

Mobile Workshop FHNW

MOBILE UX/UI DESIGN

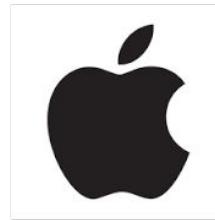
Design by Numbers

01

COMPONENTS

COMPONENTS

Interface Design



IOS



Adroid

Status bar
Navigation bar
Tool bar

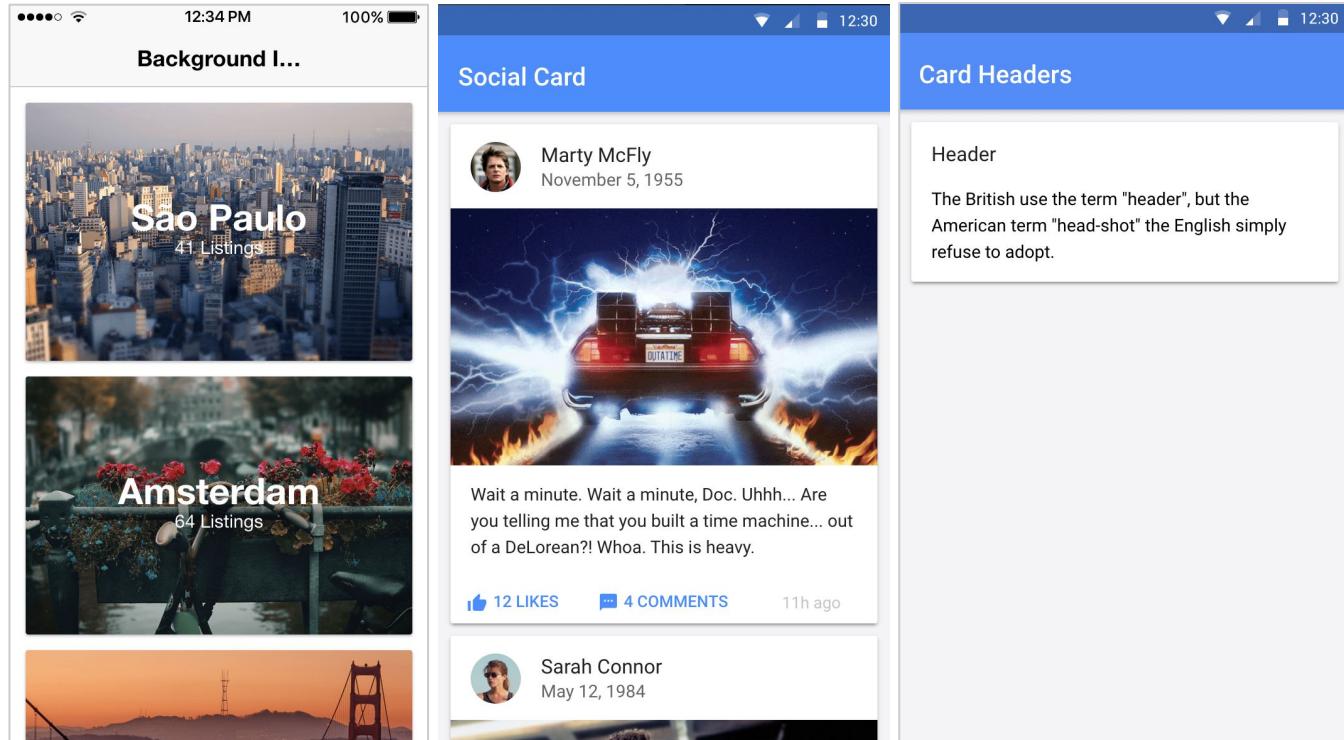
-
-
-

Status bar
App bar
Bottom Navigation

-
-
-

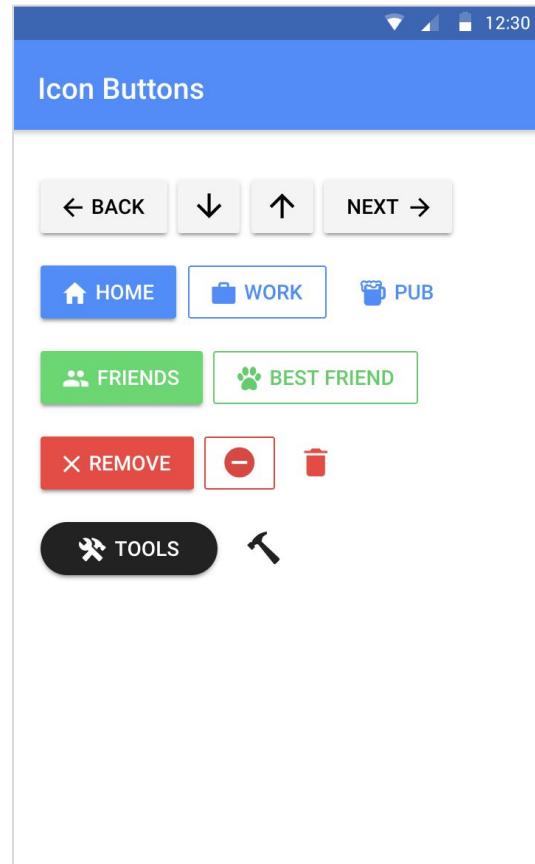
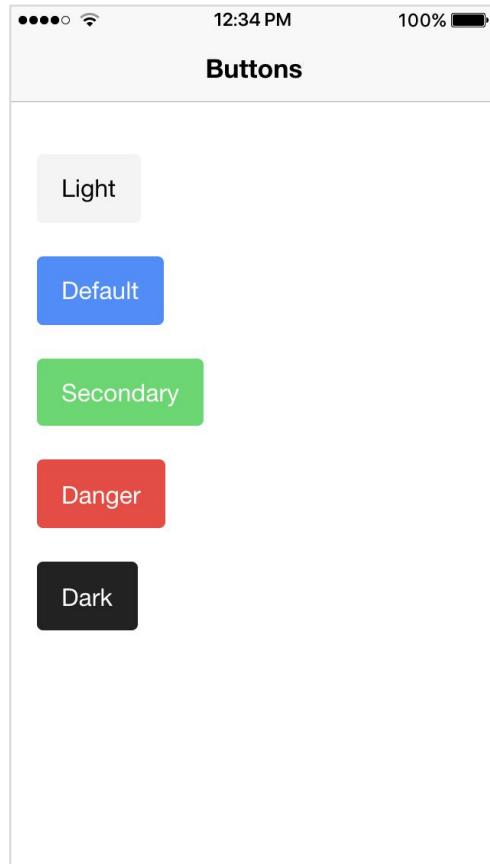
COMPONENTS

Cards



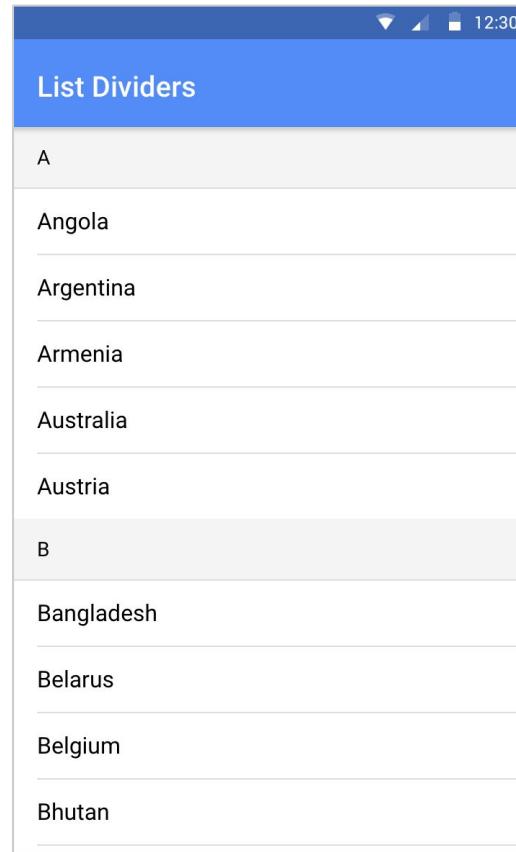
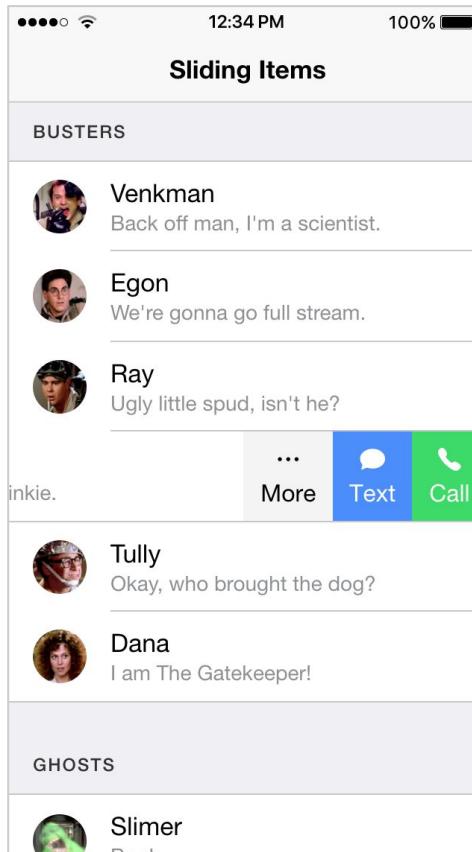
COMPONENTS

