

part 1

BASICS OF DESIGN FOR FOLDABLE DEVICES

Augsburg, April 2022

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1-1 What are Foldable Devices?

1-2 What can Foldable Devices do?

02

Basics

2-1 Structure

2-2 Design Pattern

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NOTE:

Part 1 covers only the basics of foldable devices
using the Microsoft Surface Duo as an example

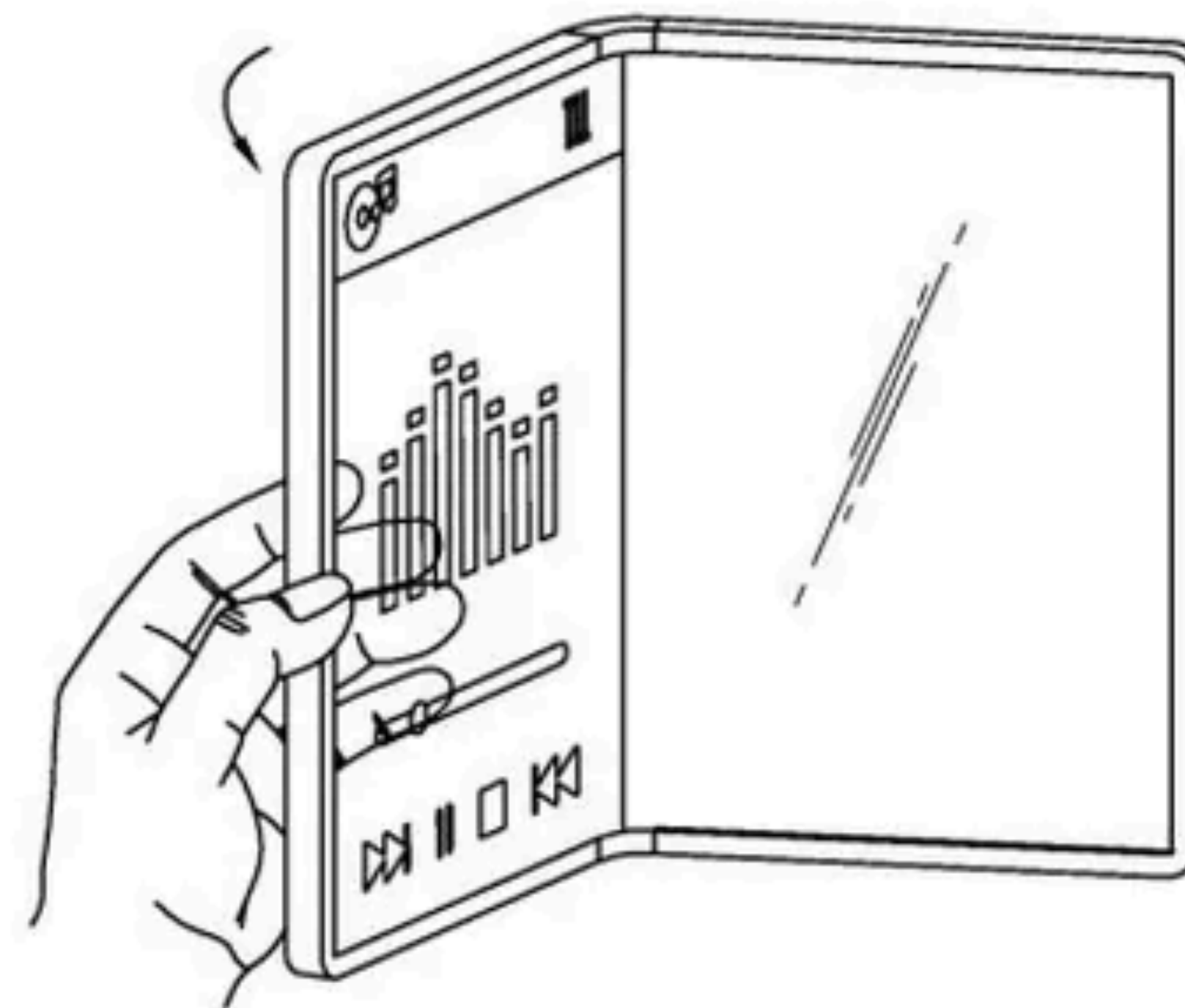
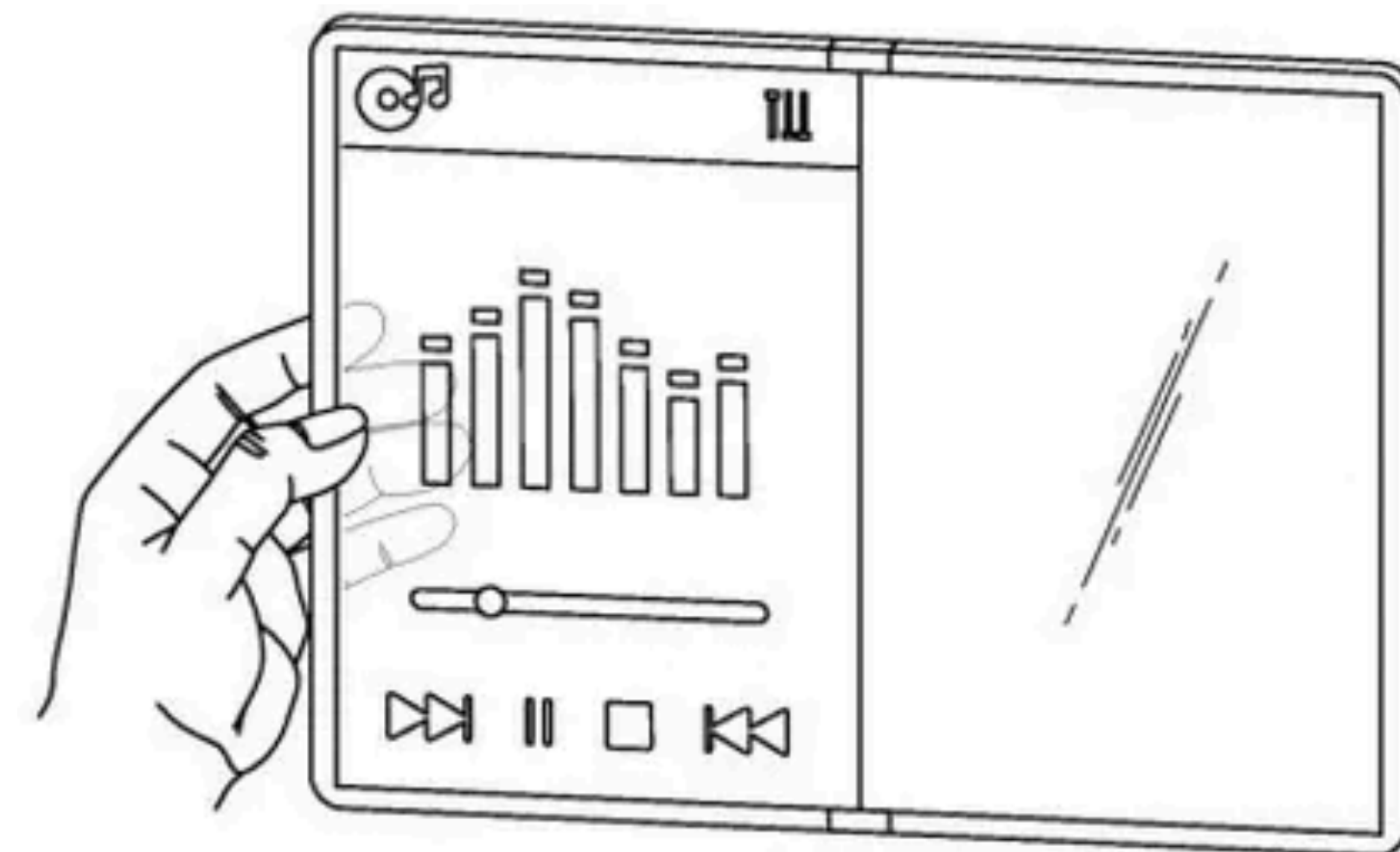
Part 2 will cover more detail insights on how to use the design
pattern and how they could be implemented on Android



HISTORY

01-1 HISTORY

HISTORY



History

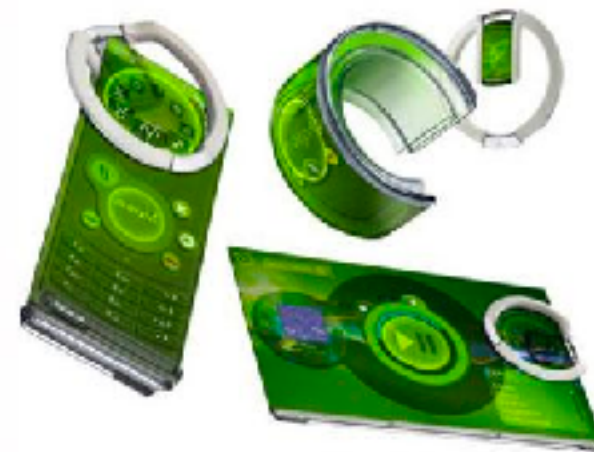
2006

First Ideas



2008

Nokia unveils "Morph" concept for a 3-fold device



2011

Kyocera launches foldable device



2013

Samsung introduces "Youm concept



2018

LG receives design patent for foldable smartphone

Microsoft begins development for Surface series

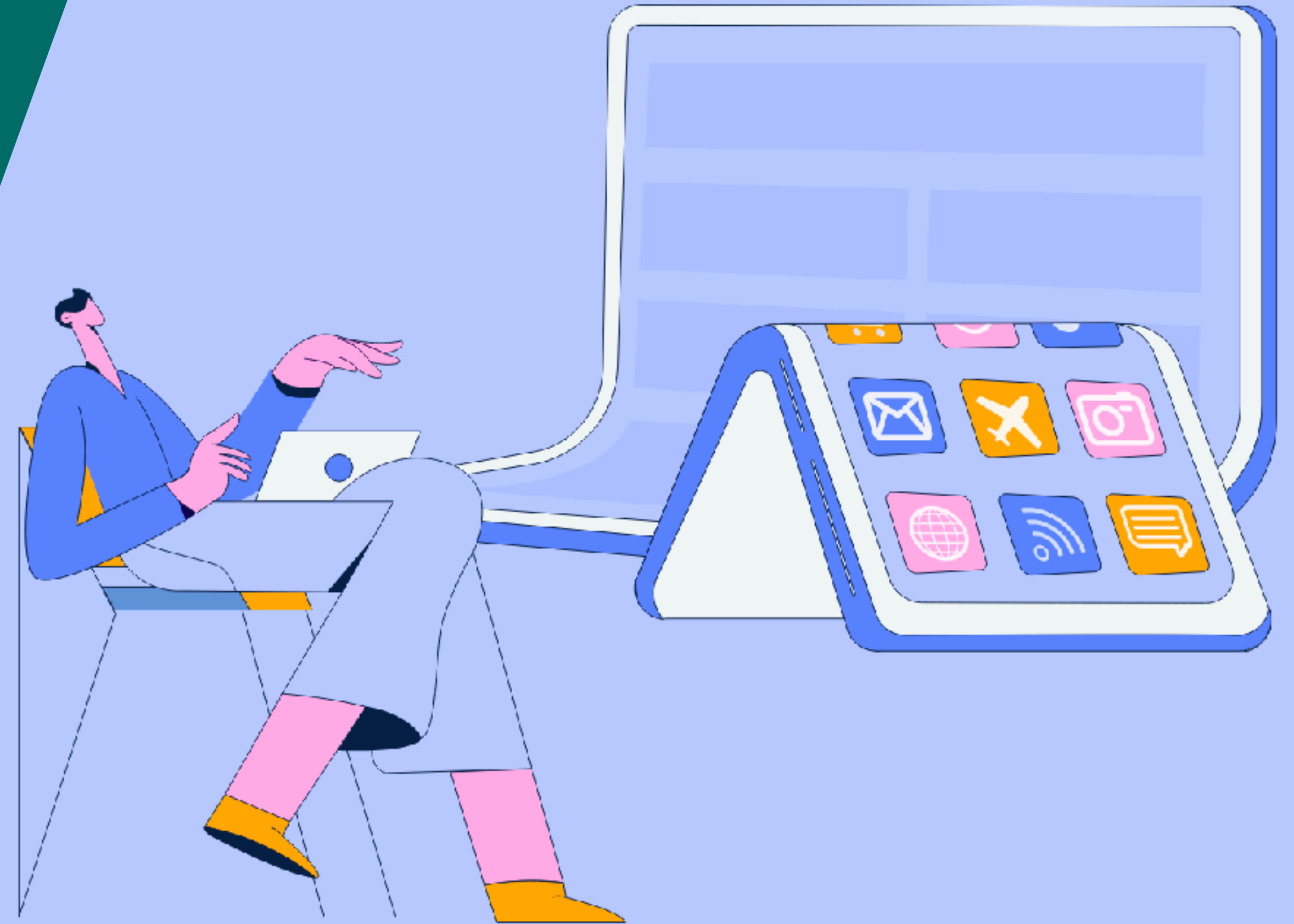
Samsung presents prototypes

Royole Flexpai first commercial foldable smartphone



01-2 HISTORY

WHAT ARE FOLDABLE DEVICES?



What are Foldable Devices?

Basic idea:

More screen area with the same device format

by means of a fold or hinge in the display, which separates the displays from each other

Term goes back to Nokia "Morph" concept from 2008 - Flexible OLED displays that can be folded to double the screen size

Until 2025
55 million
Foldable Displays shipped
Statista

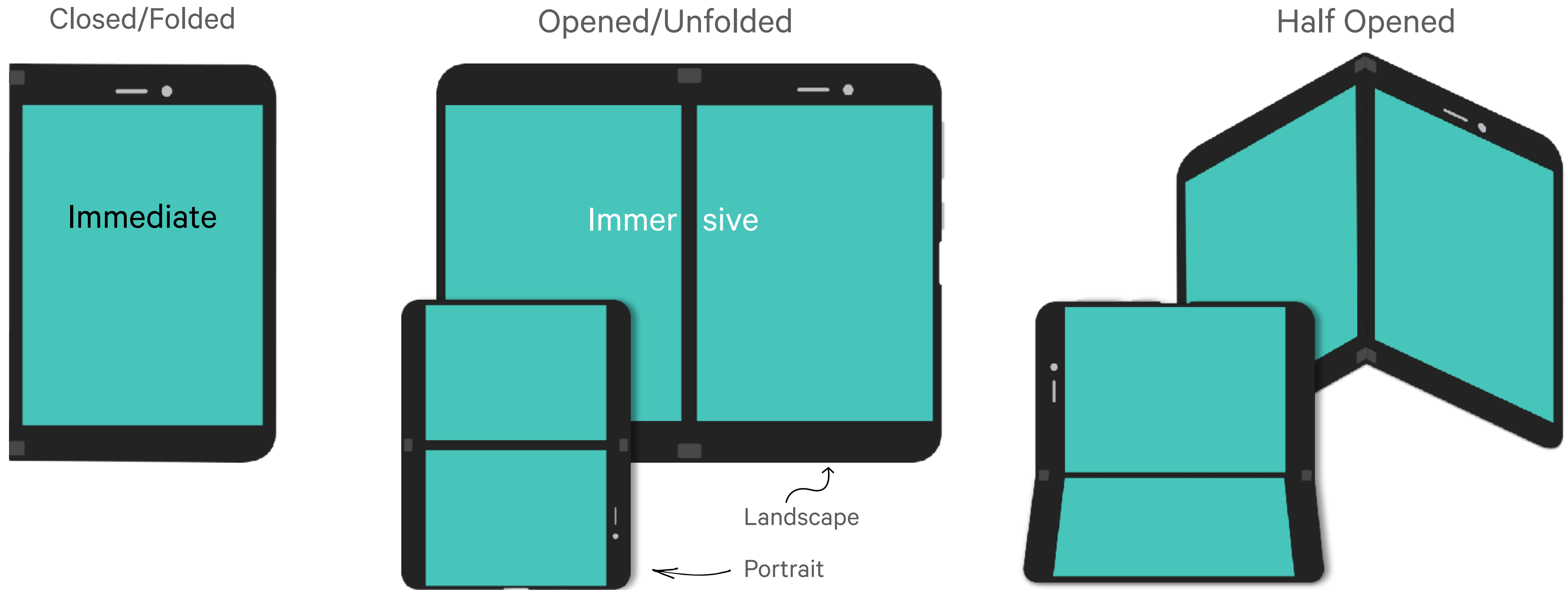
01-3 HISTORY

WHAT CAN FOLDABLE DEVICES DO?



