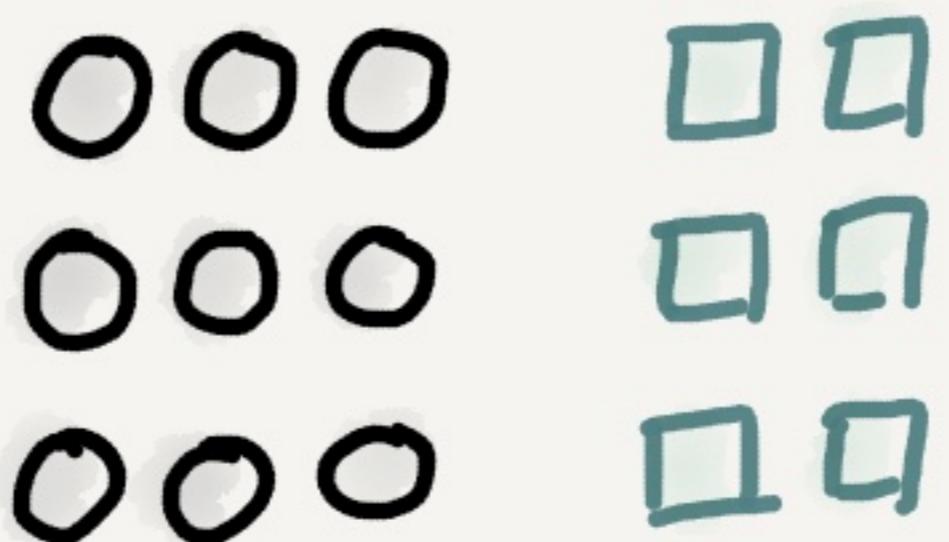
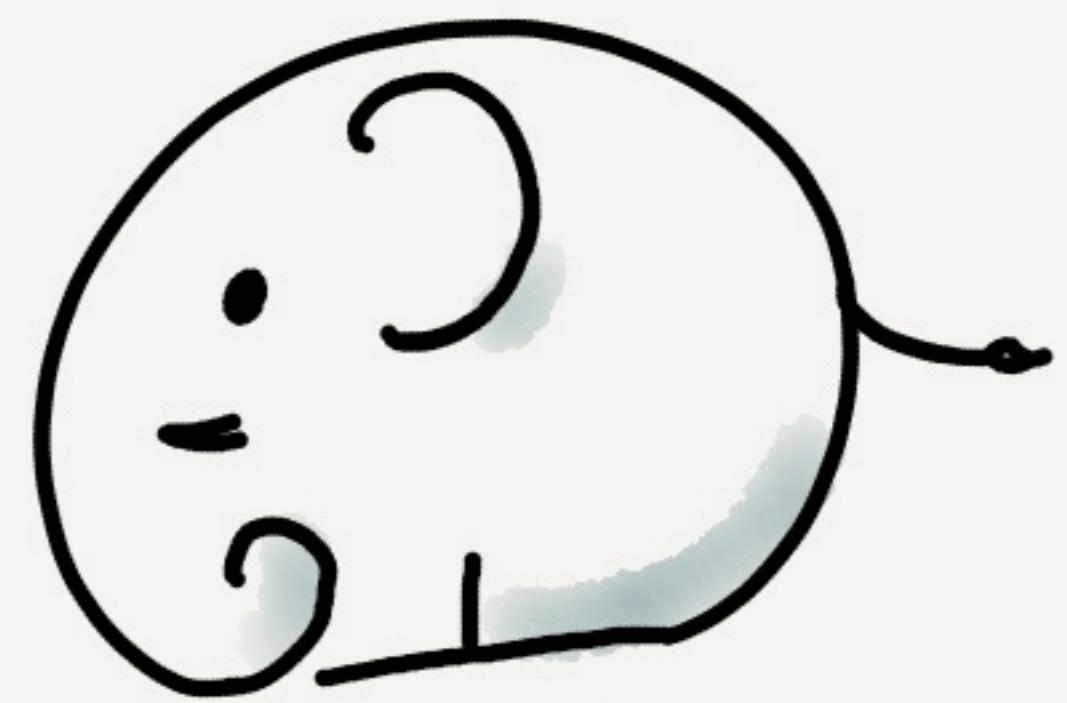




Hick's law



Gestalt law
of grouping



Aesthetic
usability
effect



Hick's law

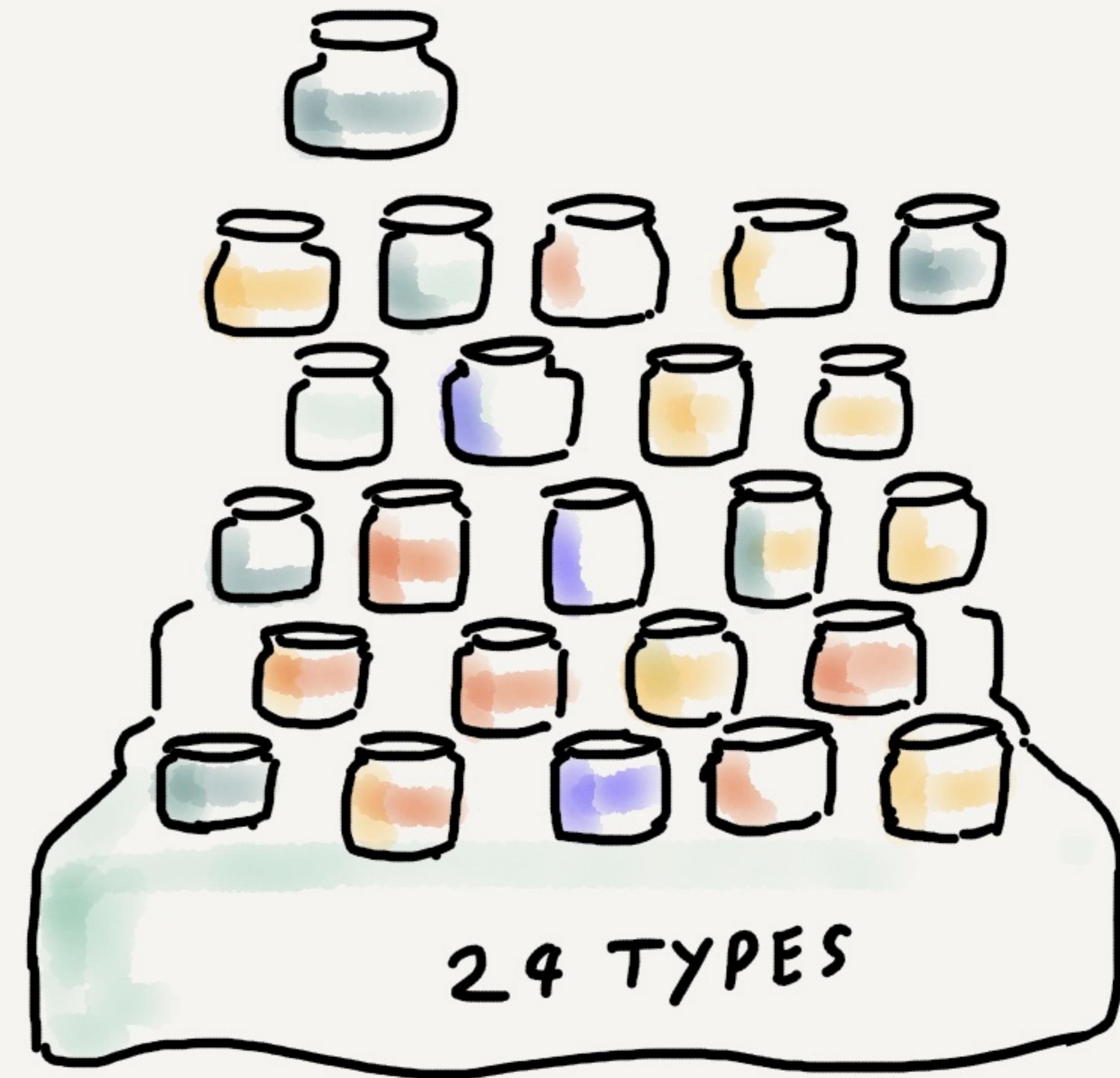
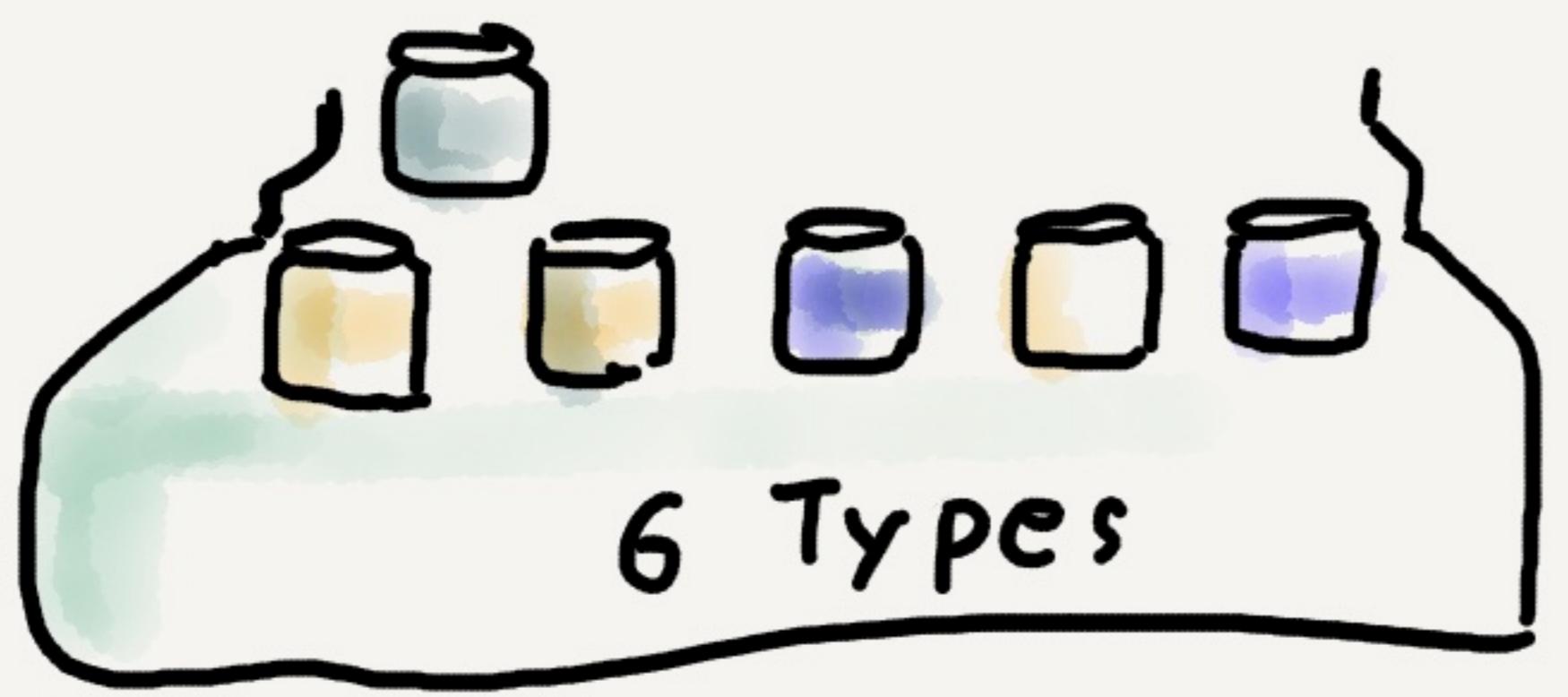
William Edmund Hick
1912 - 1974

$$RT = a + b \log_2(n)$$

RT : Reaction time

a, b : constant

n : Number of option



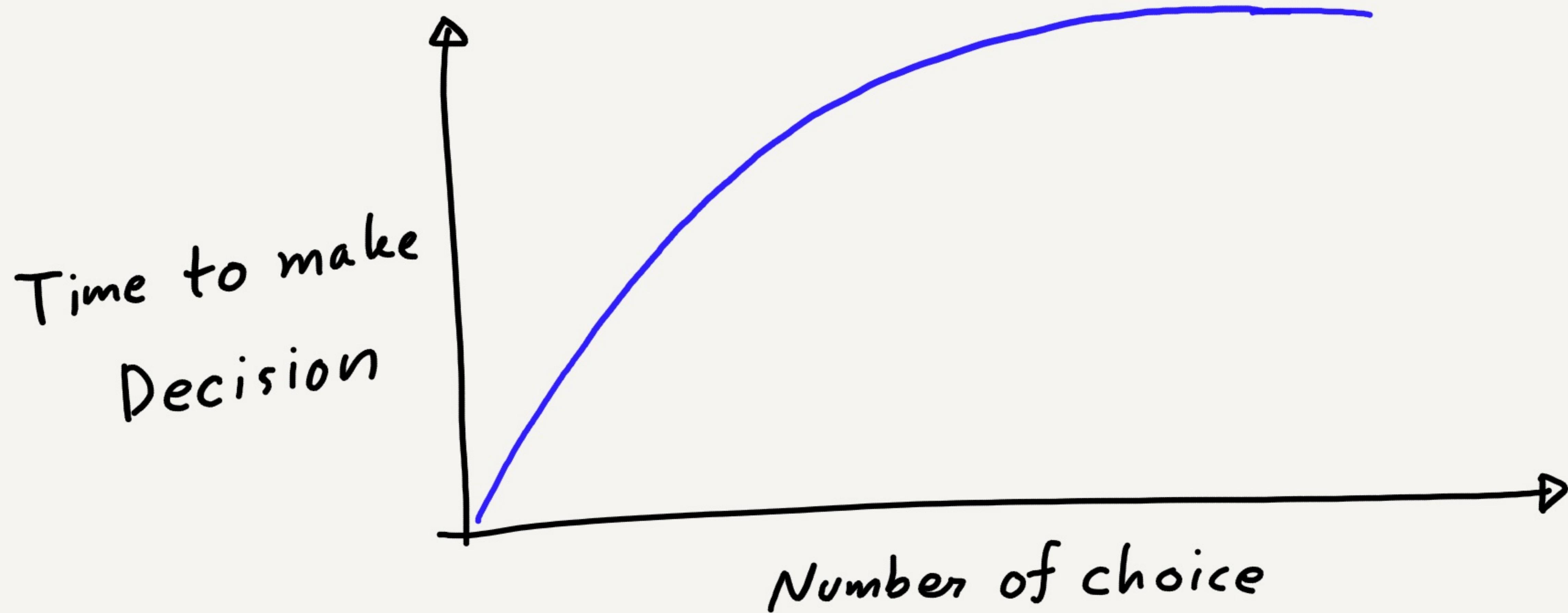
stop 40 %

Buy 30 %

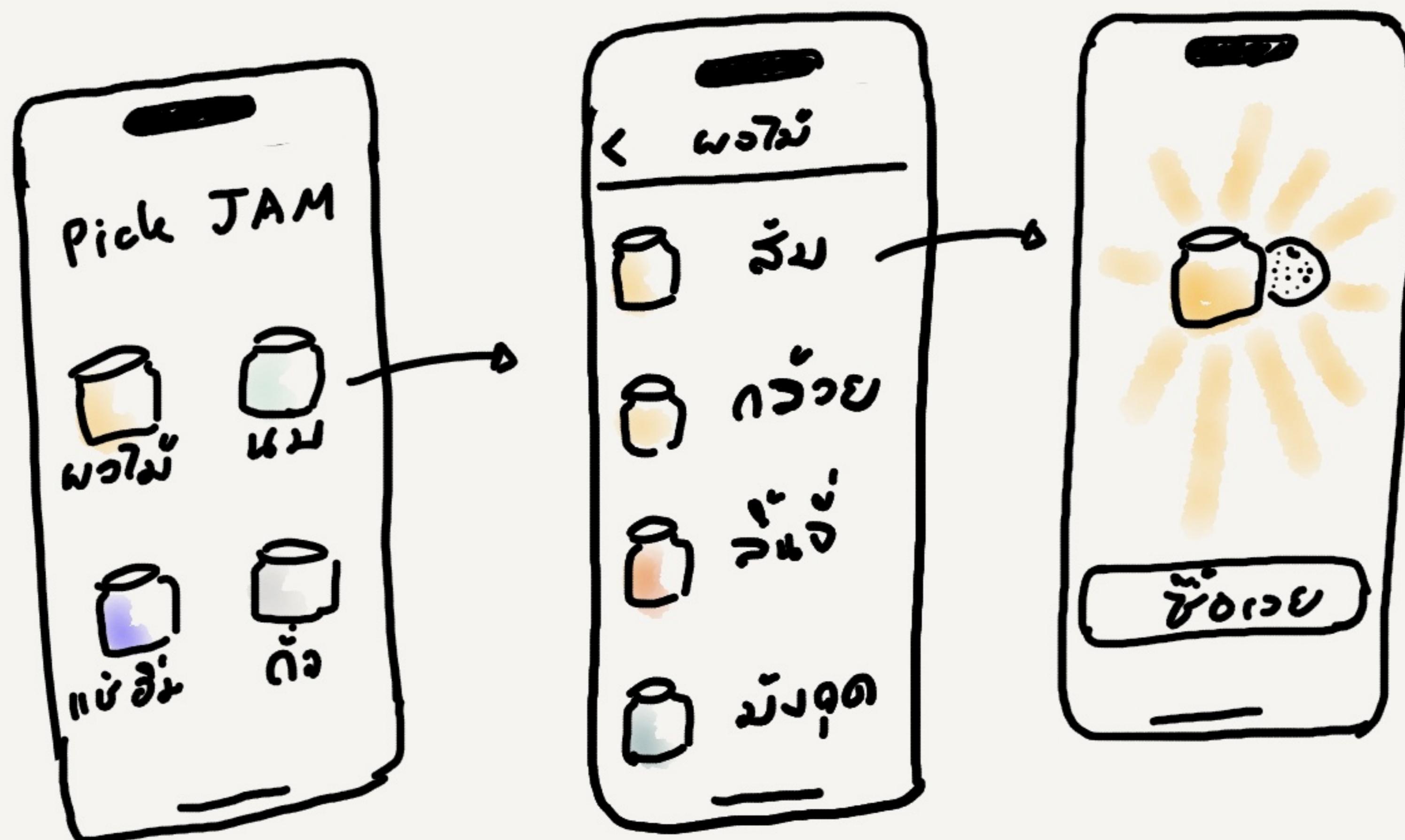
60 %

3 %

Time + Choice + Person



① Divide the process/choice into manageable choice





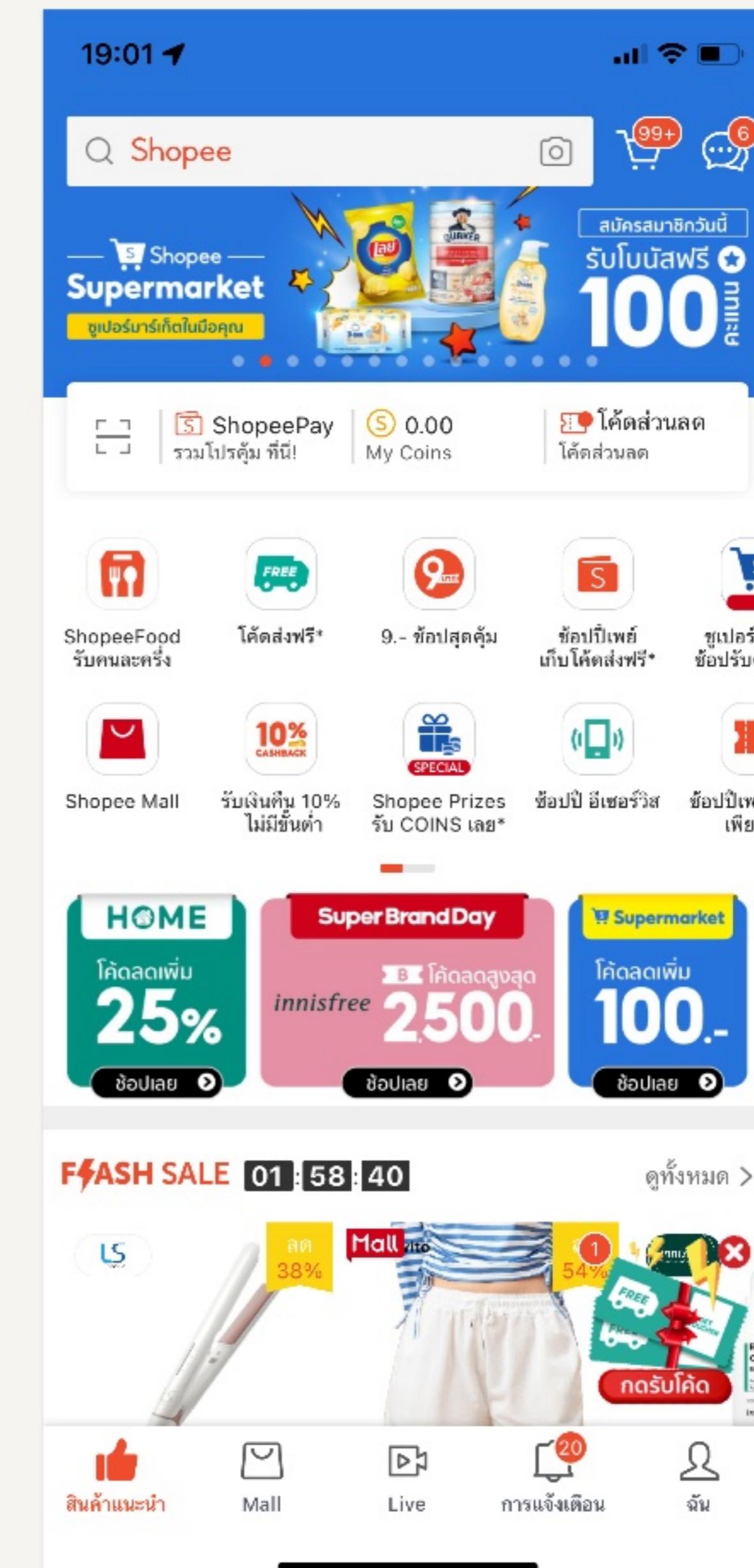
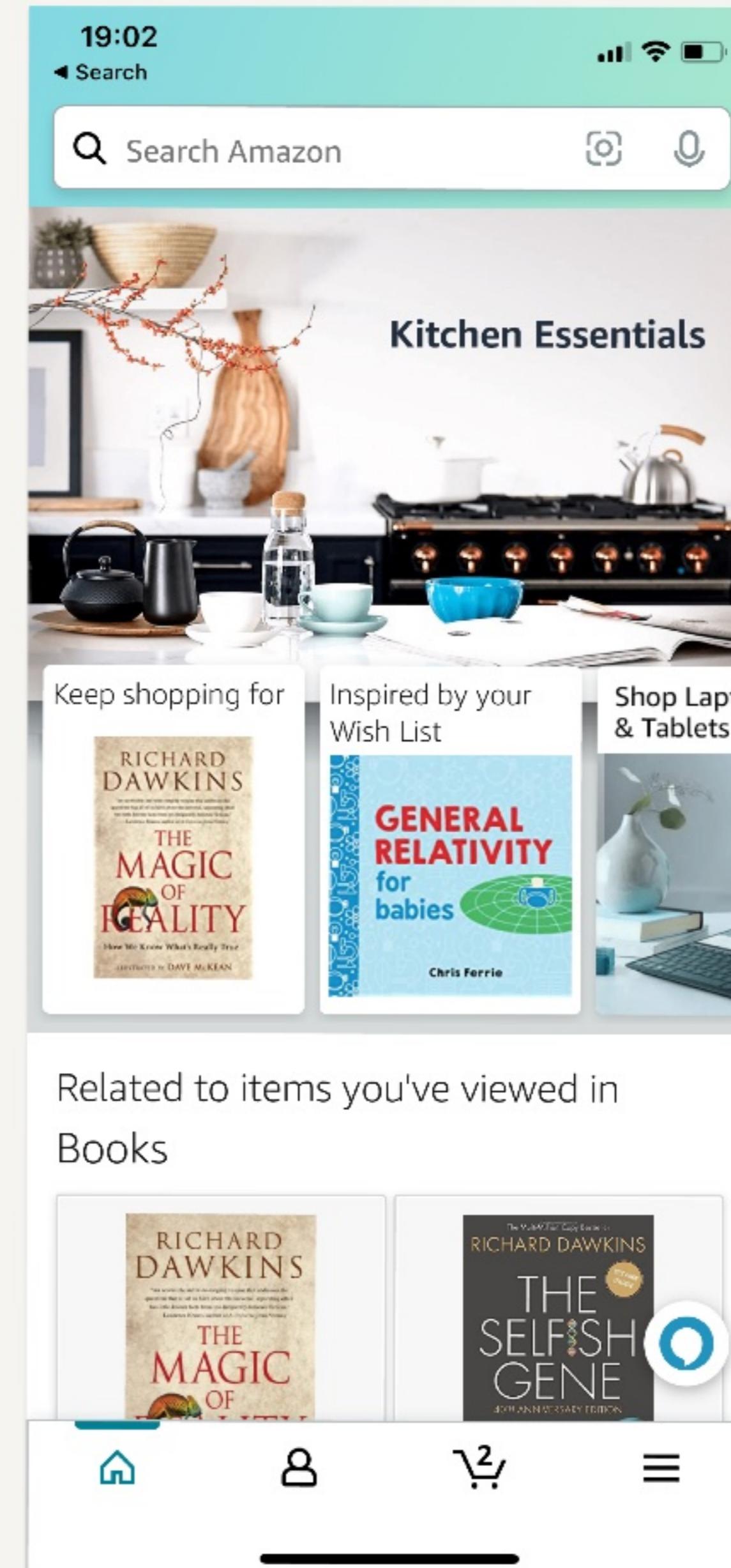
Card sorting

