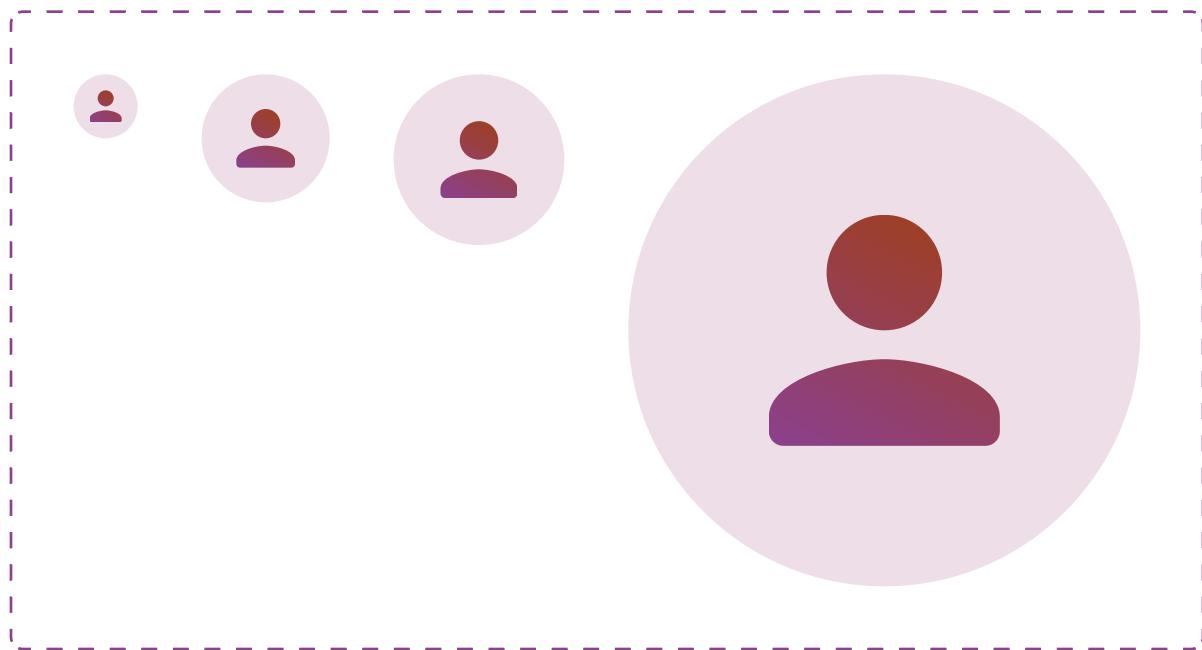
Place Holder Author Image

Featured Links

developers 🤖   **Link title**
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                developer.android.com

developers 🤖   **Link title**
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                developer.android.com

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Navigation Bars (Light)

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

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Navigation Bars (Dark)