What can Foldable Devices do?

Two types of displays **Immersive & Immediate**



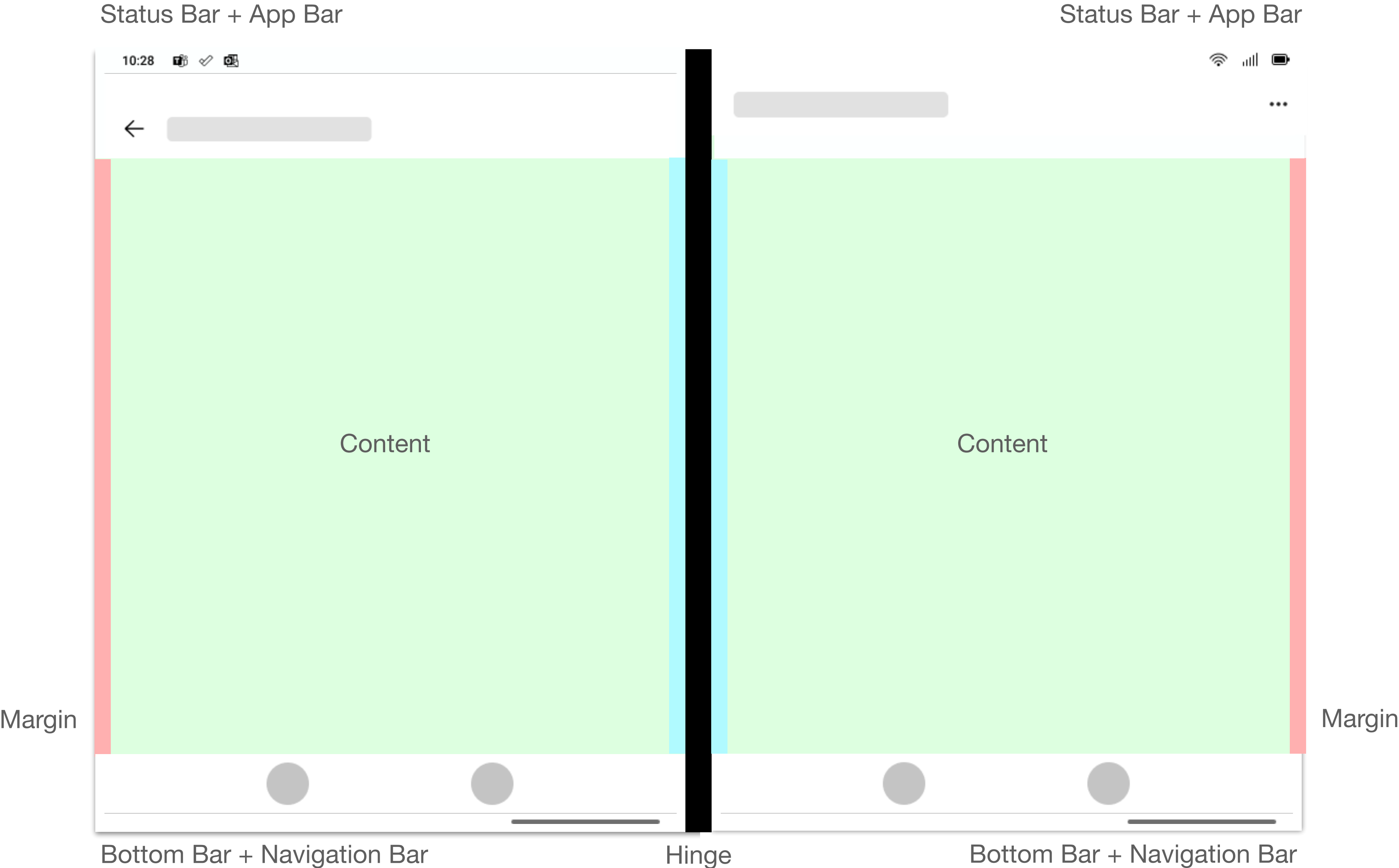


BASICS

02

02-1 BASICS STRUCTURE

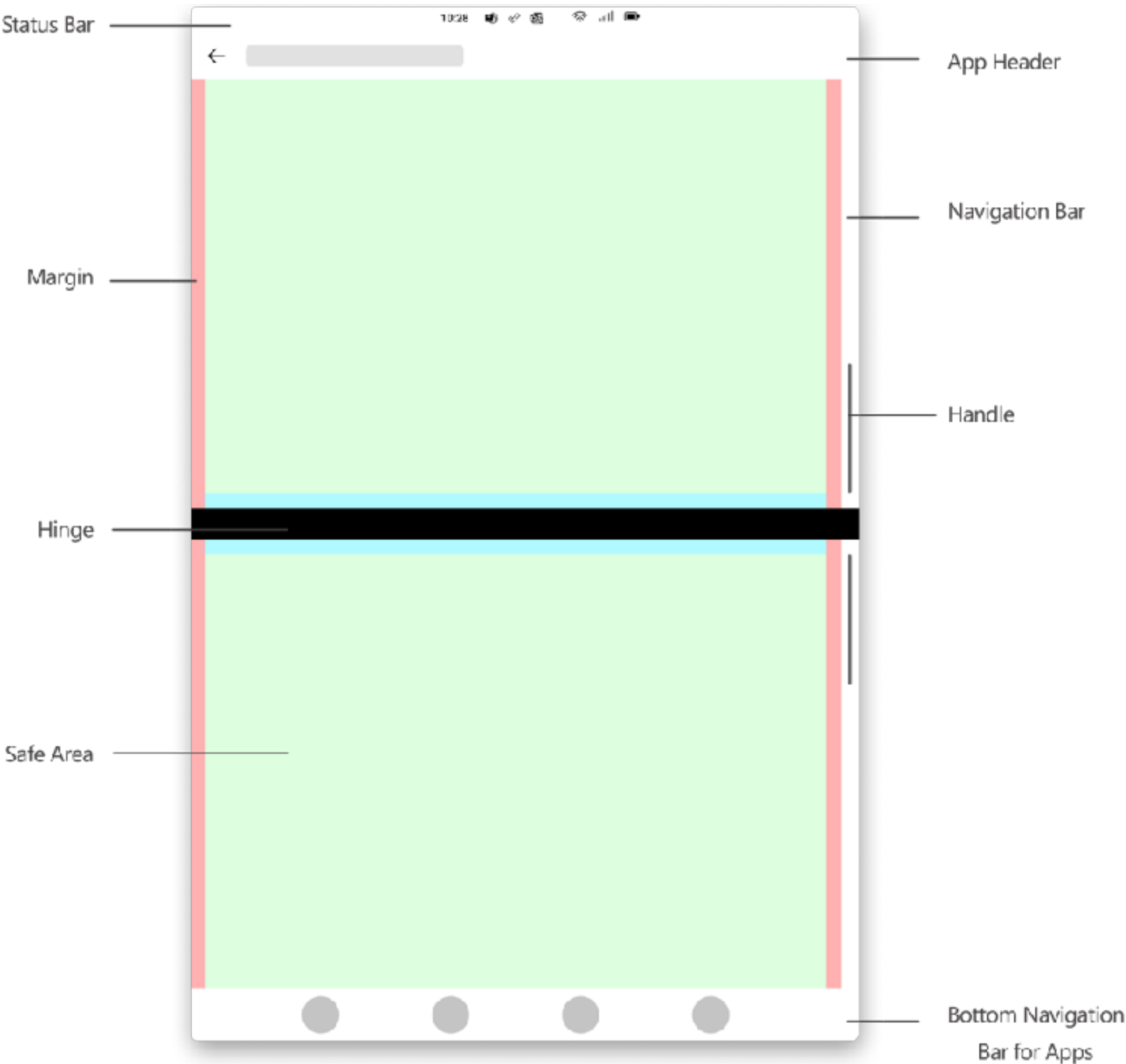
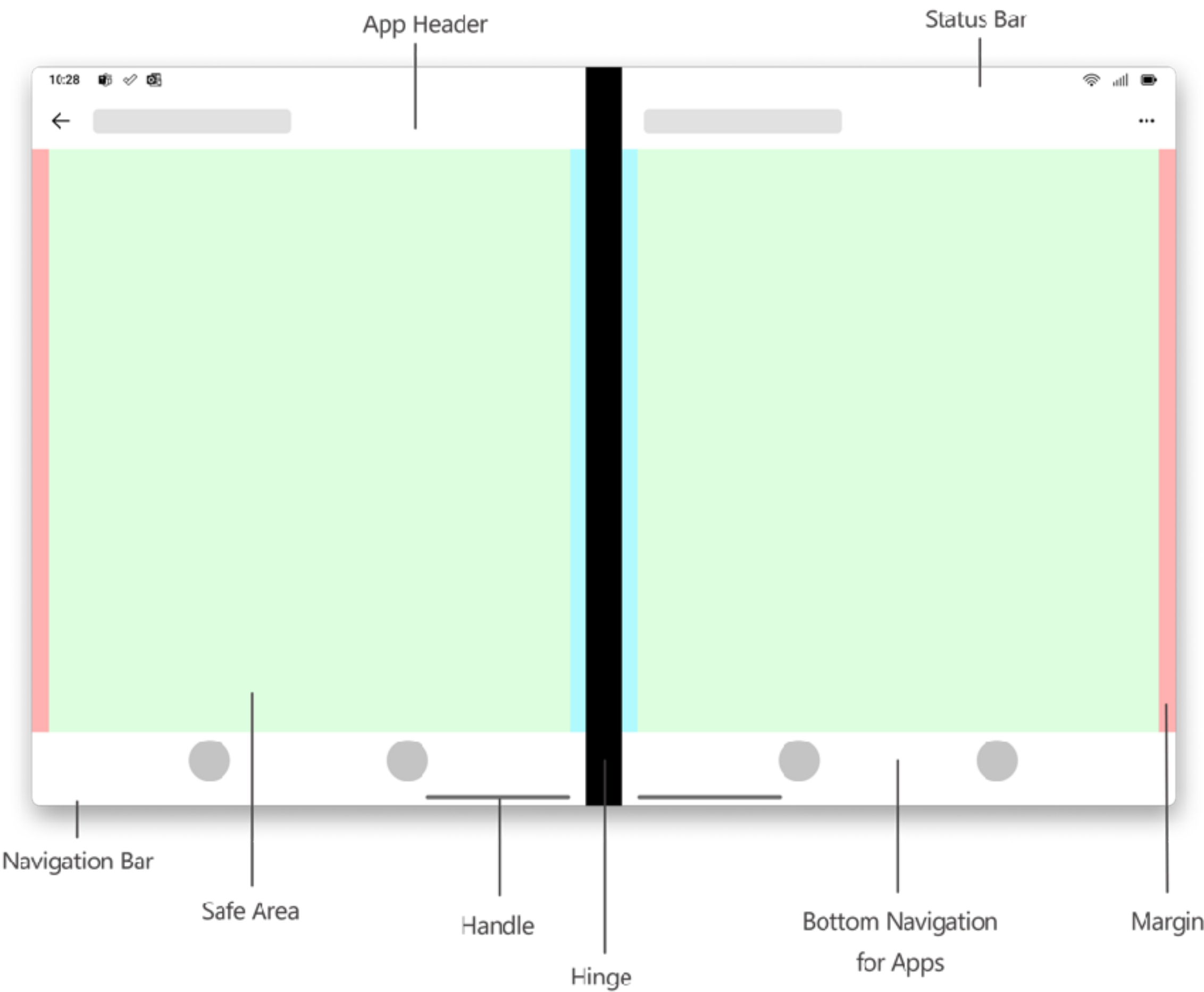
Structure