Buttons



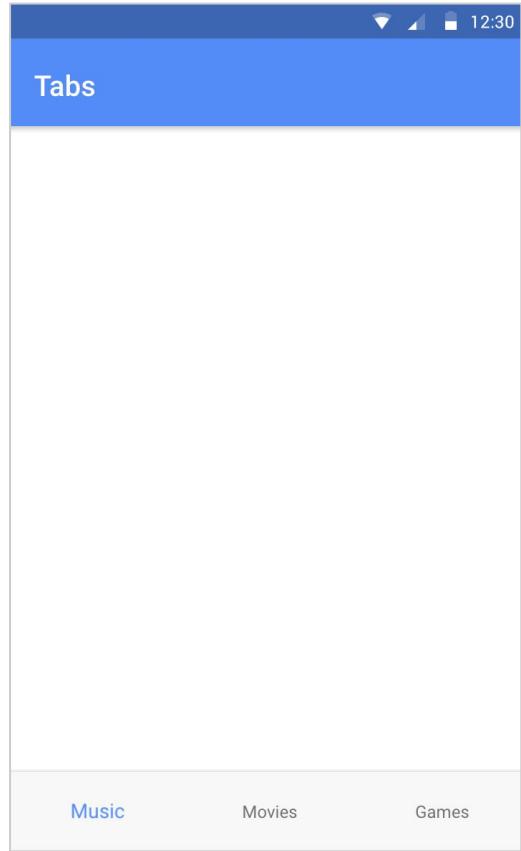
COMPONENTS

Lists



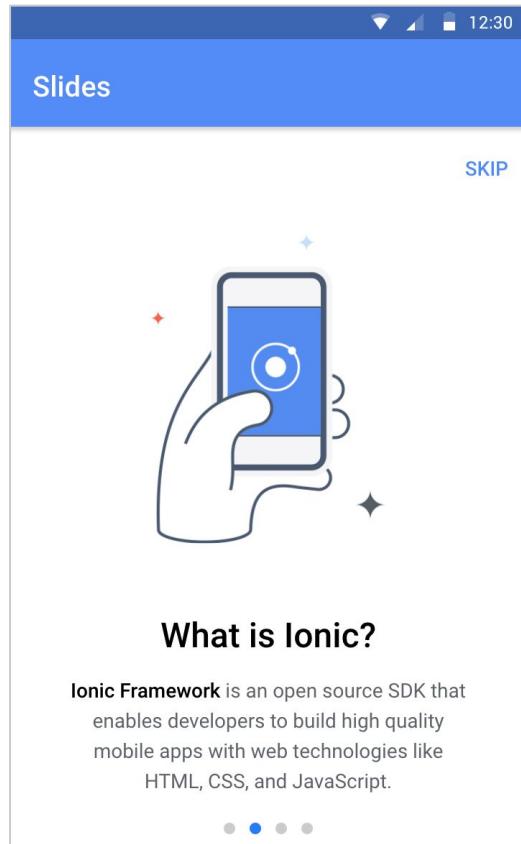
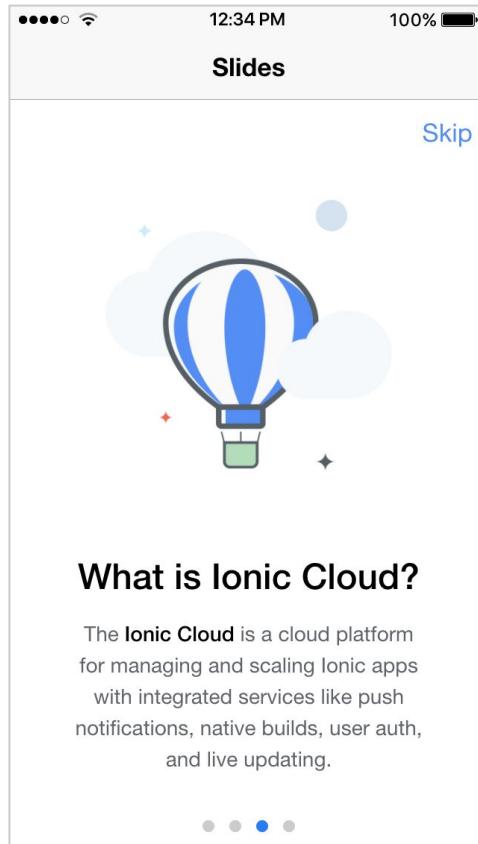
COMPONENTS

Tabs



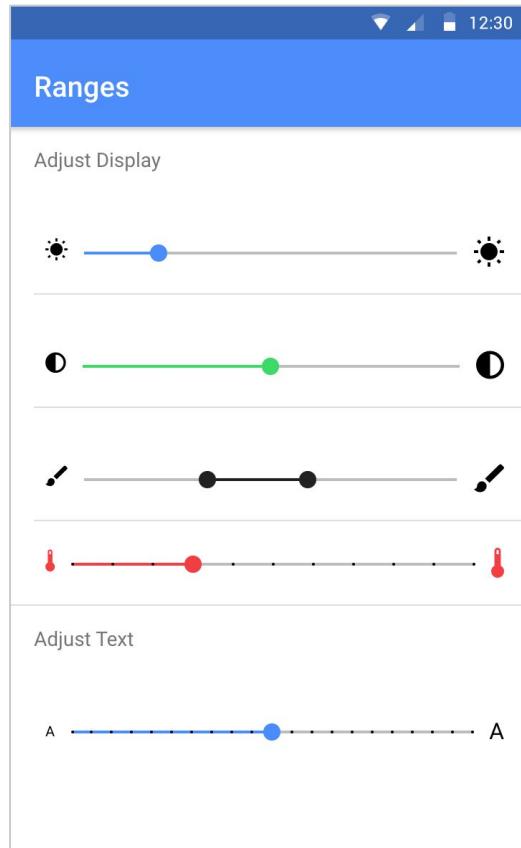
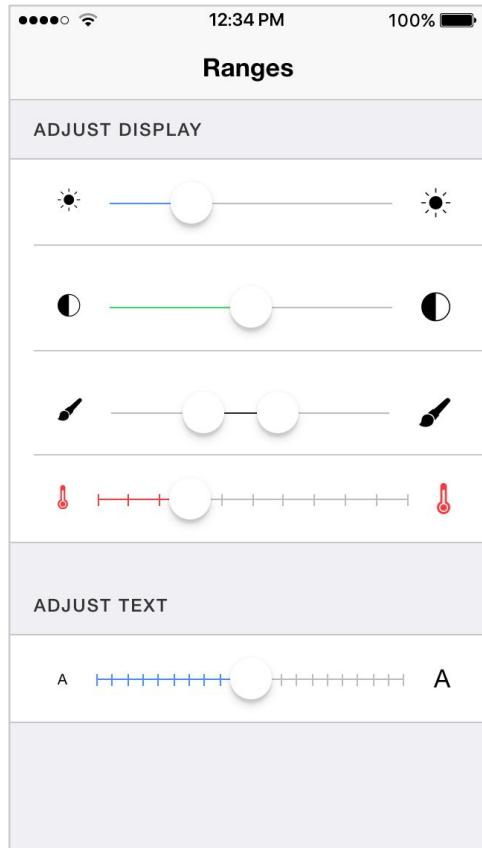
COMPONENTS