Card sorting

ເນື່ອໄຮກ້ວ້າ

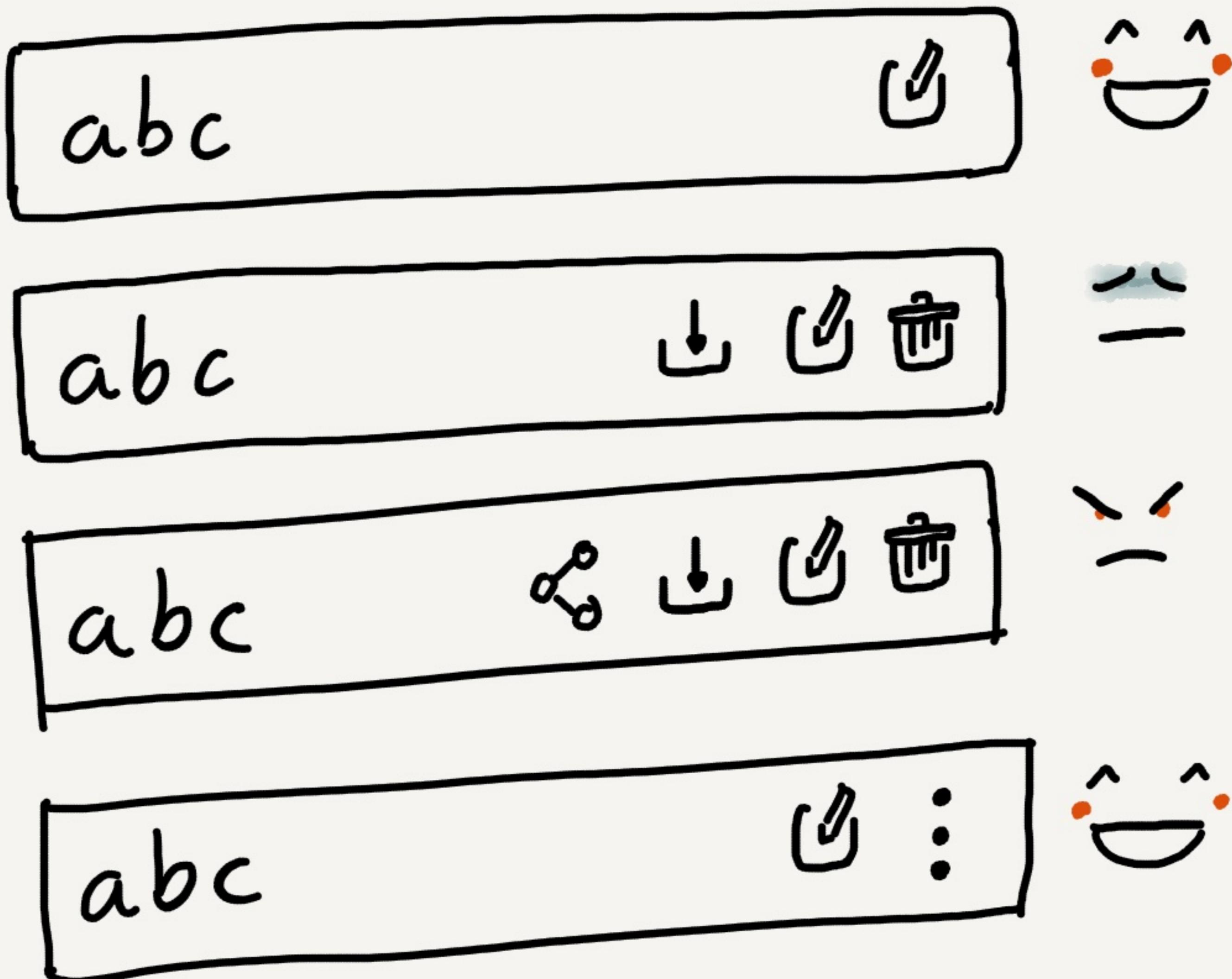


② Make the most important Stand out



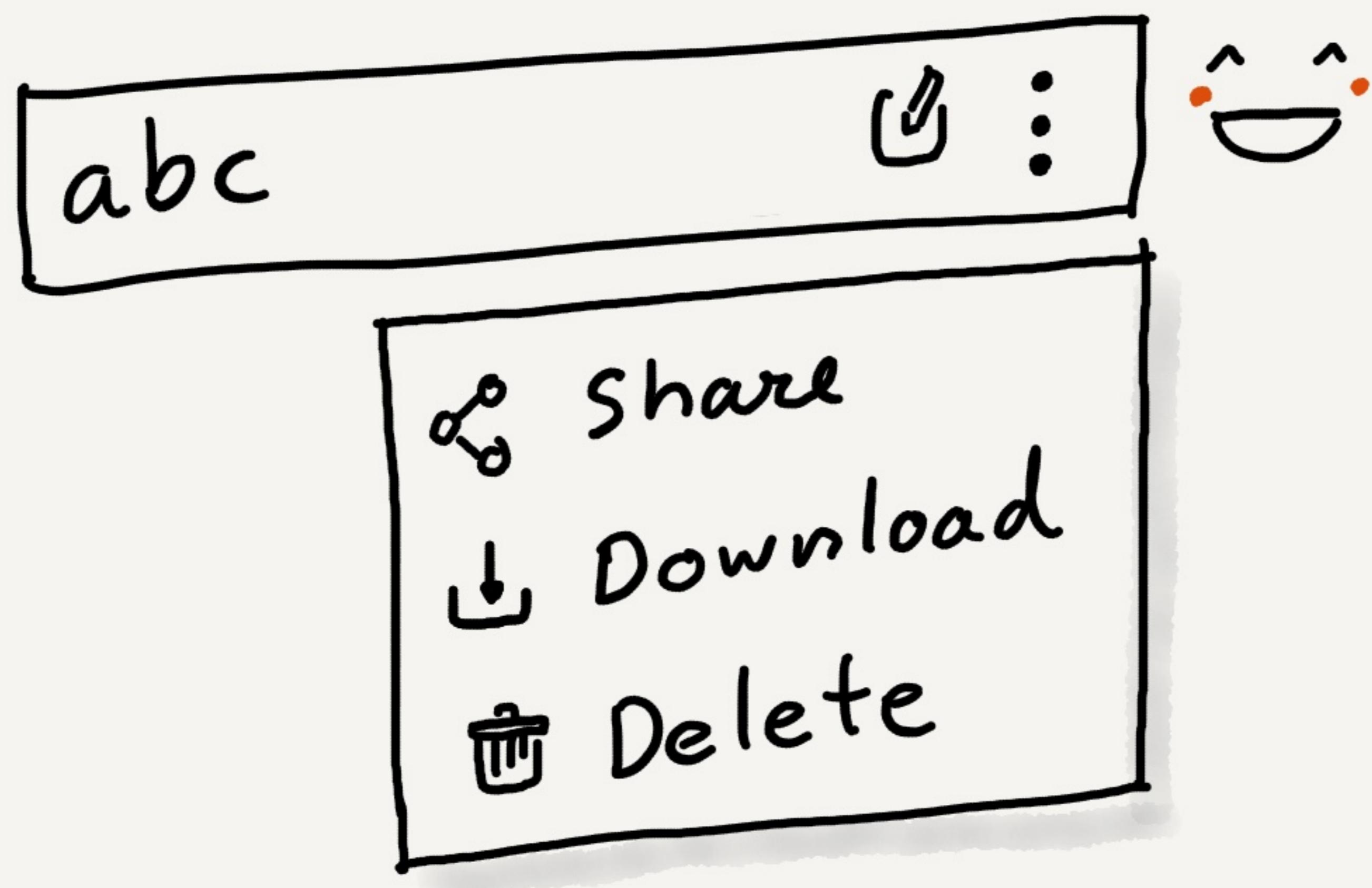
③

Hide the options



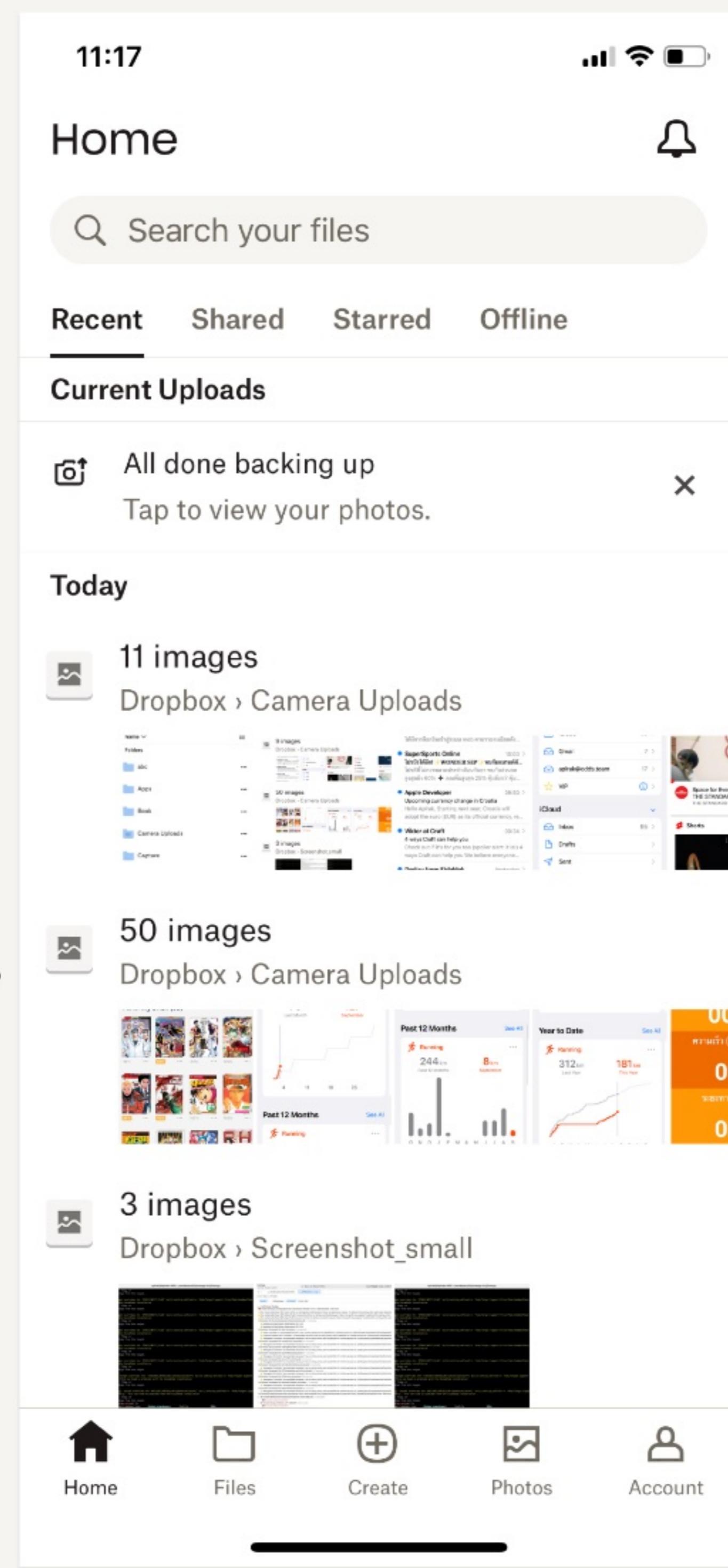
③

Hide the options



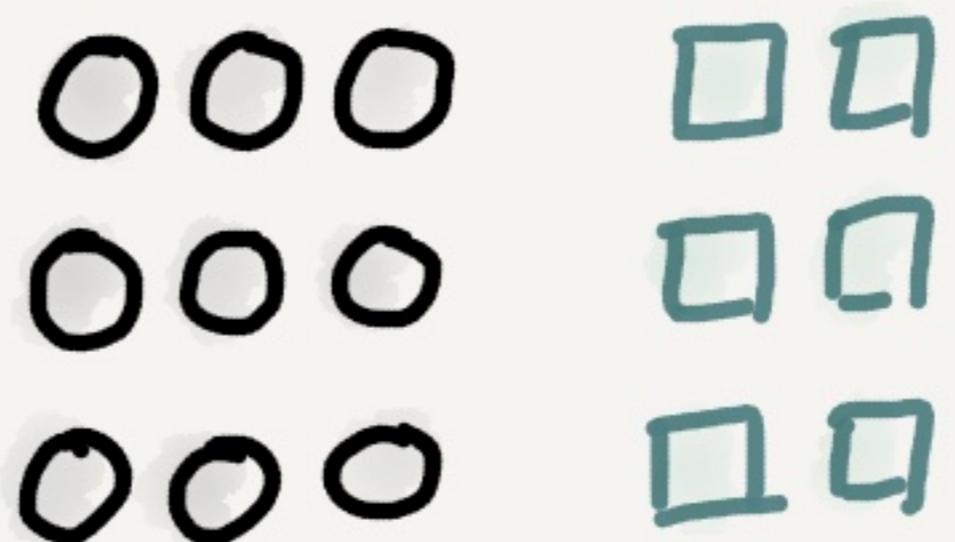


9 ö content

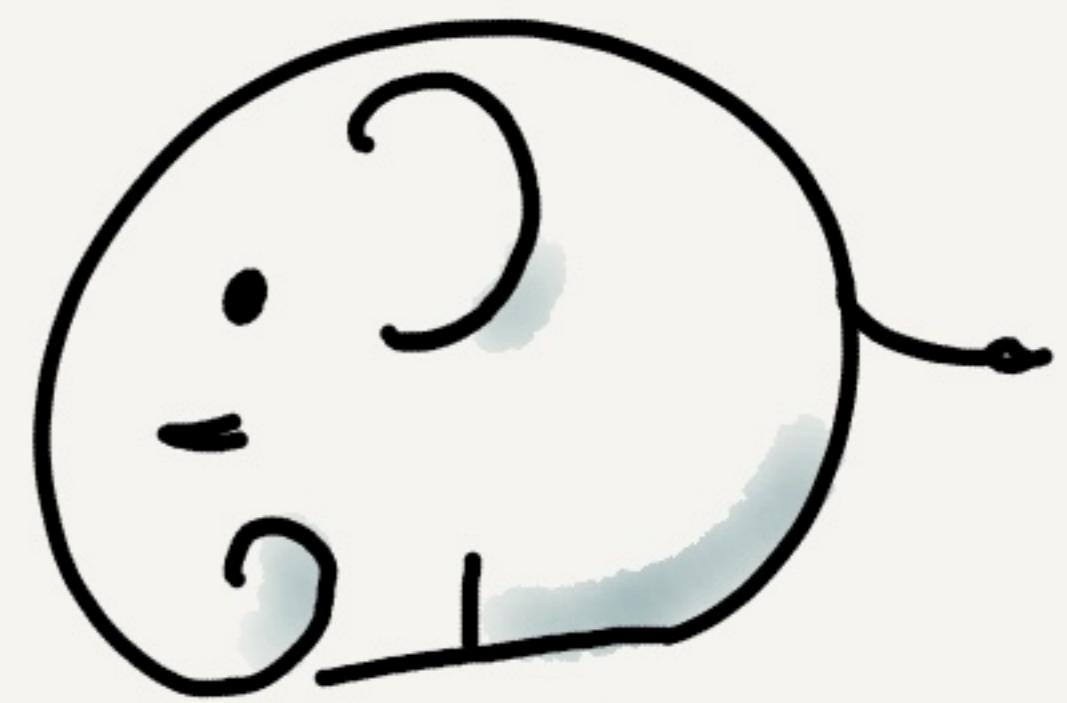




Hick's law

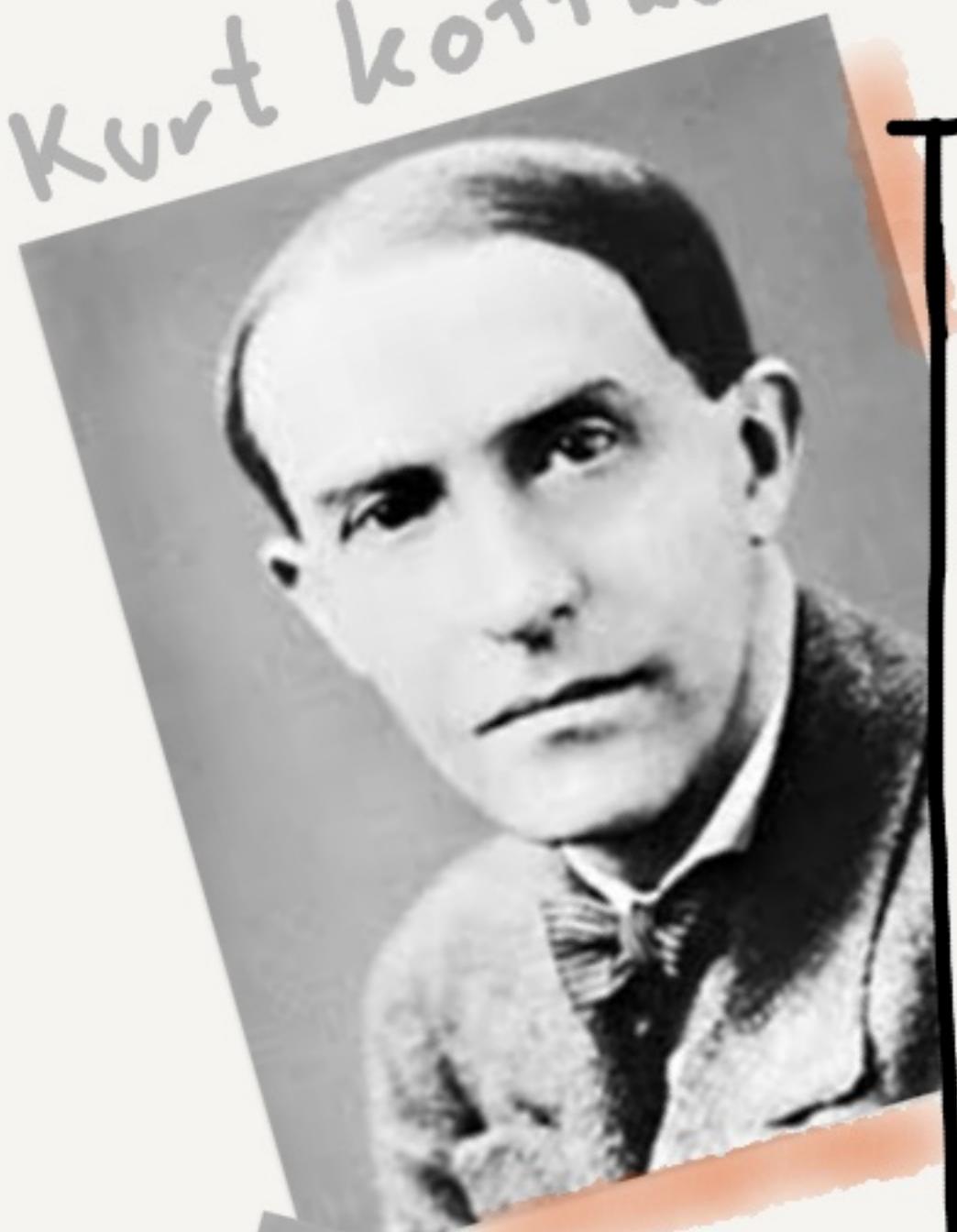


Gestalt law
of grouping

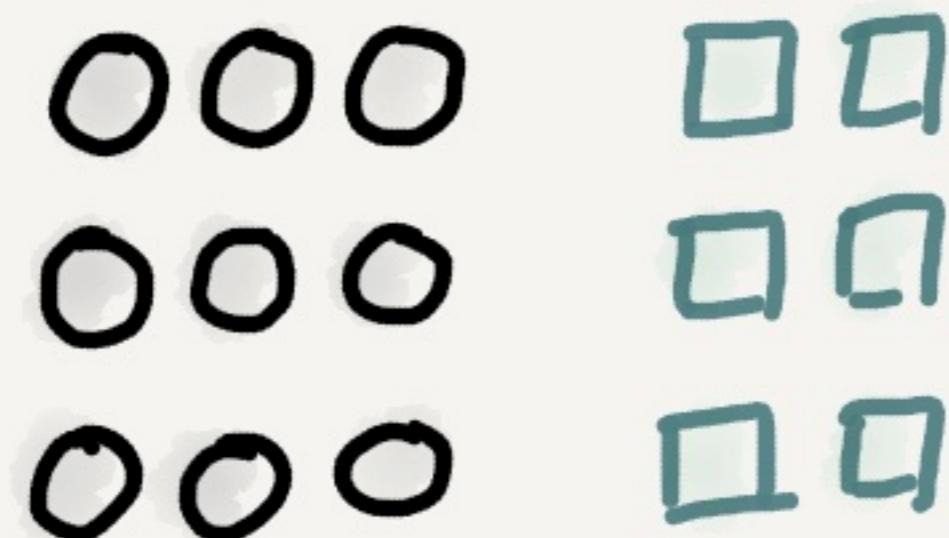


Aesthetic
usability
effect

Kurt koffka

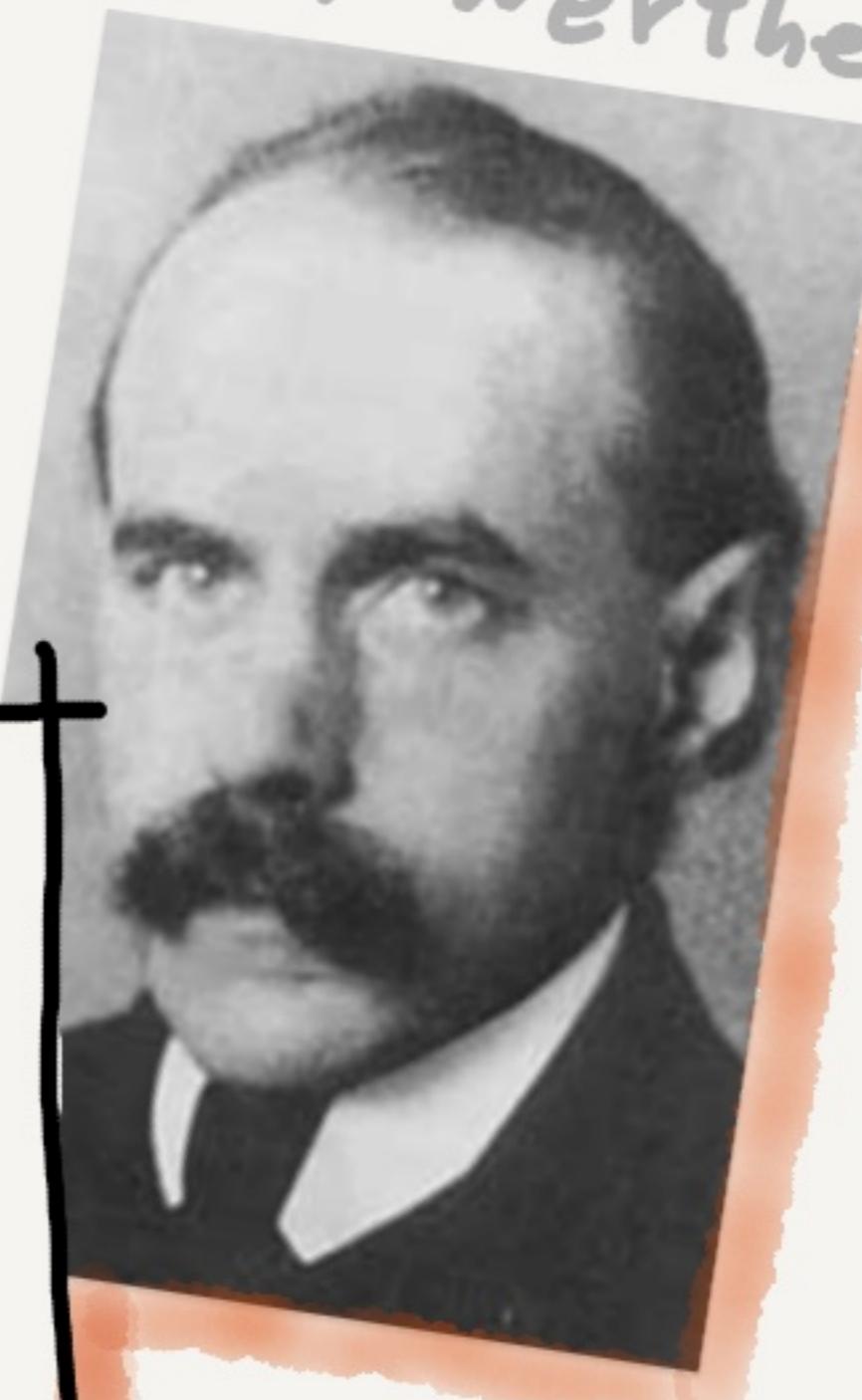


Gestalt law
of grouping



wolfgang köhler

Max Wertheimer



Gestalt (n) in German
an organized whole that
is perceived as more
than some of its parts

The screenshot shows a Mac OS X-style window for the Apple Developer website. The title bar reads "Motion - Foundations - Human" and the URL is "developer.apple.com/design/human-interface-guidelines/foundations/motion". The main content area is titled "Design" and has a sidebar on the left with categories like Platforms, Foundations, Motion, Patterns, Components, Inputs, and Technologies. The "Motion" section is expanded, showing sub-topics such as Overview, Accessibility, App icons, Branding, Color, Dark Mode, Icons, Images, Inclusion, Layout, Materials, Right to left, SF Symbols, and Typography. The main content area features a large heading "Platform considerations" with a note stating "No additional considerations for iOS, iPadOS, macOS, or tvOS." Below this is a section titled "watchOS" which discusses using WatchKit to animate UI elements. It lists attributes that can be animated: Alignment, Background color, Group insets, Height, Opacity, Accent color, and Width. A note states that all layout- and appearance-based animations automatically include built-in easing. At the bottom, it mentions creating animated image sequences.

