

# Designing Great Apple Watch Experiences

Session 804

Mike Stern User Experience Evangelist

# Watch App Basics



Complication



Notification



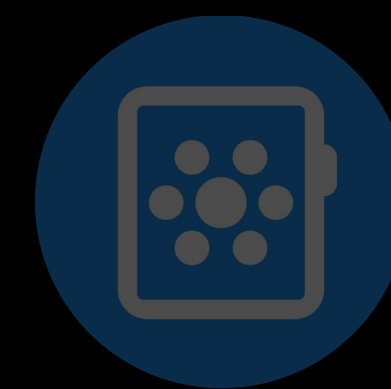
App



Complication



Notification



App

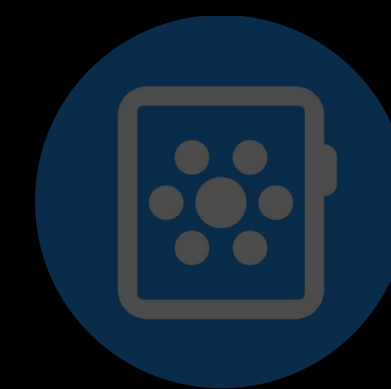




Complication



Notification



App

















Complication



Notification



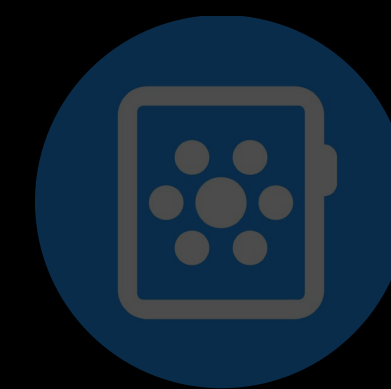
App



Complication



Notification



App



Complication



Notification



App



SAT 18 20:10

CAL 667/600  
MIN 58/30  
HOUR 12/12

05:45 76° 





SAT 18 20:10

CAL 667/600  
MIN 58/30  
HOUR 12/12

05:45 76° 



Fork+Knife 20:10

Local Thai  
Chicken Satay, Pad Th...

Hello Sushi  
Uni, Sake Nigiri(2), Ina...

Monsieur Burger  
Cheese Burger, Fries

Indian Pizze



20:11



FORK+KNIFE

**On our way!**

Dinner will arrive in

**35-40MIN**

Green Curry

Japanese Eggplant

Rice







20:50



FORK+KNIFE

**Dinner is Here**

Your delivery person

**Boris**

is arriving now.

Dismiss





21:50



FORK+KNIFE

**Would you like to tip Boris?**

Tipping is optional

\$3.00 (10%)

\$4.50 (15%)



\$3.00 (10%)

\$4.50 (15%)

Other...