Slides



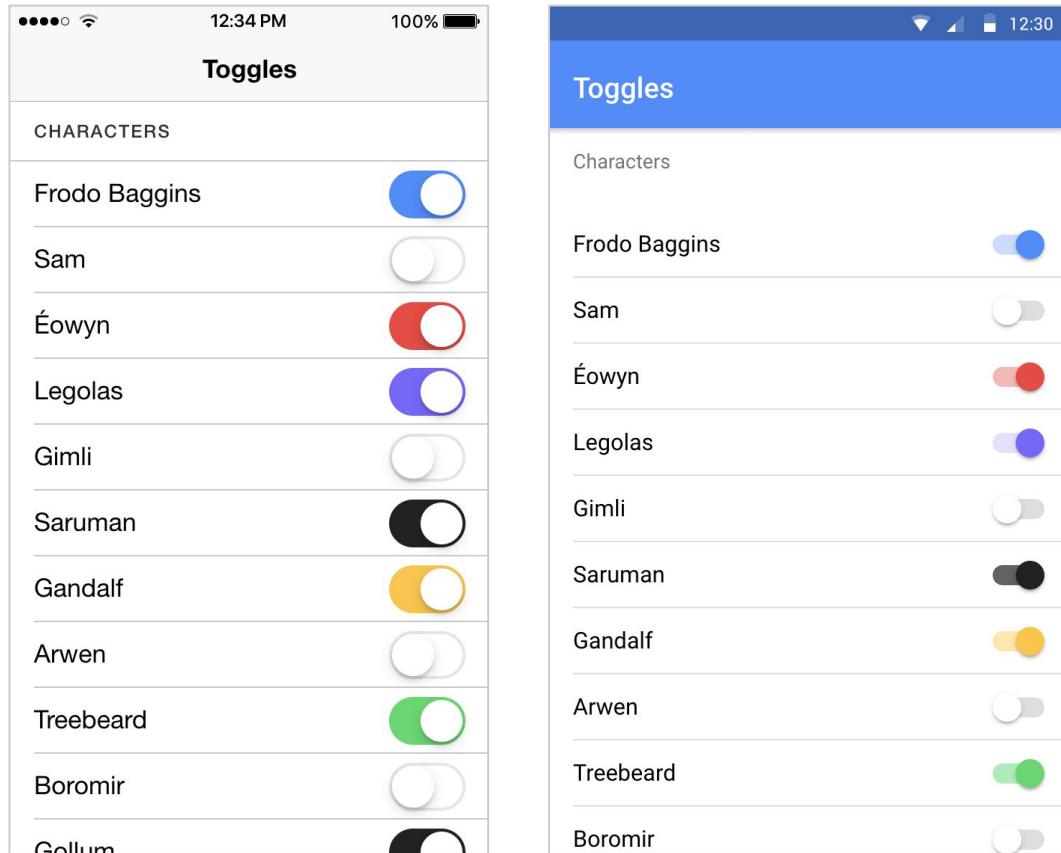
COMPONENTS

Range



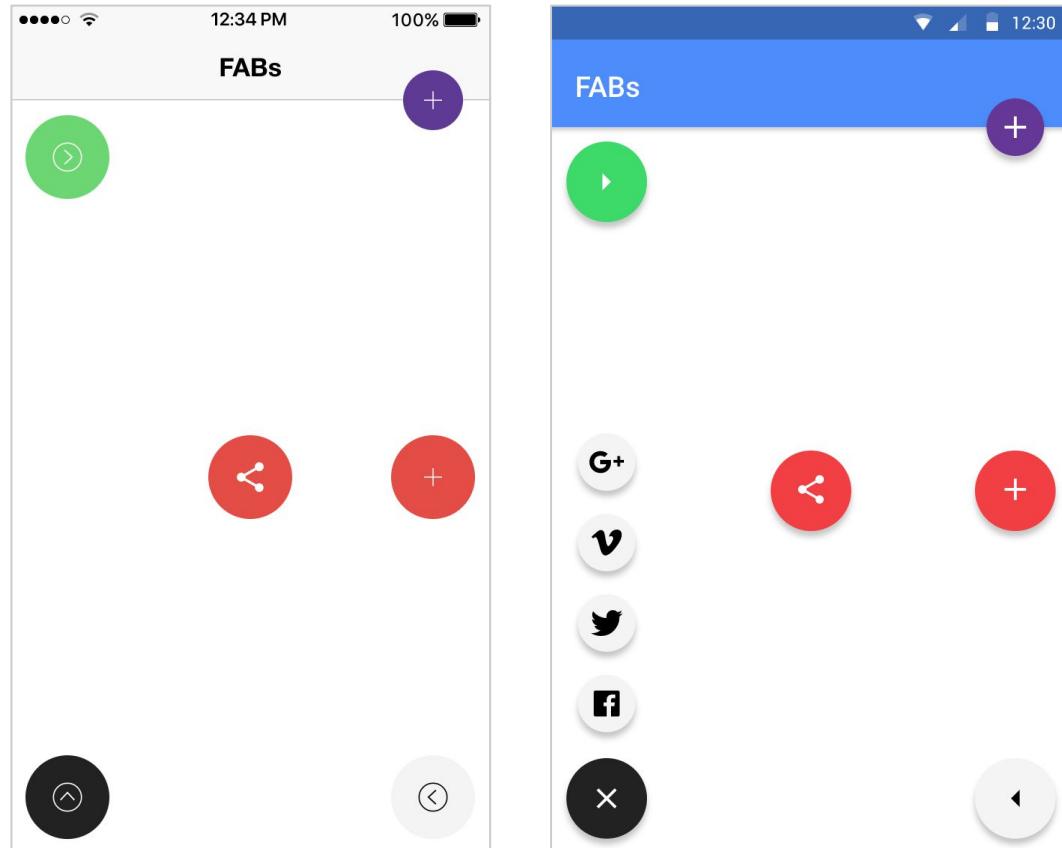
COMPONENTS

Toggles



COMPONENTS

FABs

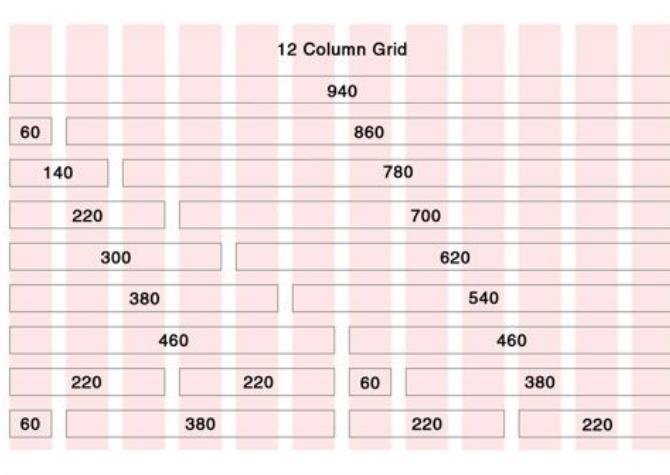


02

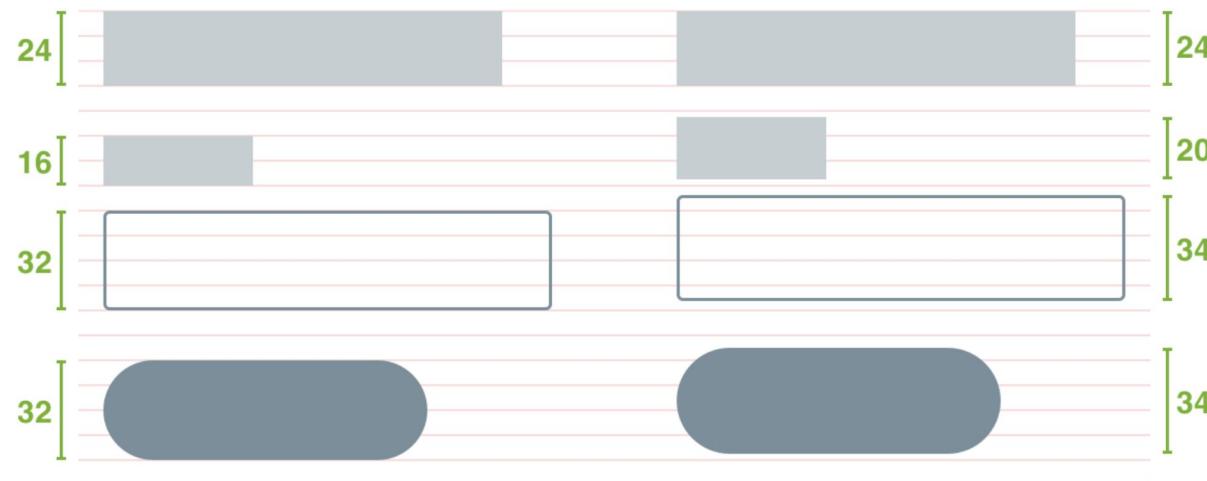
GRID SYSTEM

GRID SYSTEM

Why do we use grid system?



Why do we use grid system?