Structure

Microsoft Surface Duo

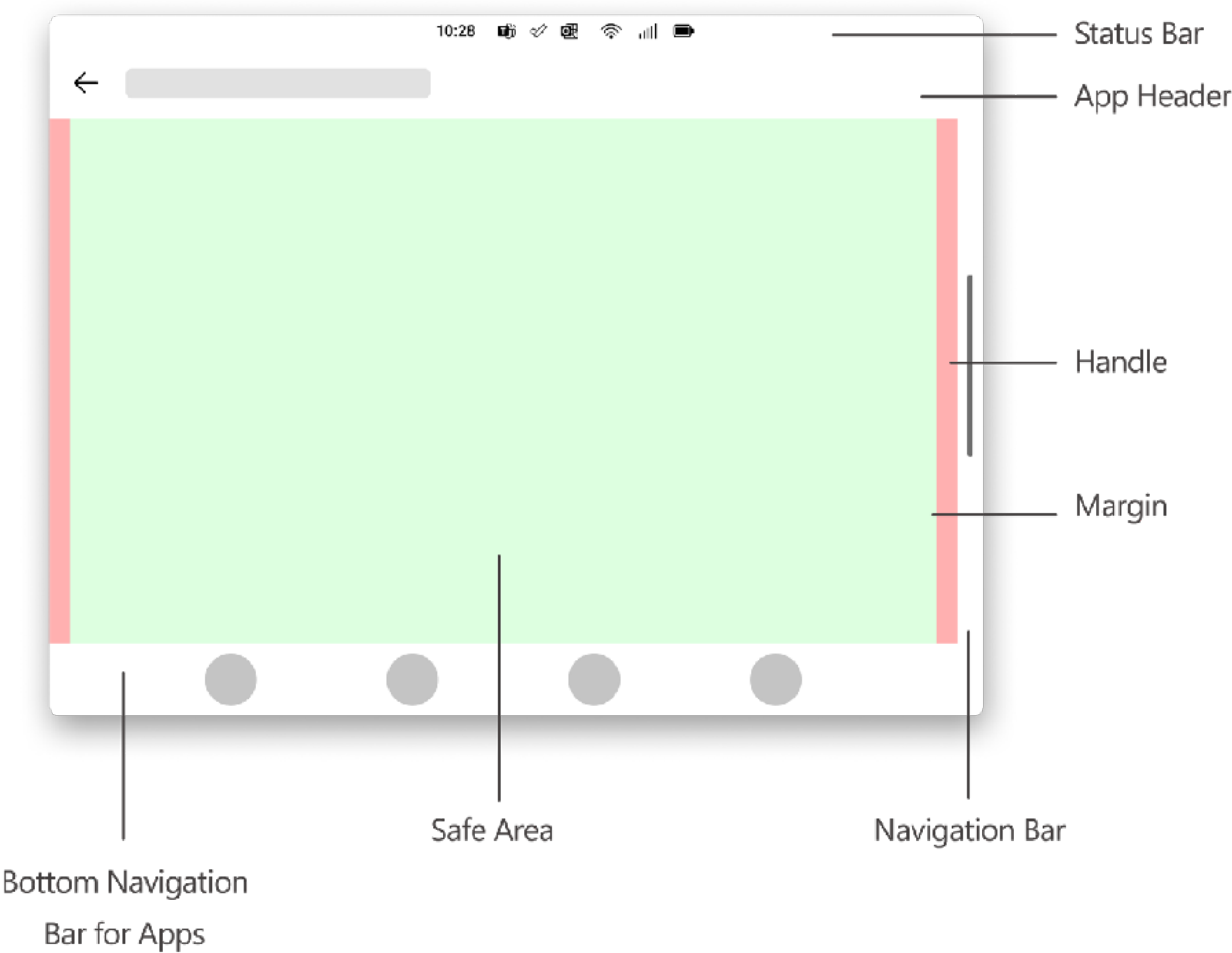
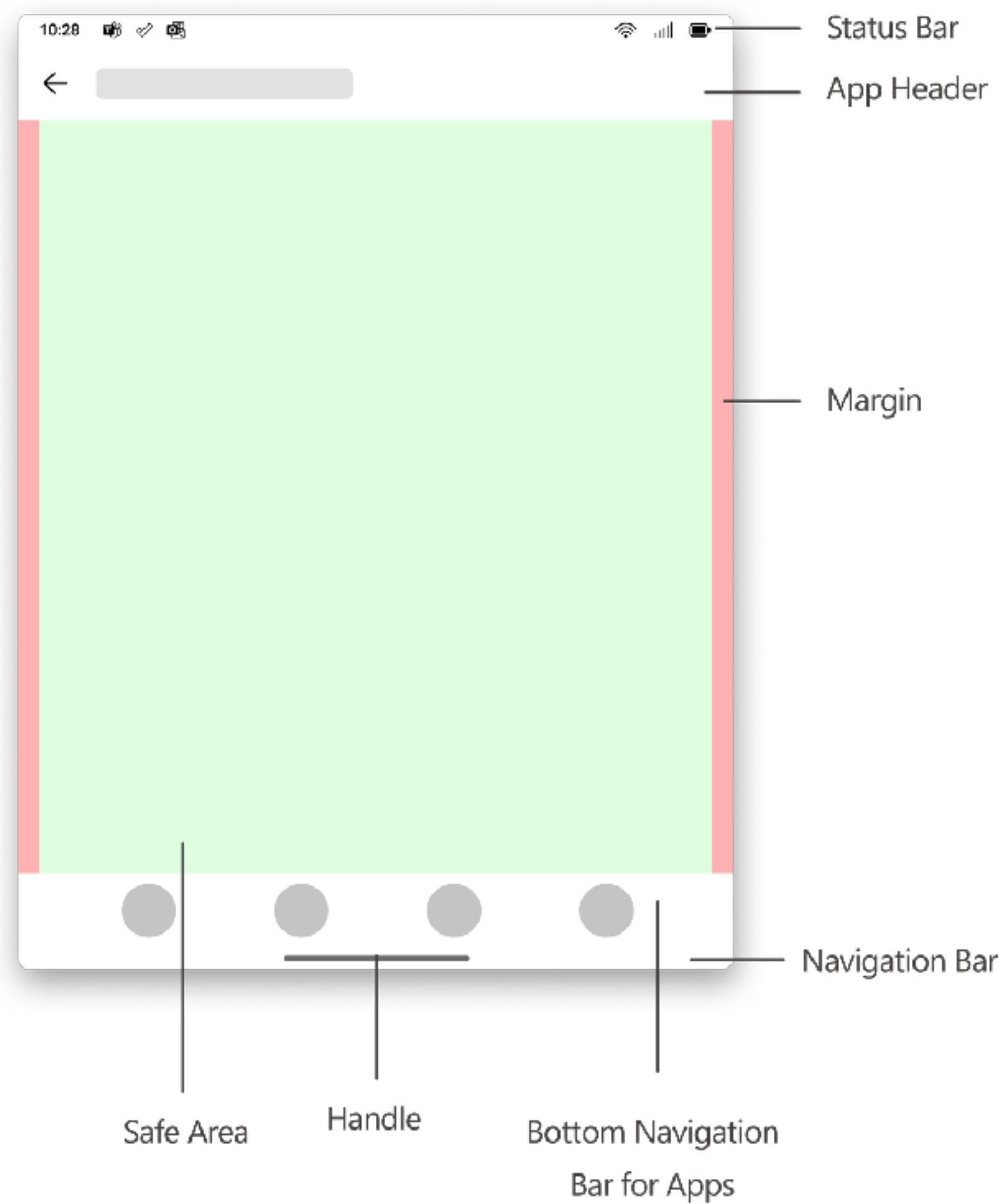
Dual Portrait & Landscape



Structure

Microsoft Surface Duo

Single Portrait & Landscape



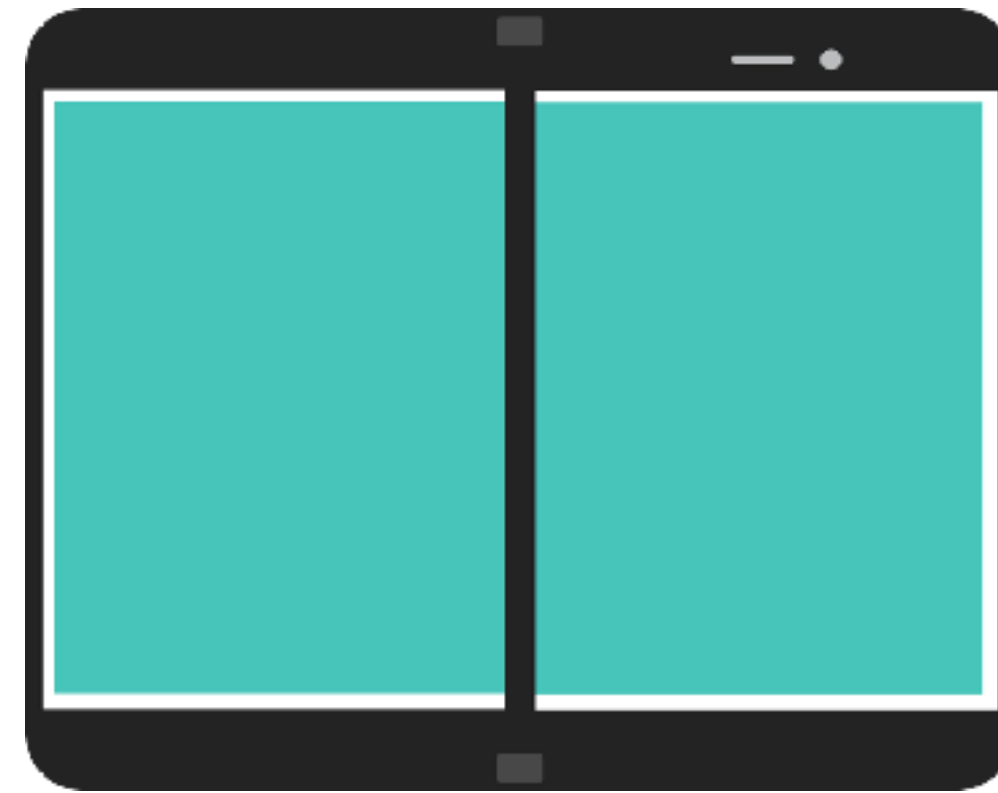
A thick teal diagonal line runs from the bottom-left towards the top-right, separating the white text area from the light blue background.