No Tip





Complication



Notification



App

Time



Find and Launch App



Select Workout Type



Choose Goal and Tap Start





Find and Launch App



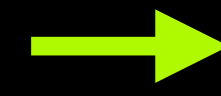
Select Workout Type



Choose Goal and Tap Start



Launch App



Quick Start



Launch App



Quick Start



Outdoor Walk

10:09



End



Pause







Outdoor Walk

10:09

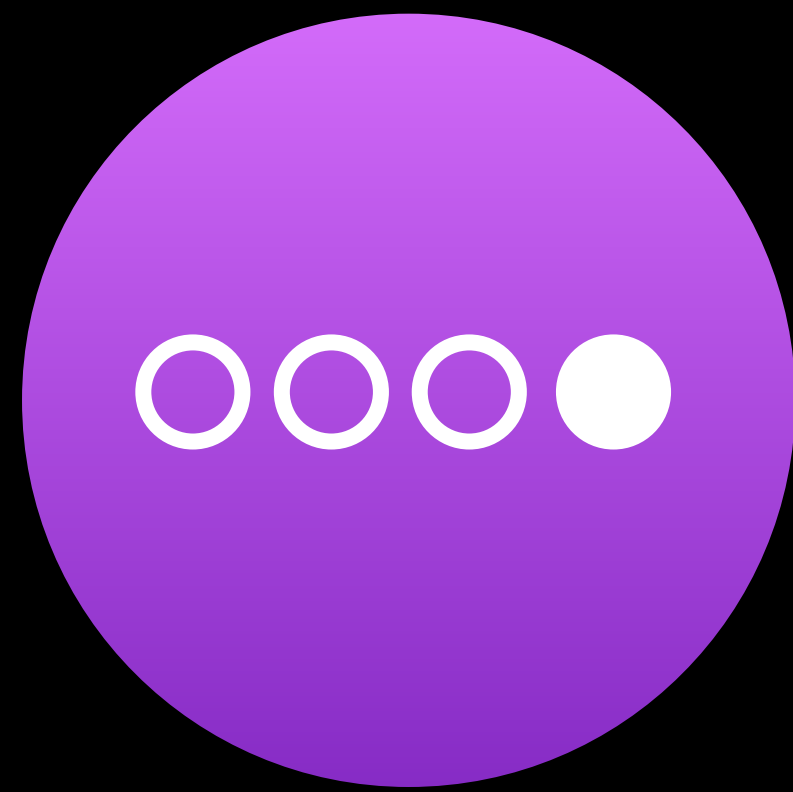
85 BPM

Heart Rate





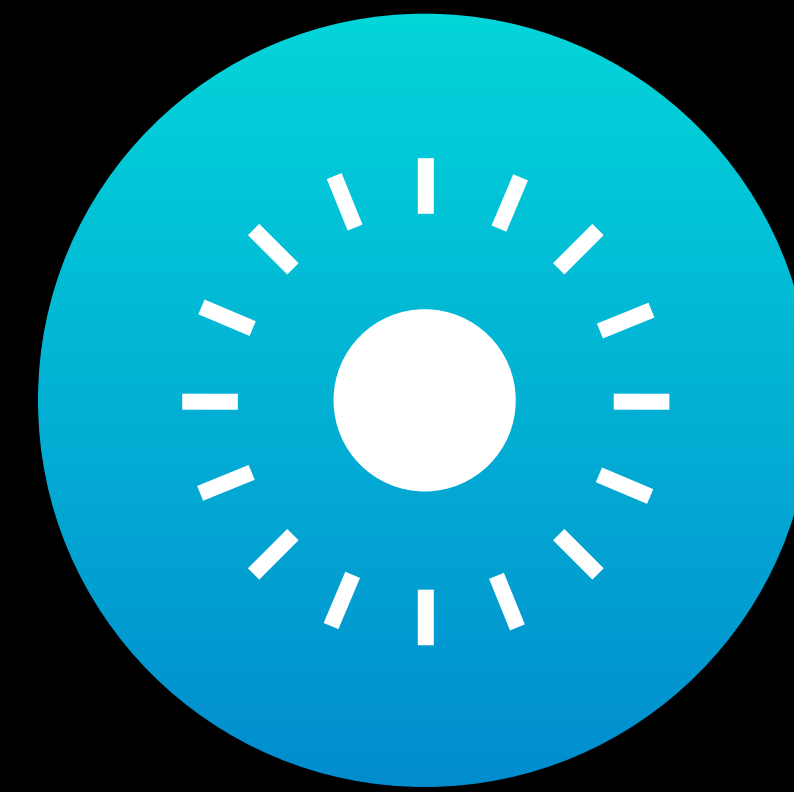
watchOS



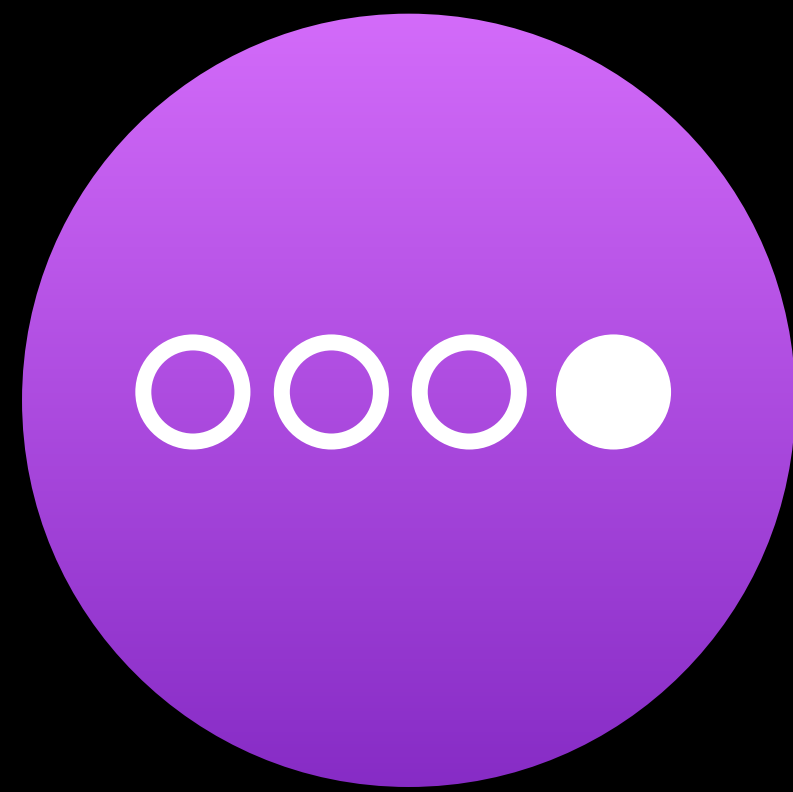
Glanceable



Actionable



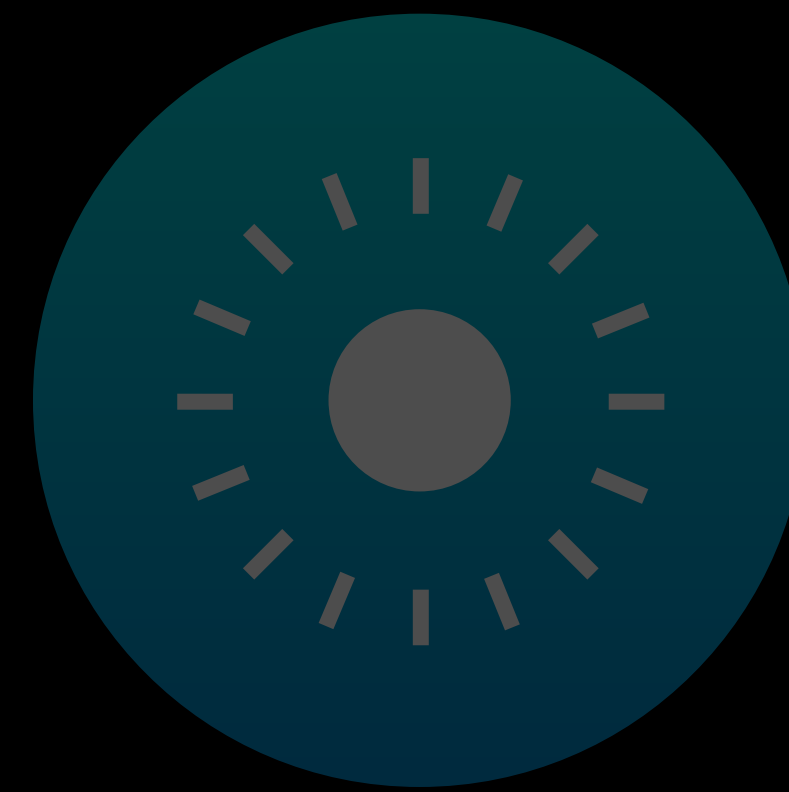
Responsive



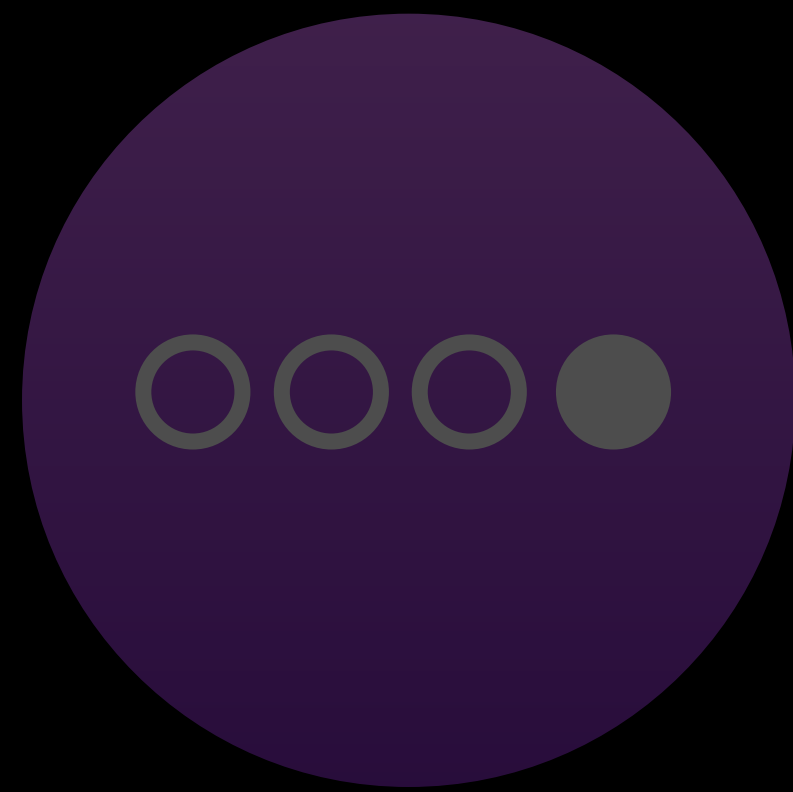
Glanceable



Actionable



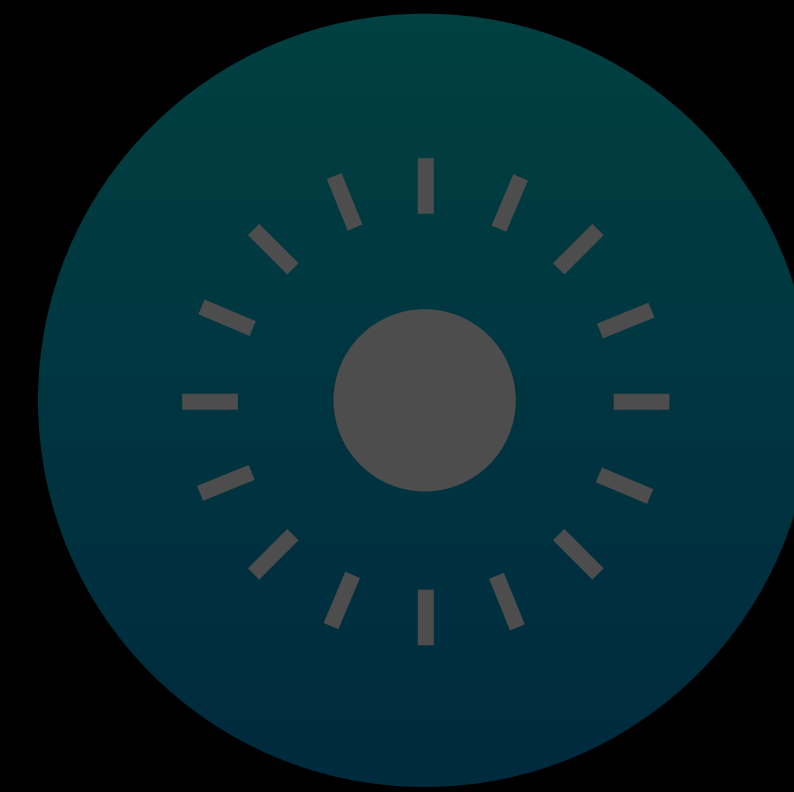
Responsive



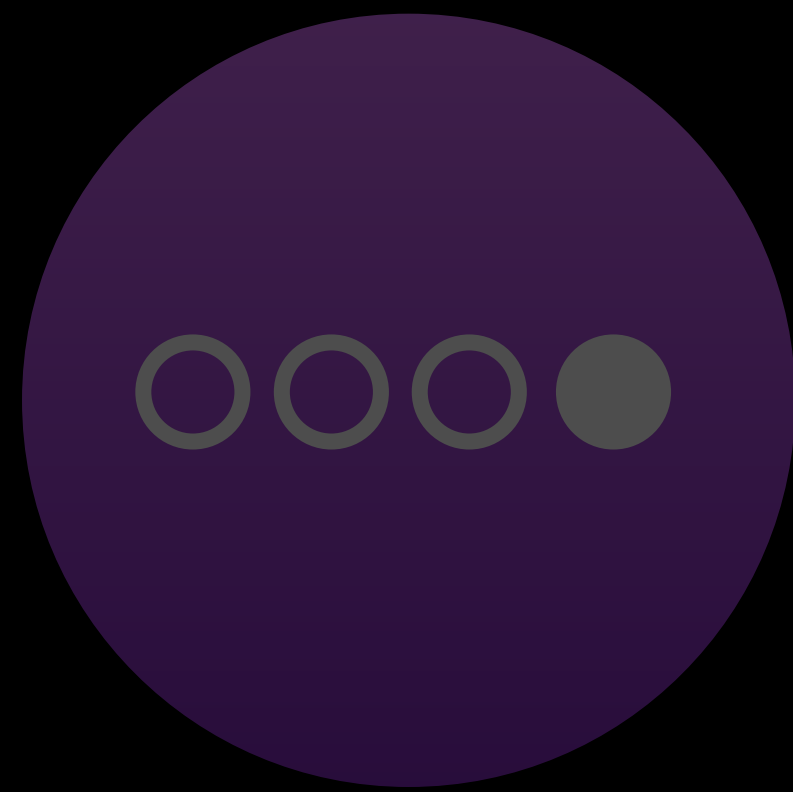
Glanceable



Actionable



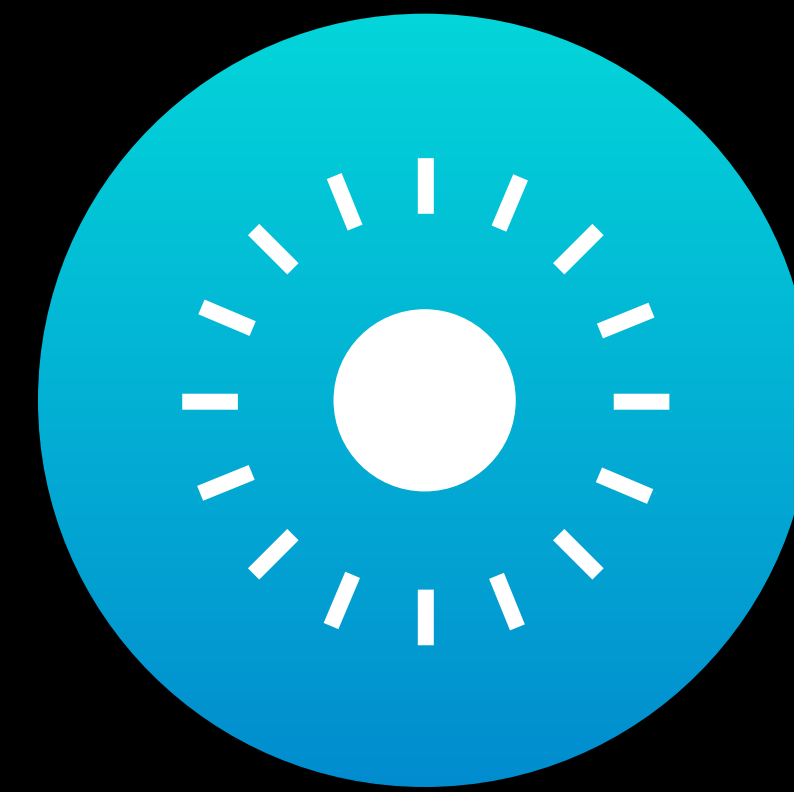
Responsive



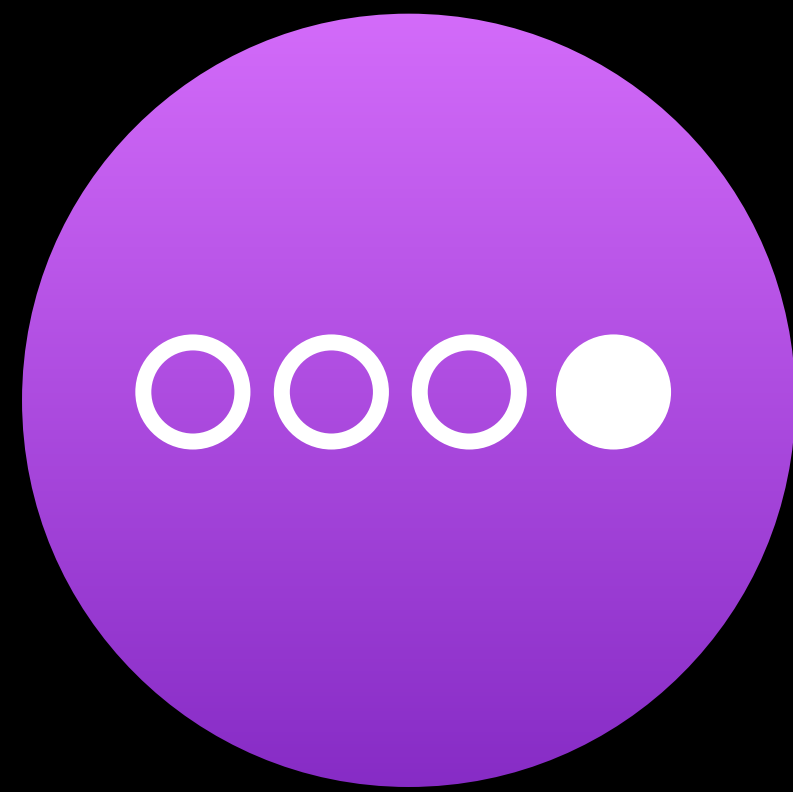
Glanceable



Actionable



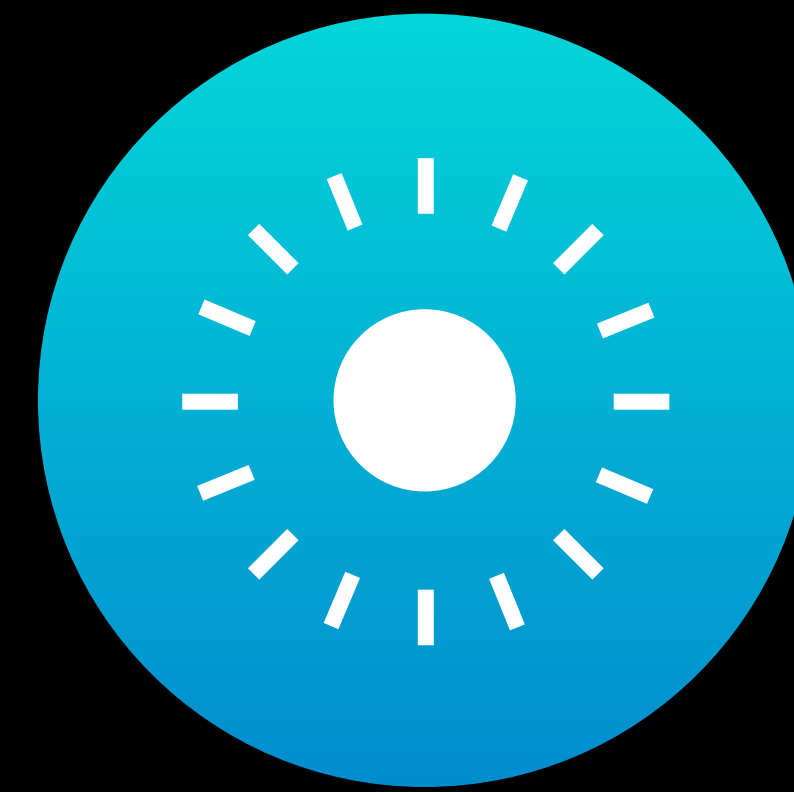
Responsive