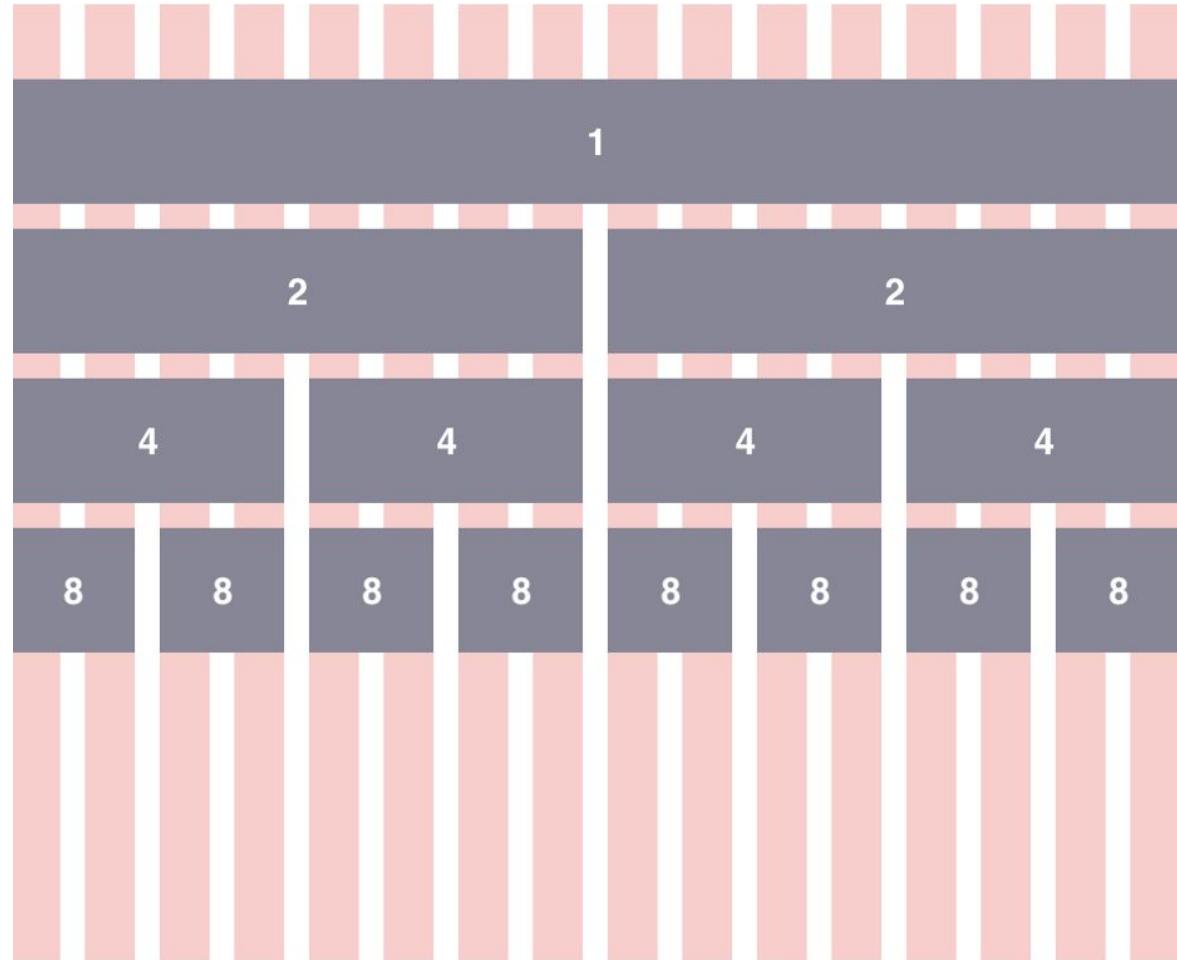


Aligned to an 8px grid

No clear element grid

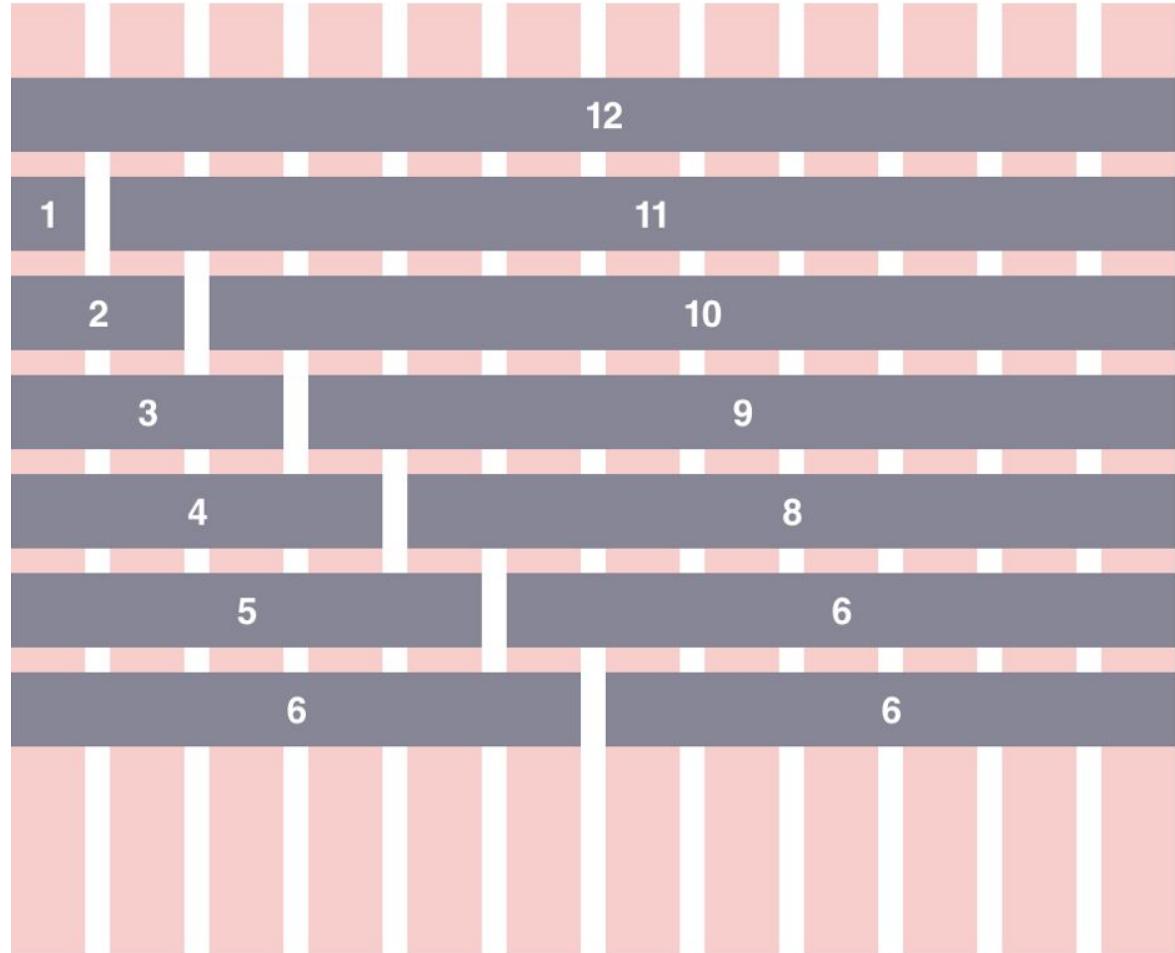
GRID SYSTEM

12 Column Grid System



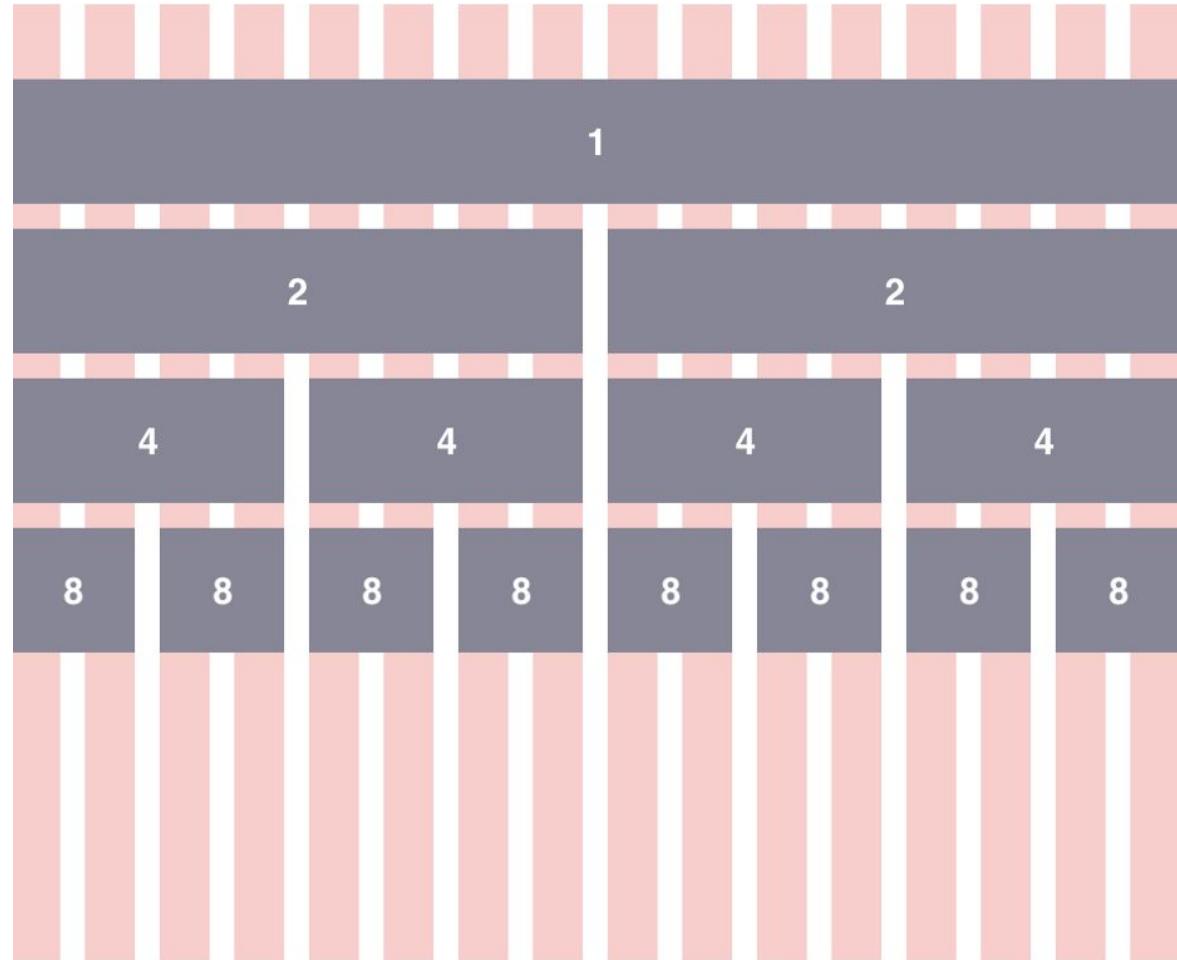
GRID SYSTEM

12 Column Grid System



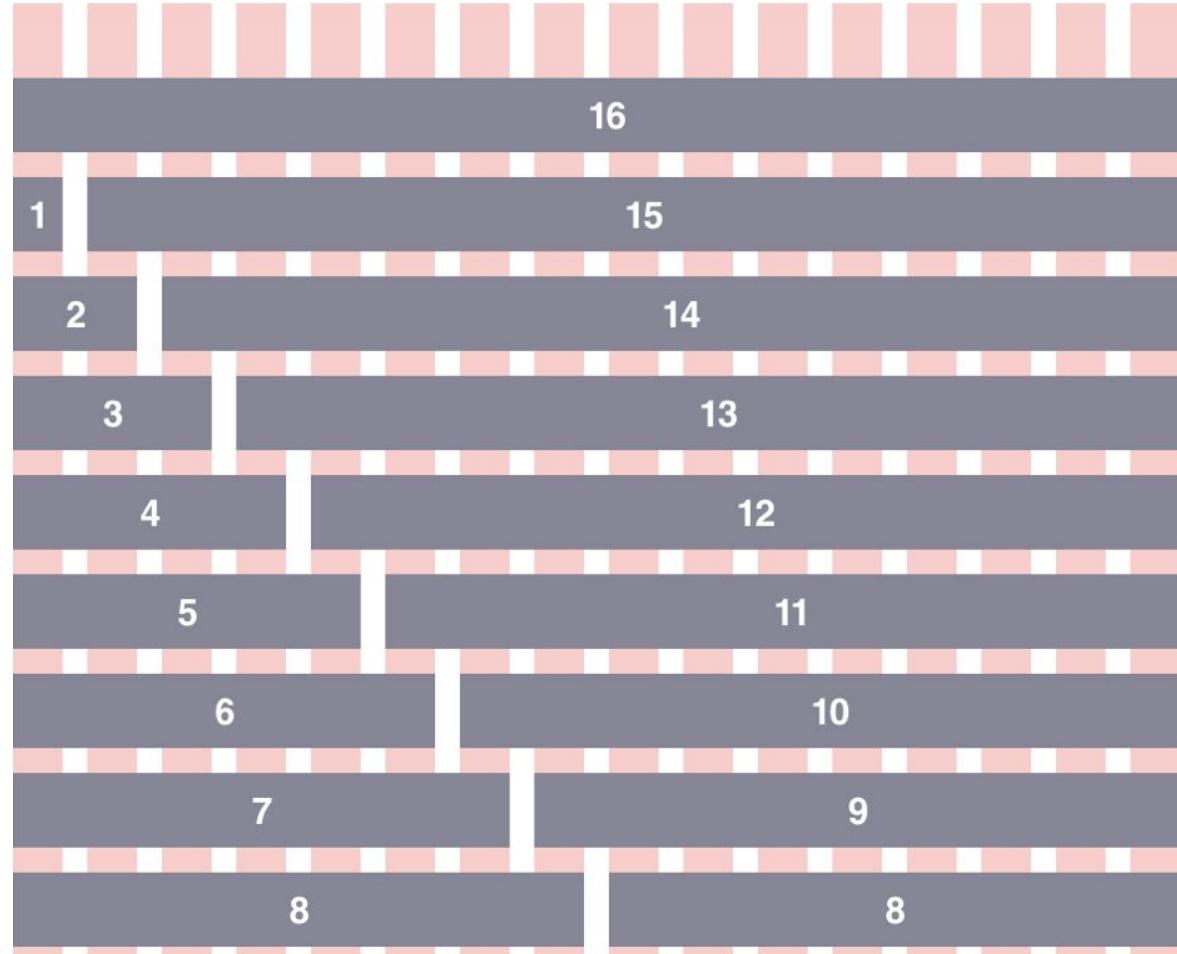
GRID SYSTEM

16 Column Grid System



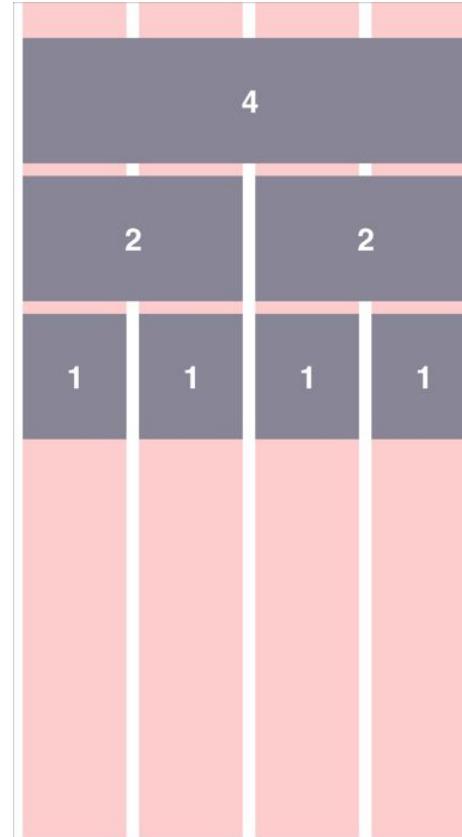
GRID SYSTEM

16 Column Grid System



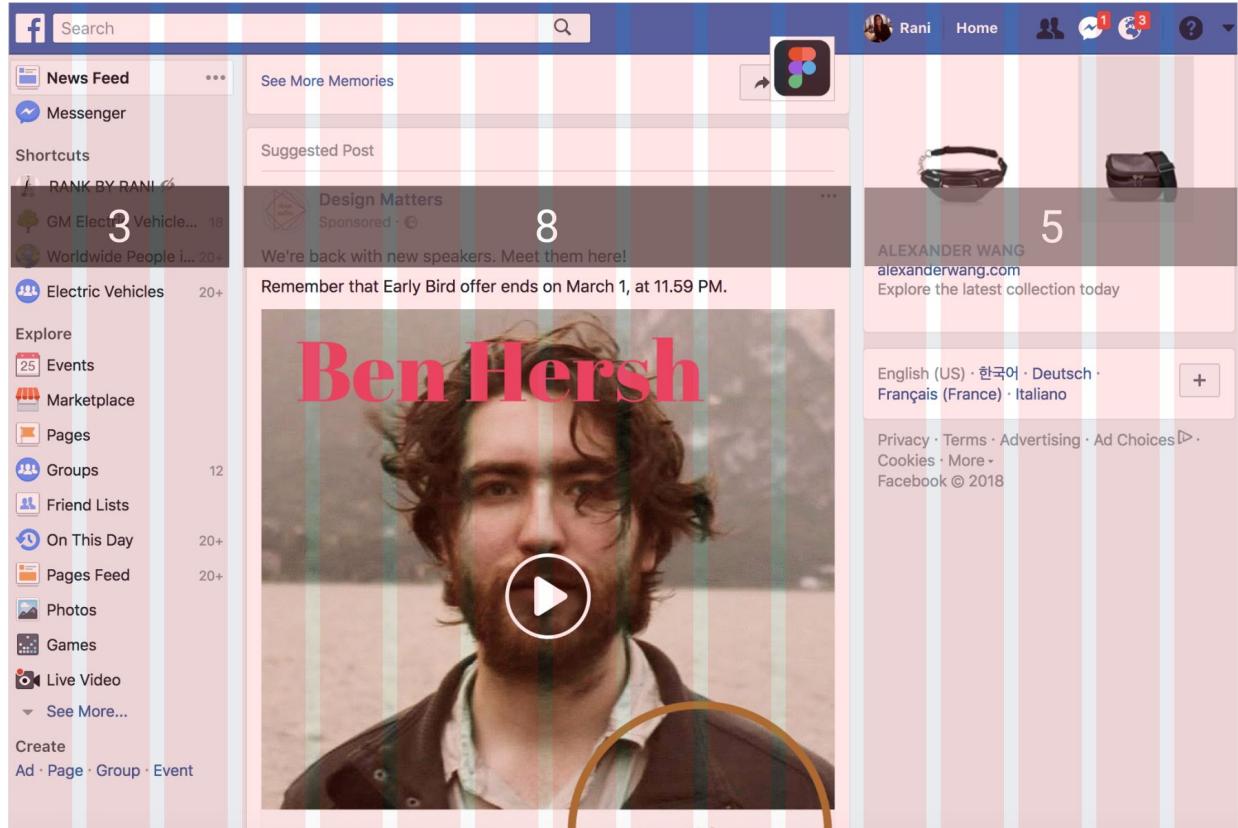
GRID SYSTEM

Mobile Grid System



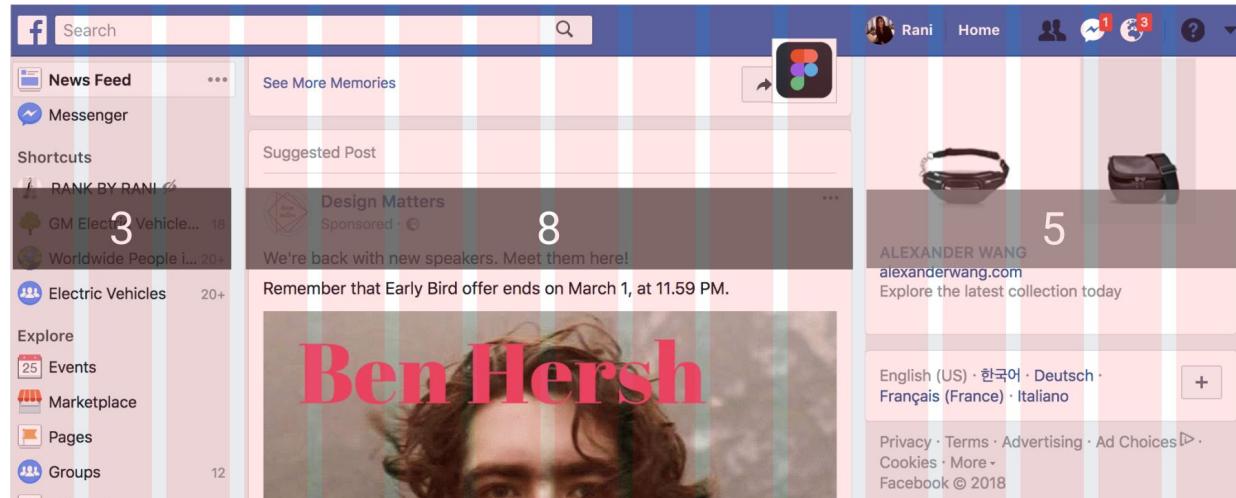
GRID SYSTEM

Facebook Grid System



GRID SYSTEM

Facebook Golden Ratio Layout



$$3 : 5 = 1 : 1.6$$

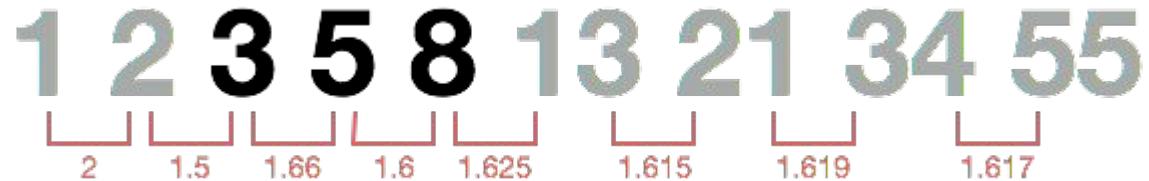
$$5 : 8 = 1 : 1.6$$

03

SIZE

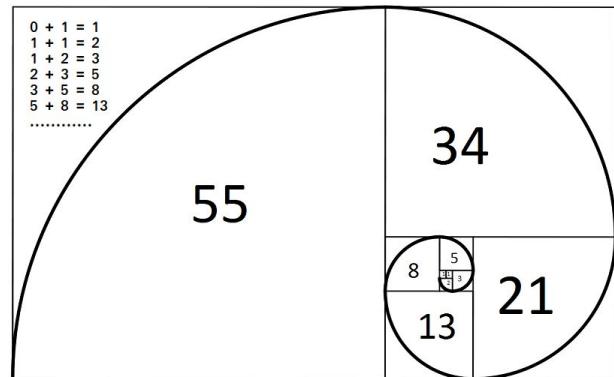
SIZE

Fibonacci Sequence



Golden Ratio Layout

1 : 1.618



SIZE

Image Size Ratio

1:1

4:3

3:2

16:9

2:1

21:9