Platform considerations

No additional considerations for iOS, iPadOS, macOS, or tvOS.

watchOS

SwiftUI provides a powerful and streamlined way to add motion to your app. If you need to use WatchKit to animate layout and appearance changes — or create animated image sequences — follow these guidelines.

NOTE

All layout- and appearance-based animations automatically include built-in easing that plays at the start and end of the animation. You can't turn off or customize easing.

Using WatchKit, you can animate changes to the following attributes of your app's UI elements:

- Alignment
- Background color
- Group insets
- Height
- Opacity
- Accent color
- Width

WatchKit also lets you create an animated image sequence, which consists of two or more individual images displayed sequentially over time. Each image in the sequence constitutes a single frame of the animation, and the whole animation runs in a loop unless you modify the playback behavior at

ហេត្តដំឡាសាមរណ ចំណាំ content បែនក្នុងទំនាក់ទំនង

The screenshot shows the 'Motion - Foundations - Human' page from developer.apple.com. The page is titled 'Platform considerations' under the 'watchOS' section. A sidebar on the left lists various design foundations, and a sidebar on the right provides links for motion resources. Red boxes highlight the main title, the sidebar categories, and the right sidebar.

Design

Platforms

Foundations

- Overview
- Accessibility
- App icons
- Branding
- Color
- Dark Mode
- Icons
- Images
- Inclusion
- Layout
- Materials
- Motion**
- Right to left
- SF Symbols
- Typography

Patterns

Components

Inputs

Technologies

Platform considerations

No additional considerations for iOS, iPadOS, macOS, or tvOS.

watchOS

SwiftUI provides a powerful and streamlined way to add motion to your app. If you need to use WatchKit to animate layout and appearance changes — or create animated image sequences — follow these guidelines.

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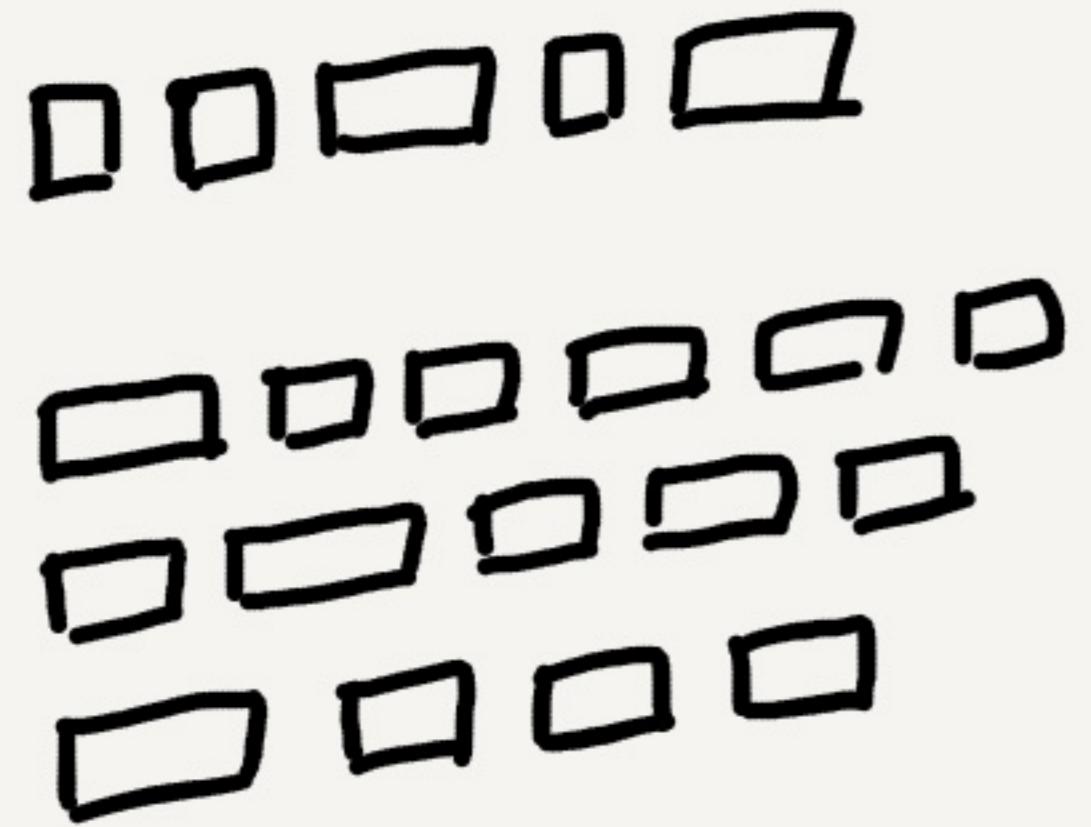
Using WatchKit, you can animate changes to the following attributes of your app's UI elements:

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- Background color
- Group insets
- Height
- Opacity
- Accent color
- Width

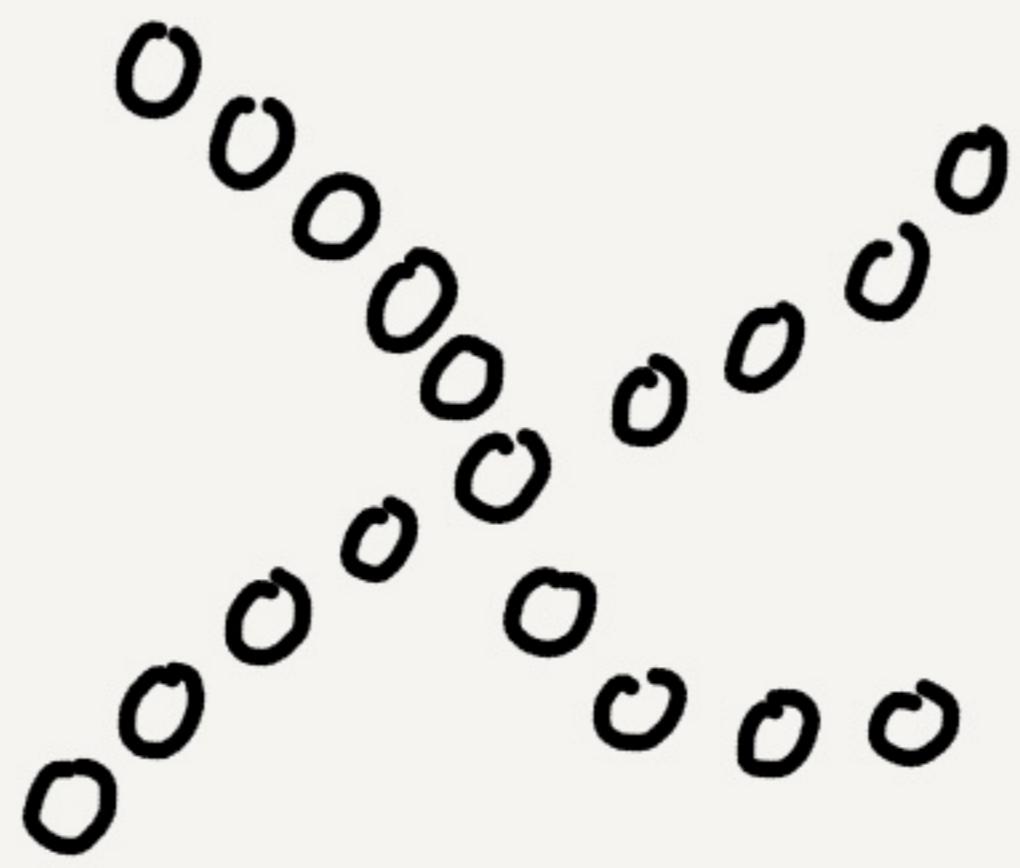
WatchKit also lets you create an animated image sequence, which consists of two or more individual images displayed sequentially over time. Each image in the sequence constitutes a single frame of the animation, and the whole animation runs in a loop unless you modify the playback behavior at