Glanceable



Actionable



Responsive



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS





WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS



Stocks

Stocks

DOW J +0.64%  
17,920.33

AAPL +0.73%  
98.63

IBM -0.10%  
152.73





Stocks

Stocks

DOW J +0.64%  
17,920.33

AAPL +0.73%  
98.63

IBM -0.10%  
152.73





< IBM 10:09

International  
Business Machines

152.73

-0.16 (0.10%)



Delayed Quote



< IBM 10:09

International  
Business Machines

152.73

-0.16 (0.10%)



Delayed Quote















< LA @ SF

10:09

6

LA

7

SF

Bot 8th



B ● ● ● ●  
S ● ● ● ●  
O ● ● ● ●



Weather 10:09

↗ San Francis... ☀

69°  
H:70° L:55°

Cupertino ☀

85°  
H:70° L:54°

Jenner ☀



Stocks 10:09

DOW J +0.82%  
17,851.51

AAPL +1.76%  
99.62

IBM 2.28%  
151.69



10:00

11:00

12:00

13:00

14:00



SET















2.0



Complication



Notification



App



Complication



Notification



App





WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS



Color

Red



Style



MINIMAL

SIMPLE

MEDIUM

Complications



My Watch



Face Gallery



App Store



Search



Color

Red



Style



MINIMAL

SIMPLE

MEDIUM

Complications



My Watch



Face Gallery



App Store



Search



# Face Gallery

## Utility



## Digital



Modular

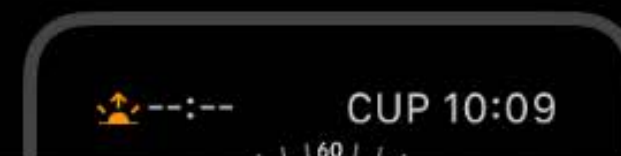


Motion



Astr

## Analog



My Watch



Face Gallery



App Store



Search

# < Face Gallery Featured Complications

## Dexcom



Activity Digital

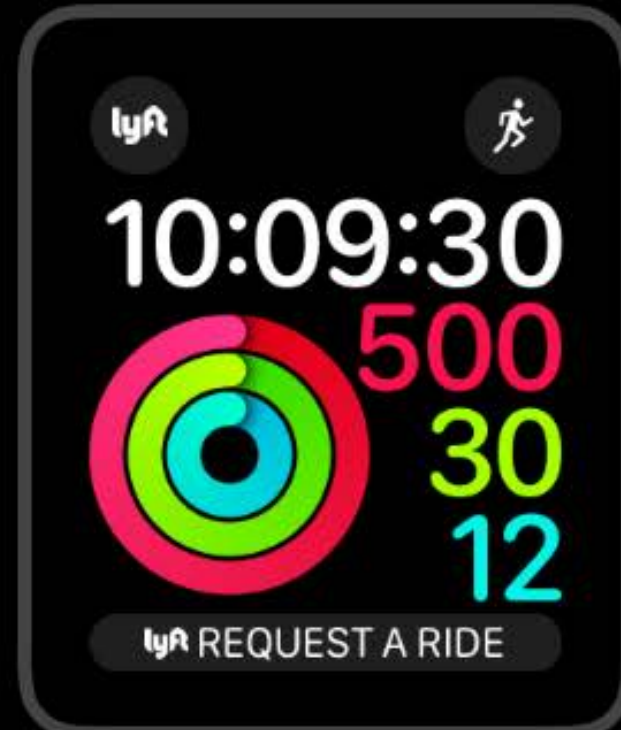


Activity Analog

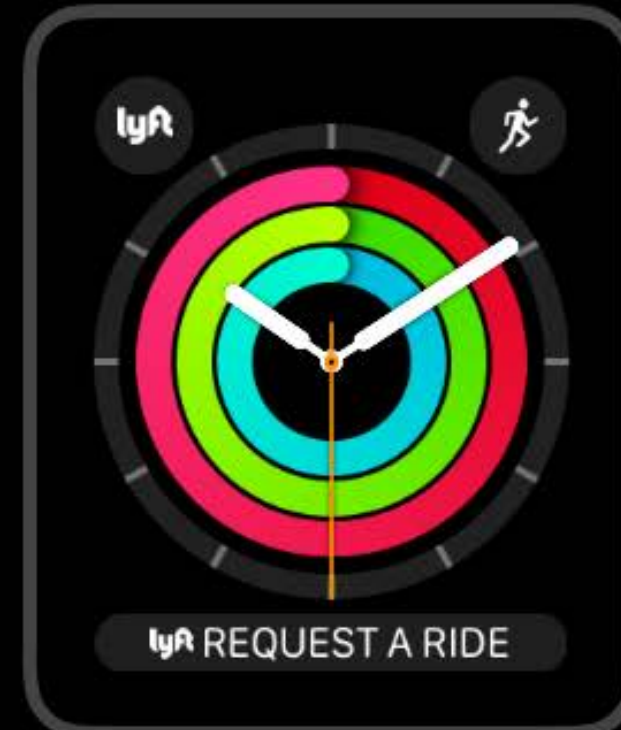


U

## Lyft



Activity Digital



Activity Analog



U

## Acorns

















0



6



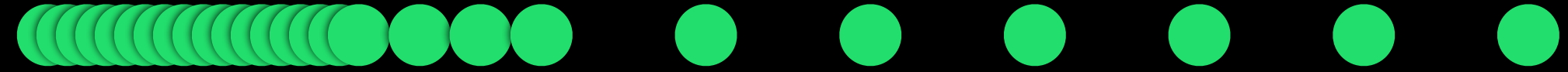
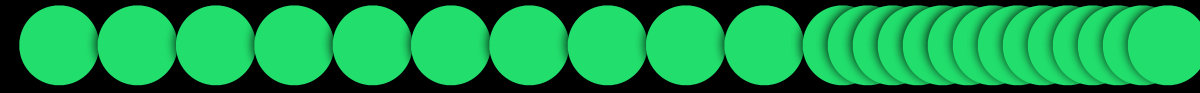
12



18



24



0



6



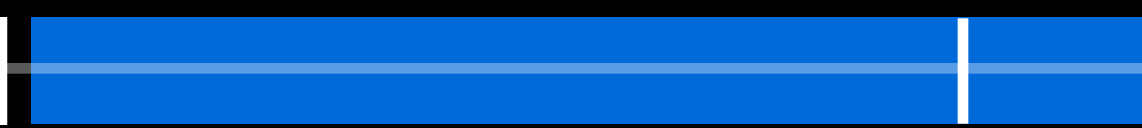
12

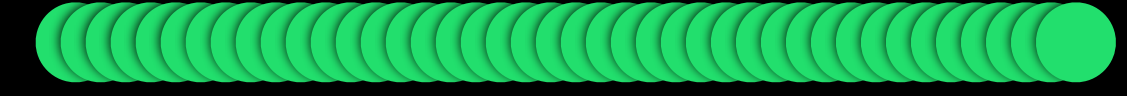
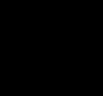


18



24





0

6

12

18

24





Do it! Do it! Do it!