02-2 **BASICS**

DESIGN PATTERN

Example on Microsoft Duo

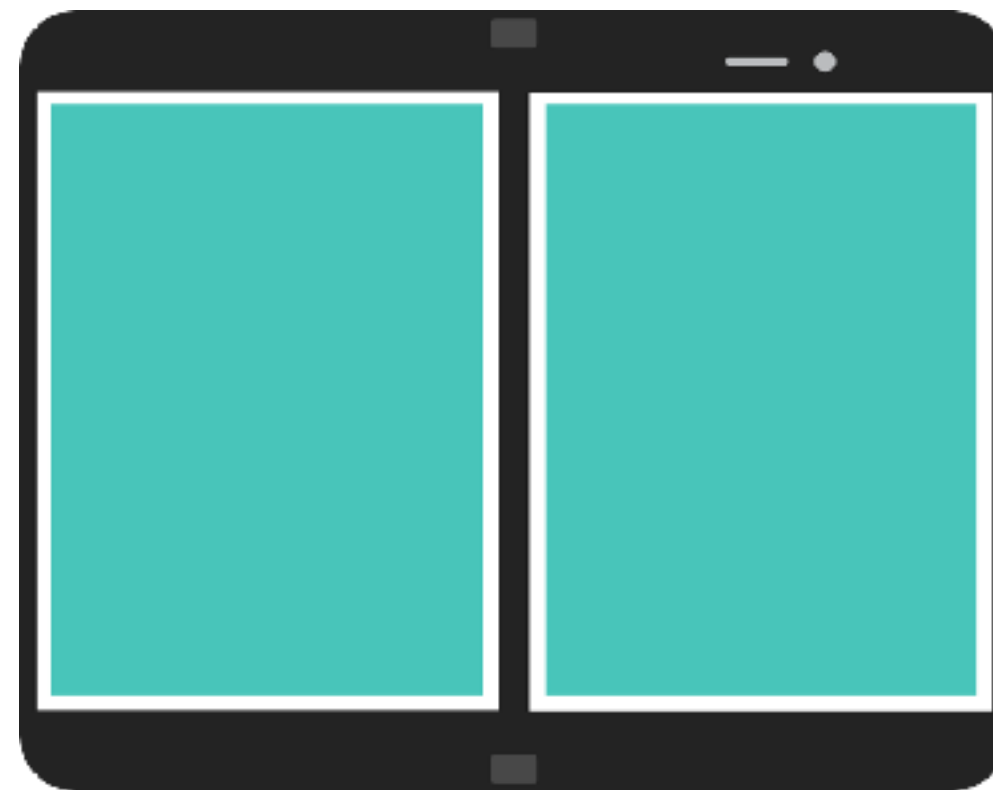
Overview



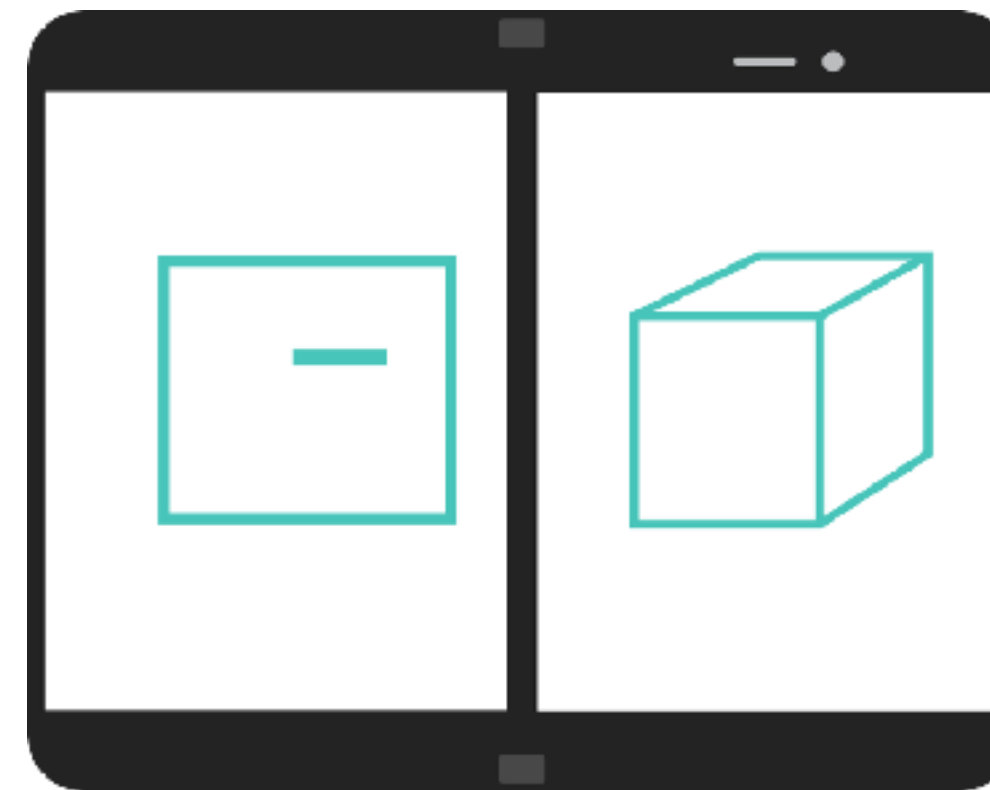
Extended Canvas



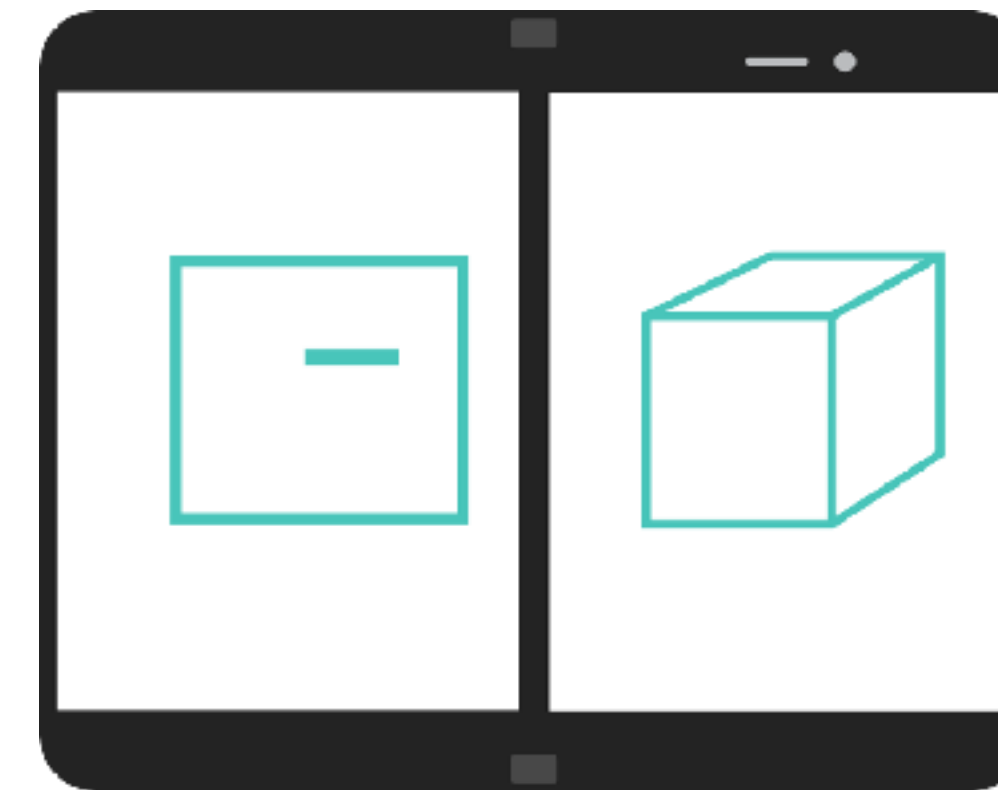
List Detail



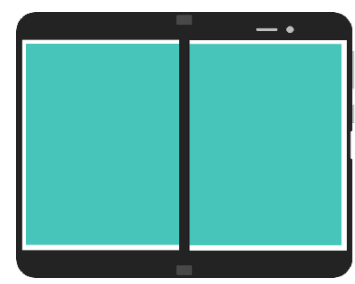
Two Page



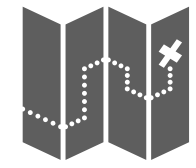
Dual View



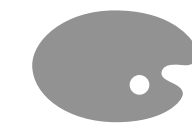
Companion Pane



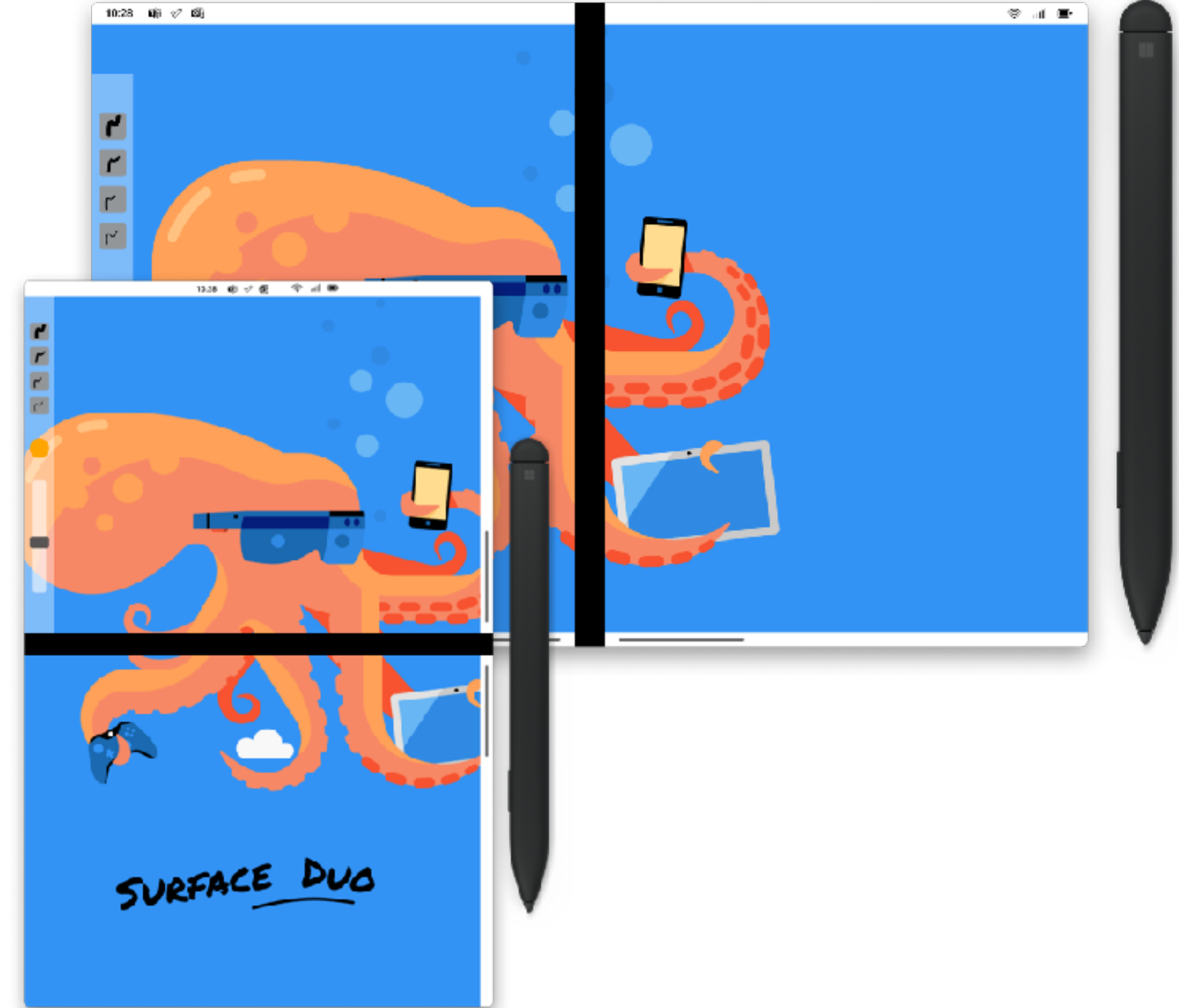
Extended Canvas



Maps

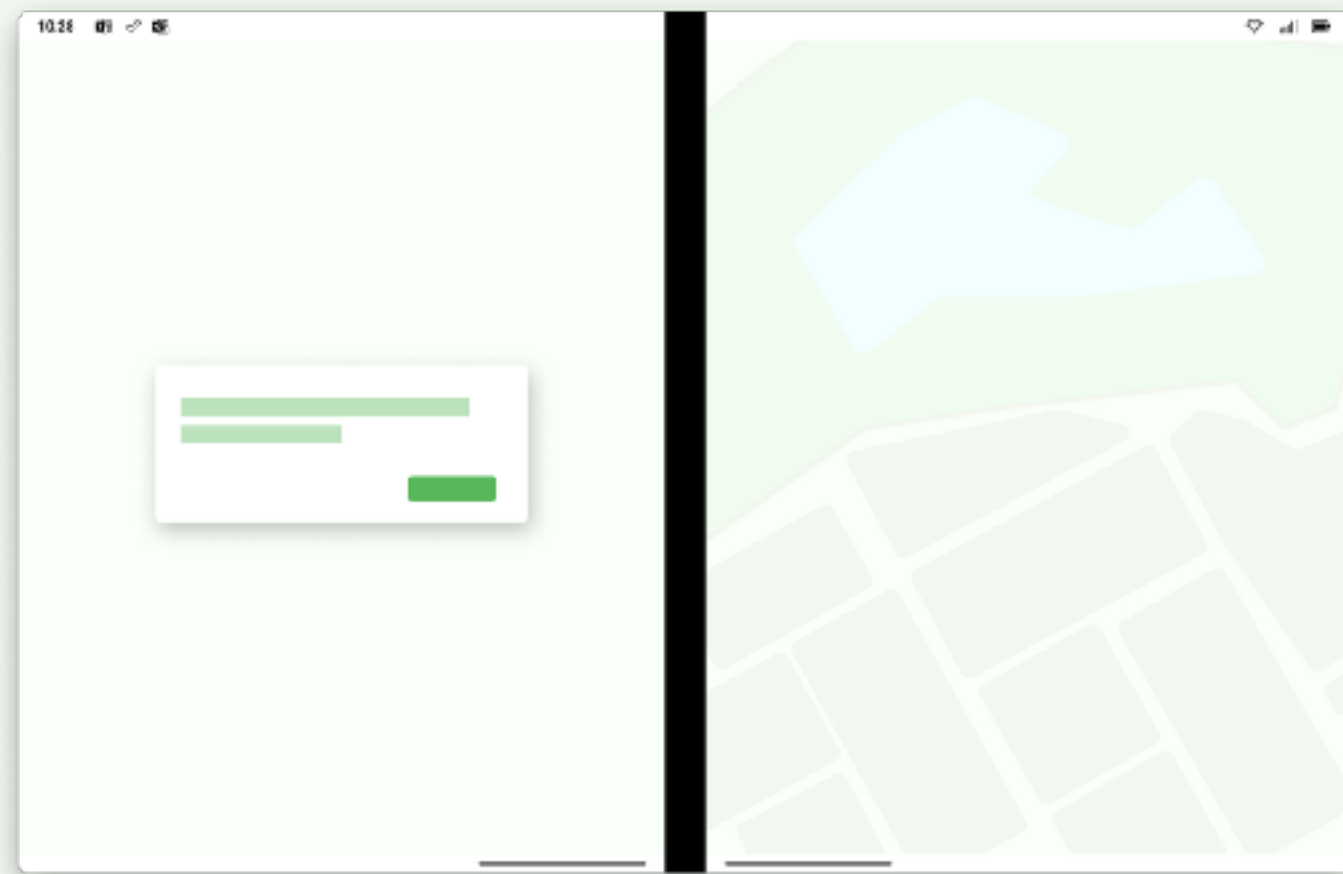


Drawing

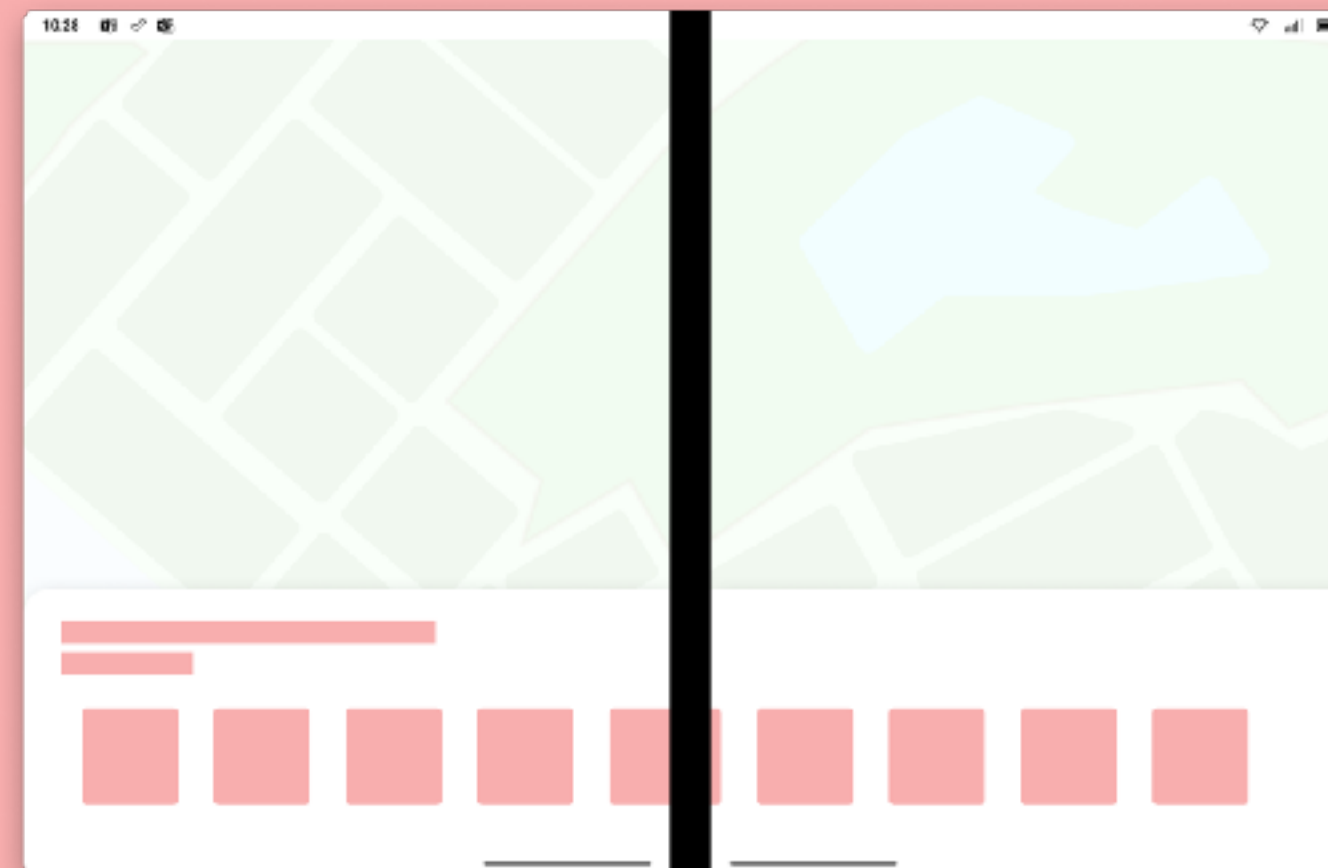
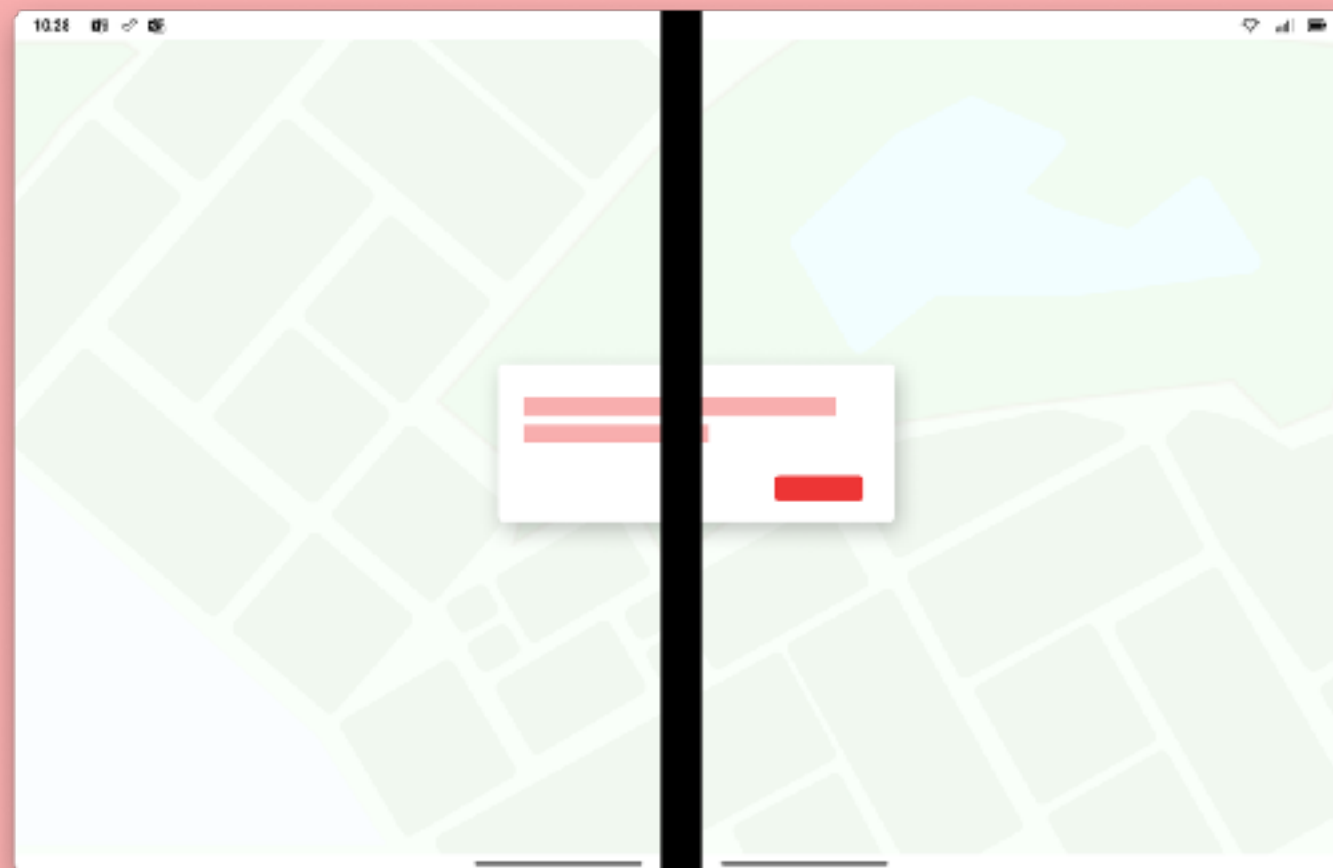