| 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 |

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Navigation Bar Alerts

For you   For you   For you   Episodes   Saved   Interests

For you   For you   For you   Episodes   Saved   Interests

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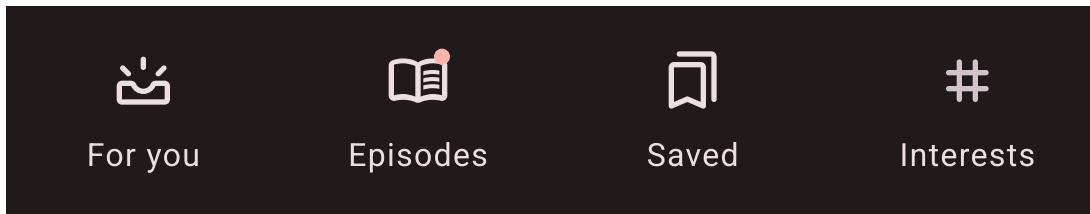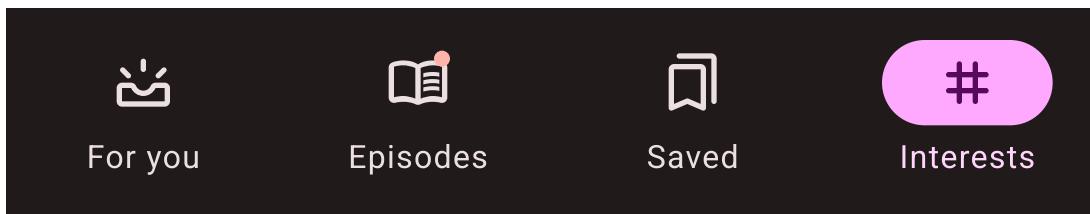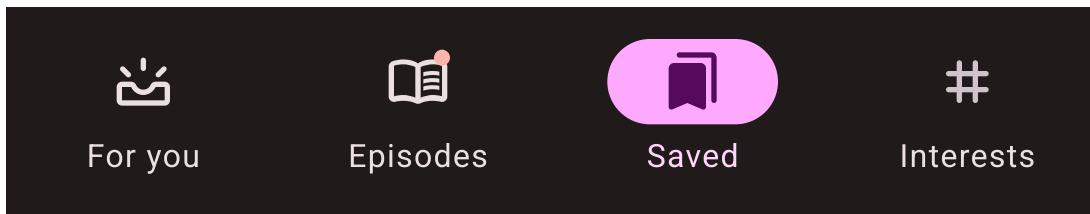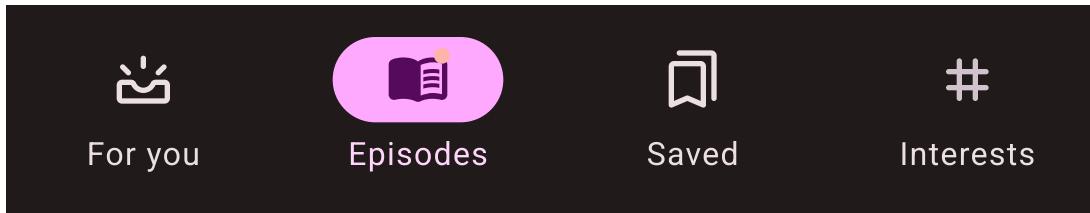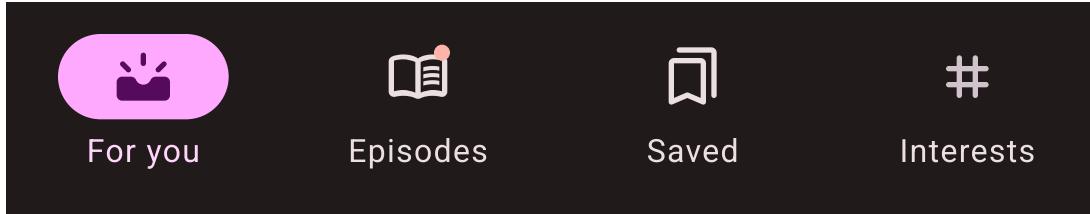
Side Navigation Bar

★ Custom color styles

For you

📖 Episodes

🔖 Saved

Interests

★ Custom color styles

For you

📖 Episodes

🔖 Saved

Interests

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Switch

Switch text

Switch text

Switch text

Switch text

{50}

← **Title**   📎   📅   ⋮

←   📎   📅   ⋮

Title

←   📎   📅   ⋮

Title

←   **Title**   👤

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Top App Bar (Dark)