Information and Status



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS





WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 05:47 67°  47MINS



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 05:47 67°  47MINS





WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS

Actionable



WED 15 10:09

CAL 380/600  
MIN 39/30  
HOUR 8/12


05:47 67°



WED  
15

10:09

CAL 380/600  
MIN 39/30  
HOUR 8/12

  
05:47

67°







WED  
15

10:09

CAL 380/600  
MIN 39/30  
HOUR 8/12

05:47

67°





WED 15 10:09

CAL 380/600  
MIN 39/30  
HOUR 8/12

05:47 67°



WED 15 10:09

CAL 382/600  
MIN 40/30  
HOUR 8/12

05:47 67°

What will  
your complication do?



# Providing Options





## Complications



Watch Face

Modular

Large Slot



Small Slot



"Feels Like" Temp

On

To sync changes to your wrist, open my Apple Watch app.



## Complications



Watch Face

Modular

Large Slot



Small Slot



"Feels Like" Temp

On

To sync changes to your wrist, open my Apple Watch app.









WED 15 10:09

CAL 420/500  
MIN 57/30  
HOUR 11/12



0%





WED  
15

10:09

CAL 420/500  
MIN 57/30  
HOUR 11/12



0%





WED 15 10:09

CAL 448/500  
MIN 57/30  
HOUR 11/12

4



75°



75°



6 MPH



4



0%



70%

Circular

Modular Small

Modular Large

Utility Small

Utility Large

Circular

Modular Small

Modular Large

Utility Small

Utility Large

# Extra Large



Color





Color



Ring Image



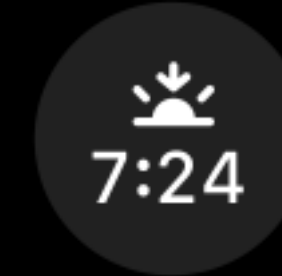
Ring Text



Simple Image



Simple Text



Stack Image



Stack Text

# Circular Complications



Modular



Modular





CAL 396/660  
MIN 13/30  
HOUR 3/12

Columns

Cupertino, CA  
68° Partly Cloudy  
H:72° L:62°

Standard Body

Final Score  
14 Central Prep  
28 Mission High

Table

Wednesday  
Mar 9

Tall Body

Modular Large Complications



Ring Image



Ring Text



Simple Image



Simple Text



7:24PM

Stack Image

LON

6:09

Stack Text

CP 14  
MH 28

Columns Text

## Modular Small Complications



Simple



Utility



Chronograph



Simple



Utility



Chronograph





LON 6:09



Flat

Ring Image

Ring Text

Square

# Utility Small Complications



Utility



Utility



11:00AM PHOTO SHOOT

Large Flat

Utility Large Complications





X-Large



X-Large



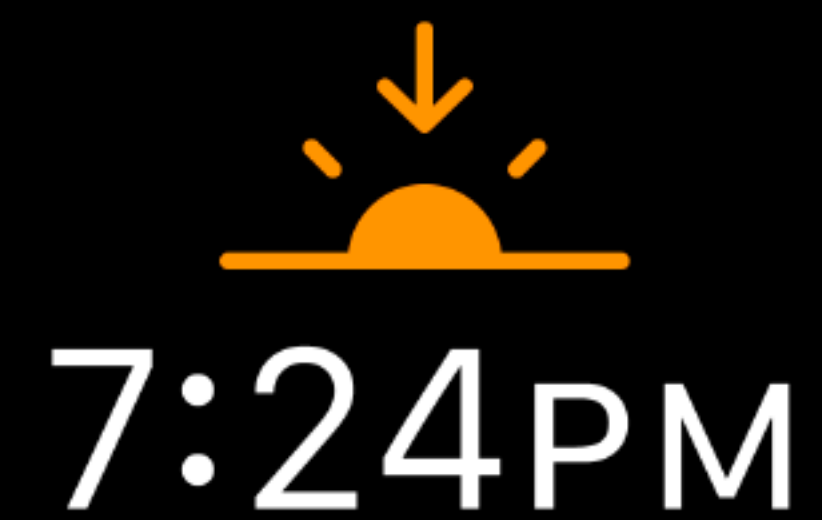
Ring Image



Ring Text



Simple



Stack

# Extra Large Complications



Apple Inc.

# watchOS Human Interface Guidelines

- Icons and Images
  - Home Screen Icons
  - Menu Icons
  - Complication Images**
  - Image Optimizations
- Interface Elements
- Watch Technologies
- Resources

## Complication Images

When designing the images for your complication's content, create your images as template images and size them according to the complication templates you plan to use. Template images use only the alpha channel of the image to define their shape. Prior to display, an app-supplied tint color is applied to the shape to create its final appearance.

The following table lists the dimensions to use for images. When only one value is specified, that value applies to both the width and height of the image. Sizes are specified as the maximum values for each dimension.

Family	Template	38mm	42mm
<b>Circular small</b>	<b>Ring</b>	40px	44px
	<b>Simple</b>	56px	64px
	<b>Stack</b>	32px (max) by 14px	34px (max) by 16px
<b>Modular small</b>	<b>Ring</b>	36px	38px
	<b>Simple</b>	52px	58px
	<b>Stack</b>	52px (max) by 28px	58px (max) by 30px
<b>Modular large</b>	<b>Columns</b>	22-64px by 22px	24-74px by 24px
	<b>Standard body</b>	22-64px by 22px	24-74px by 24px
	<b>Table</b>	22-64px by 22px	24-74px by 24px
<b>Utilitarian large</b>	<b>Flat</b>	18-42px by 18px	20-44px by 20px
<b>Utilitarian small</b>	<b>Flat</b>	18-42px by 18px	20-44px by 20px
	<b>Ring</b>	28px	28px
	<b>Square</b>	46px	50px
<b>Extra Large</b>	<b>Ring</b>	126px	133px
	<b>Simple</b>	156px	174px
	<b>Stack</b>	156px (max) by 84px	174px (max) by 90px







Placeholder Data



No Placeholder Data



WED 15 10:09

CAL 420/500  
MIN 57/30  
HOUR 11/12





WED

15

10:09

CAL 420/500

MIN 57/30

HOUR 11/12



0%





WED  
15

10:09

CAL 420/500  
MIN 57/30  
HOUR 11/12



0%







WED  
15

10:09

CAL 420/500  
MIN 57/30  
HOUR 11/12



0%





WED

15

10:09

73° So Sunny

H: 82° L: 51°, sunny  
in a bit.