Do's



Dont's

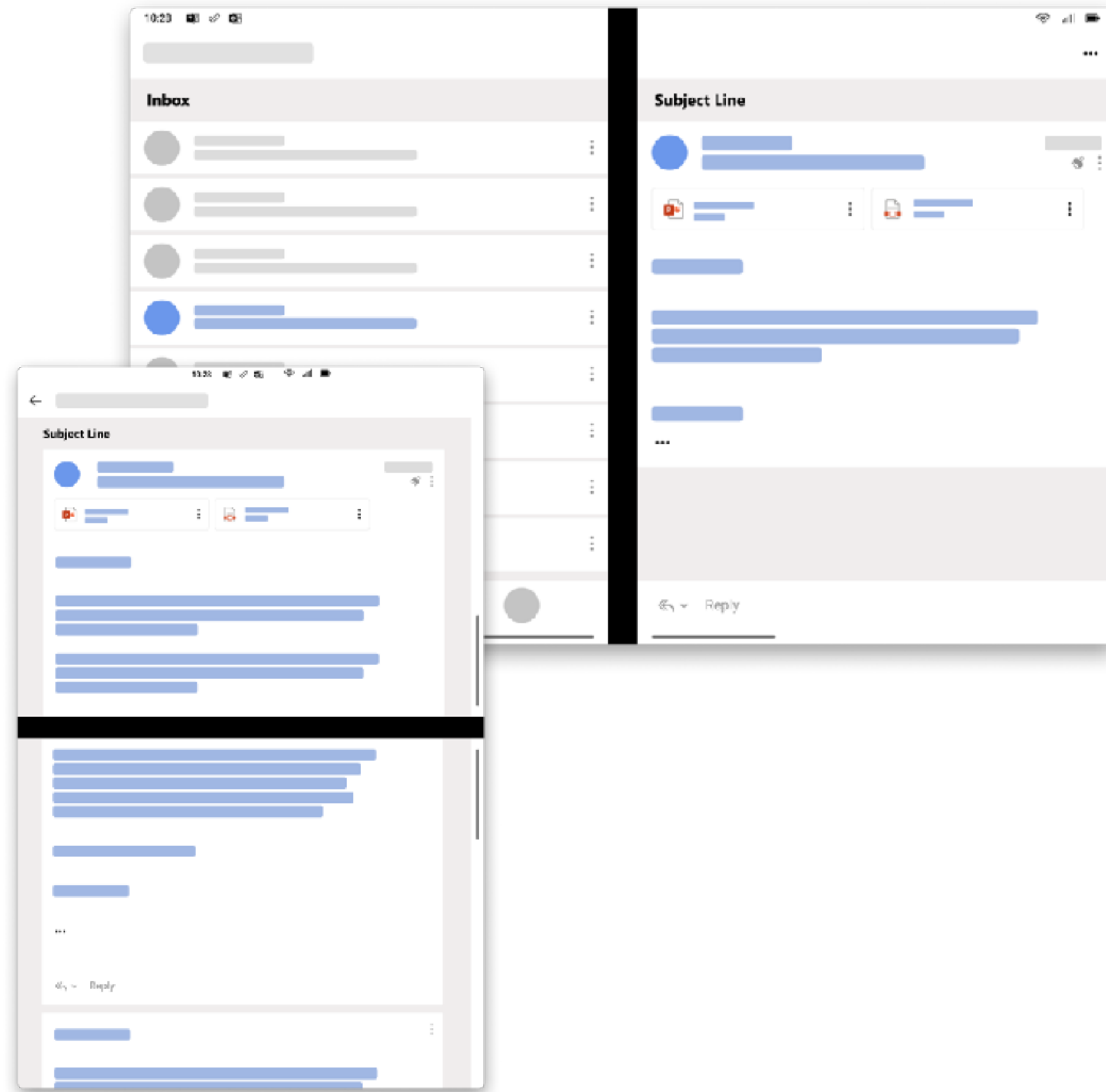




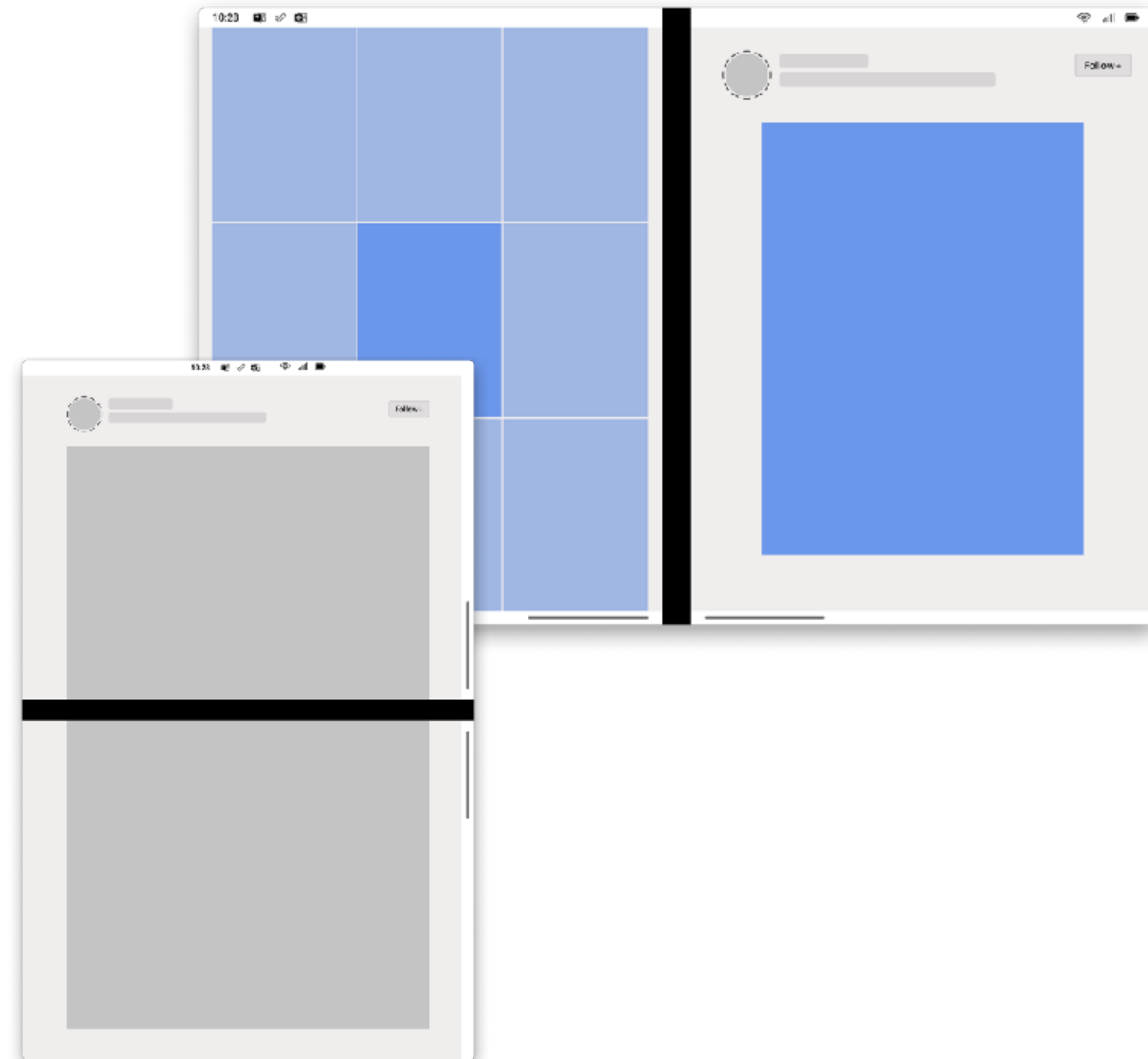
List Detail



E-Mails

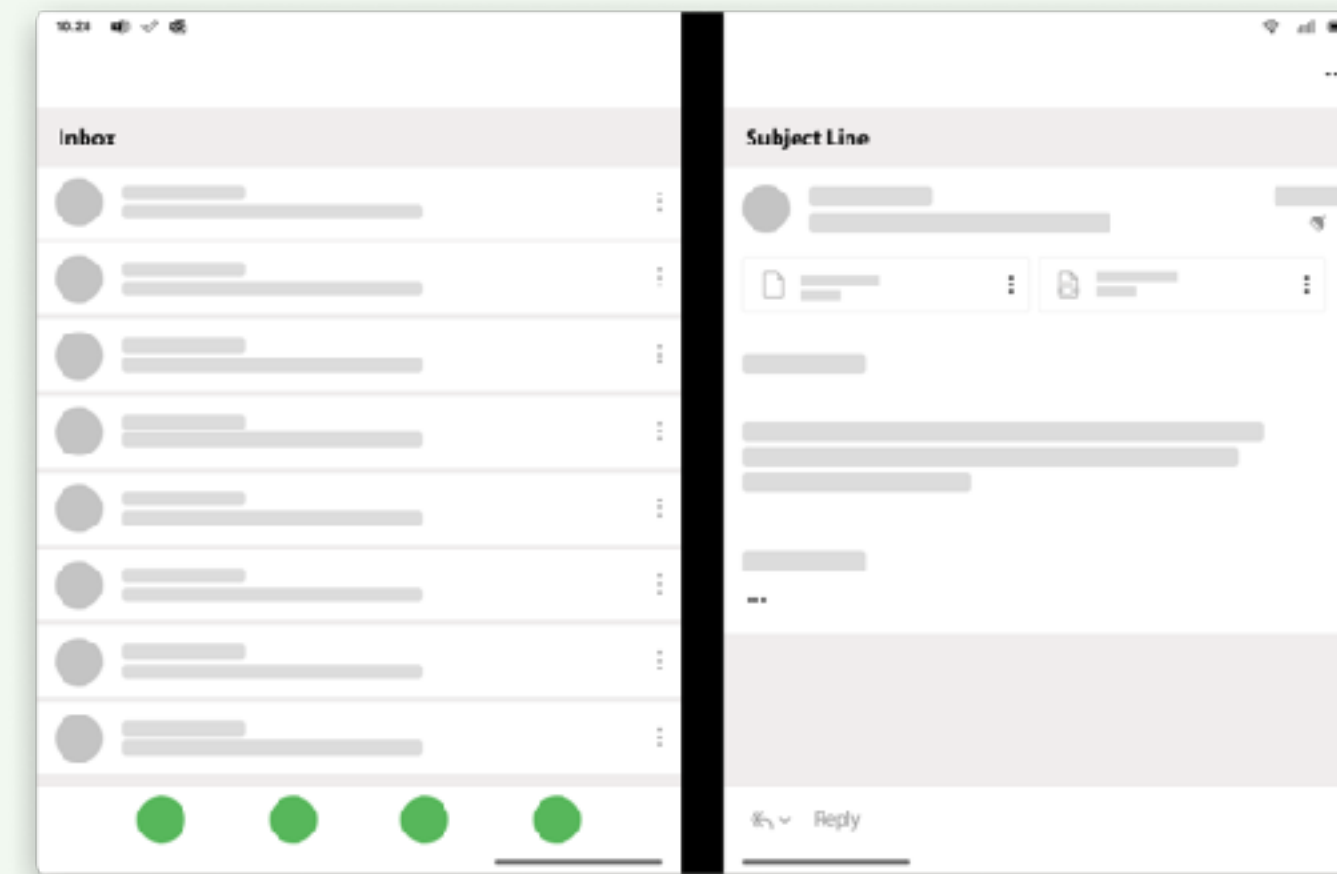
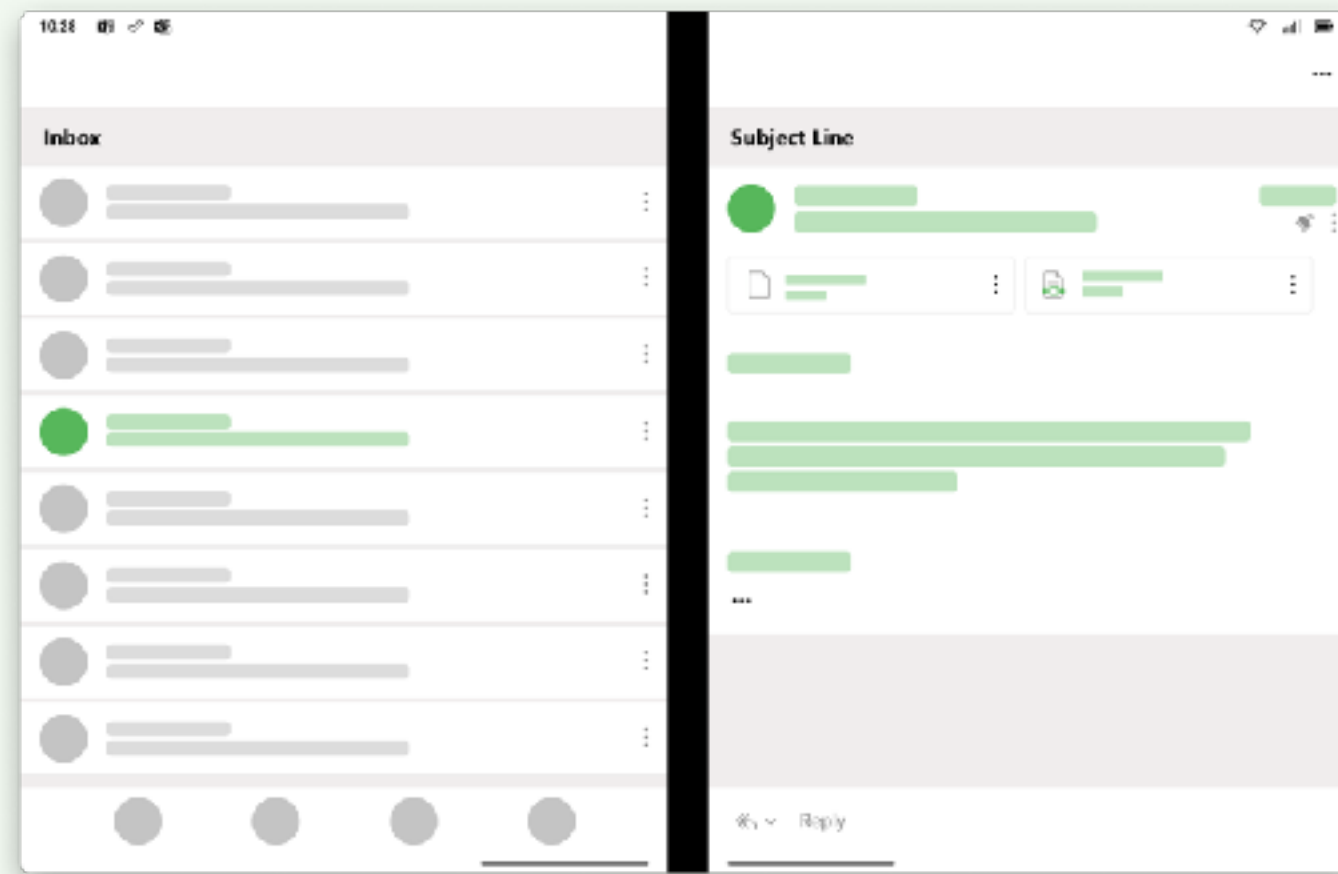