← **Title**   📎   📅   ⋮

←   📎   📅   ⋮

Title

←   📎   📅   ⋮
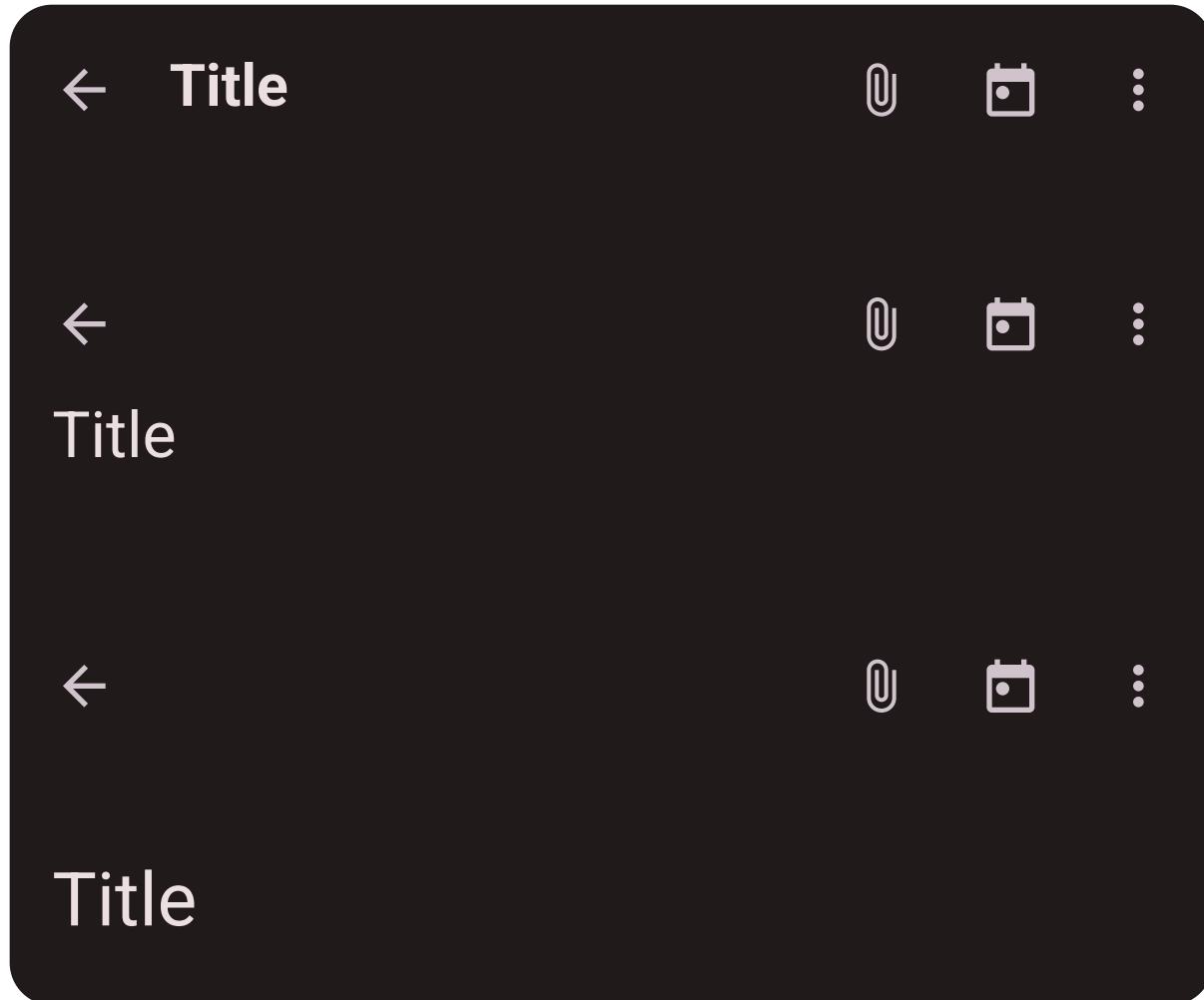
Title

←   **Title**   👤

Errors & Loading

Error and loading states should follow these sample designs.

Errors & Loading

Saved

No saved updates
Updates you save will be stored here to read later

For you | Episodes | Saved | Interests

Now in Android

Error
You aren't connected to the internet

For you | Episodes | Saved | Interests

Now in Android

For you | Episodes | Saved | Interests

Following

Topics | People

For you | Episodes | Saved | Interests

Now in Android

What are you interested in?
Updates from topics you follow will appear here.
Follow some things to get started.

Done

Browse topics

For you | Episodes | Saved | Interests

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