0%





WED  
15

10:09

73° So Sunny

H: 82° L: 51°, sunny  
in a bit.



0%





WED

15

10:09

73° So Sunny

H: 82° L: 51°, sunny  
in a bit.



0%

















WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 AAPL  
100.34 



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 AAPL  
100.34 



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 AAPL  
100.34 



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 AAPL  
100.34 







Things We Do

# Things We Do

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Work

Sleep



# Things We Do

Work

Eat

Sleep

Hang out

Party

Hike

Exercise dogs

Work out

Coach kids

Travel

Shop for clothes

Visit museums

Picnic

Take scenic drives

Repair house

Garden

Commute

Play music

Cook meals

Shop for groceries

Take photos

Play sports

Ride bike

Ski

Golf

Chill

And much more...



Complication



Notification



App



Complication



Notification



App

Glanceable















# Glanceable Notifications

Provide a meaningful title





# Glanceable Notifications

Provide a meaningful title

Only show what's necessary



10:09



FLIGHT APP

Check In Now

Passenger name

Johnny Appleseed

Flight: 20

Airbus 320

Seat 12F

SFO - JFK

Depart: 9:00am



10:09

FLIGHT APP

Check In Now

Passenger name

Johnny Appleseed

Flight: 20

Airbus 320

Seat 12F

SFO - JFK

Depart: 9:00am

Boards: 8:20am

Gate: A102

Res: KRSMP5

Class: Coach (Y)

No Smoking





10:09

FLIGHT APP

Check In Now

Passenger name  
Johnny Appleseed

Flight: 20

Airbus 320

Seat 12F

SFO - JFK

Depart: 9:00am

Boards: 8:20am

Gate: A102

Res: KRSMP5

Class: Coach (Y)

No Smoking



10:09

FLIGHT APP

Check In Now  
Flight: 20  
Seat 12F  
SFO - JFK  
Depart: 9:00am  
Boards: 8:20am  
Gate: A102  
Res: KRSMPS  
Class: Coach (Y)



10:09



FLIGHT APP

Check In Now

Flight: 20

Seat 12F

SFO - JFK

Depart: 9:00am

Boards: 8:20am

Gate: A102

Res: KRSMPS

# Glanceable Notifications

Provide a meaningful title

Only show what's necessary

Present important information first





## FLIGHT APP

Check In Now  
Flight: 20  
Seat 12F  
SFO - JFK  
Depart: 9:00am  
Boards: 8:20am  
Gate: A102  
Res: KRSMPS  
Class: Coach (Y)



## FLIGHT APP

Check In Now  
Seat 12F  
Class: Coach (Y)  
SFO - JFK  
Depart: 9:00am  
Flight: 20  
Gate: A102  
Boards: 8:20am  
Res: KRSMPS



## FLIGHT APP

Check In Now

**Flight: 20**

Seat 12F

SFO - JFK

Depart: 9:00am

**Boards: 8:20am**

Gate: A102

Res: KRSMPS

Class: Coach (Y)



## FLIGHT APP

Check In Now

Seat 12F

Class: Coach (Y)

SFO - JFK

Depart: 9:00am

**Flight: 20**

Gate: A102

**Boards: 8:20am**

Res: KRSMPS

# Glanceable Notifications

Provide a meaningful title

Only show what's necessary

Present important information first

Establish visual hierarchy



10:09



FLIGHT APP

Check In Now  
Seat 12F  
Class: Coach (Y)  
SFO - JFK  
Depart: 9:00am  
Flight: 20  
Boards: 8:20am  
Gate: A102