List- / Detail-view





Do's



Dont's



Two Page

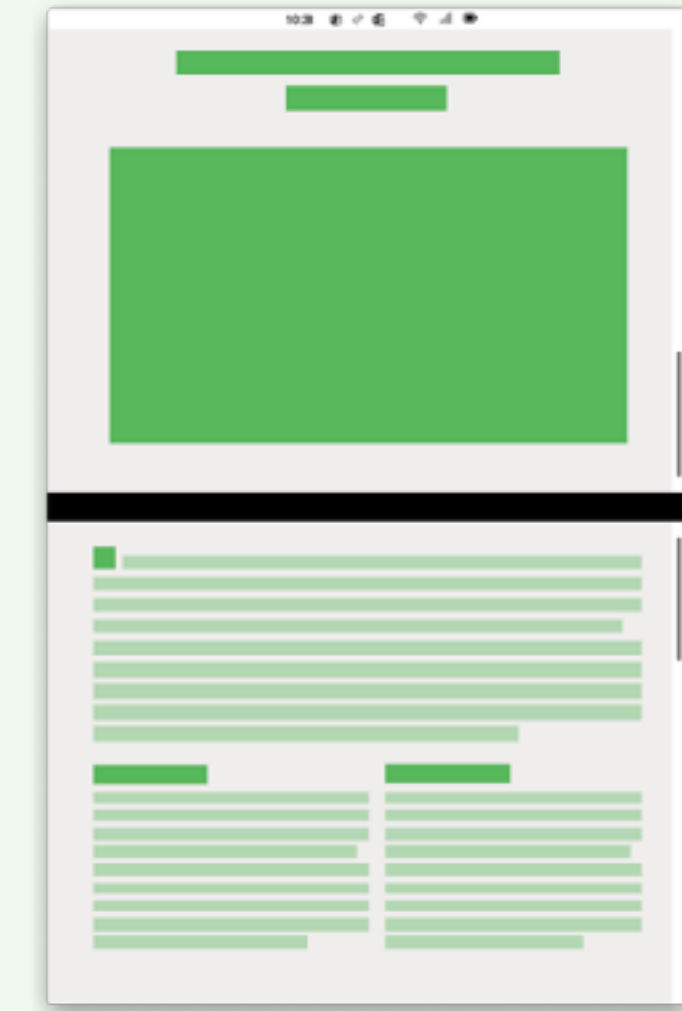


Reading, Two Page Content

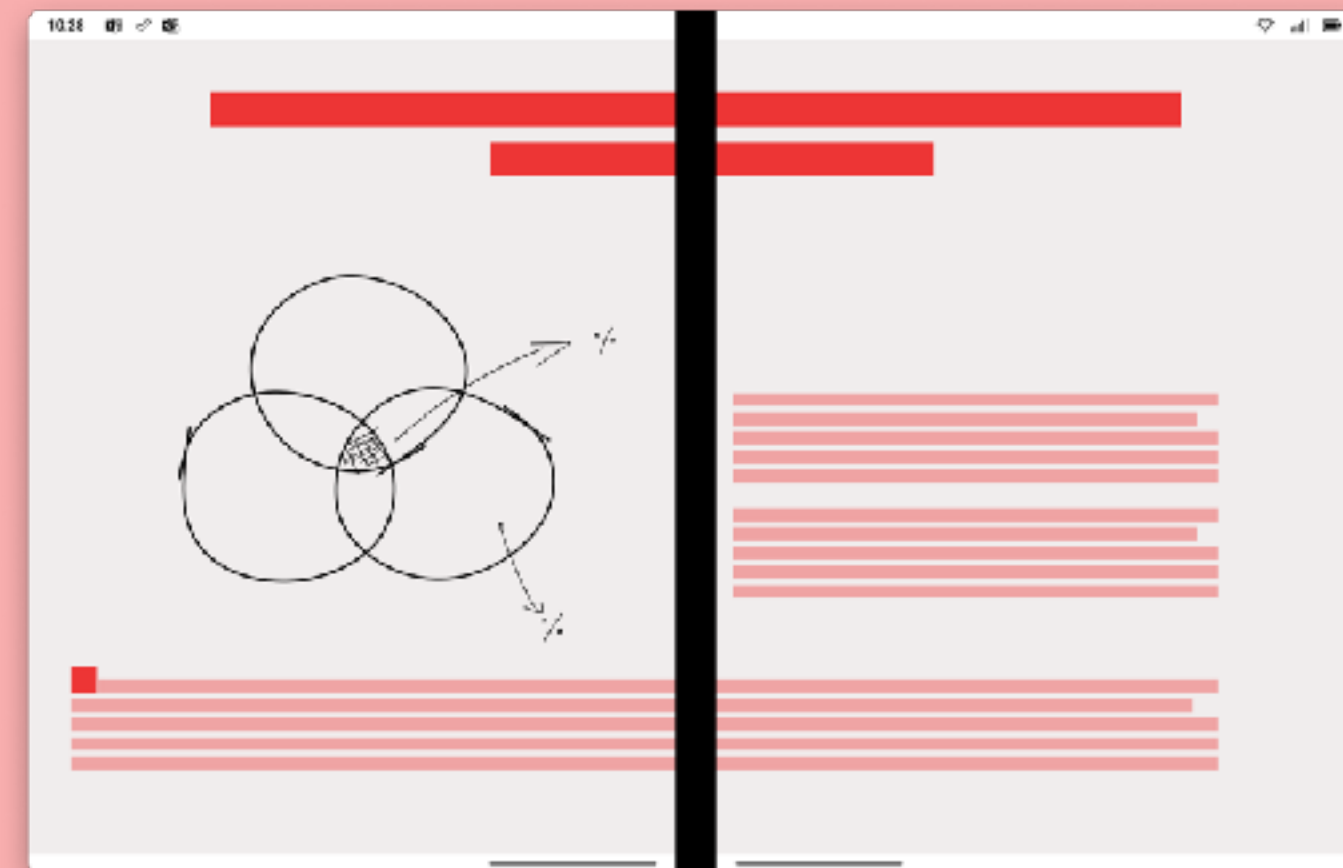


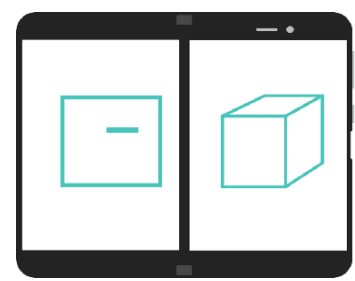


Do's



Dont's

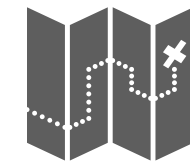
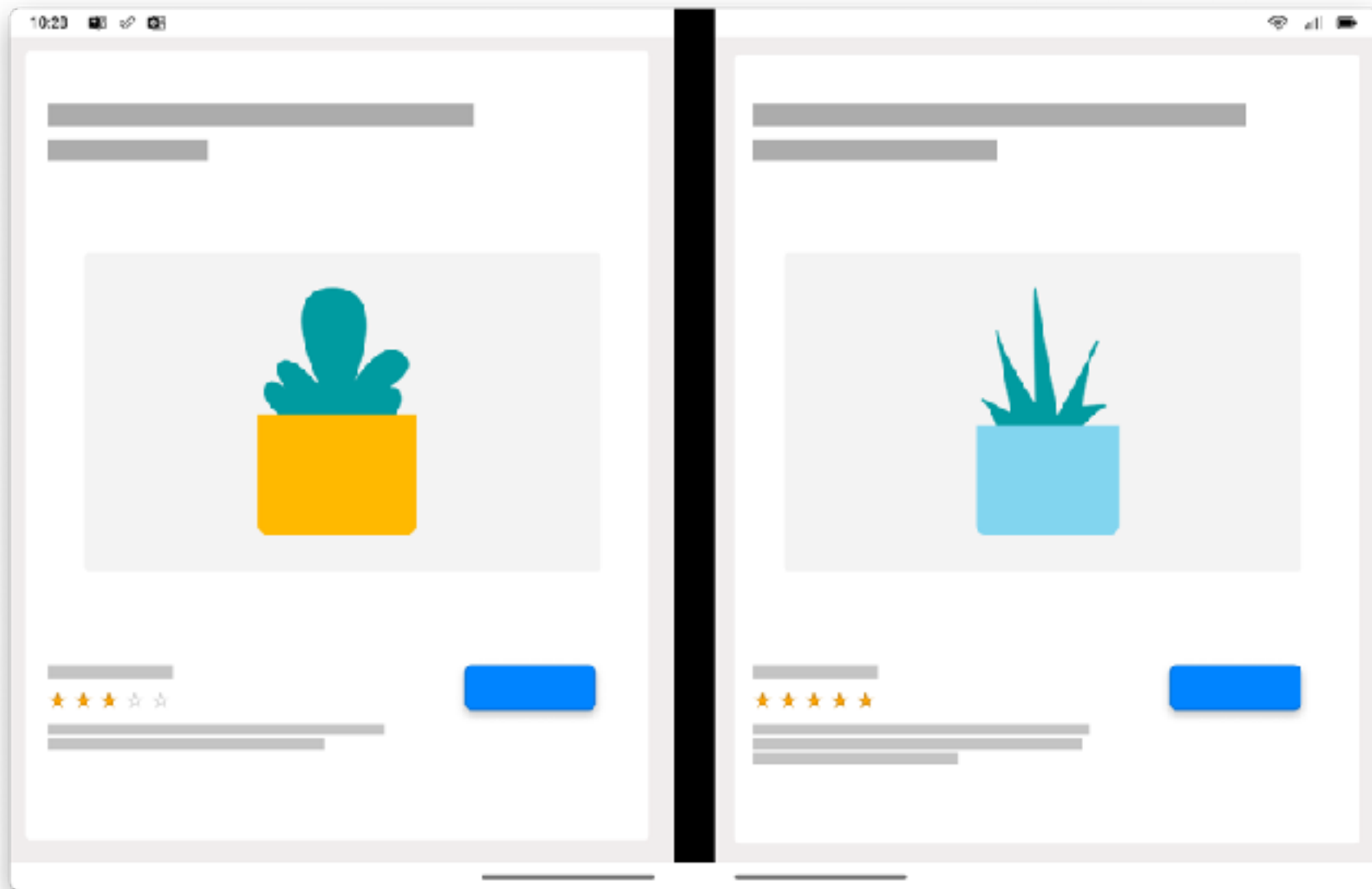