Motion
Best practices
Platform considerations
Resources

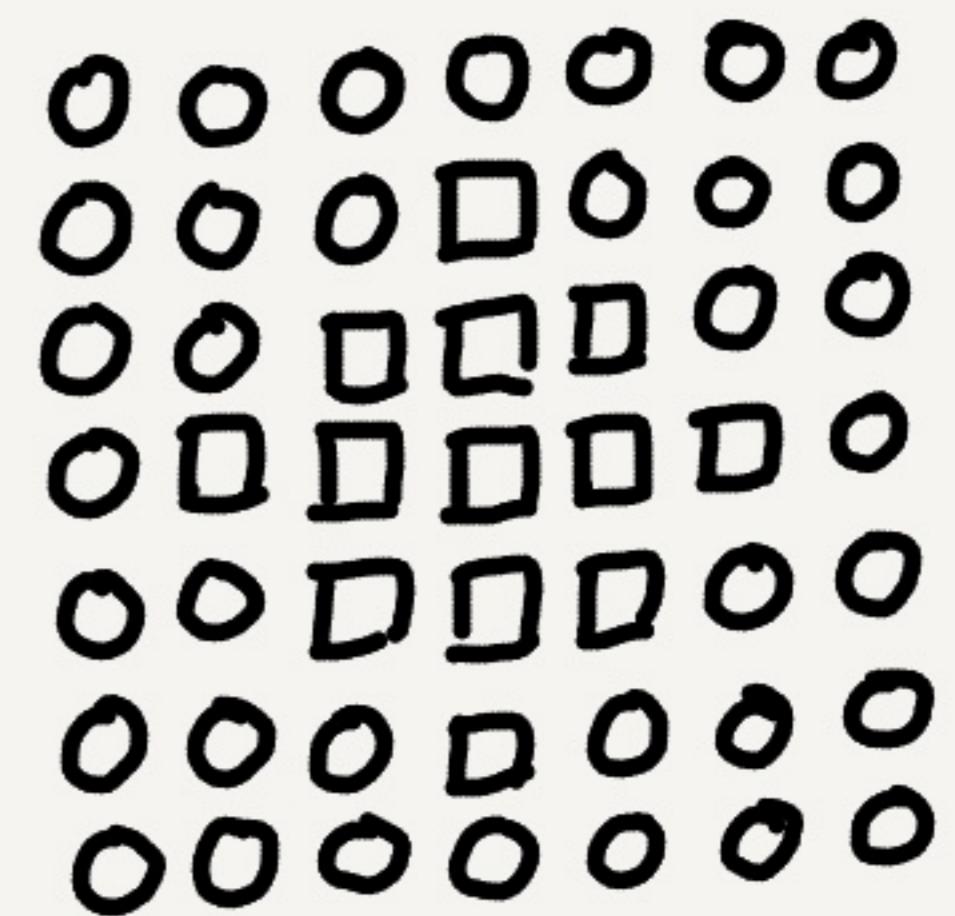
ហេត្តដំឡាសាមរណ ចំណាំ ក្នុងម៉ោង 7 បញ្ចប់



Proximity



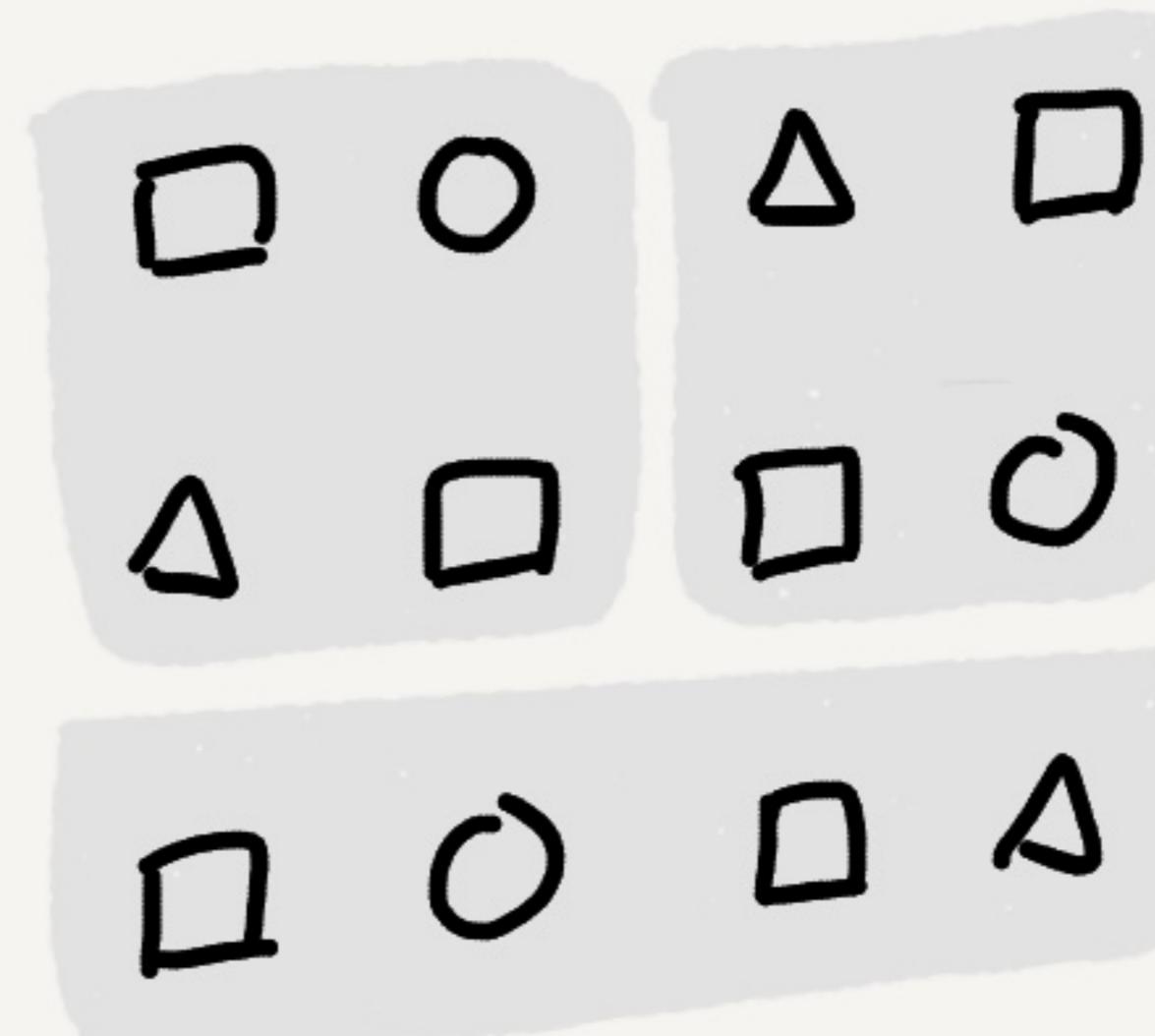
Continuity



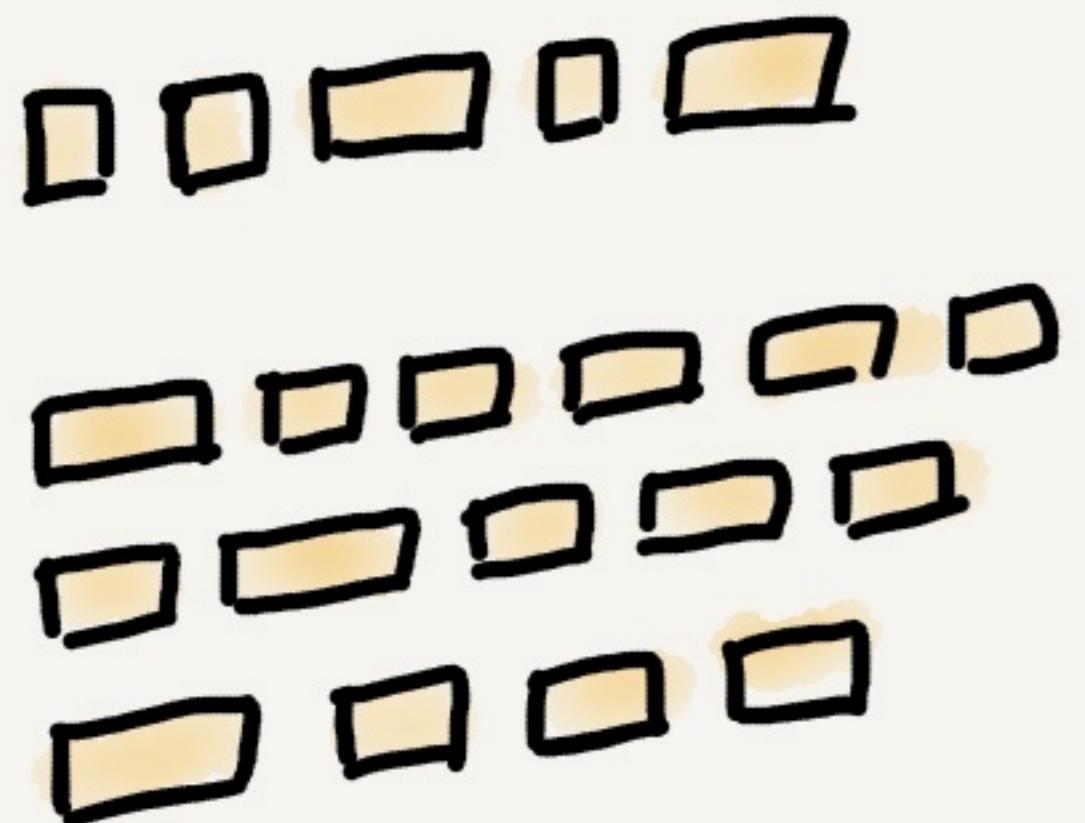
Similarity



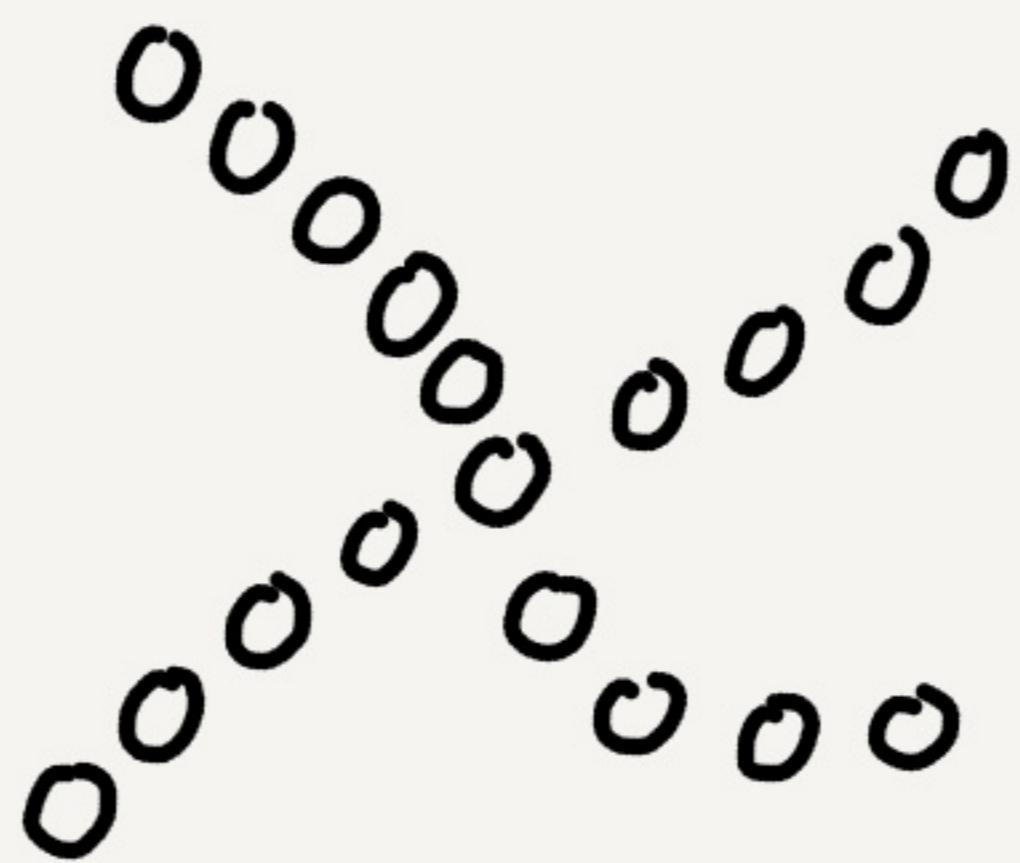
Closure



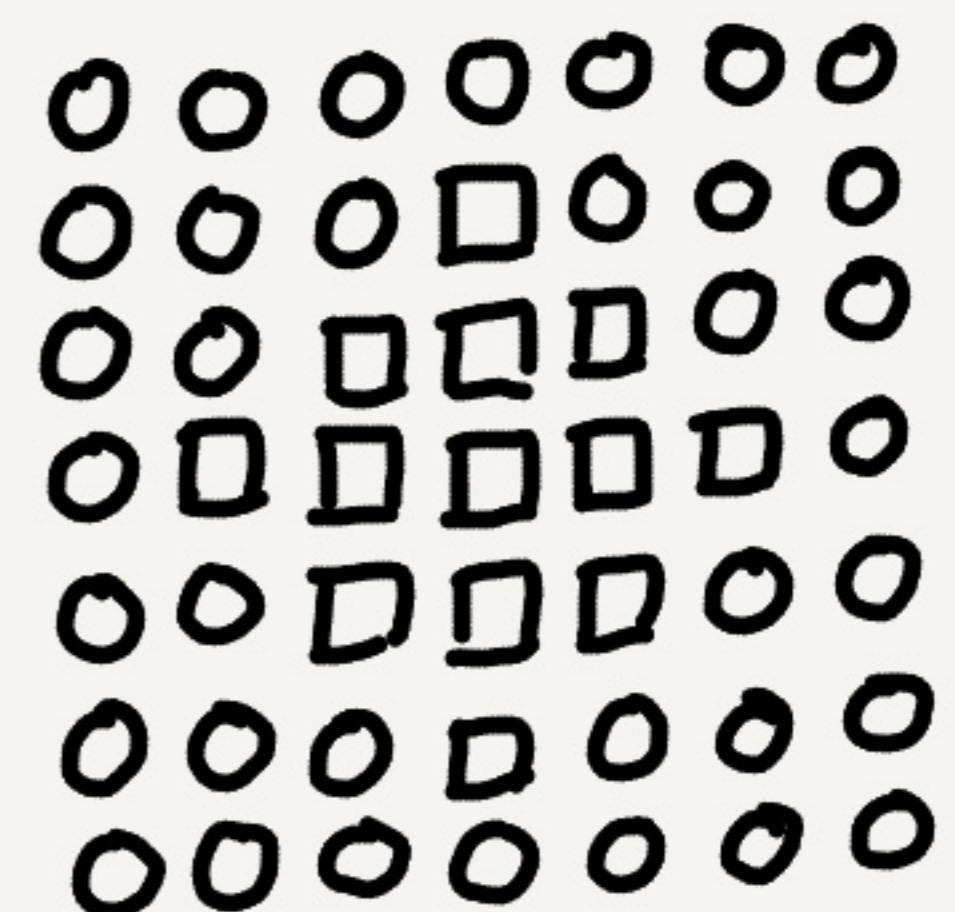
Common
Region



Proximity



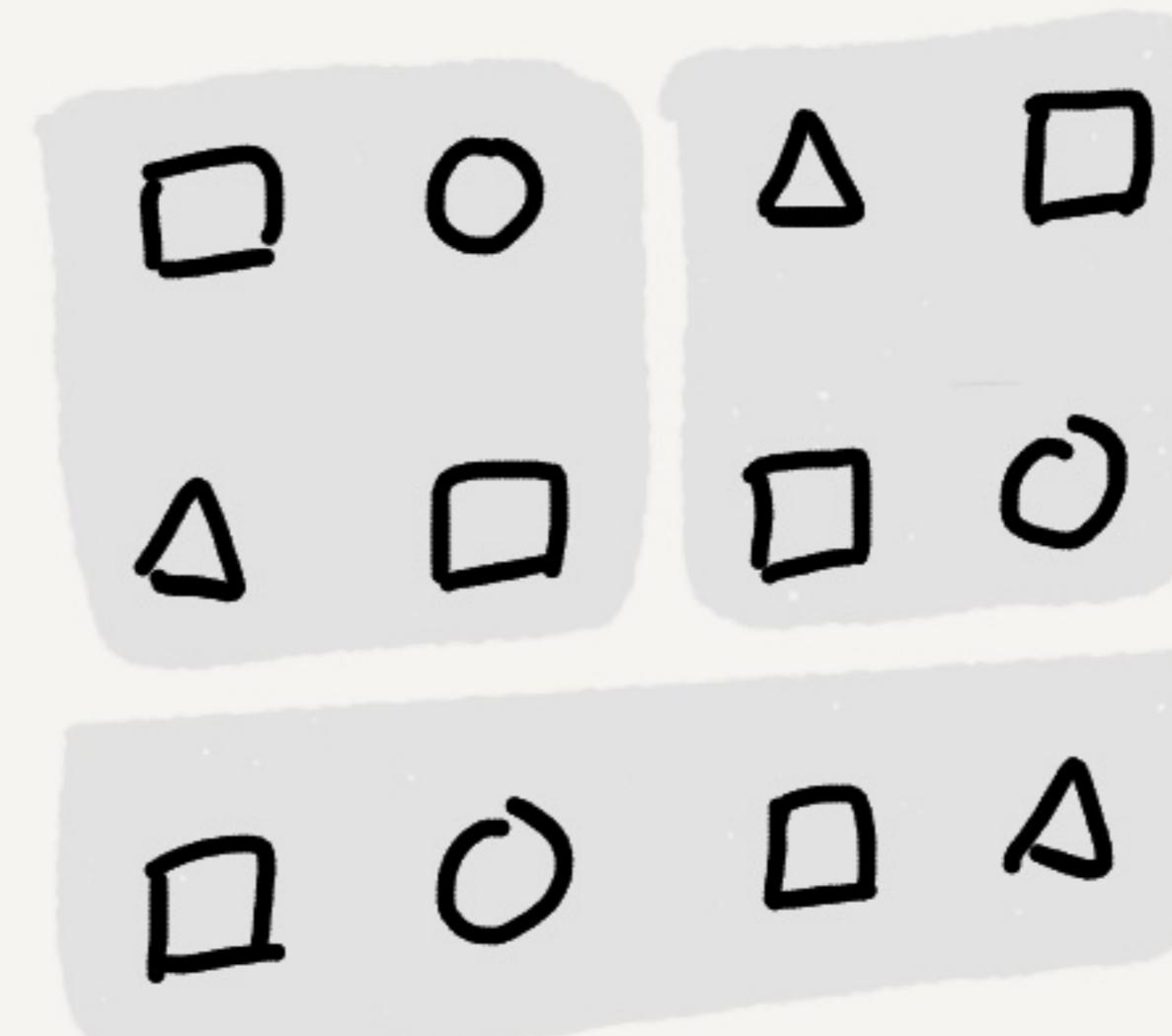
Continuity



Similarity



Closure



Common
Region

① Proximity

The screenshot shows a web browser window displaying the Apple Human Interface Guidelines for Motion. The URL is developer.apple.com/design/human-interface-guidelines/foundations/motion. The page is titled "Design" and has a sidebar on the left with categories like Platforms, Foundations, Patterns, Components, Inputs, and Technologies. The "Foundations" section is currently selected. A red arrow points from the heading "Platform considerations" to the "watchOS" section. The "watchOS" section title is bolded. Below it, a note states: "No additional considerations for iOS, iPadOS, macOS, or tvOS." The "watchOS" section contains text about using SwiftUI for motion and WatchKit for animations. It lists attributes that can be animated using WatchKit, such as Alignment, Background color, Group insets, Height, Opacity, Accent color, and Width. A note also mentions that WatchKit automatically includes built-in easing. At the bottom, there's a note about creating animated image sequences.

Platform considerations

No additional considerations for iOS, iPadOS, macOS, or tvOS.

watchOS

SwiftUI provides a powerful and streamlined way to add motion to your app. If you need to use WatchKit to animate layout and appearance changes — or create animated image sequences — follow these guidelines.

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ហេត្តុនៃរាយការណ៍ទាំង content គឺអ្វីមែន: 7 ចំណាំ

Tiger

Panthera tigris

Lion

Panthera leo

Polar bear

Ursus maritimus

Black bear

Ursus americanus

Twig snake

Thelotornis

Dolphin

disambiguation

Tiger

Panthera tigris

Lion

Panthera leo

Polar bear

Ursus maritimus

Black bear

Ursus americanus

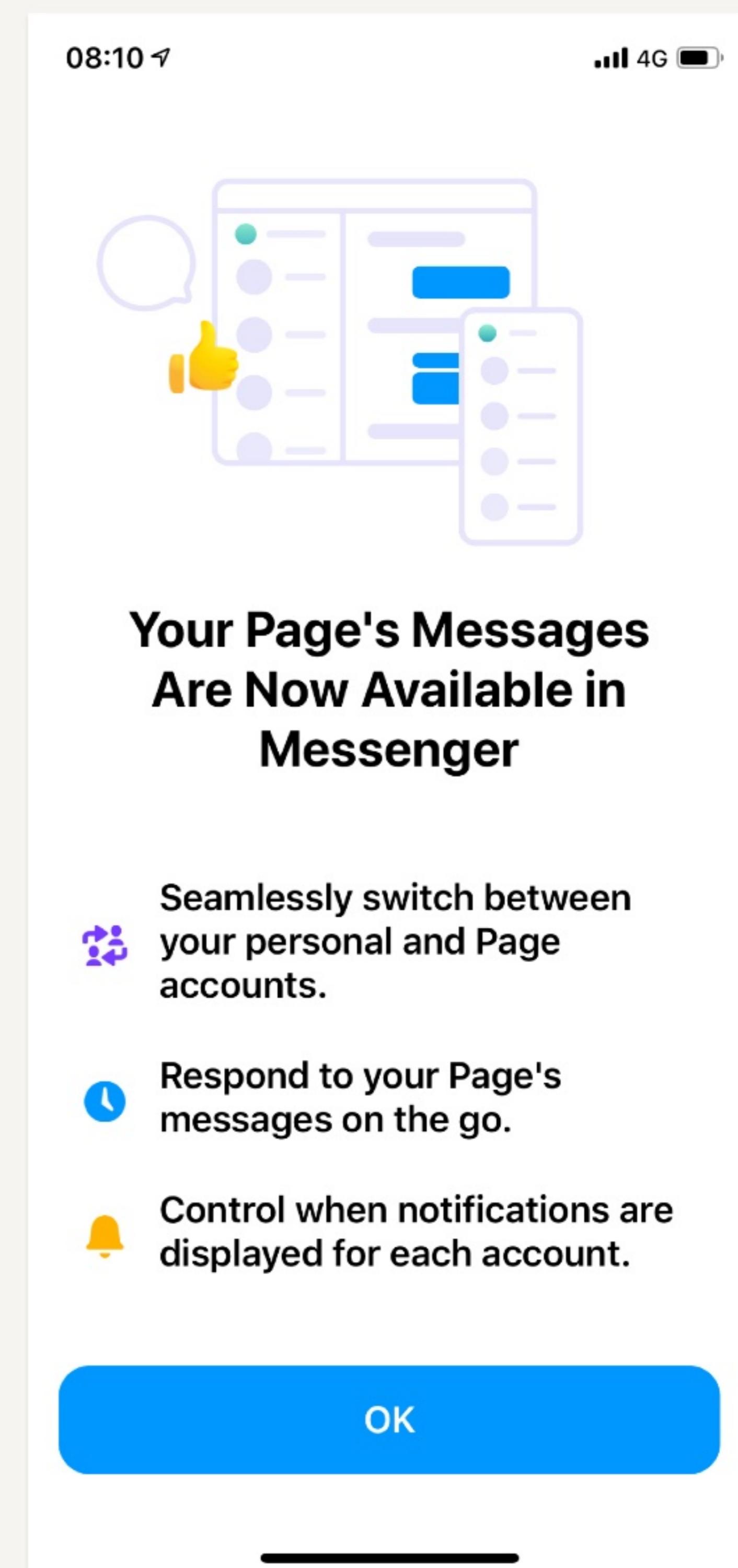
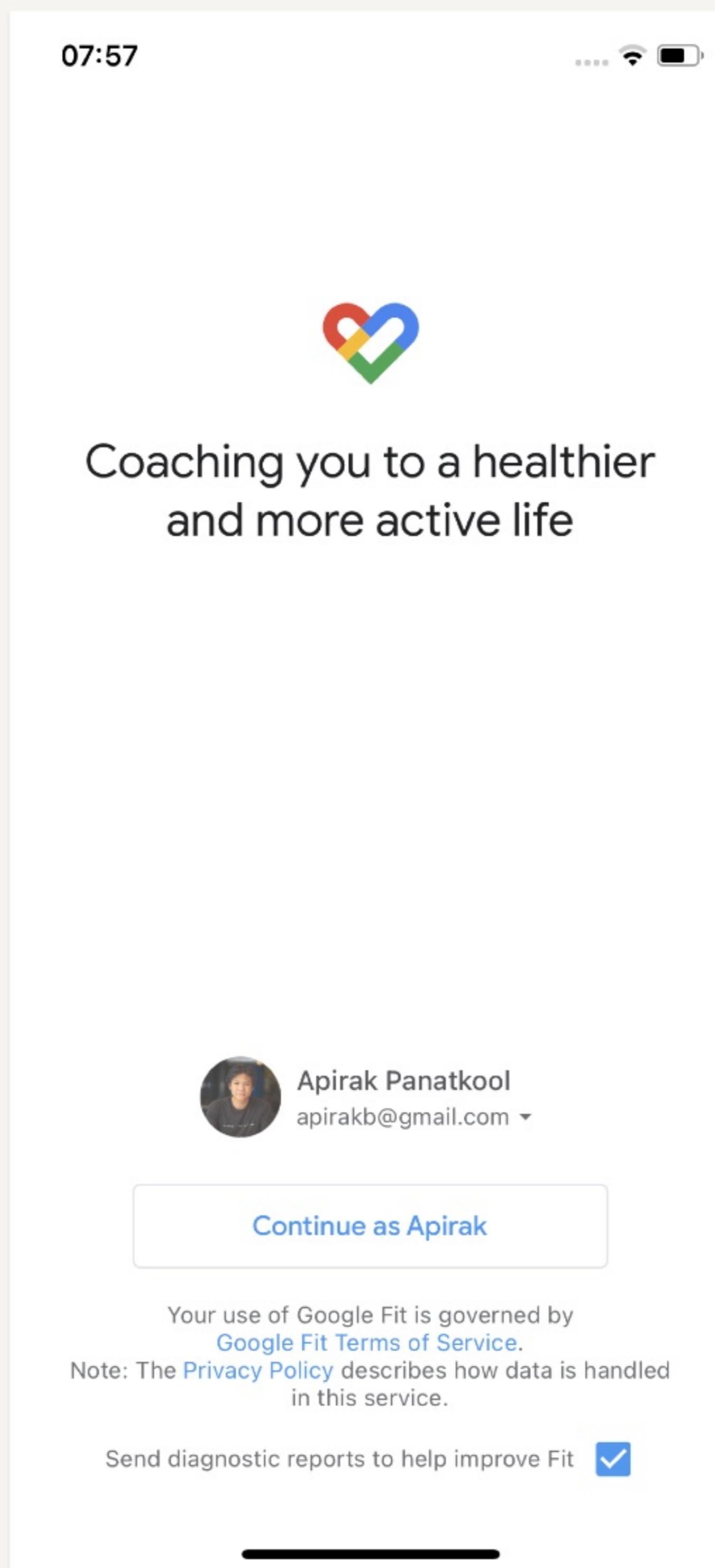
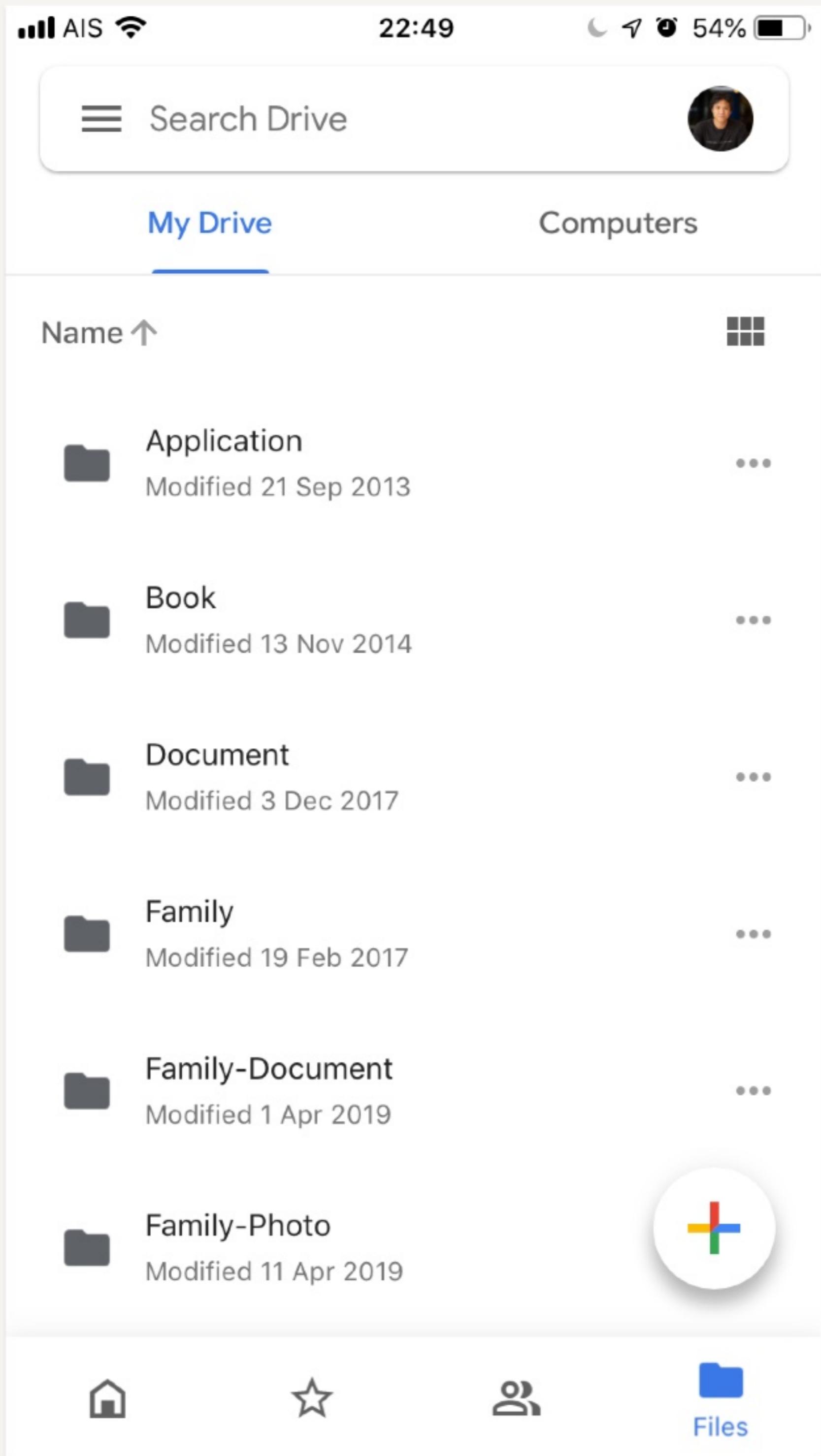
Twig snake