10:09



FLIGHT APP

**Check In Now**

Economy SFO → JFK

**12F**

**9:00AM**

Flight 20 Gate A102

Boards 8:20AM

Reservation: KRSMPS

# Glanceable Notifications

Provide a meaningful title

Only show what's necessary

Present important information first

Establish visual hierarchy

Use color, graphics and animation



10:09



FLIGHT APP

**Flight 20**  
Departing



**9:00AM (On Time)**  
Boards 8:20AM

**Gate A102**  
Terminal A







10:09



FLIGHT APP

**Flight 20**  
Departing



**9:00AM (On Time)**  
Boards 8:20PM

**Gate A102**  
Terminal A



10:09



TIDE O'CLOCK



↑ 5.85'  
12:37AM

↑ 4.04'  
2:54PM

↓ 1.50'  
10:09AM

↓ 2.47'  
7:39PM

Why and When







Why and When

# Relevance and Timing







# Contextual Relevance

Timing

Actionable



# Preferences and Patterns





**CORE WORKOUT**



**REHEARSE  
PRESENTATION**



**PRACTICE GUITAR**



**BE AWESOME**



**WALK THE DOG**



**REFILL WATER  
BOWL**





**CORE WORKOUT**



**REHEARSE  
PRESENTATION**



**PRACTICE GUITAR**



**BE AWESOME**



**WALK THE DOG**



**REFILL WATER  
BOWL**







**CORE WORKOUT**



**REHEARSE  
PRESENTATION**



**PRACTICE GUITAR**



**BE AWESOME**



**WALK THE DOG**



**REFILL WATER  
BOWL**





**CORE WORKOUT**



**REHEARSE  
PRESENTATION**



**PRACTICE GUITAR**



**BE AWESOME**



**WALK THE DOG**



**REFILL WATER  
BOWL**







**CORE WORKOUT**



**REHEARSE  
PRESENTATION**



**PRACTICE GUITAR**



**BE AWESOME**



**WALK THE DOG**



**REFILL WATER  
BOWL**





10:09



STREAKS

Reminder



WALK THE DOG

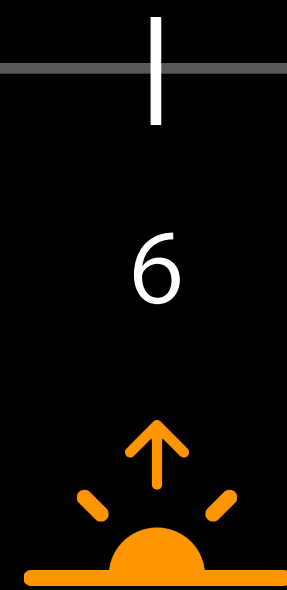






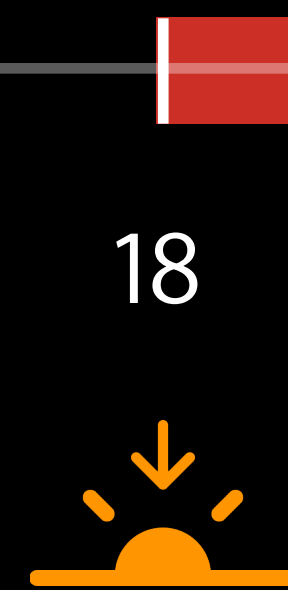


0



6

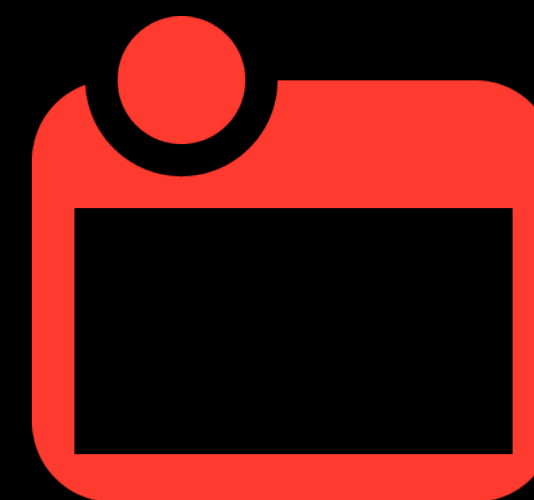
12



18



24



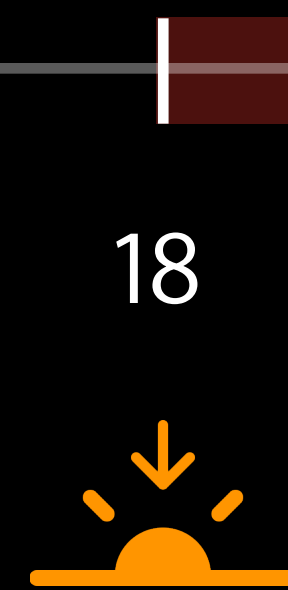


0



6

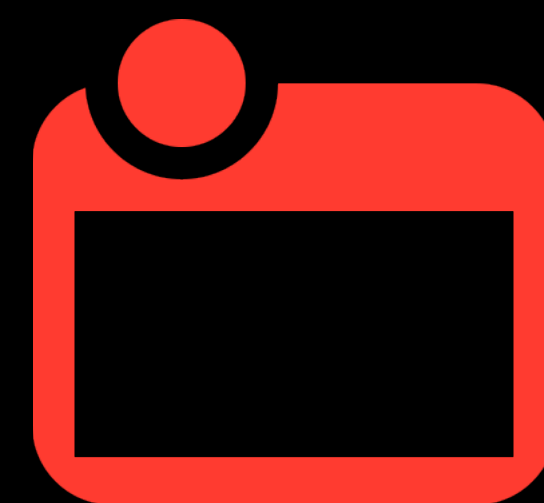
12



18



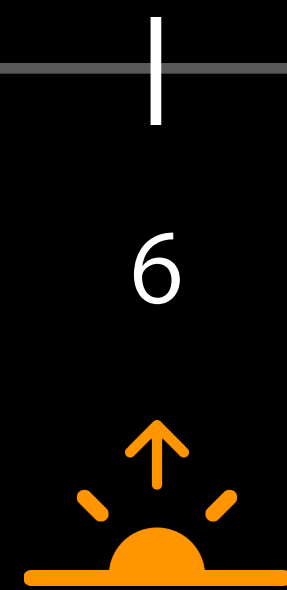
24





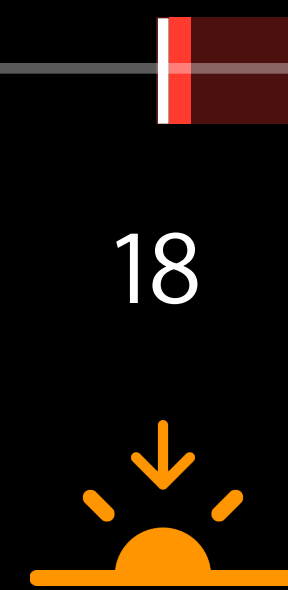


0



6

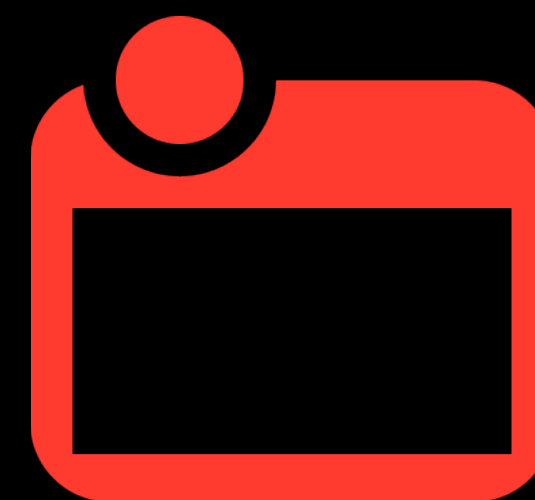
12

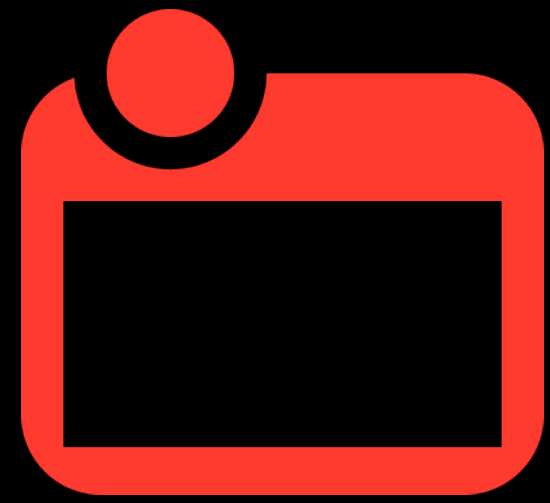


18



24





18



19



20



21



22



23



24





18

19

20

21

22

23

24





10:09



2

PRACTICE GUITAR





18



19



20



21



22



23



24





18



19

20

21



22

23

24



18



19

20

21



22

23

24





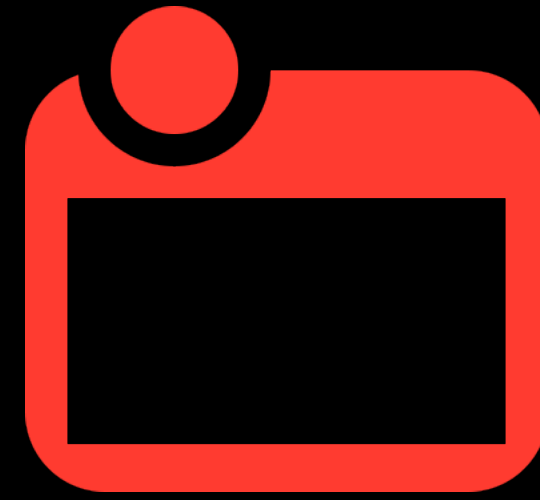
18



19

20

21



22

23

24



18



19

20



21



22

23

24





10:09 AM

100%



# Notifications

REMINDERS:

NONE

SINGLE DAILY REMINDER

REMINDER FOR EACH TASK



**CORE WORKOUT**

7:05 AM



**REHEARSE PRESENTATION**

3:00 PM



**PRACTICE GUITAR**

Automatic Time



**BE AWESOME**

No Reminder



**WALK THE DOG**

6:30 AM



**REFILL WATER BOWL**

7:10 AM



**SNOOZE DURATION**

30 min



10:09 AM

100%



## Notifications

REMINDERS:

NONE

SINGLE DAILY REMINDER

REMINDER FOR EACH TASK



**CORE WORKOUT**

7:05 AM



**REHEARSE PRESENTATION**

3:00 PM



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7:10 AM



**SNOOZE DURATION**

30 min





10:09 AM

100%



## Notifications

**SHOW COUNTDOWN BADGE ON APP**



The number of remaining tasks is shown on the Streaks app icon.

**HEALTH TASK NOTIFICATION**



A notification is shown when you complete a task linked to the Health app.

REMINDERS:

**NONE**

**SINGLE DAILY REMINDER**



**REMINDER FOR EACH TASK**



10:09 AM

100%



## Notifications

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The number of remaining tasks is shown on the Streaks app icon.

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REMINDERS:

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REMINDER FOR EACH TASK



10:09 AM

100%



## Notifications

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REMINDERS:

**NONE**



**SINGLE DAILY REMINDER**

**REMINDER FOR EACH TASK**



10:09 AM

100%



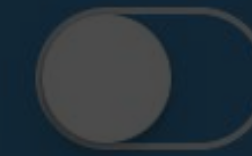
## Notifications

**SHOW COUNTDOWN BADGE ON APP**



The number of remaining tasks is shown on the Streaks app icon.