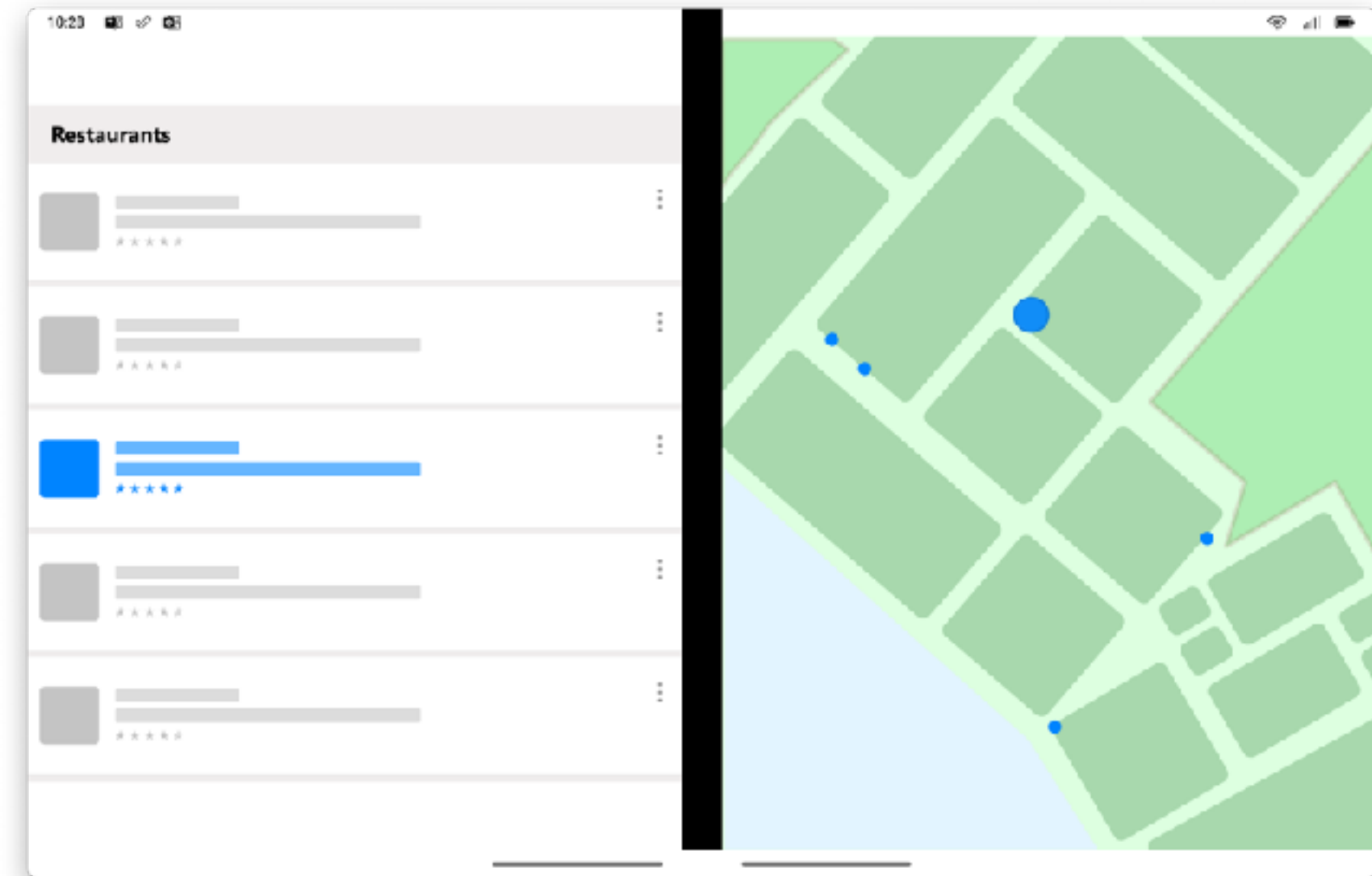
Dual View



Two equal contents side by side

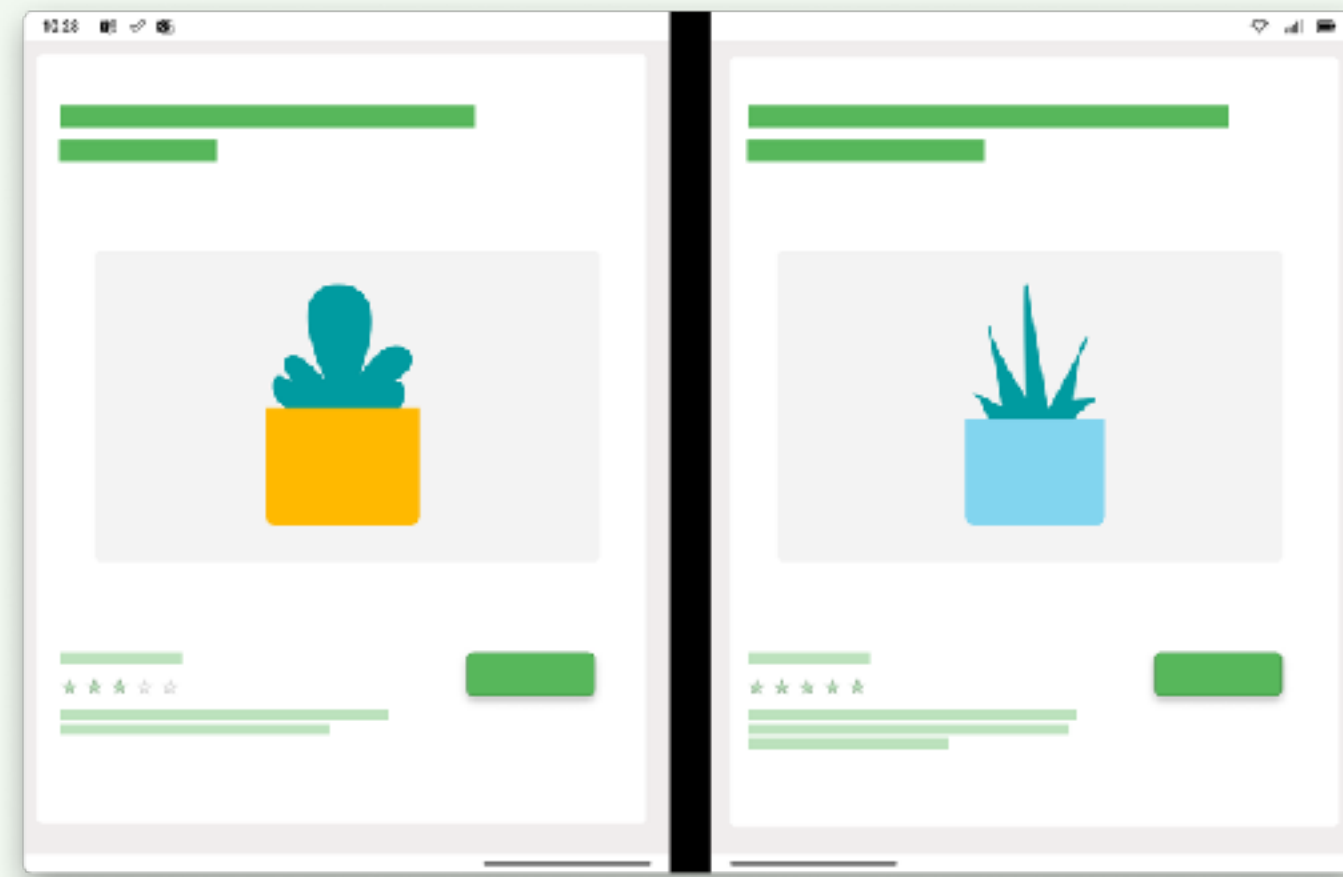
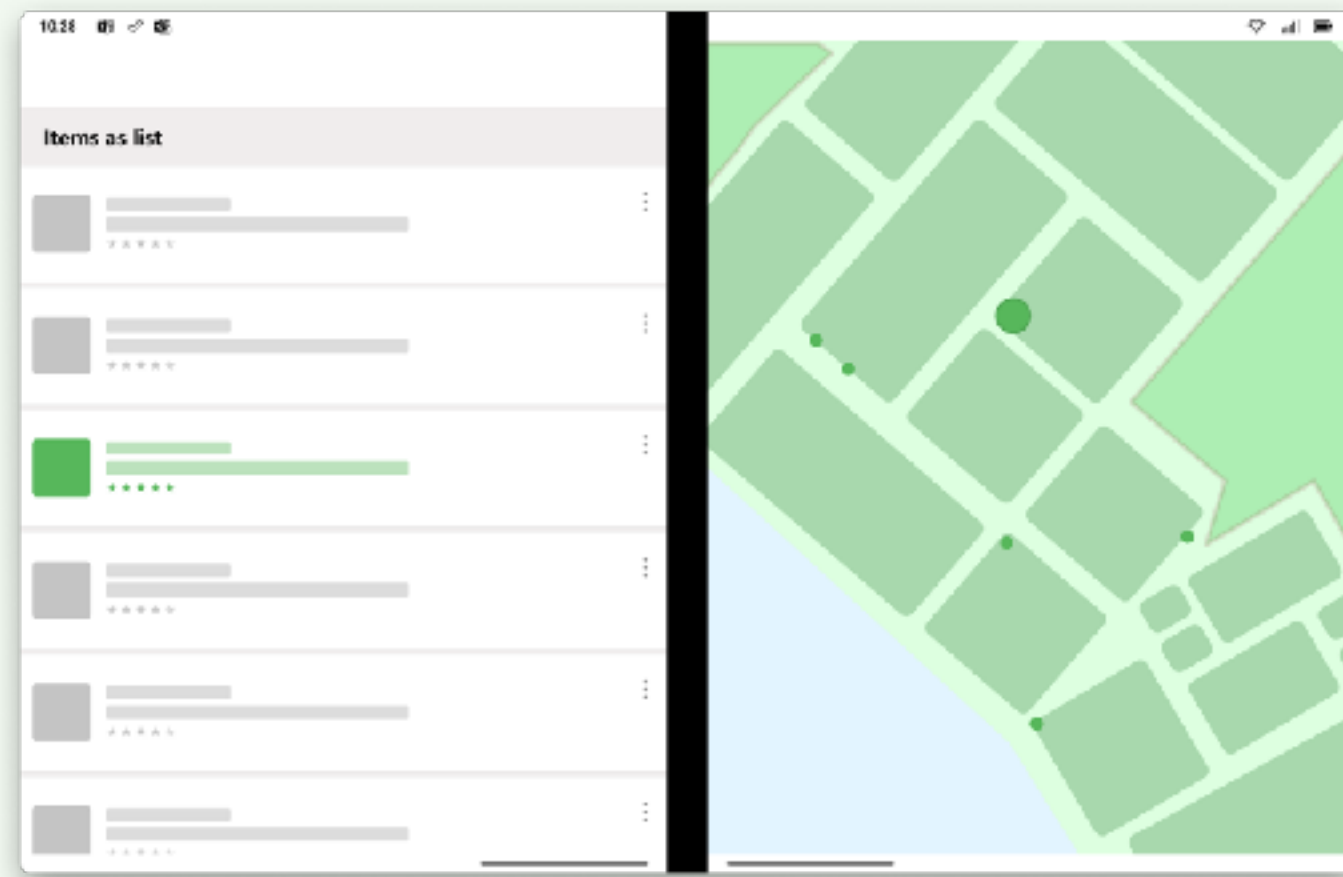


List left, map right

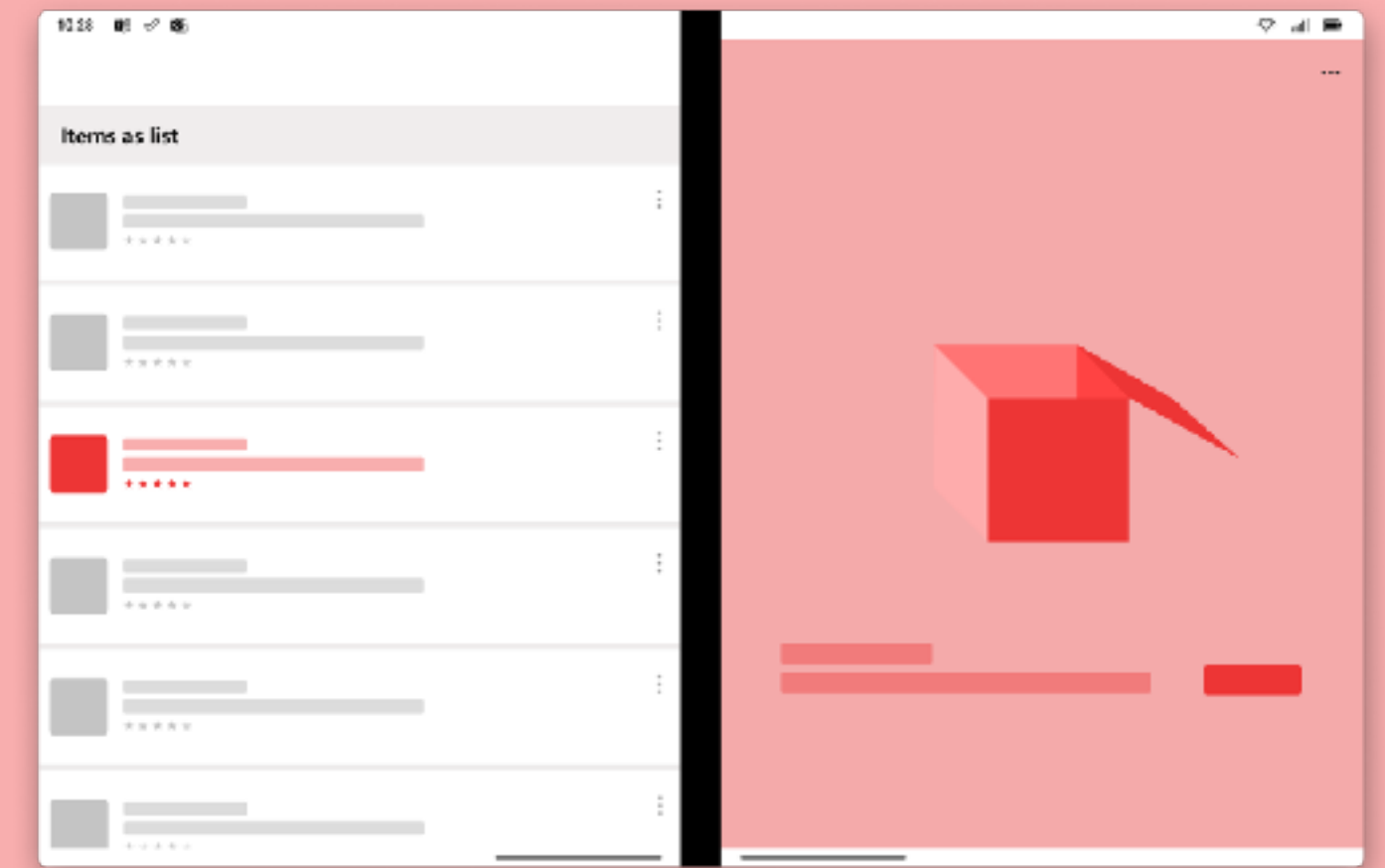
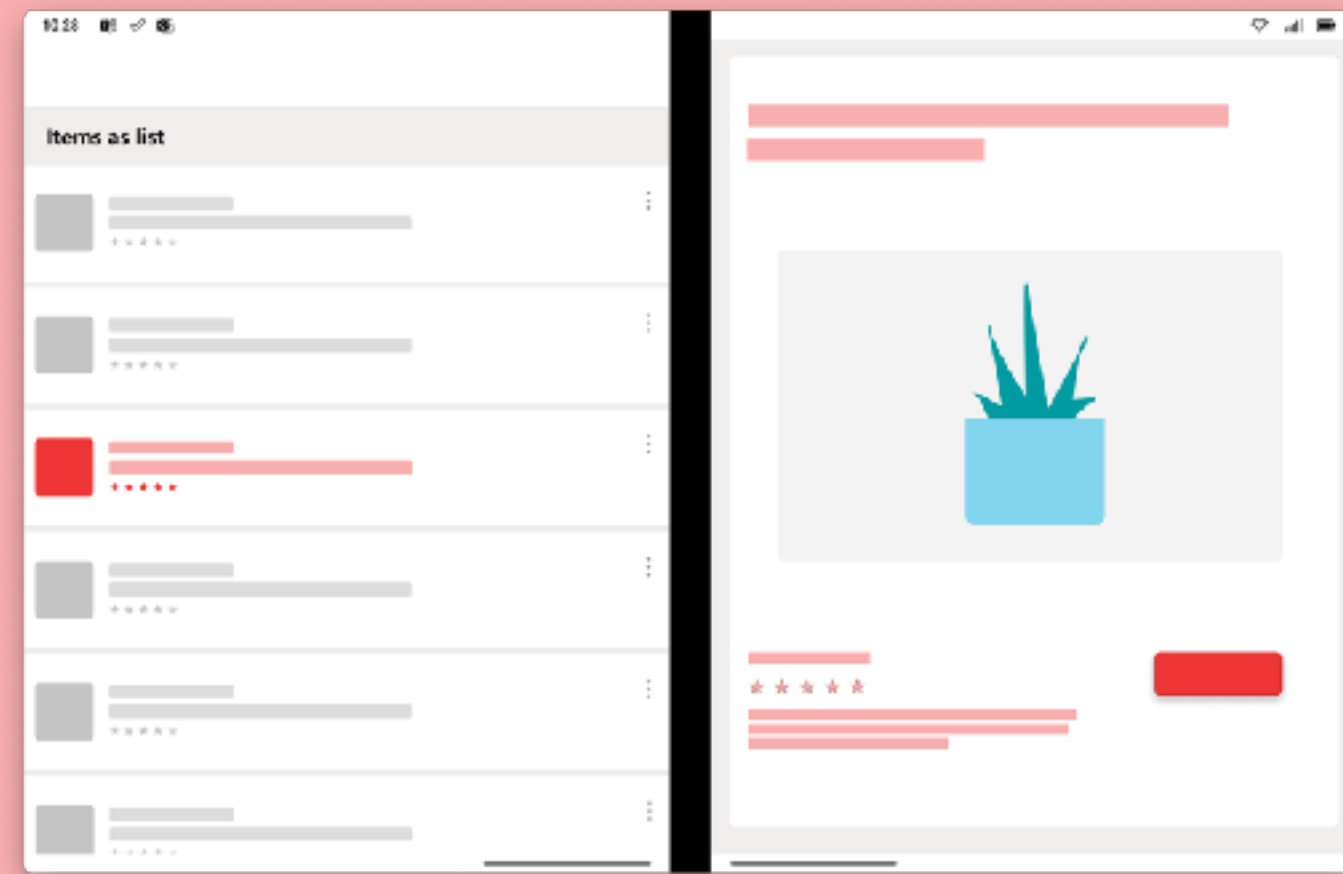
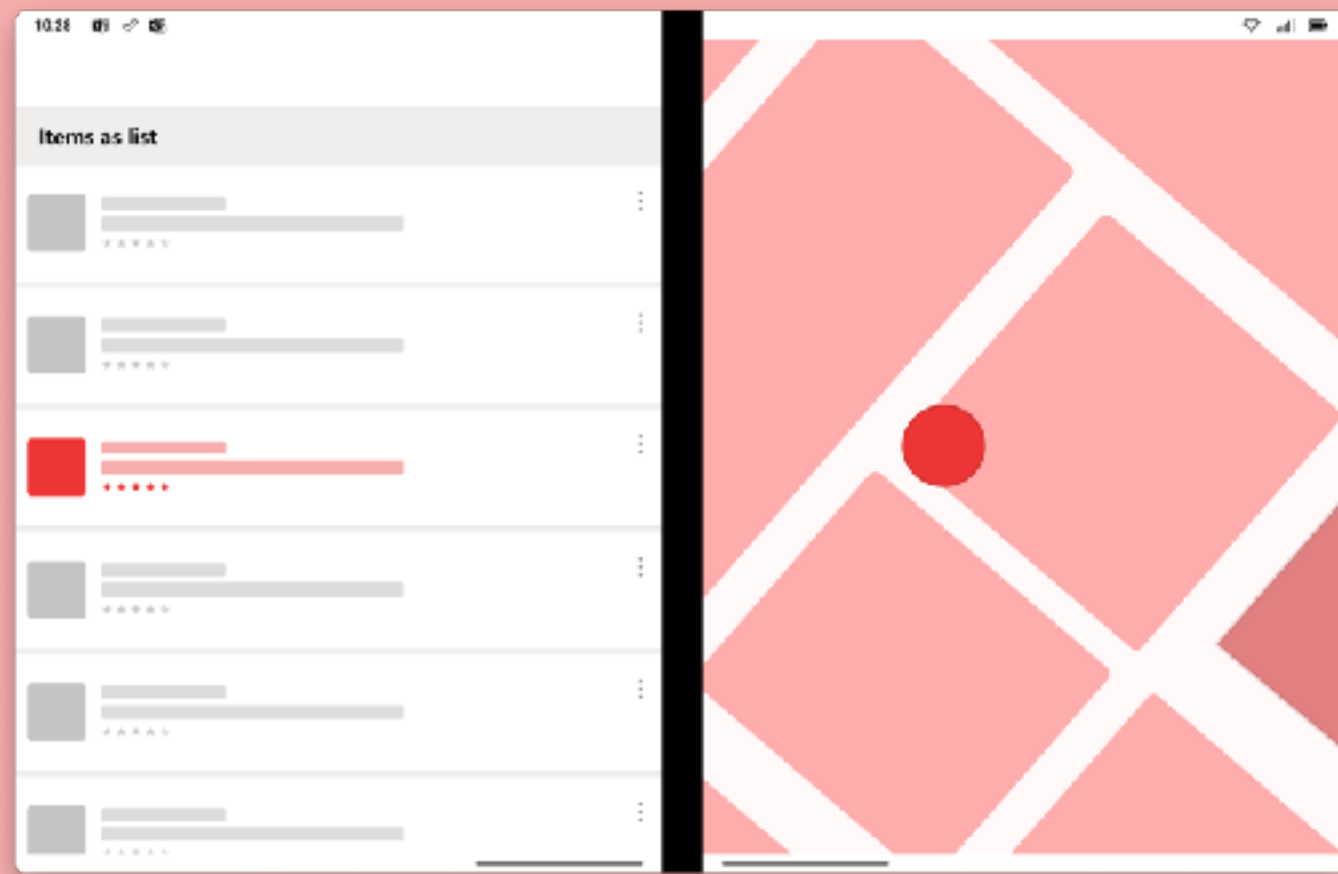