1:1.6

SIZE

Airbnb



The screenshot shows the "Featured destinations" section with three cards:

- Los Angeles**: 3:2 aspect ratio
- Miami**: 3:2 aspect ratio
- Tokyo**: 3:2 aspect ratio

Below this, the "Experiences in New York" section is shown with two cards:

- NIGHTLIFE**: Discover the city's
- HAT WORKSHOP**: The art of hatmaking

At the bottom are navigation icons: EXPLORE, SAVED, TRIPS, INBOX, and PROFILE.

The screenshot shows a listing detail page for a "28 Tram Balcony Apartment in Baixa".

Check In: 3:00 PM Sat, Nov 4

Check Out: 11:00 AM Sun, Nov 12

Who's coming: [Profile picture]

Address: Rua dos Fanqueiros 62 1ºDrt, Lisboa,...

Map: A Google map showing the location in Lisbon, with nearby landmarks like Igreja da Madalena, Núcleo Arqueológico da Rua dos Correeiros, Fado Living Statue, MUDE - Museu Do Design E Da Moda, and Igreja da Conceição Velha.

Map data ©2018 Google, Inst. Geogr. Nacional

04

LAYOUT

LAYOUT

Aspect Ratio

16:9

3:2

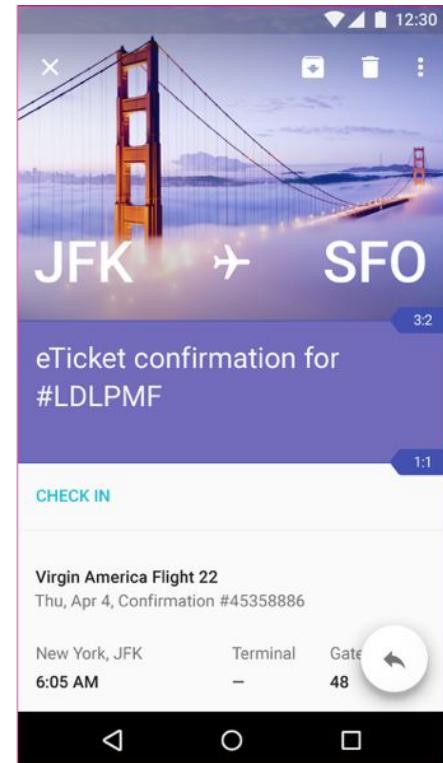
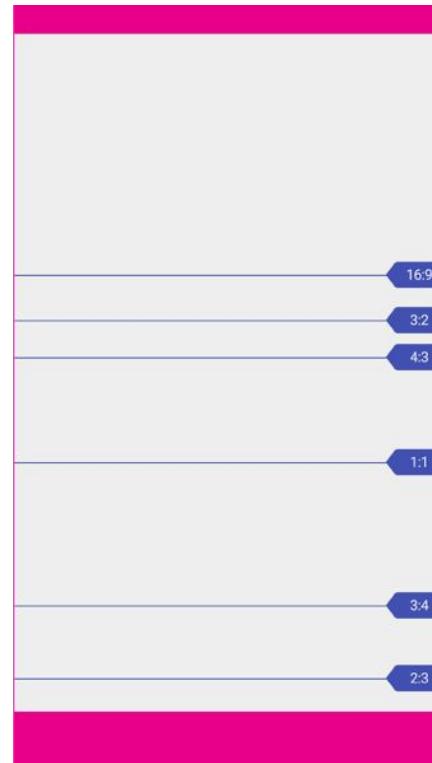
4:3

1:1

3:4

2:3

Golden Ratio



LAYOUT (SCREEN RESOLUTION & ASSETS)

Display Definition

EXPORT

— +

4x	▼	@4x	PNG	▼
3x	▼	@3x	PNG	▼
2x	▼	@2x	PNG	▼
1.5x	▼	@1.5x	PNG	▼
1x	▼	@1x	PNG	▼

BASE 1X MDPI	1.5X HDPI	2x XHDPI	3X XXDPI	4x XXXHDPI
iPhone 8 (375x667)	iPhone S1 (480x800)	iPhone 5 (640x1136)	iPhone 6,7,8 plus (1080x1920)	Galaxy Note4 (1440x2560)
	Galaxy S2 (480x800)	iPhone 6,7,8 (750x1334)	Galaxy S5 (1080x1920)	
		Galaxy S3 (720x1280)		

Work with 1x and export for:

iOS export 1x, 2x, 3x

Android export 1x, 1.5x, 2x, 3x, 4x

LAYOUT

Margin

4px increments

Android!

($1.5 \times 4\text{px} = 6\text{px}$)

($1.5 \times 5\text{px} = 7.5\text{px}$)