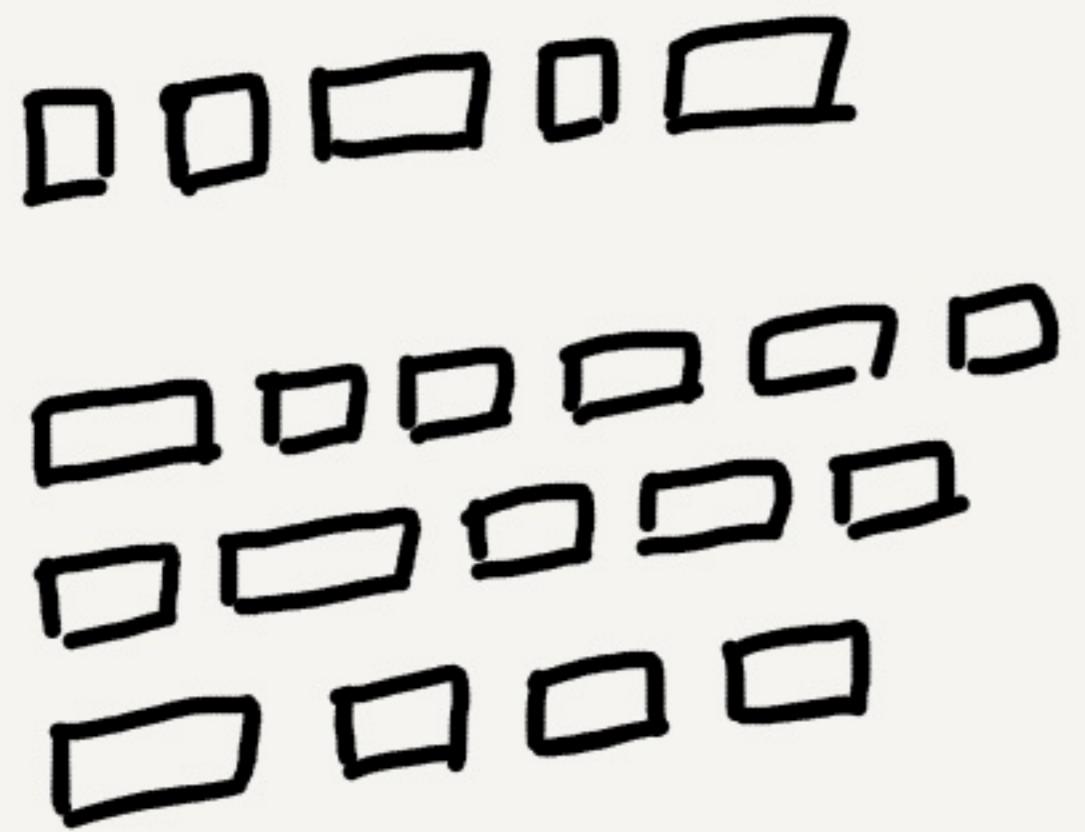
Thelotornis

Dolphin

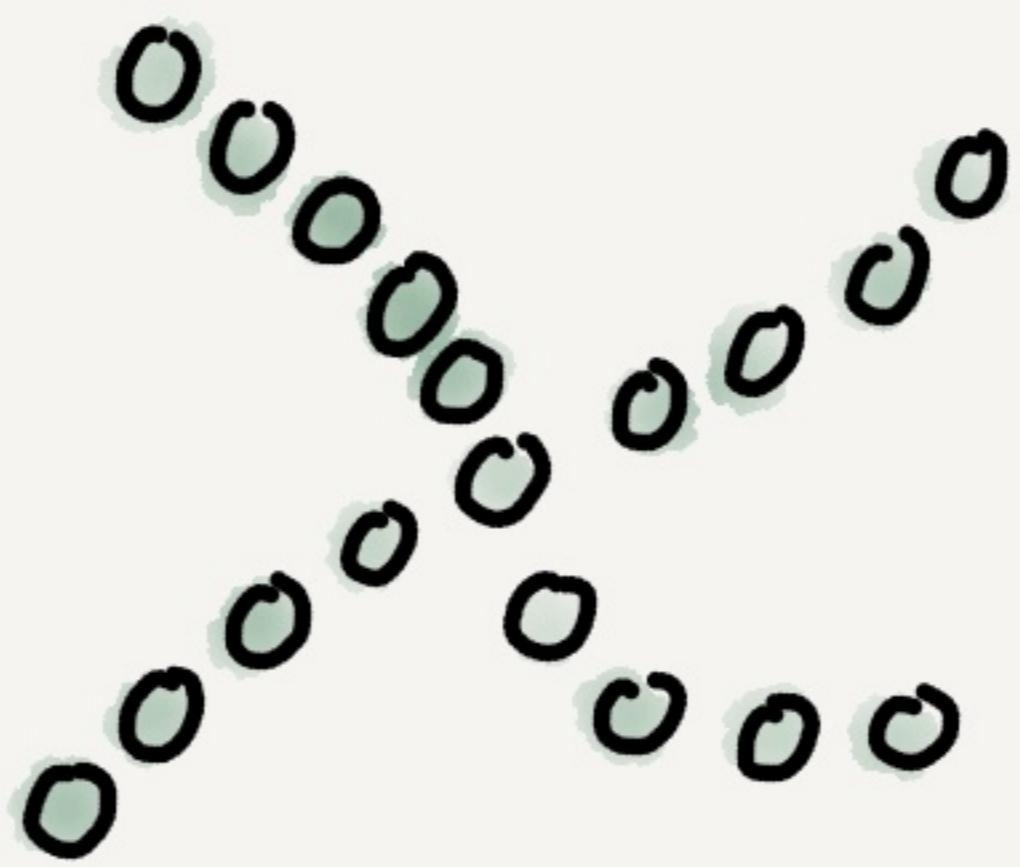
disambiguation

Proximity

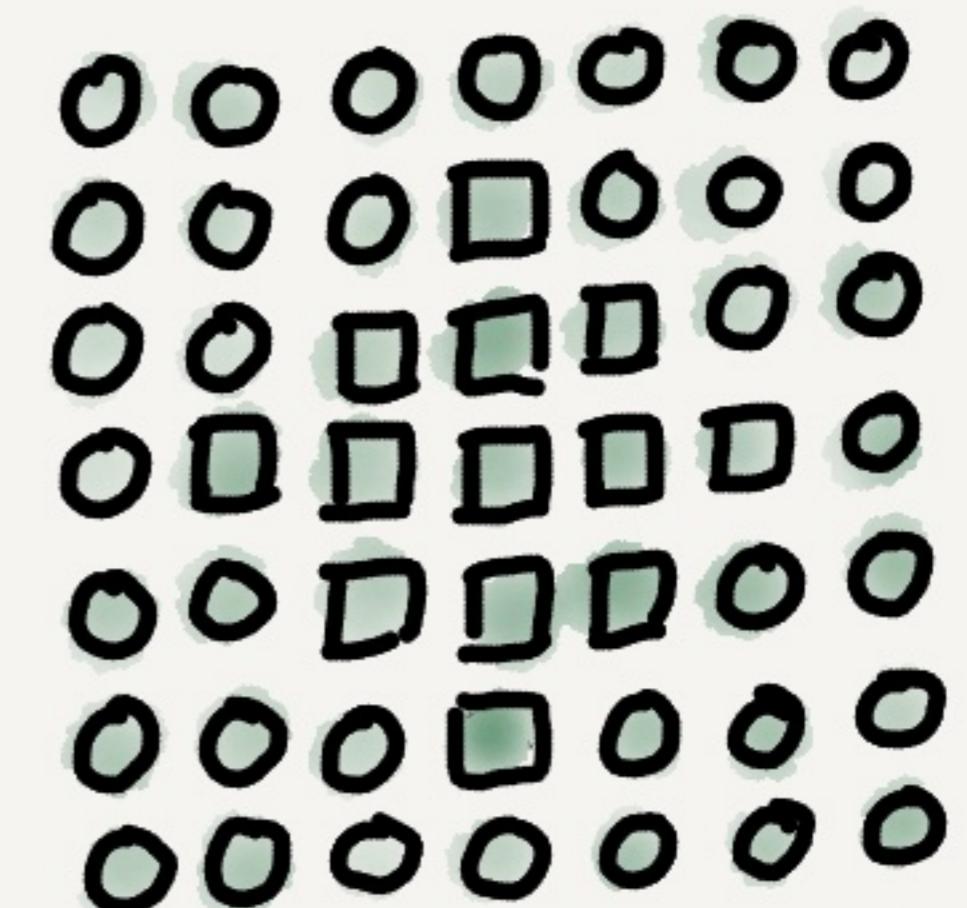




Proximity



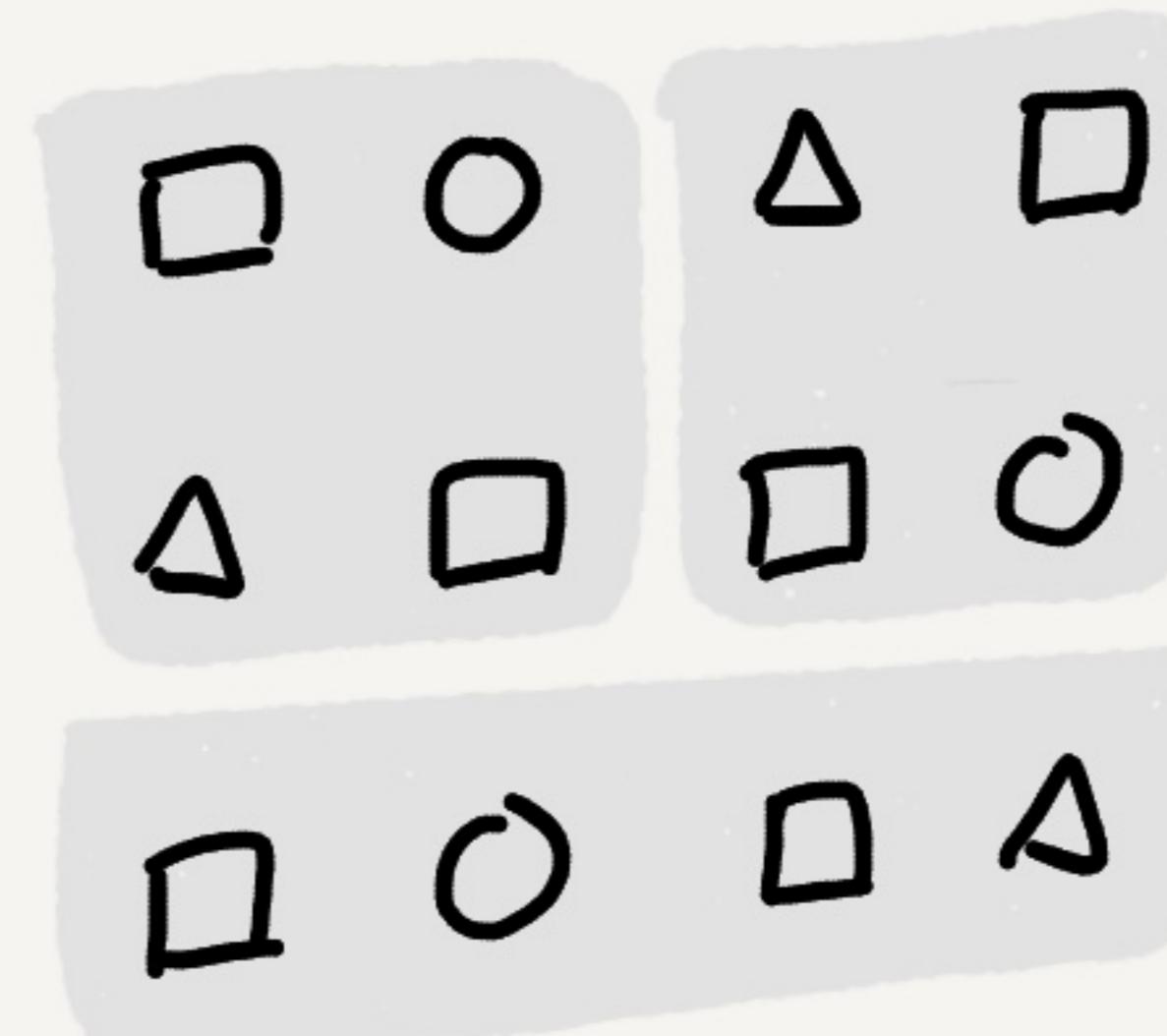
Continuity



Similarity



Closure



Common
Region

② Continuity ③ Similarity

The screenshot shows the 'Motion' section of the Apple Human Interface Guidelines. The page title is 'Motion - Foundations - Human'. The main navigation bar includes 'Overview' (underlined with a red arrow), 'What's new', 'Guidelines', 'Design Awards', 'Videos', and 'Resources'. The left sidebar lists categories like Platforms, Foundations, Motion, Patterns, Components, Inputs, and Technologies. The 'Motion' category is circled with a red '③' and has a curly brace grouping it with the 'Foundations' category. A red arrow points down from this group to the sidebar. Another red arrow points down from the 'Motion' category to the 'watchOS' section. The 'watchOS' section header is bolded. Below it is a 'NOTE' box: 'SwiftUI provides a powerful and streamlined way to add motion to your app. If you need to use WatchKit to animate layout and appearance changes — or create animated image sequences — follow these guidelines.' The 'watchOS' section also contains a list of animatable UI element attributes and information about creating animated image sequences.

Platform considerations

No additional considerations for iOS, iPadOS, macOS, or tvOS.

watchOS

SwiftUI provides a powerful and streamlined way to add motion to your app. If you need to use WatchKit to animate layout and appearance changes — or create animated image sequences — follow these guidelines.

NOTE

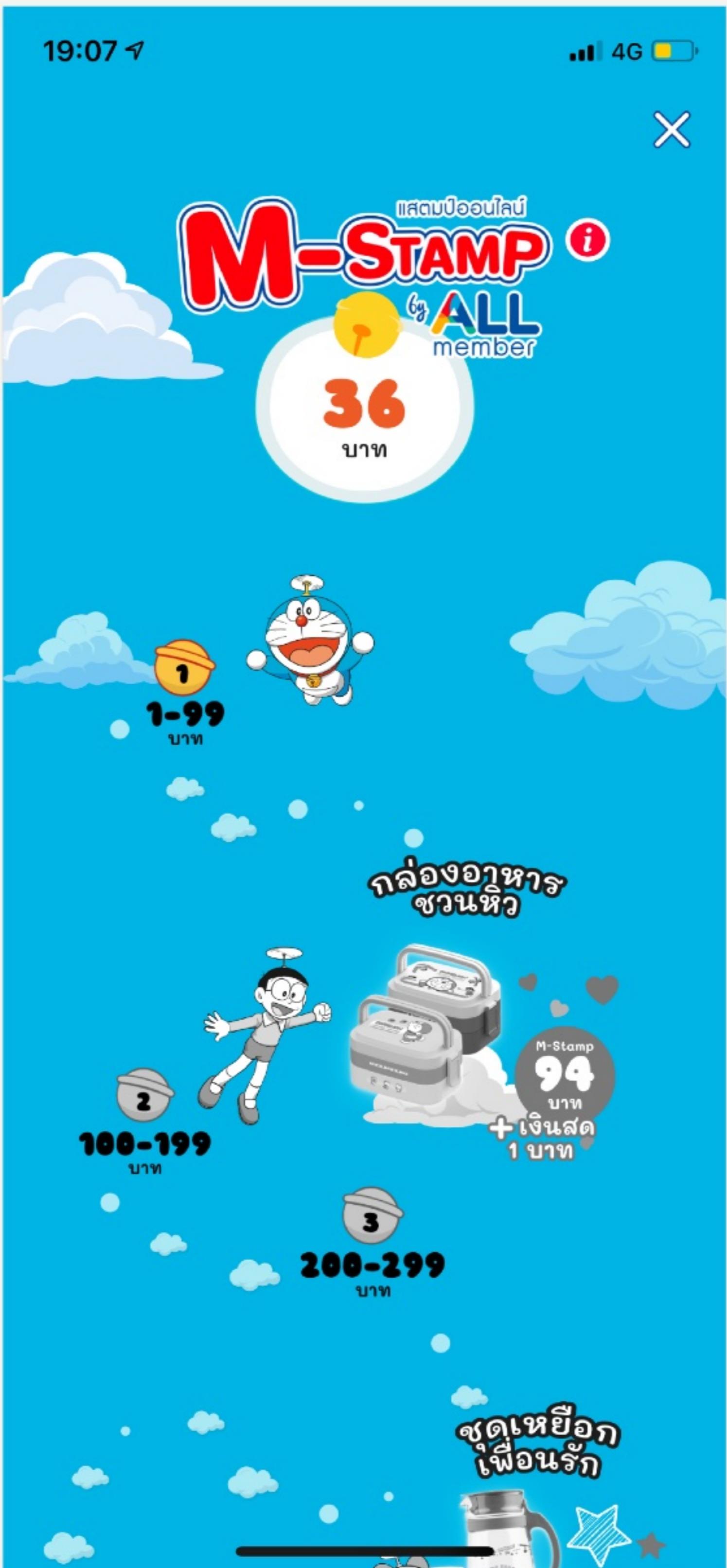
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នៅក្នុងគម្រោះទាំង content ត្រូវរាយការណ៍ 7 ចំណាំ



Continuity

21:54

NAPLAB

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OVERVIEW REVIEWS PHOTOS

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Mr.Grill Yakinik... 1.8 km 4.1 ★ 38 reviews

Yoi Tenki ศาลา... 900 m 4.3 ★ 40 reviews

4.1 ★

#ห้ามพลาด

อร่อยเข้าซึม สายกินห้ามพลาด

Greyhound Cafe. T... ขนมปัง Dinner Roll กลับมา ส่งรอยยิ้มน่ารัก ๆ อันขอ...

Aantarm C...

Home For You Delivery Cooking Saved Me

Continuity + Similarity

23:10

8/66 Soi Sala Thammasop 32
Khwaeng Sala Thammasop, Bangkok

Search for shops & restaurants

Food delivery
Order food you love

Groceries & more
Get your essentials

Pick-up
Up to 70% off

Top restaurants near you

KFC
47% off +
code 30%

McDonald's
50% off + ₧80

Your daily deals

foodpanda Triple Lucky Draw

23:10

8/66 Soi Sala Thammasop 32
Khwaeng Sala Thammasop, Bangkok

Search for shops & restaurants

Food delivery
Order food you love

Groceries
Get your essentials

Pick-up
Up to 70% off

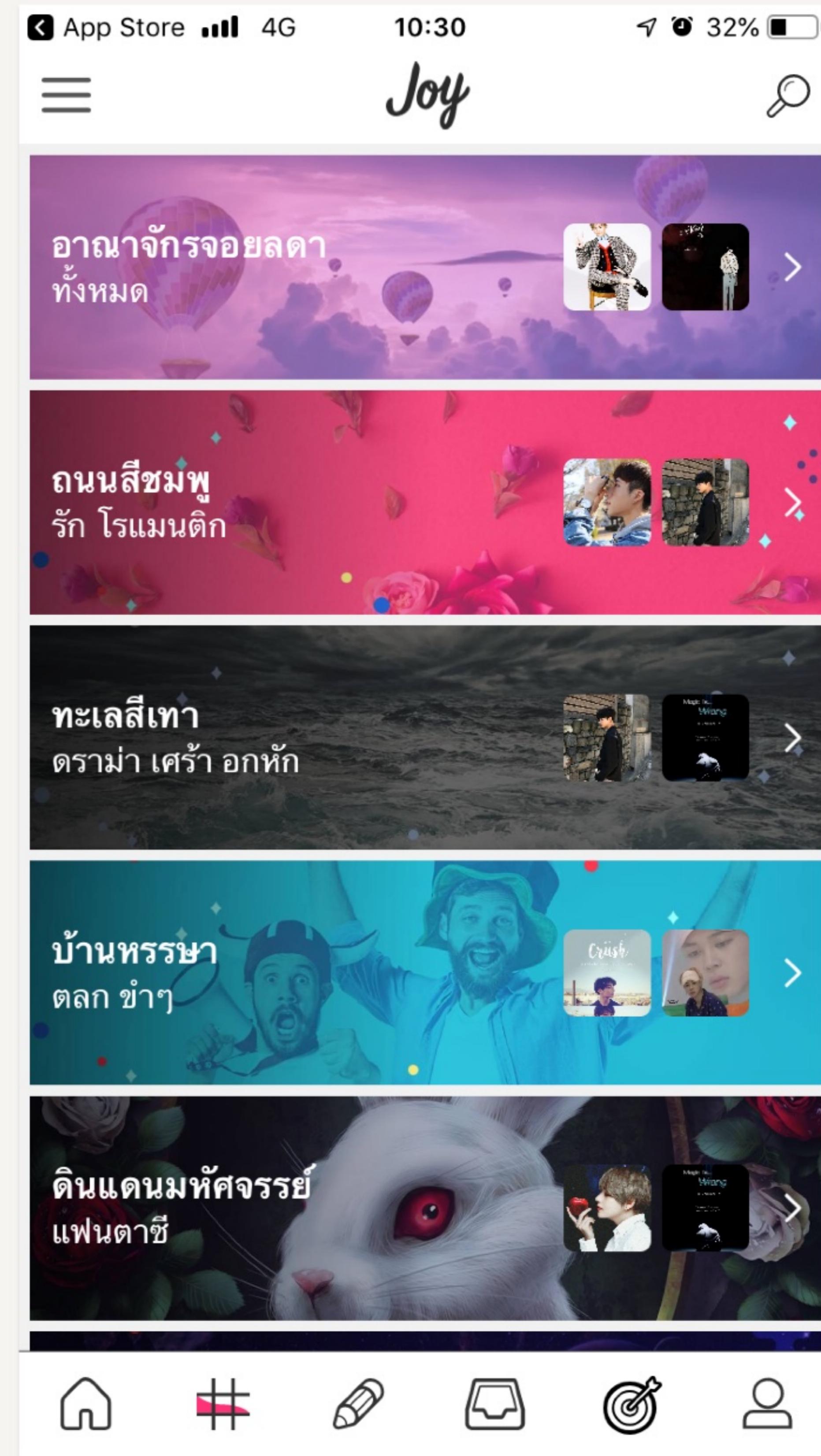
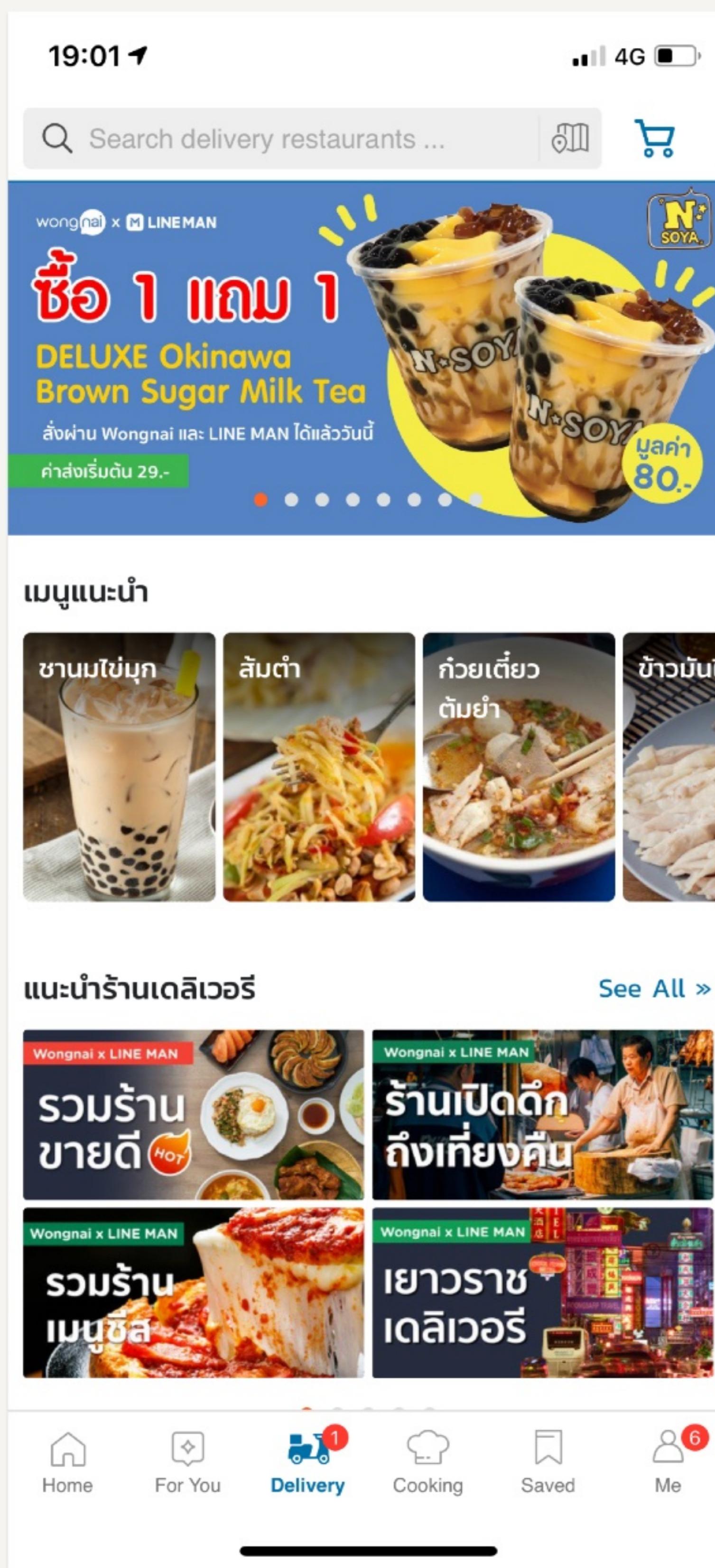
Top restaurants near you