Do's



Dont's

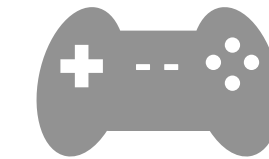
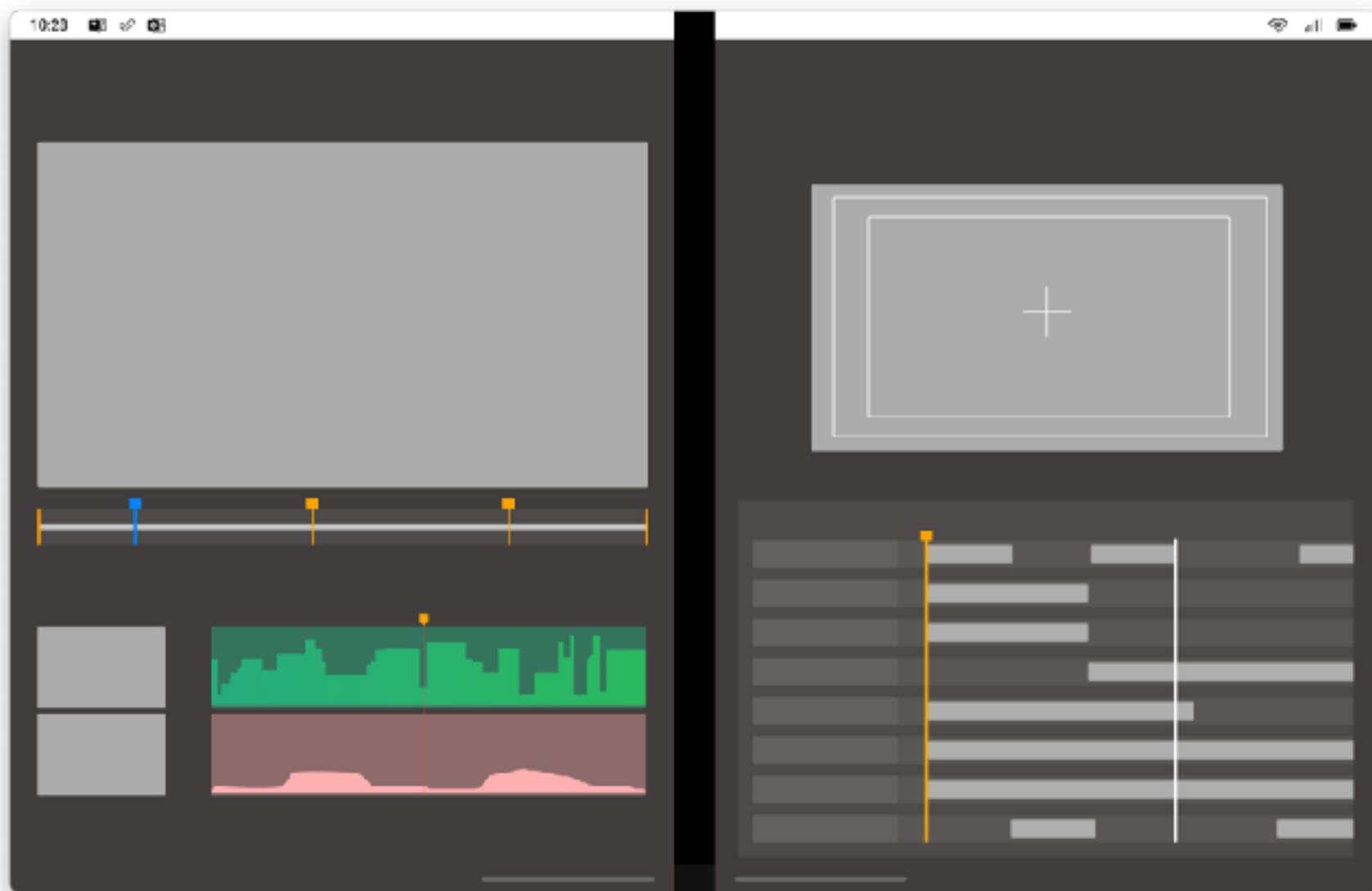




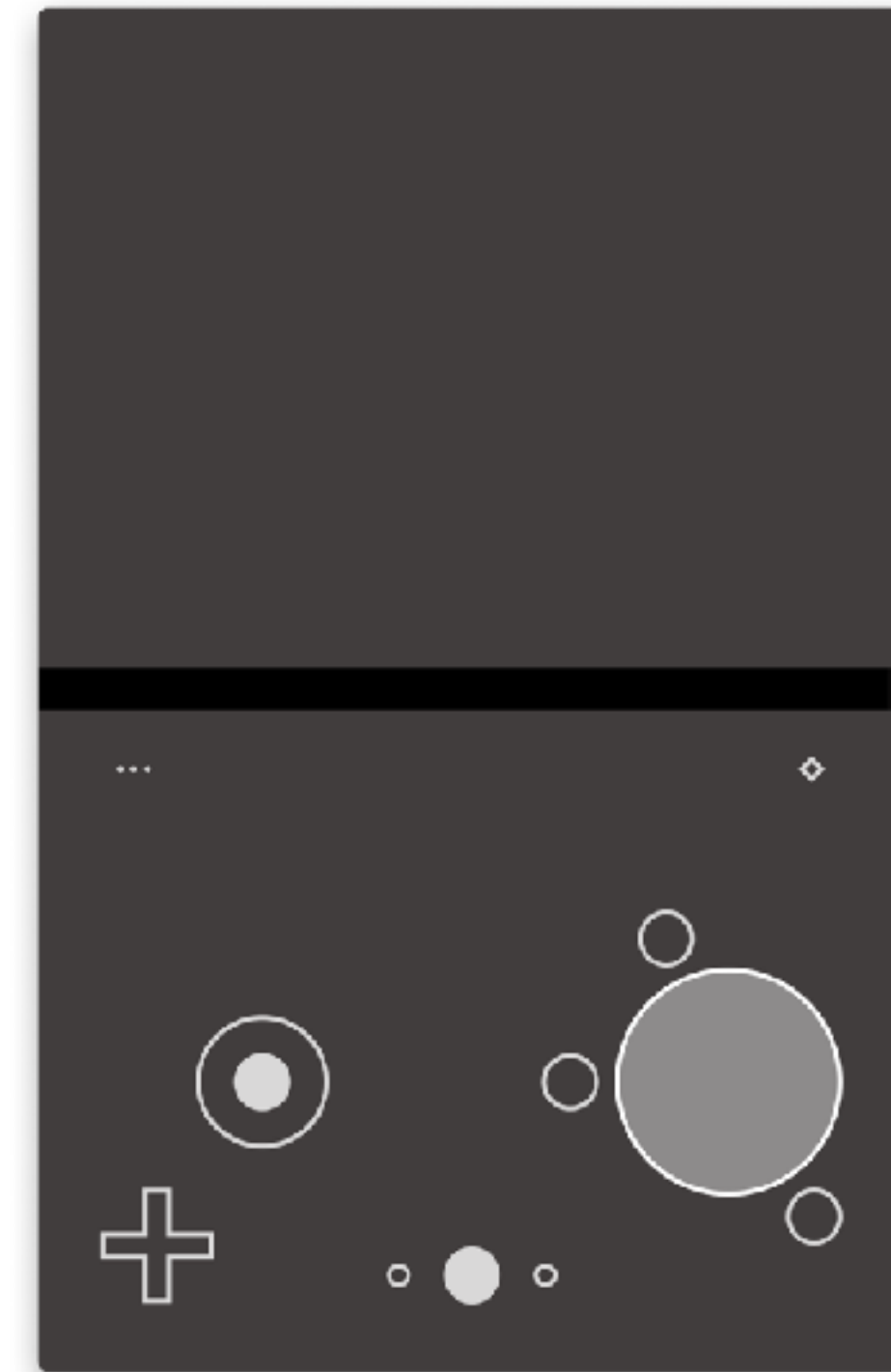
Companion Pane



Screen + Tools

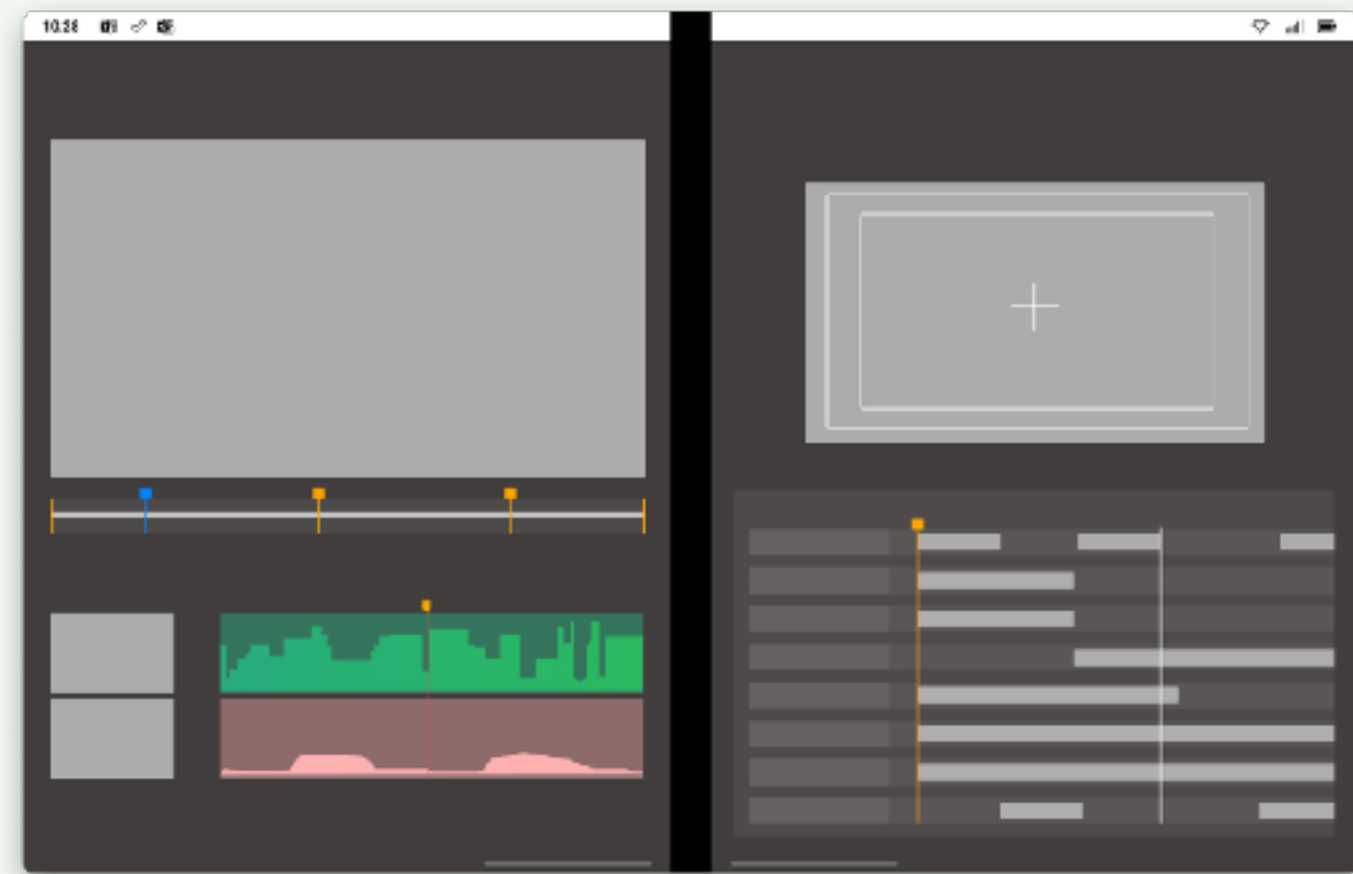


Games

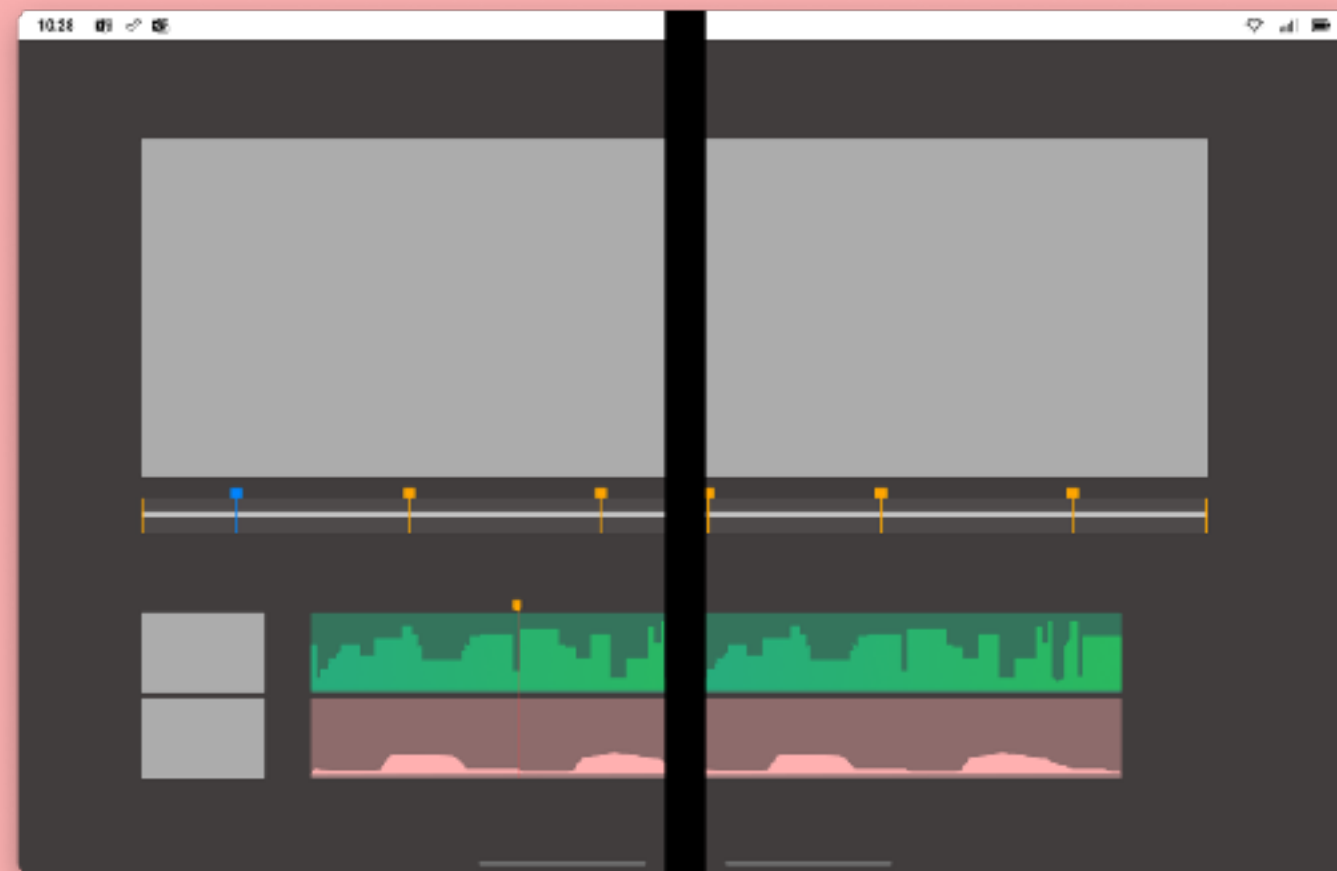




Do's



Dont's





QUESTIONS

03

If you have any questions, feel free to post them in the comments or send me a message via LinkedIn, Twitter, Instagram or E-Mail.



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