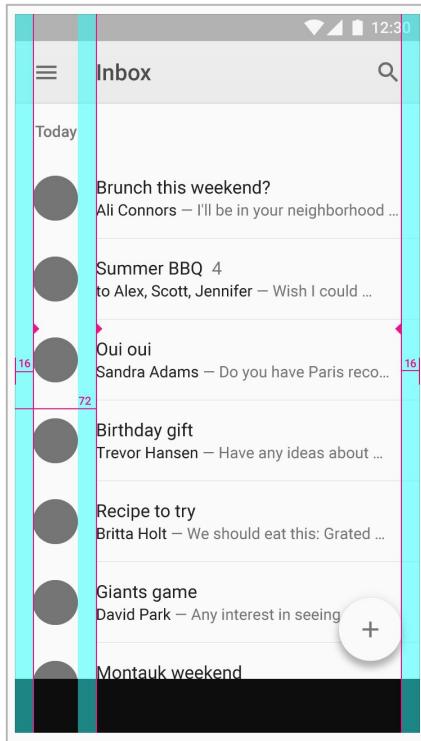
5px

7.5px

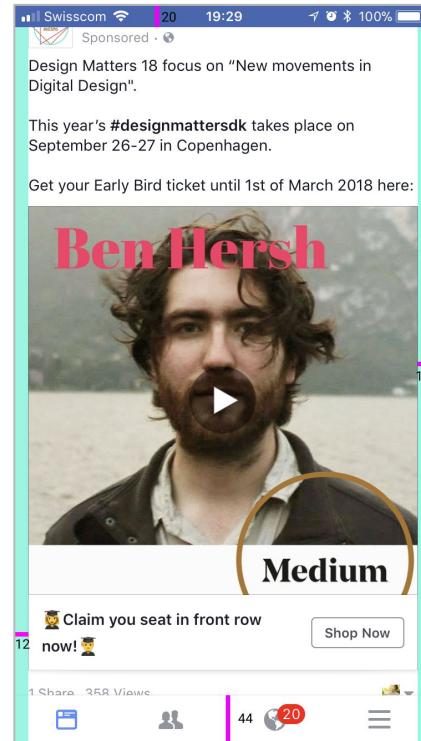
1x Export

1.5x Export

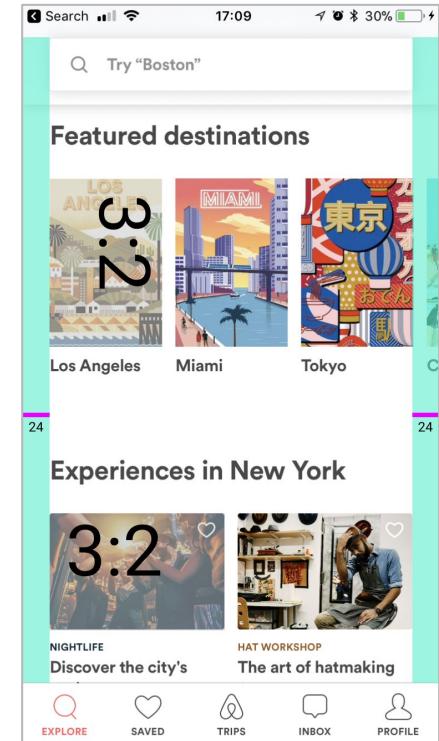
Google
16px



Facebook
12px



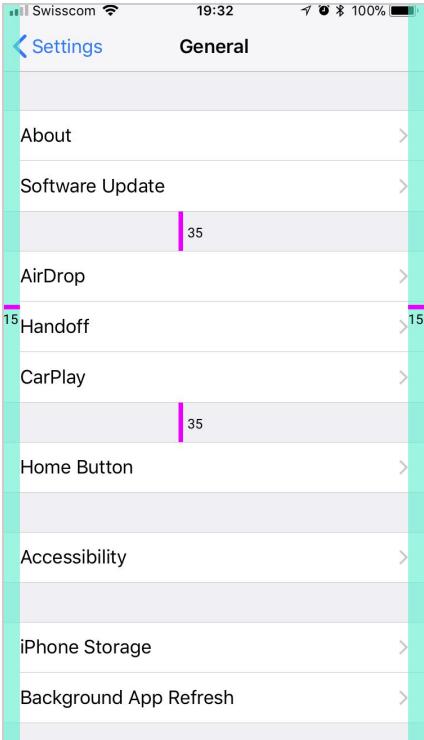
Airbnb
24px



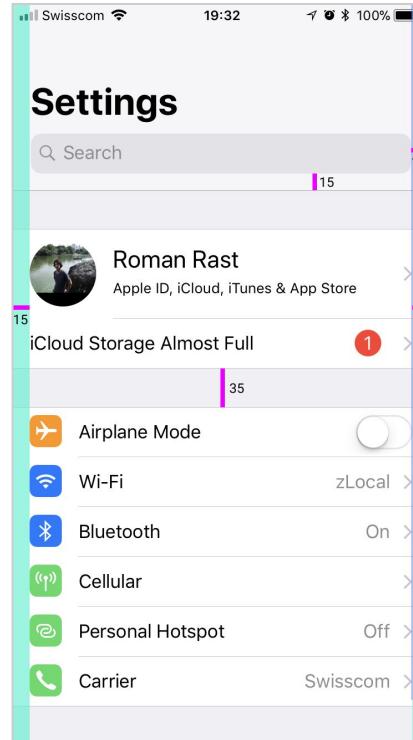
LAYOUT

Apple

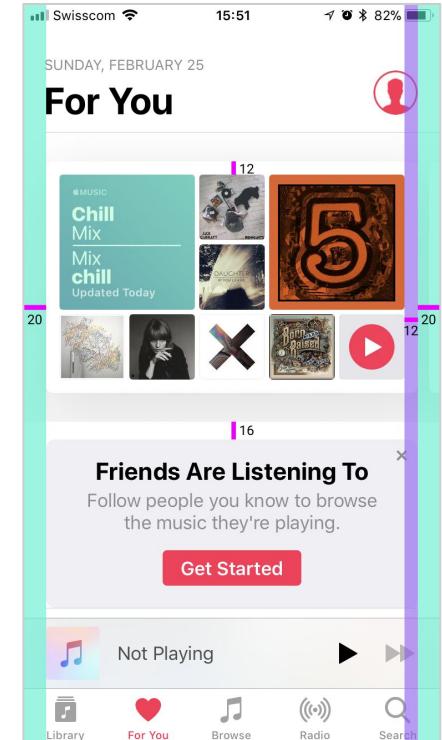
iOS
5px increments



iOS
5px & 4px
increments



Apple Music
4px increments



05

FONT

FONT

Font Size

iOS:
17px & 14px

Android:
16px & 14px

Very minimum: 12px

Fibonacci

Font Size

2

8

3

12

5

20

8

X4

32

13

52

21

84

34

136

10

16

26

42

68

110

FONT

Font Typo

SF

San Francisco

iOS

Roboto

Christian Robertson (12 styles)

All their equipment
and instruments are
alive.

Android

06

Figma



iOS 11 GUI - iPhone 8 by Great Si... MovieTheaterApp FHNW Sample File Google Material Design +

Page 1

Components

- New page
- Image result for golden ratio

iPhone 8 3

- Ellipse
- Clouds
- T 2°
- Zurich
- Rectangle 2
- Rectangle
- Blood

iPhone 8 2.1

iPhone 8 2

Photos

Phone Button

Ticket

Home

- Timeslots
- burger

movie

- Details
- Rectangle
- Watch Trailer
- Rectangle

Share

DESIGN PROTOTYPE CODE

Frame

X: 22 Y: 311 W: 339 H: 138 Rotation: 0° Transform: Mixed

BACKGROUND

#FFFFFF 100% Show in exports Clip Content

INSTANCE

movie Go to Master Component

CONSTRAINTS

Left Top

LAYOUT GRID

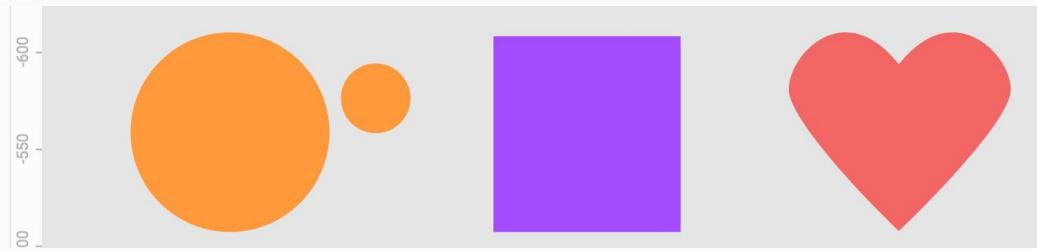
PASS THROUGH 100% FILL

?

ELEMENTS

Shapes & Groups

- ✓ Group
- Ellipse 2
- Ellipse
- ♡ Vector
- Rectangle



Ellipse = **O**
Rectangle = **R**
Vector = **P**
Group = **G**
Rename = **R**
Text = **T**

≡ ⌂ ⌂ ⌂ ⌂ ⌂

ELEMENTS

-300
-200
-100
0
100
200
300
400
500
600
700
800

Components

Publish file to library

Publishing allows other team members to use these components

Component →

movie

- Details
- Rectangle
- Watch Trailer
- Rectangle
- Age rating: 12
- Action, Sci-Fi
- 2h 44min
- Blade Runner 2049
- bladerunner_poster

Timeslots

503 525 550 575 600 625 650

Blade Runner 2049

2h 44min Action, Sci-Fi Age rating: 12

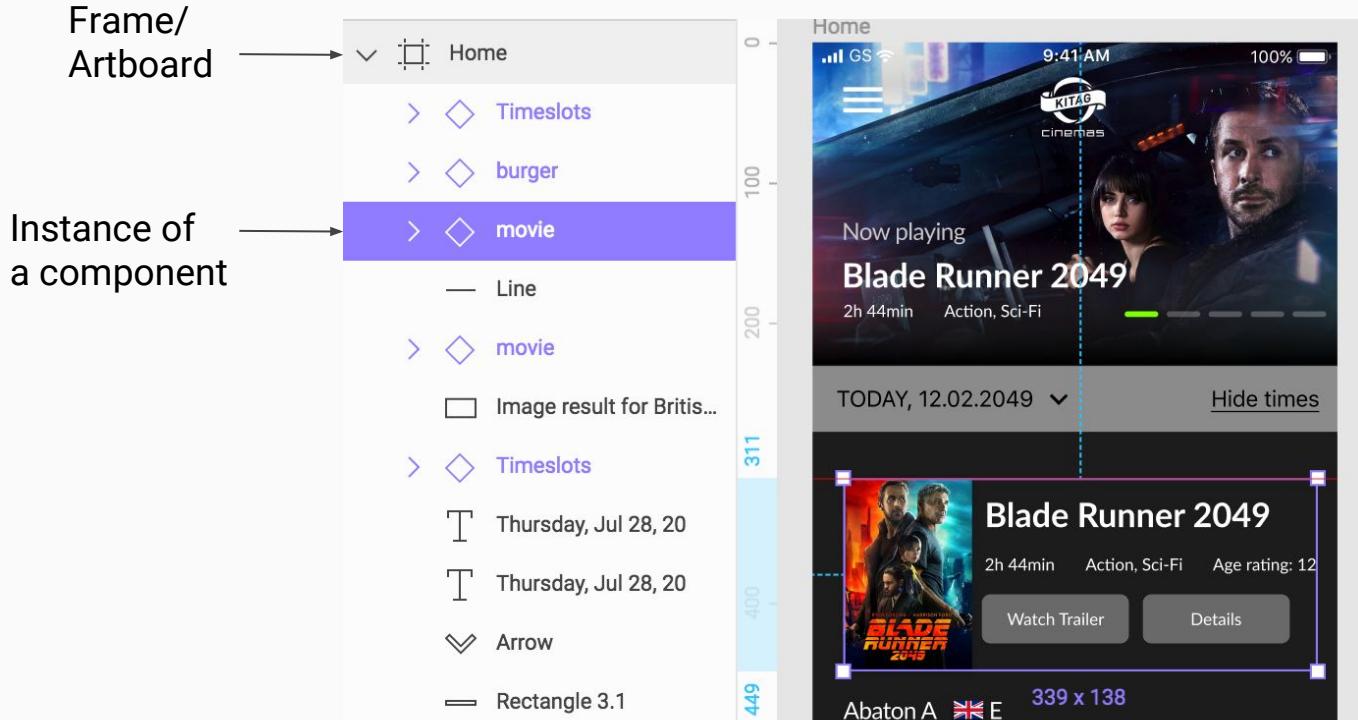
Watch Trailer Details

339 x 138

⋮ ⌂ ⌂ ⌂ ⌂ ⌂

ELEMENTS

Frames & Instance



ELEMENTS

Frames

New Frame = F or A

The image shows the Figma application interface. At the top right, there are icons for play, warning, and eye, followed by a battery level at 62% and a zoom control. Below this, a navigation bar has 'DESIGN' selected, with 'PROTOTYPE' and 'CODE' as options. Under 'DESIGN', a dropdown menu is open for 'Phone', showing a list of supported devices with their screen sizes:

Device	Dimensions
iPhone X	375 x 812
iPhone 8 Plus	414 x 736
iPhone 8	375 x 667
iPhone SE	320 x 568
Galaxy S8	360 x 740
Google Pixel	411 x 731
LG G3	480 x 853

Below the phone section are sections for 'Tablet' (with a tablet icon), 'Desktop' (with a monitor icon), and 'Watch' (with a smartwatch icon). In the bottom right corner, there is a circular icon with a question mark.