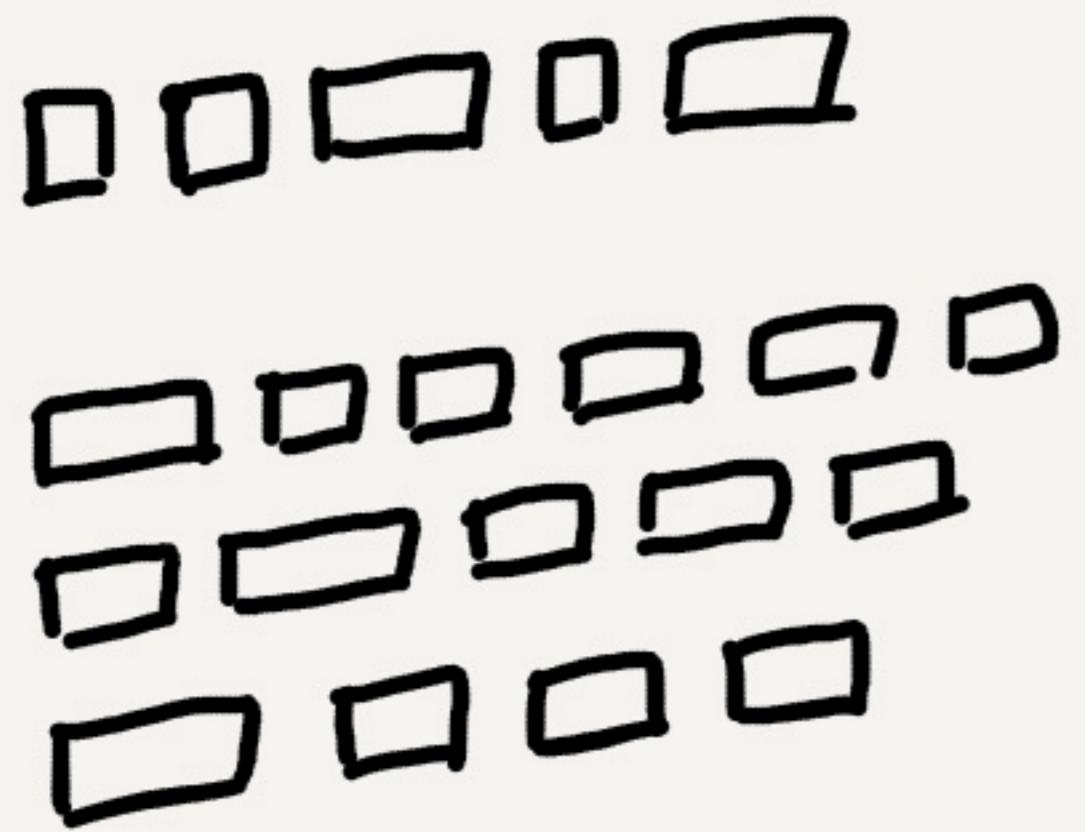
KFC
code 30%

McDonald's
50% off + ₧80

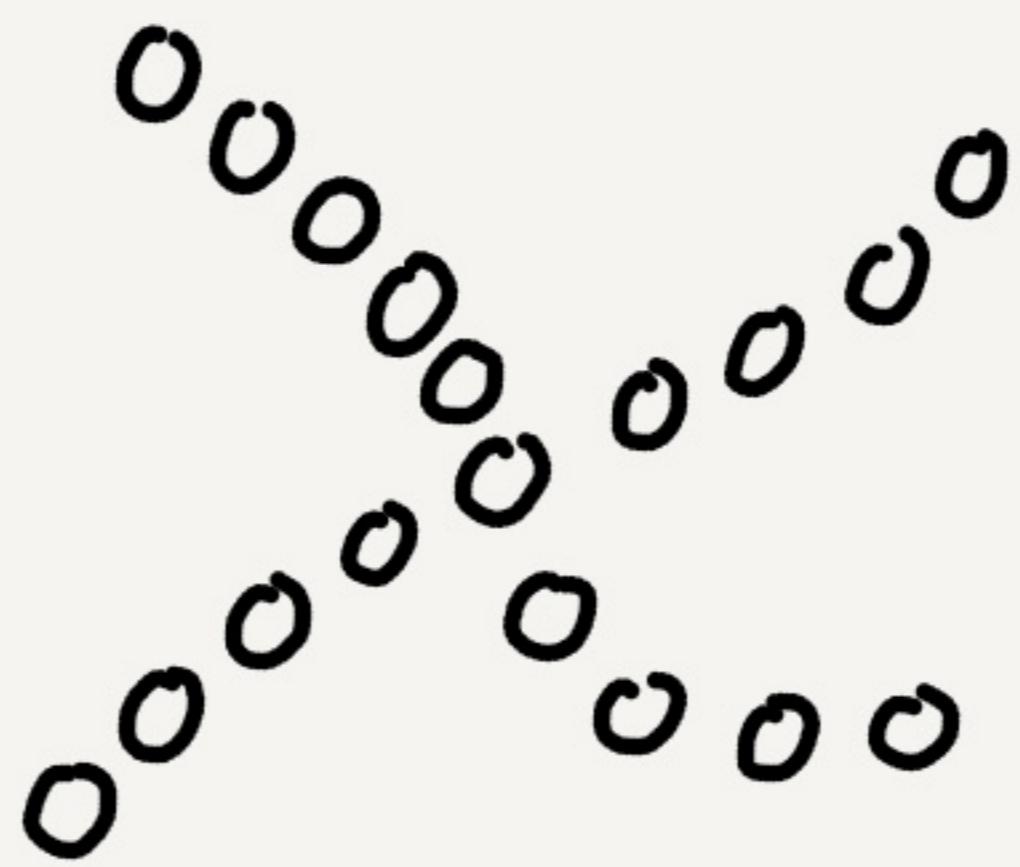
Your daily deals

foodpanda Triple Lucky Draw

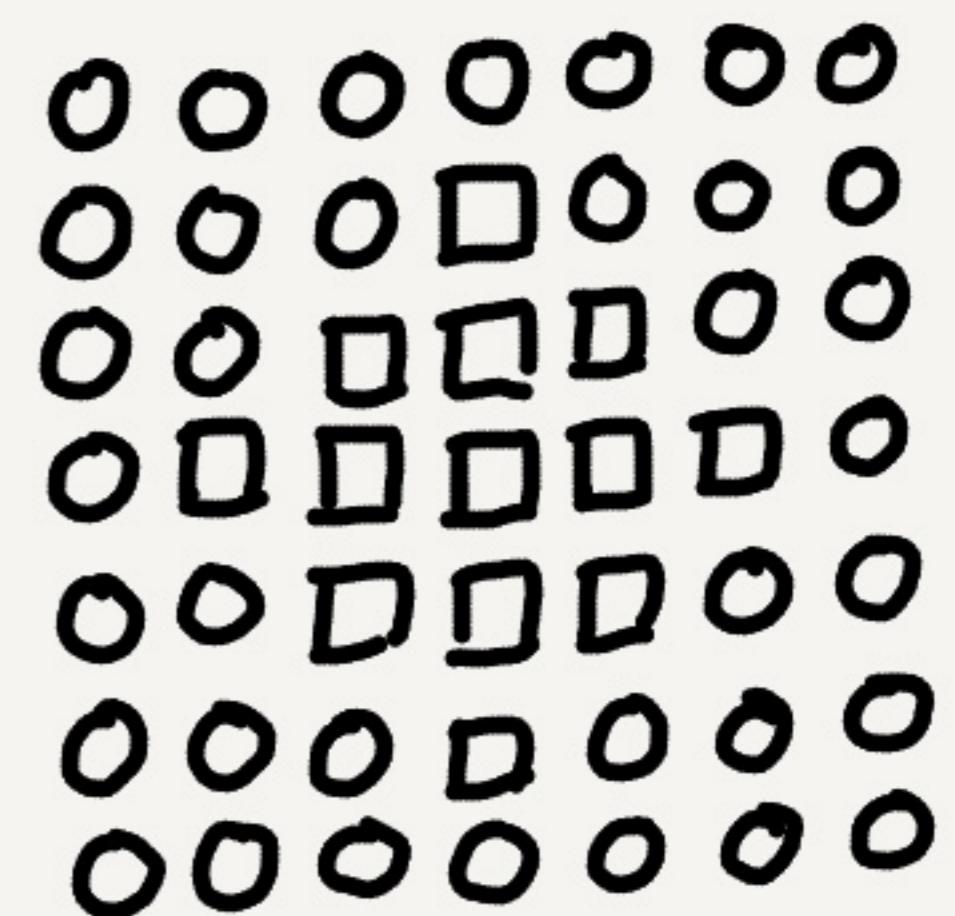




Proximity



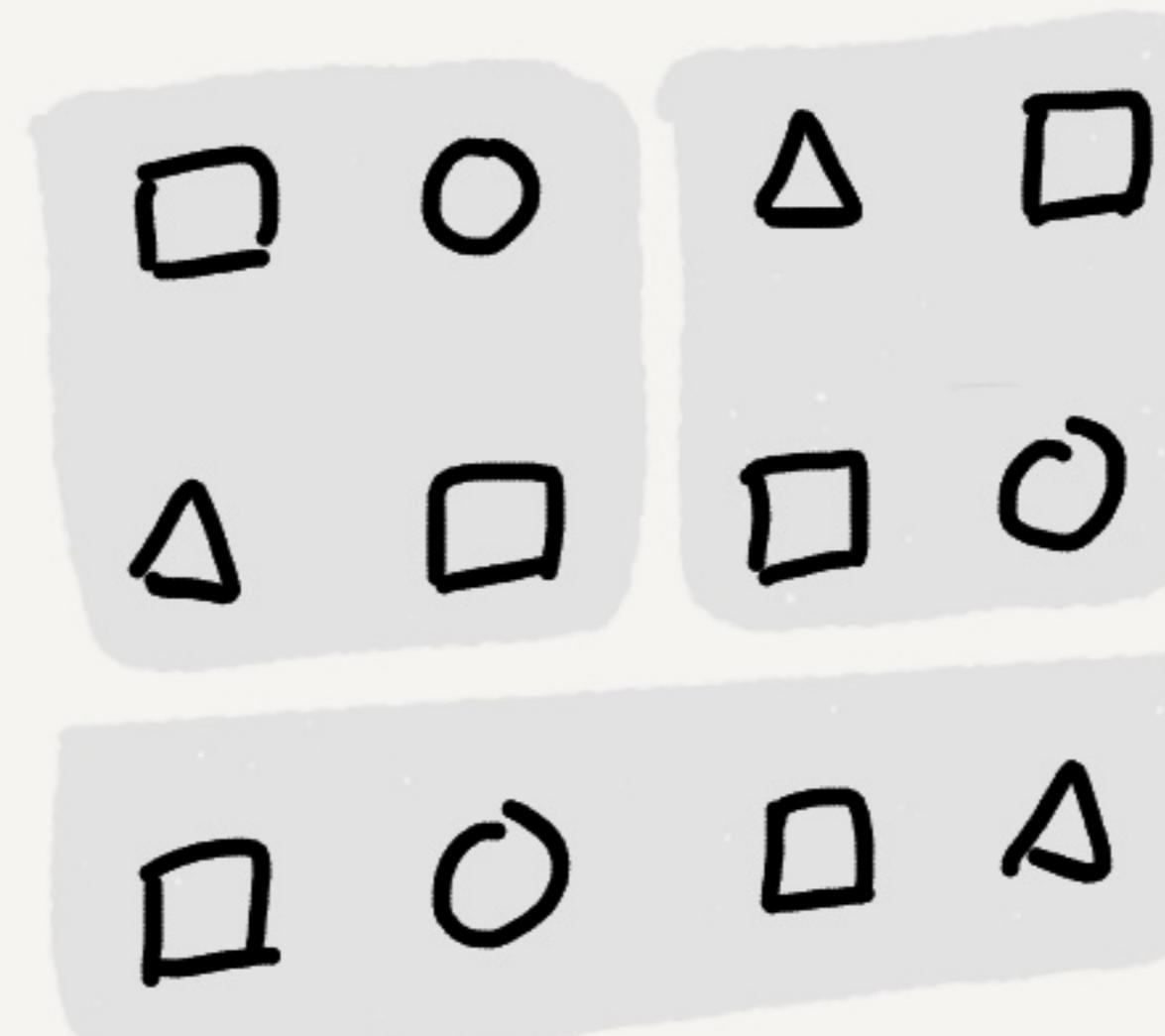
Continuity



Similarity



Closure



Common
Region

Find Closure

Motion - Foundations - Human

developer.apple.com/design/human-interface-guidelines/foundations/motion

Design Overview What's new Guidelines Design Awards Videos Resources

Platforms Foundations Motion

Overview Best practices

Accessibility Platform considerations

App icons Resources

Branding

Color

Dark Mode

Icons

Images

Inclusion

Layout

Materials

Motion

Right to left

SF Symbols

Typography

Patterns

Components

Inputs

Technologies

Platform considerations

No additional considerations for iOS, iPadOS, macOS, or tvOS.

watchOS

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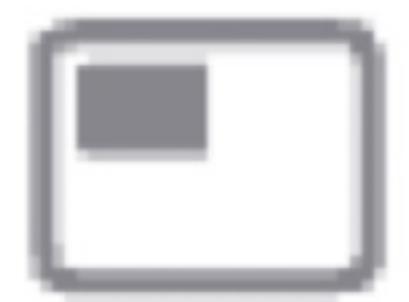


Images

④ closure



Inclusion



Layout



Materials



Motion



Right to left



Inclu



av

50 tools



Images

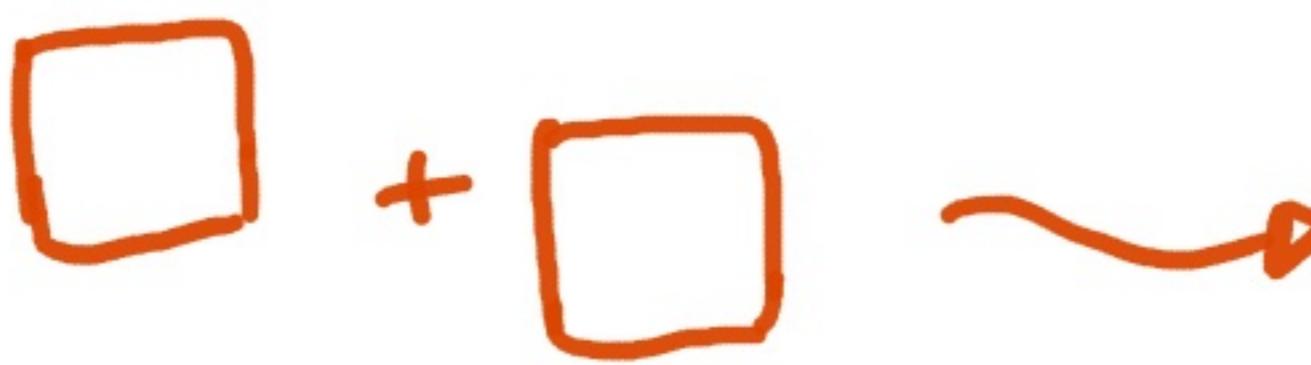
④ closure



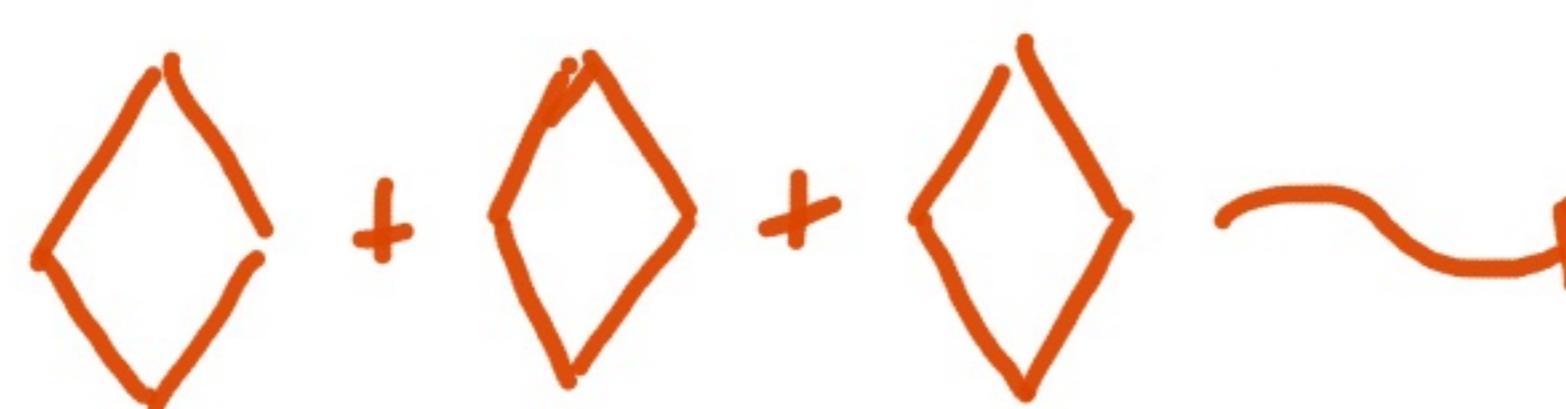
Inclusion



Layout



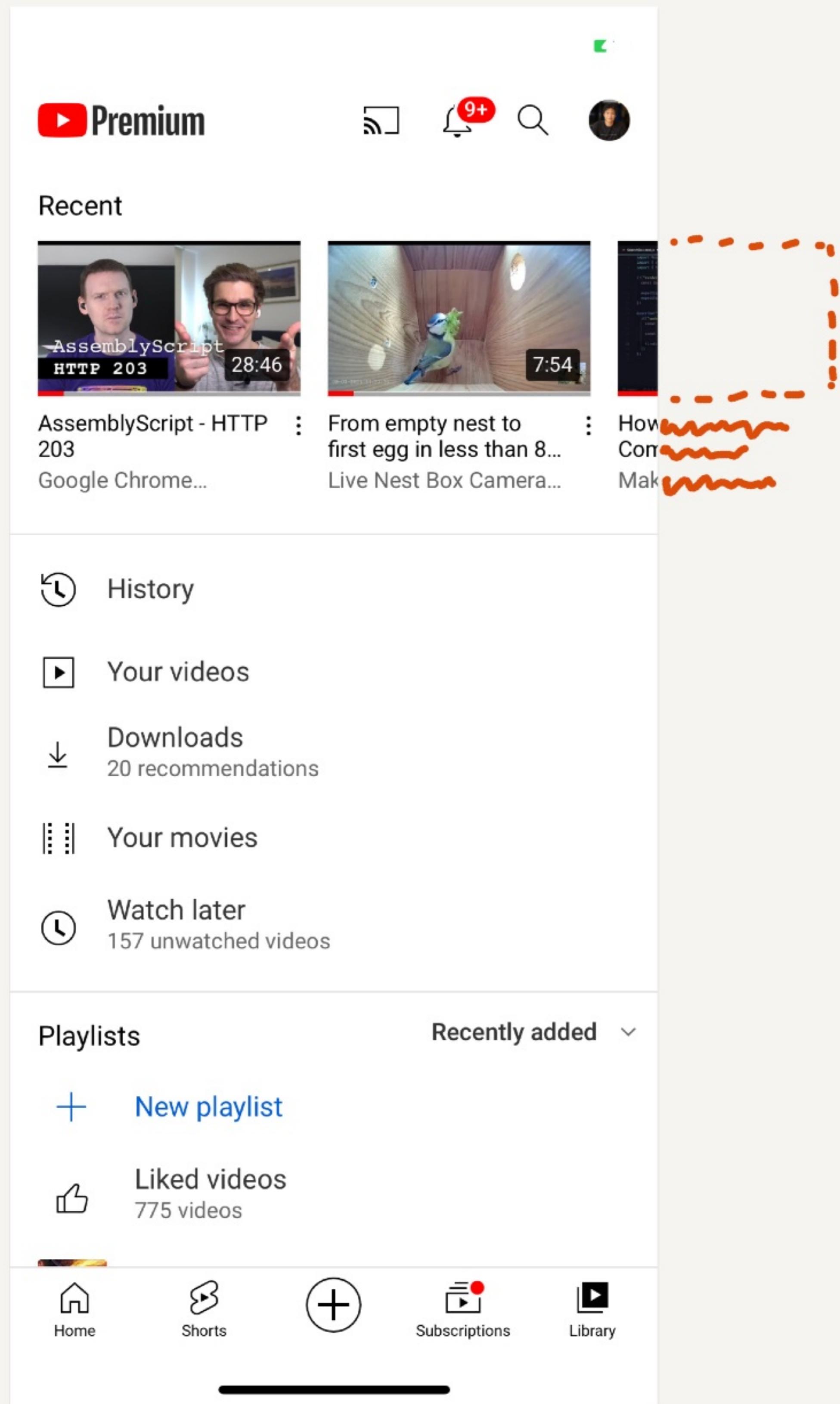
Materials

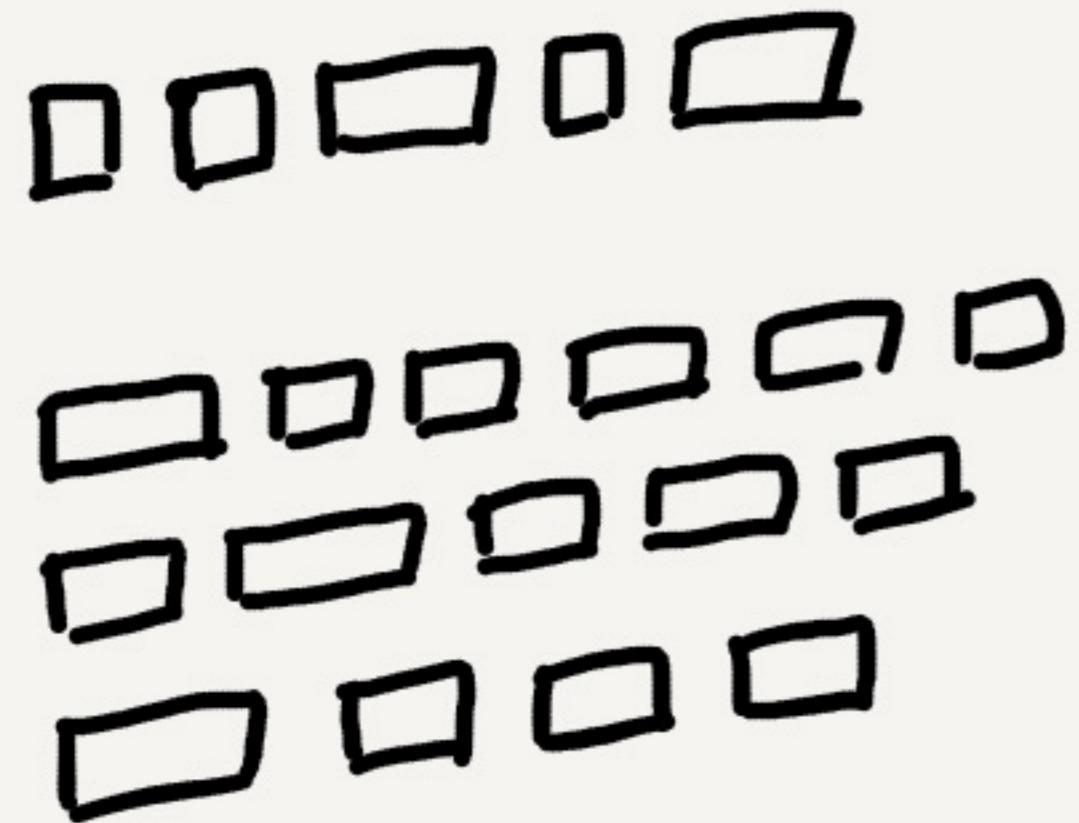


Motion

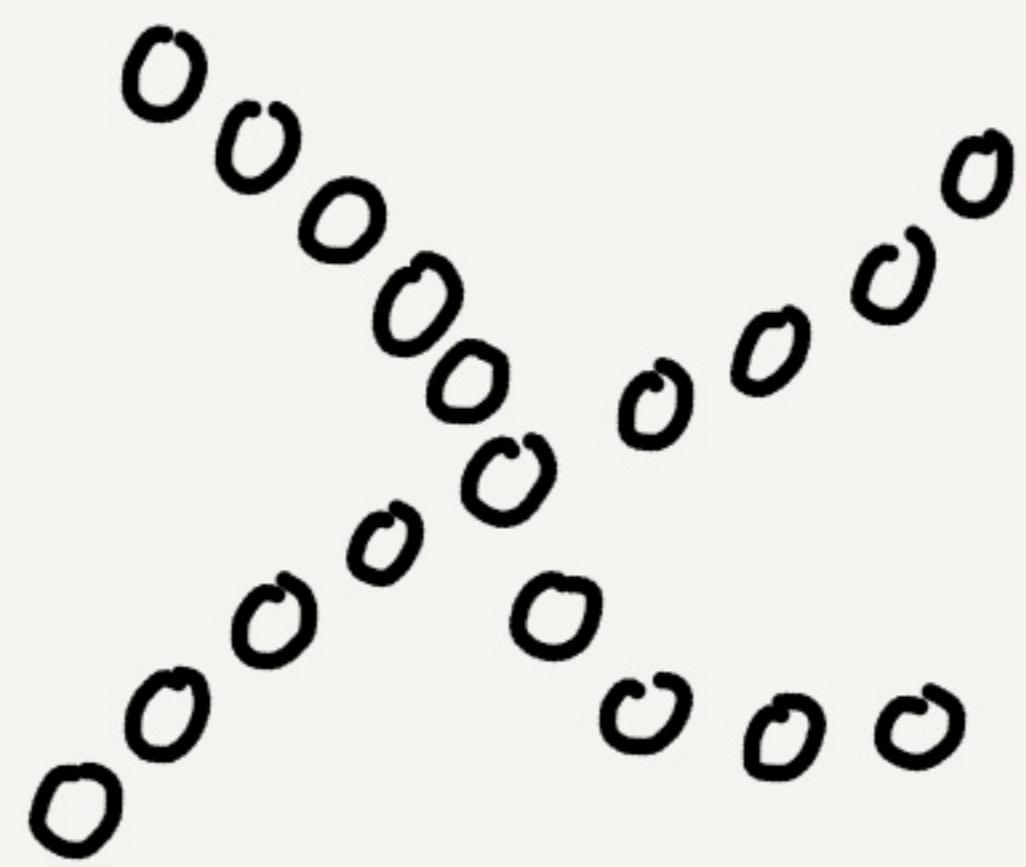


Right to left

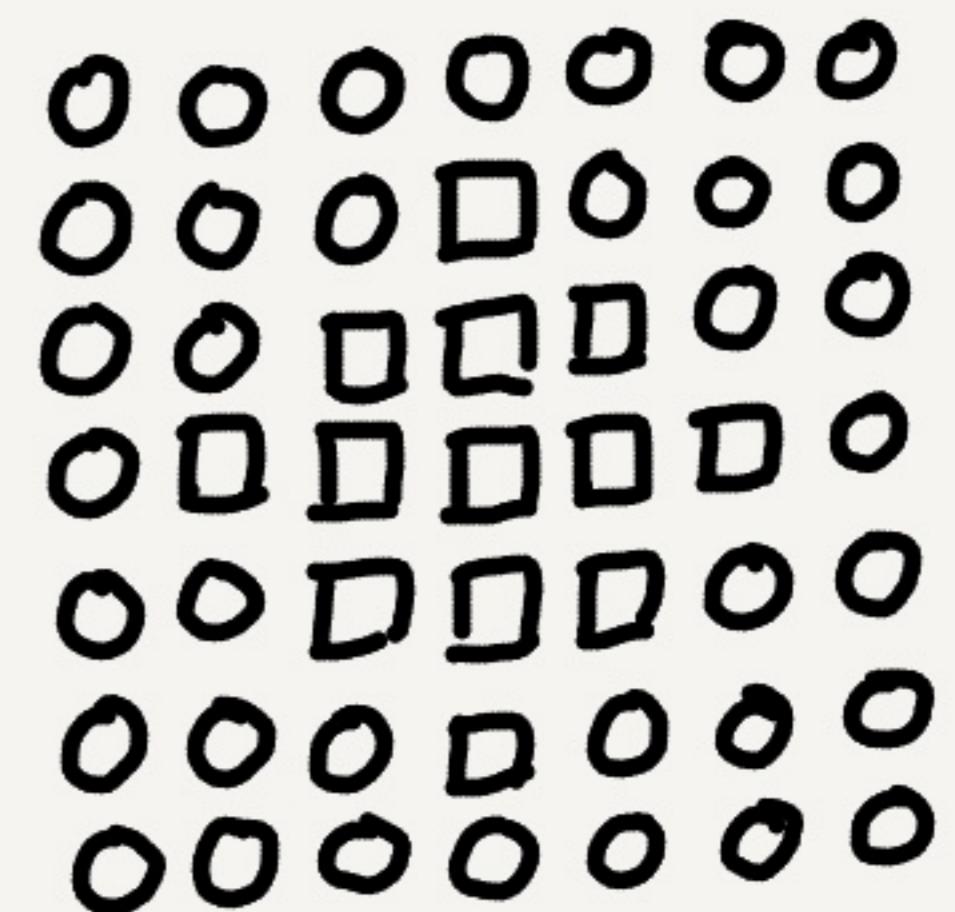




Proximity



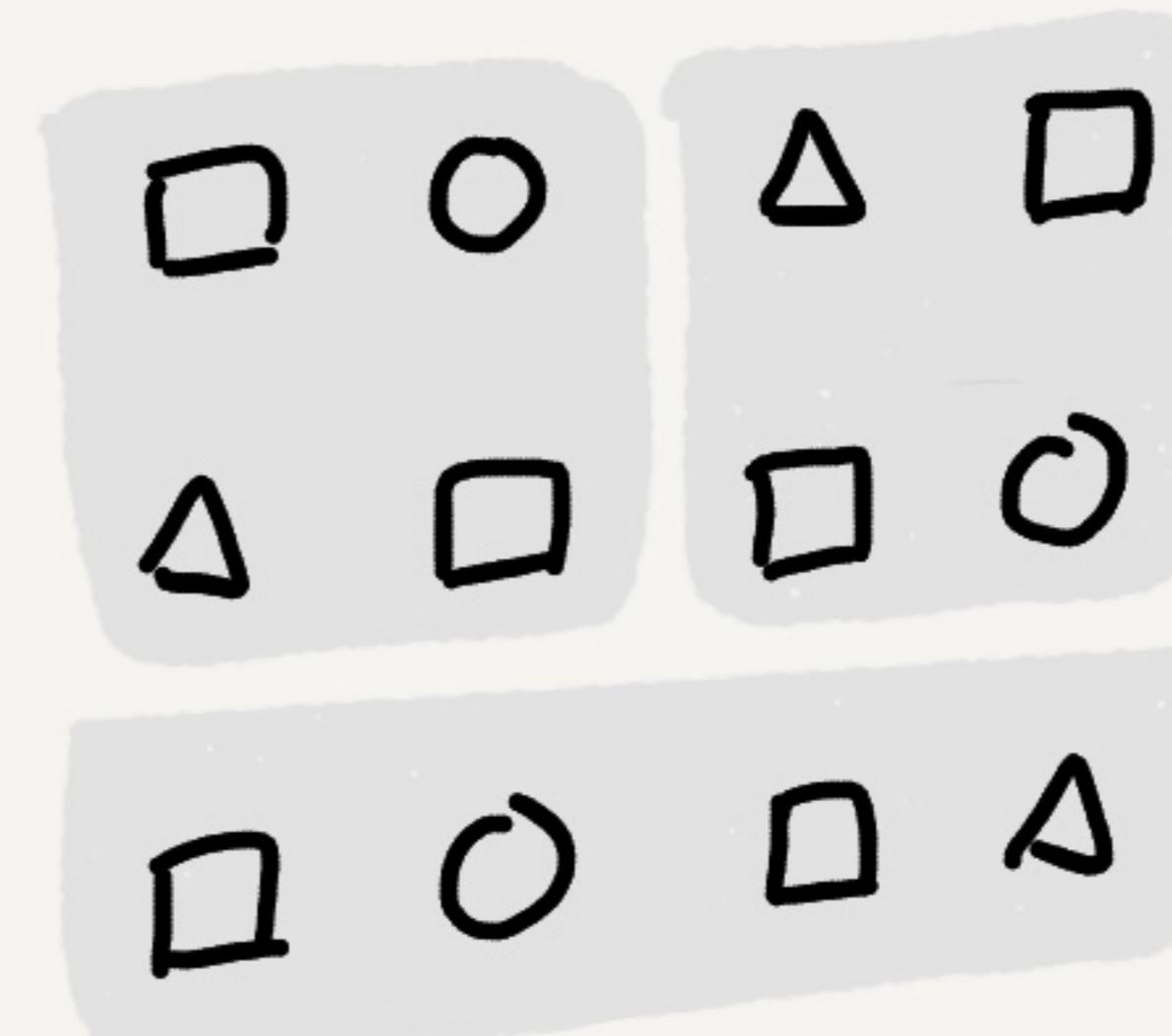
Continuity



Similarity



Closure



Common
Region

⑤ common Region

The screenshot shows a web browser window displaying the Apple Human Interface Guidelines for Motion. The URL in the address bar is developer.apple.com/design/human-interface-guidelines/foundations/motion. The page is titled "Design" and has a navigation bar with links to Overview, What's new, Guidelines, Design Awards, Videos, and Resources.

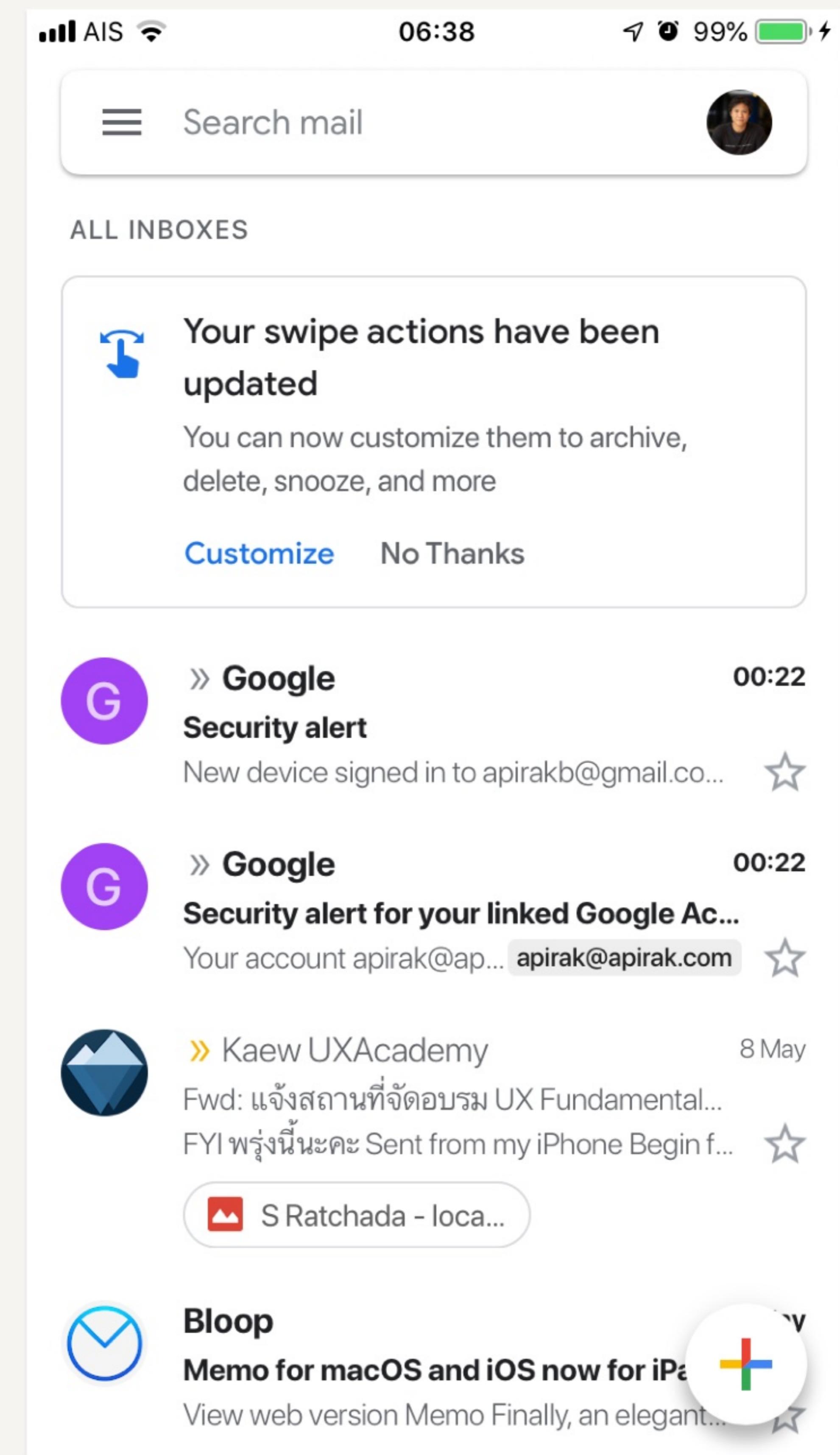
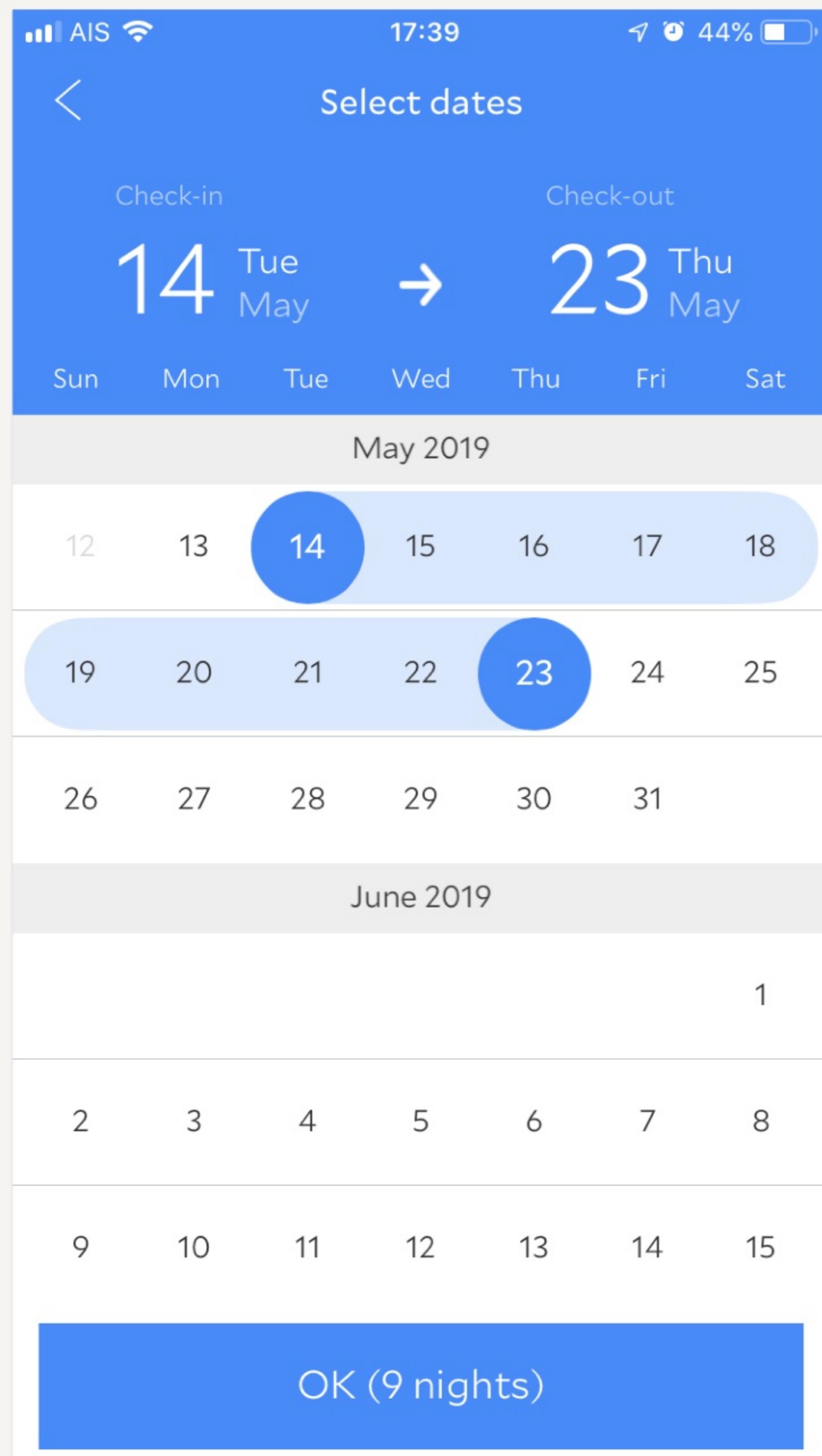
The main content area is titled "Platform considerations" and states: "No additional considerations for iOS, iPadOS, macOS, or tvOS." A sidebar on the left lists various design foundations, including Accessibility, App icons, Branding, Color, Dark Mode, Icons, Images, Inclusion, Layout, Materials, Motion (with sub-sections like Right to left, SF Symbols, and Typography), Patterns, Components, Inputs, and Technologies.

The "watchOS" section discusses how SwiftUI provides a powerful way to add motion to apps using WatchKit. It notes that WatchKit automatically includes built-in easing for layout and appearance changes. A "NOTE" box states: "All layout- and appearance-based animations automatically include built-in easing that plays at the start and end of the animation. You can't turn off or customize easing."

Under the "watchOS" section, it says: "Using WatchKit, you can animate changes to the following attributes of your app's UI elements:" followed by a bulleted list: Alignment, Background color, Group insets, Height, Opacity, Accent color, and Width.

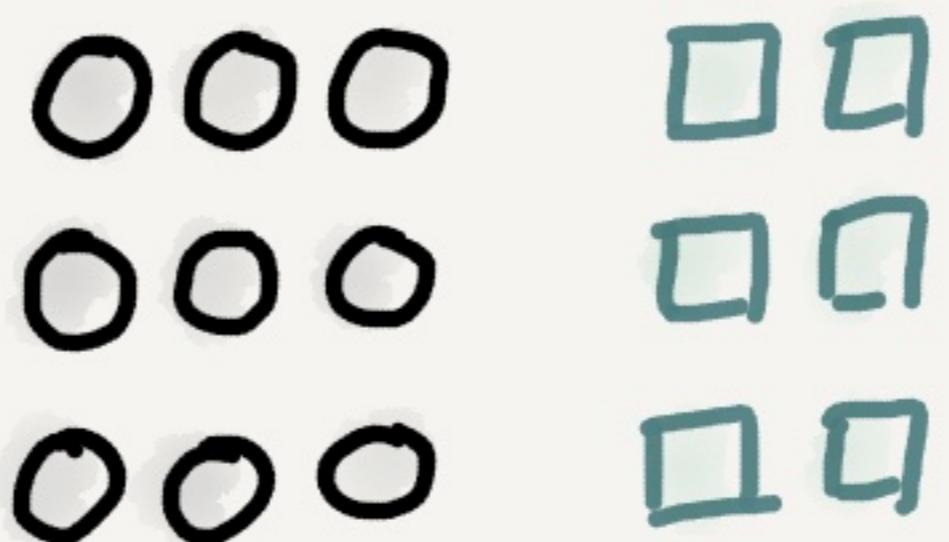
At the bottom, it mentions: "WatchKit also lets you create an animated image sequence, which consists of two or more individual images displayed sequentially over time. Each image in the sequence constitutes a single frame of the animation, and the whole animation runs in a loop unless you modify the playback behavior at"

On the right side of the page, there is a vertical sidebar with links: Motion, Best practices, Platform considerations, and Resources.

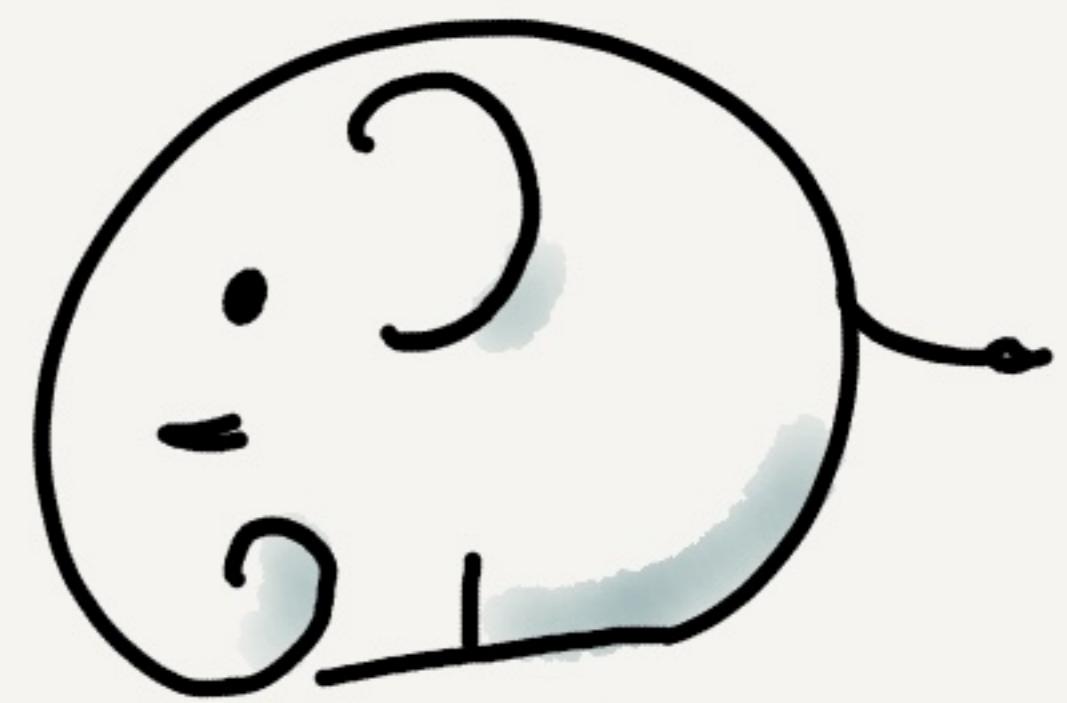




Hick's law



Gestalt law
of grouping

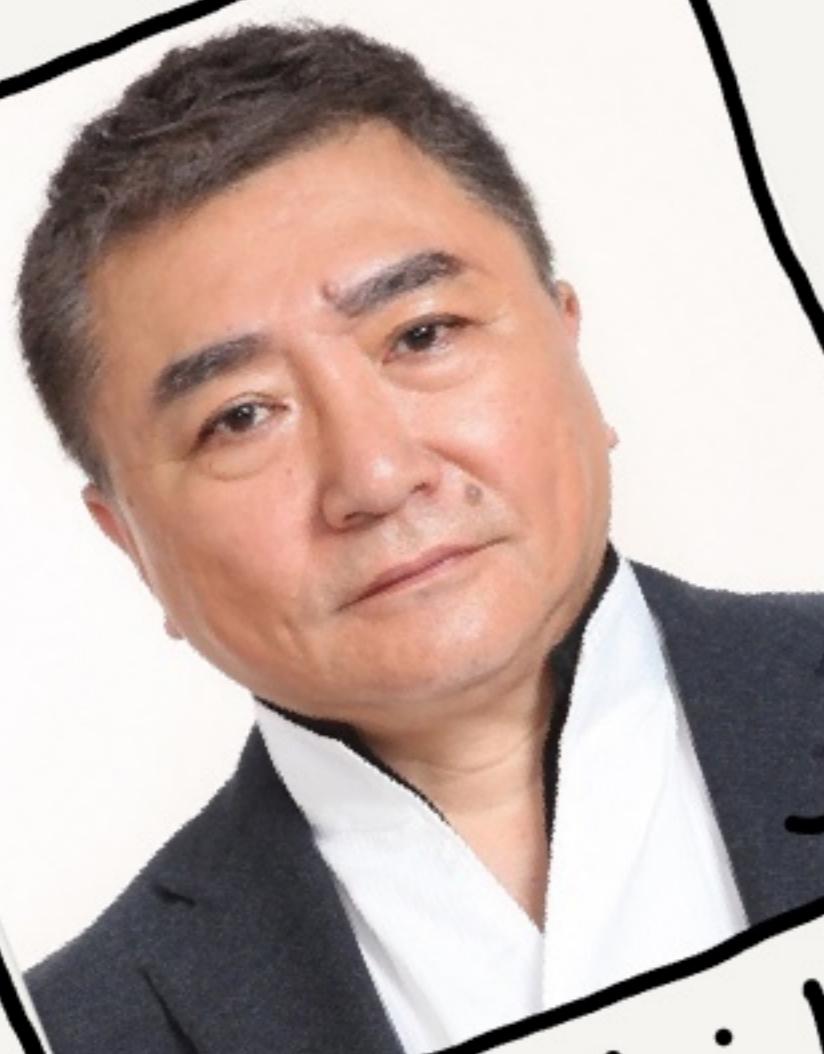


Aesthetic
usability
effect

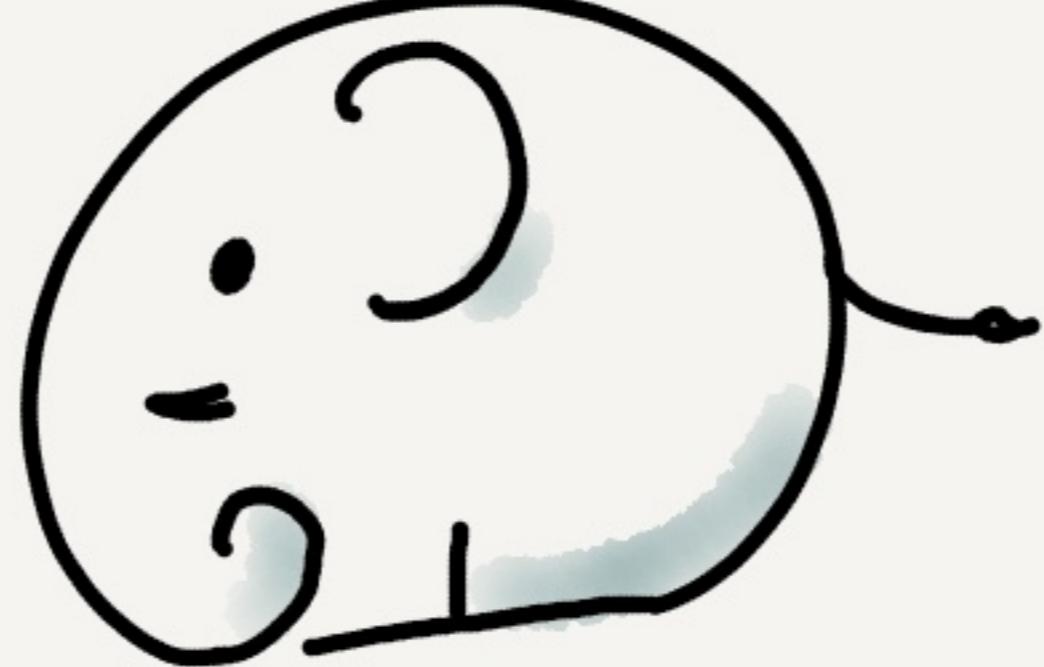
Kaori Kashimura

"ATM
Test"