GRID SYSTEM

Grid System

The screenshot displays the Airbnb mobile application's search screen on an iPhone 8. The interface features a top navigation bar with a search field containing the placeholder "Try 'Boston'". Below this is a section titled "Featured destinations" with cards for Los Angeles, Miami, and Tokyo. The main content area is titled "Experiences in New York" and shows two cards: "NIGHTLIFE" and "HAT WORKSHOP". At the bottom, there is a footer bar with icons for Explore, Saved, Trips, Inbox, and Profile.

Layout Grid: 12 Columns (Auto)

Grid Settings:

- Count: 12
- Width: Auto
- Gutter: 12
- Type: Stretch
- Margin: 24

Background: #FFFFFF, 100%
Show in exports (checked)
Clip Content (checked)

Layer: Pass Through, 100%

Fill: Image, 100%
Stroke: #FF0000, 10%

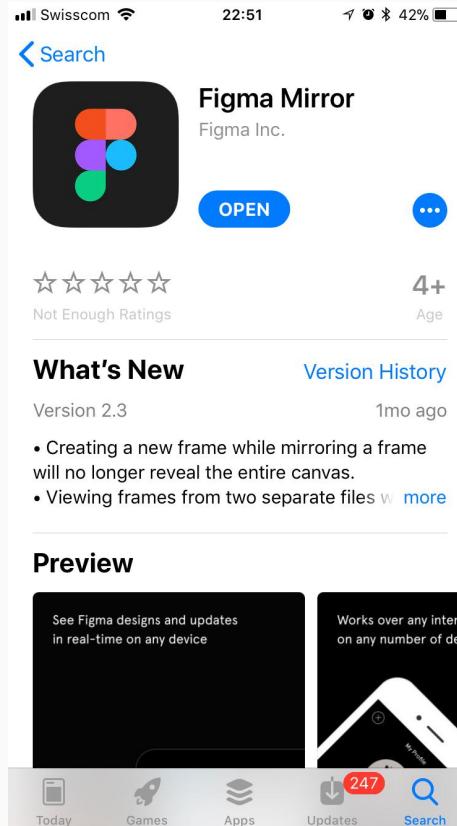
Stroke: #FF0000, 10%

Effects:

Export: ?

Figma Mirror App

1. Connect to the same WiFi on your computer and mobile
2. Klick on a Frame/Artboard in Figma
3. See changes live on your mobile device

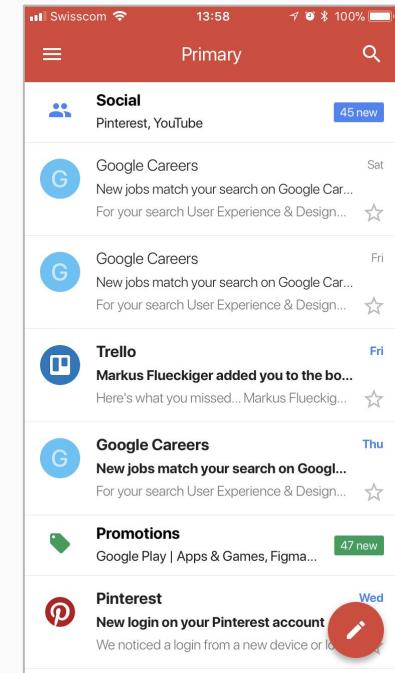
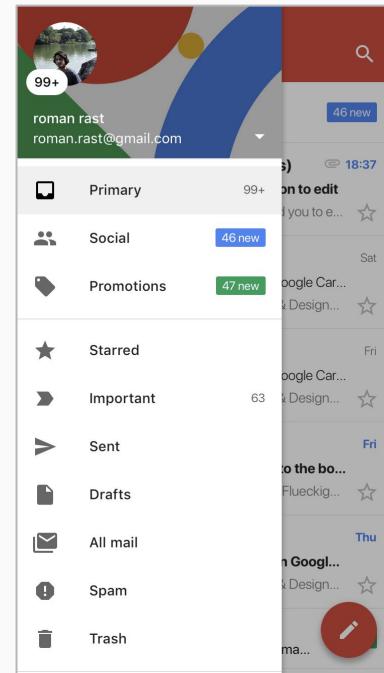
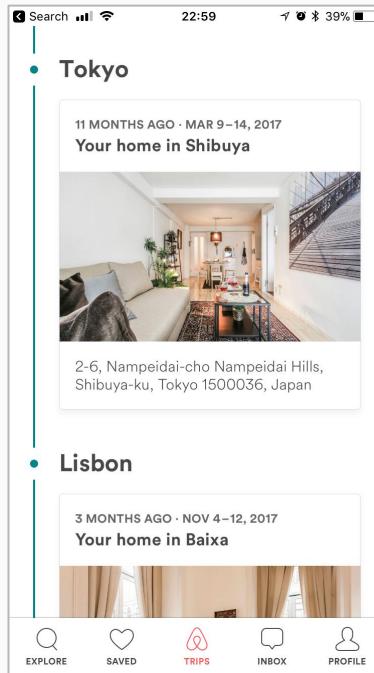
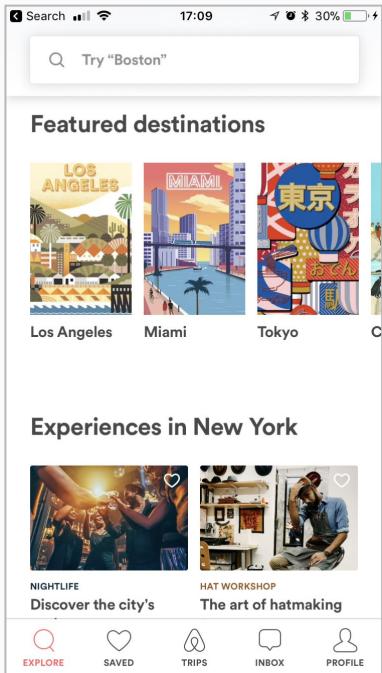


Figma

EXERCISE

EXERCISE

Copy designs in Figma (components, using right ratio, shadows, etc)

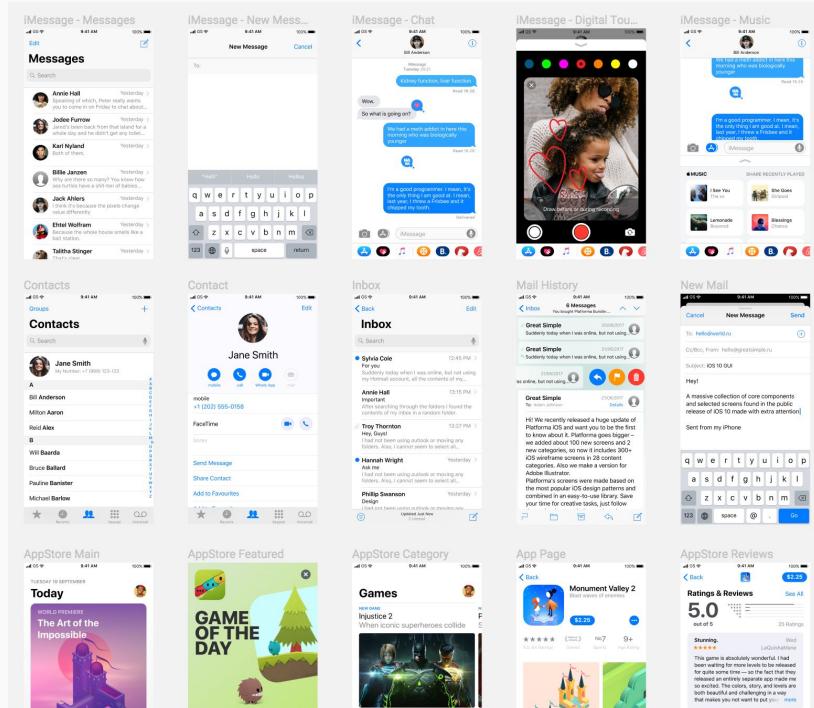


Airbnb

Gmail

Figma iOS Templates

<https://iosdesignkit.io/ios-gui/>



HOMEWORK

WEATHER APP

EXERCISE

Weather App

Design your app with the following elements

- Temperature today
- Weather condition today (Sunny...)
- City Name
- Forecast 7 days with day (Monday, Tuesday...)
- High and low temperature of each day
- Sunrise & sunset time