Researcher from
Hitachi lab



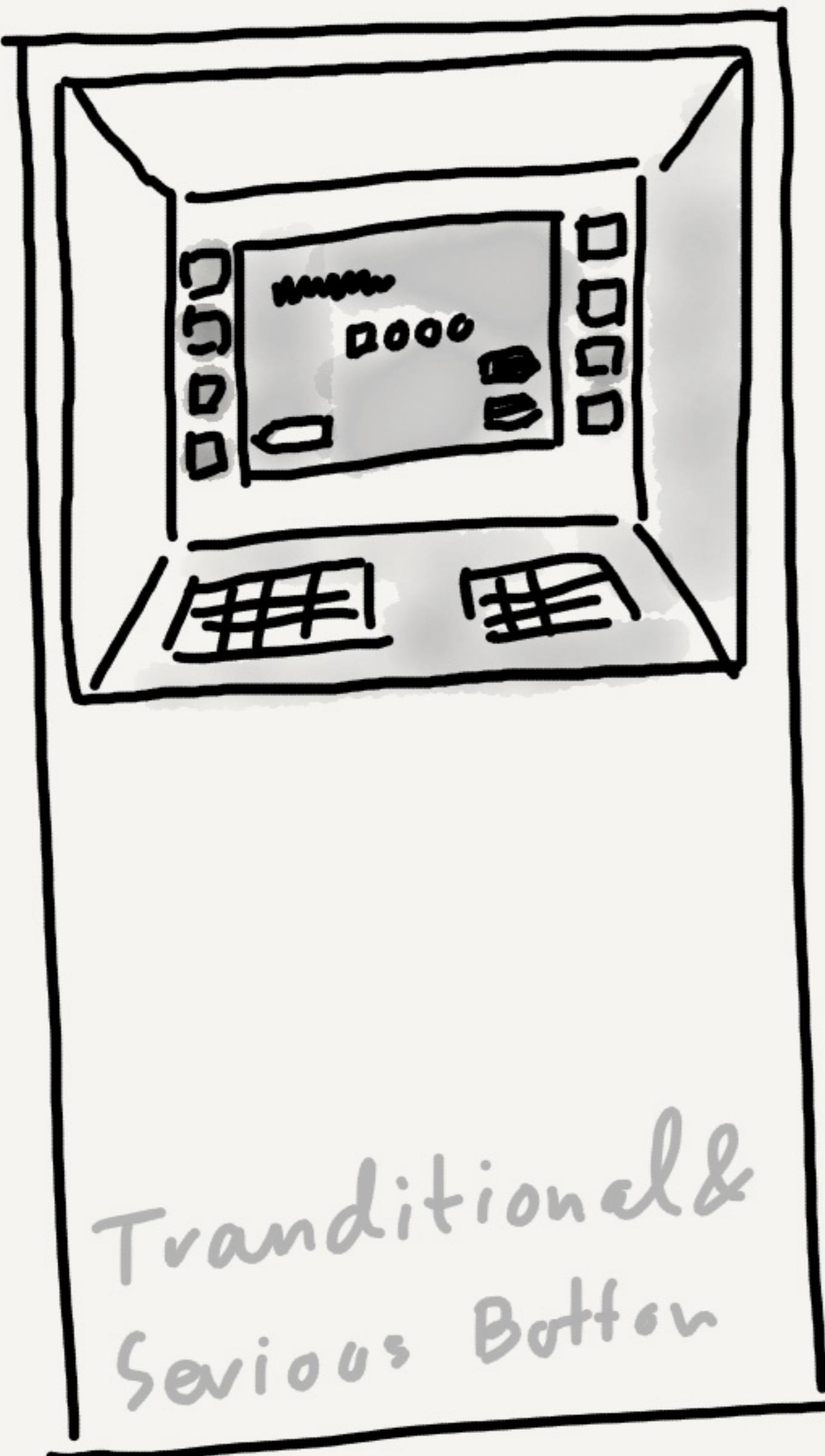
Masaaki Kurosu



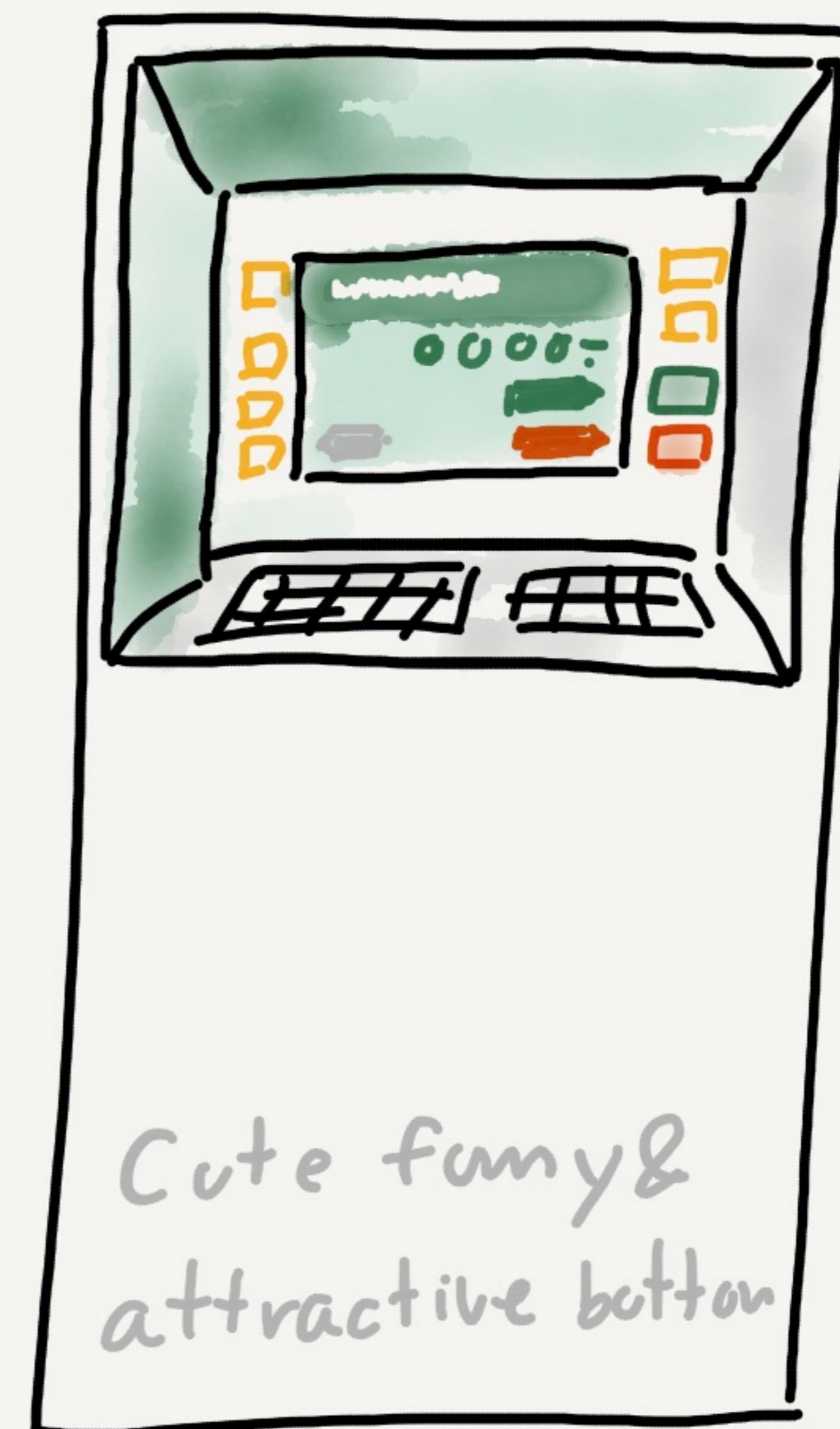
Aesthetic
usability
effect

People perceive more
Aesthetic design as
much more intuitive
than those considered
to be less aesthetically
pleasing

Do usable things, have to be
beautiful enough?



Traditional &
Serious Button

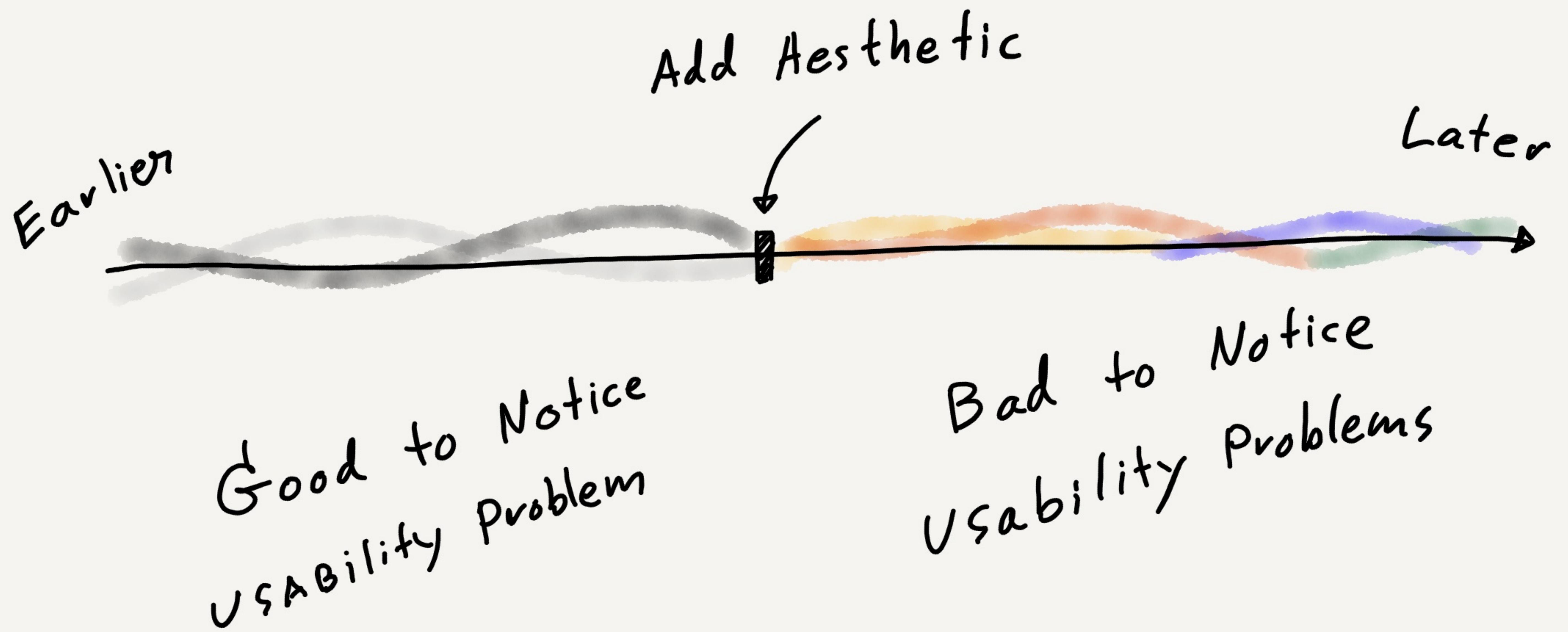


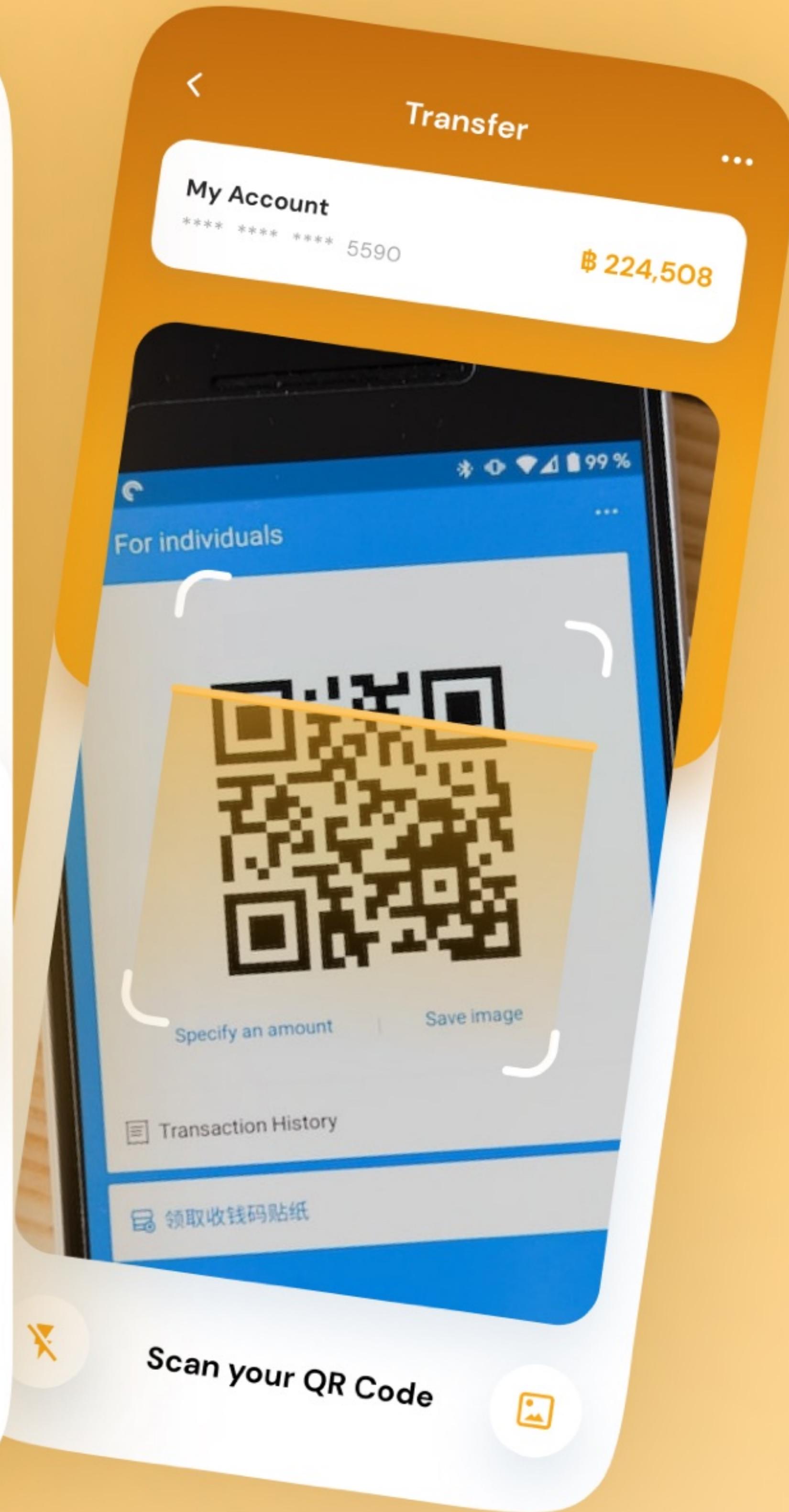
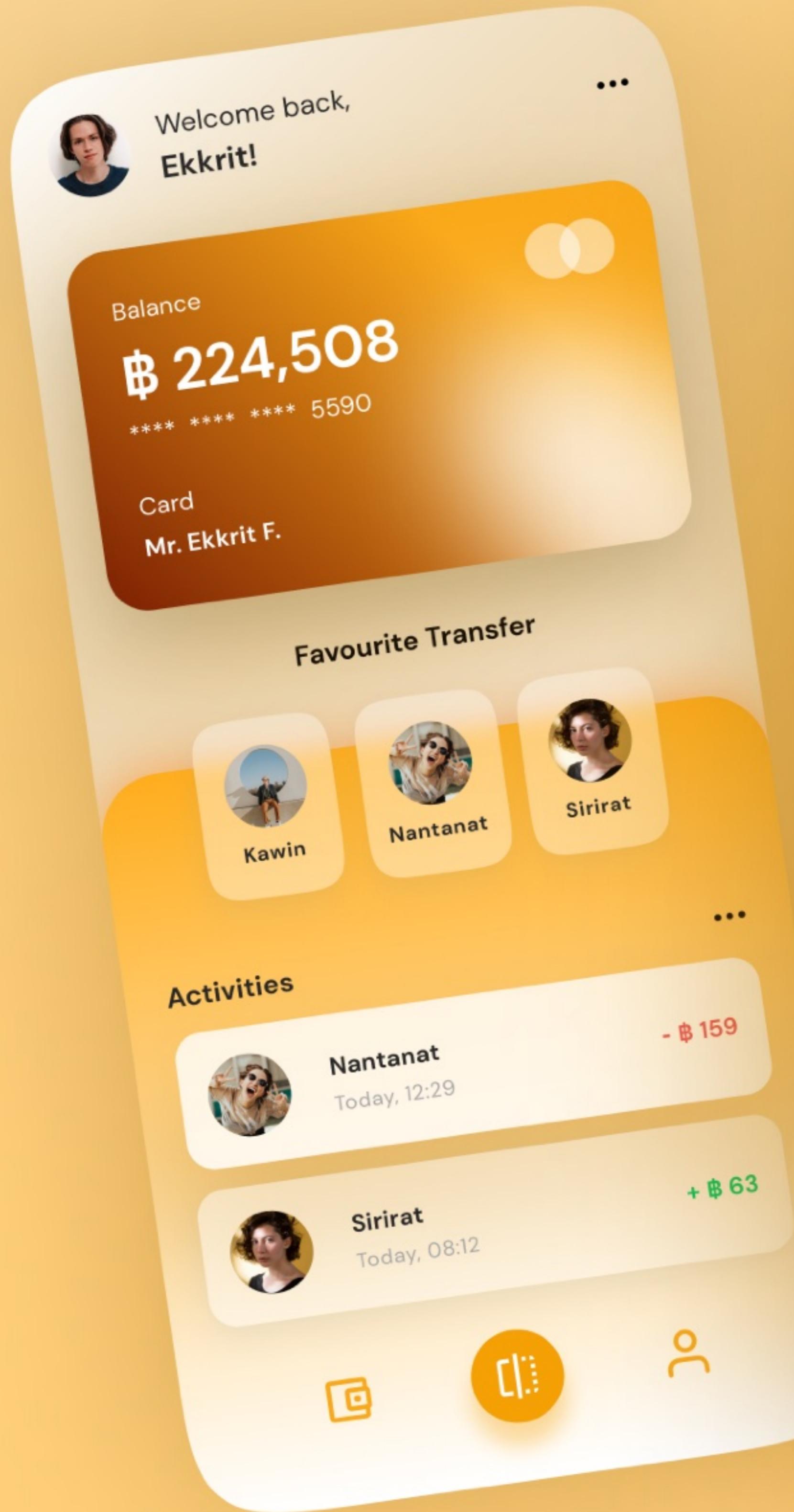
Cute funny &
attractive button

26 Variations of ATM



Aesthetics should be build upon Usability







Dashboard

Product

Business

Report

User Management

Total Revenue



฿ 3,897,230

Including tax

Monthly Revenue



฿ 226,380

1 Oct - 31 Oct

Total Active Course



249

Including free course

New Users



12,268

Gain 7% of total user

Revenue

Online Course

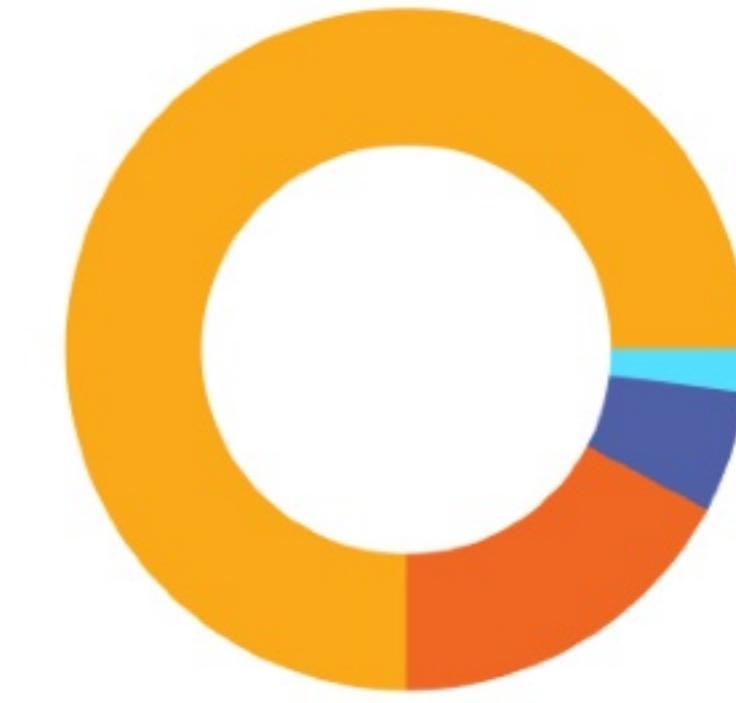
Bootcamp

Workshop

Monthly



User



Thailand 75%

United States 7%

Singapore 15%

Other 3%

Sales Order

Sale Order detail from latest month.

Search



Order Number	Course	Product Type	Customer	Email	Price
220930	Intro to UX Design	Online Course	Ekkrit F.	Ekkrit@gmail.com	3,990
220929	Webflow for Web Designer	Workshop	Nantanat T.	Nantanat@gmail.com	8,990
220928	UI Design Fundamentals	Online Course	Kawin M.	Kawin@gmail.com	3,990
220927	UX/UI Bootcamp	Bootcamp	Sirirat K.	Sirirat@gmail.com	70,000

Log out

กรมการขนส่งทางบก | Department of Land Transport

dlt.go.th/th/

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รับเรื่องร้องเรียน | ร้องเรียนการทุจริตเจ้าหน้าที่ | TH | EN

เมนู | ค้นหาข้อมูล...

เมนูอัปเดต ก ก ก เมนูไฮไลท์

ศูนย์รวมข้อมูลการขนส่งด้วยรถบรรทุก
TRUCK DATA SERVICE CENTER
ศูนย์รวมข้อมูลการขนส่งด้วยรถบรรทุก

เพิ่มประสิทธิภาพ ปลอดภัย ได้มาตรฐาน
เพิ่มความปลอดภัยในการขนส่ง
ยกระดับมาตรฐานการขนส่งสินค้า
ส่งเสริมการขนส่งระหว่างประเทศ
ยกระดับการกำกับดูแลและตรวจสอบ
การลงทุนด้านการขนส่งสินค้า

ประเมินต่อหน่วยงานภาครัฐ

ยินดีต้อนรับเข้าสู่ เว็บไซต์ > การขนส่ง

Q Mark
มาตรฐาน
ดุลยภาพของ
ข้อตกลง
ระหว่าง
ประเทศ

Freight Statistics
สถิติการขนส่งสินค้า
โดยรวม

Trip Planner
ตัวช่วยในการวางแผน
เส้นทางเดินทาง
เชิงพื้นที่

AEC Routes
การขนส่งในพื้นที่
อาเซียน AEC

Transport Report
รายงานการขนส่ง
เป็นภาษาไทย
และ GPS

Dangerous Goods
สารเคมีอันตราย

Transport
การขนส่งสินค้า
ทางถนน

คลังความรู้

บริการผ่านอินเทอร์เน็ต

ข่าวใหม่

หน้าหลัก | กรมสรรพากร - The Revenue Department

rd.go.th/272.html

หน้าหลัก บุคคลธรรมดา นิติบุคคล รวมกฎหมายภาษี ข่าวกรมสรรพากร English

ยื่นภาษีเงินได้บุคคลธรรมดาครึ่งปี (ก.ง.ด.94) '65

ตั้งแต่วันนี้ - 10 ต.ค. 65

ยื่นออนไลน์ →

E-FILING ยื่นแบบทุกประเภท

MyTax Account ตรวจสอบคำลดหย่อน

e-Donation ตรวจสอบเงินบริจาค

e-Refund สอบทานการคืนภาษี

e-Withholding TAX หัก ณ ที่จ่าย

VAT VRT on Blockchain คืนภาษีนักท่องเที่ยว

e-Registration ลงทะเบียนยื่นแบบ

e-TAX Invoice & Receipt ใบกำกับภาษีและใบรับ

e-Stamp Duty ชำระอากรแสตมป์

e-Payment นำส่งข้อมูลการชำระเงิน

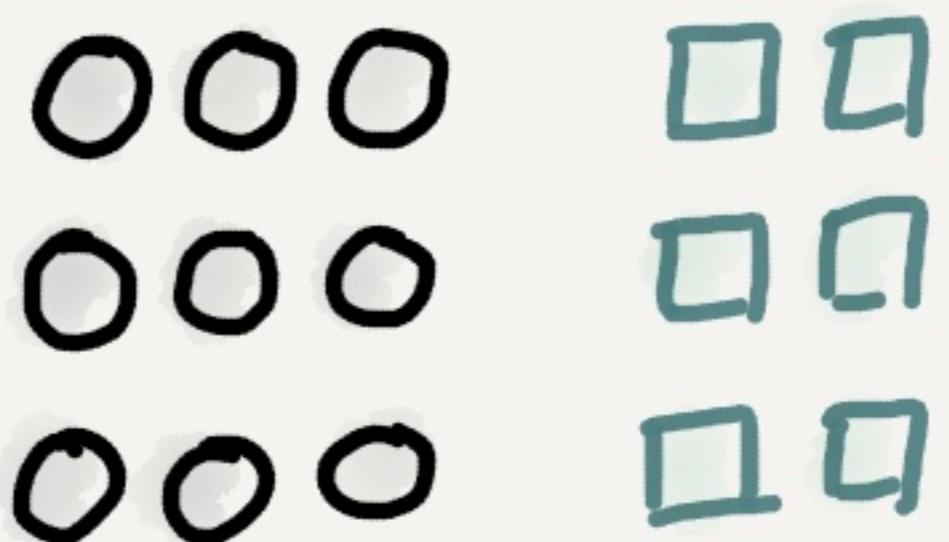
อัปเดตข่าวสาร

ประชาสัมพันธ์ วิธีโอนกู้น้ำสนใจ ปฏิกิณภาษี สื่อเผยแพร่

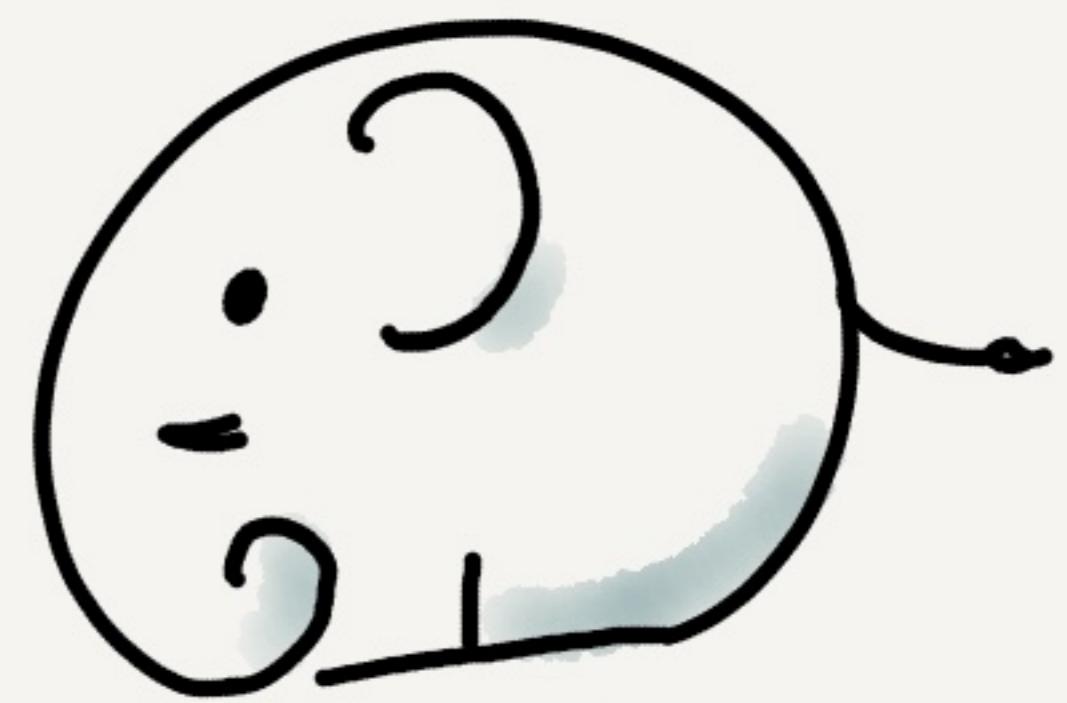
บ้องอาเร่ ตอบภาษี



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