**♥ HEALTH TASK NOTIFICATION**



A notification is shown when you complete a task linked to the Health app.

REMINDERS:

**NONE**



**SINGLE DAILY REMINDER**

**REMINDER FOR EACH TASK**





10:09



FLIGHT APP

**Check In Now**

Economy SFO → JFK  
**12F**      **9:00AM**

Flight 20 Gate A102  
Boards 8:20AM  
Reservation: KRSMPS



Flight 20 Gate A102

Boards 8:20AM

Reservation: KRSMP5

Check In

Snooze 1 Hour

Dismiss



Flight 20 Gate A102

Boards 8:20AM

Reservation: KRSMPS

Check In

Snooze 1 Hour

Dismiss

# Notification Actions



# Notification Actions

Only relevant options

# Notification Actions

Only relevant options

Succinct, clear and action-oriented

# Notification Actions

Only relevant options

Succinct, clear and action-oriented

Prioritize one-step actions

# Notification Actions

Only relevant options

Succinct, clear and action-oriented

Prioritize one-step actions

But multi-step actions are OK





Complication



Notification



App



Complication



Notification



App



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 05:47 67°  47MINS

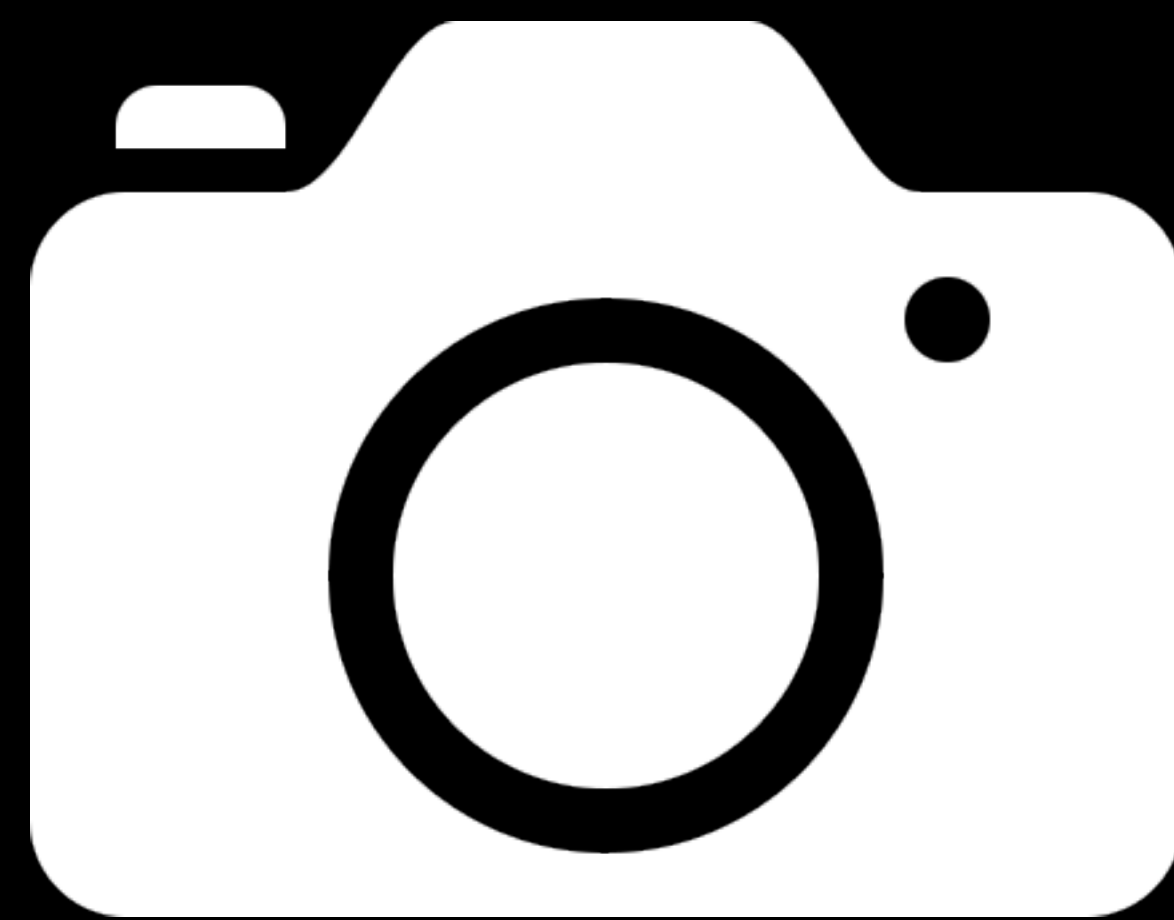


WED  
15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

 05:47 67°  47MINS



















Baseball 19:41

LAD	0	Top 1
SF	0	

NYM	5	Top 1
ATL	2	

DET	0	Bot 2
OAK	4	

MIA	1	
-----	---	--



< LA @ SF

19:41

0  
LAD

0  
SF

Top 1st



B ● ● ● ●  
S ● ● ● ●  
O ● ● ● ●







 Baseball

< LA @ SF 23:55 Ti

<b>7</b>	<b>11</b>
<b>LAD</b>	<b>SF</b>

30-27	36-21
-------	-------

Final



< LA @ SF

23:55

7

11

LAD

SF

30-27

36-21

Final



 Baseball

Sports App 10:09

PIT SF 1:10PM

TEX SEA 1:10PM

CHW OAK 1:35PM

NYY MIA 1:35PM







Baseball

< PIT @ SF 20:22

2 PIT 4 SF

Bot 5th B S O

# Snapshot Best Practices

# Snapshot Best Practices

Anticipate user interests

LAD SF

0:00

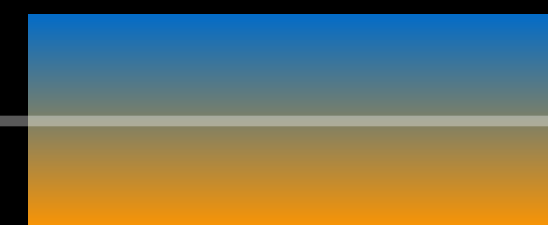
6:00

12:00

18:00

24:00

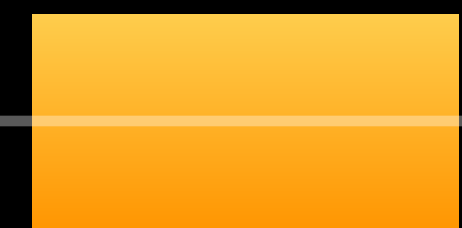
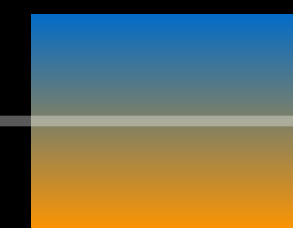
Today





LAD SF

PIT SF



0:00

6:00

12:00

18:00

24:00

6:00

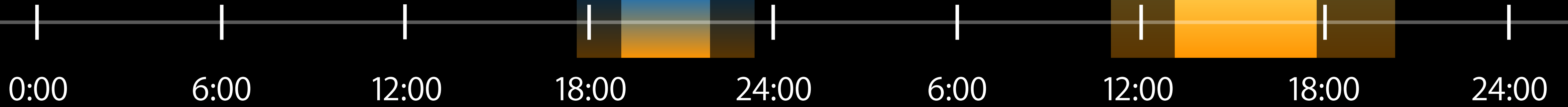
12:00

18:00

24:00

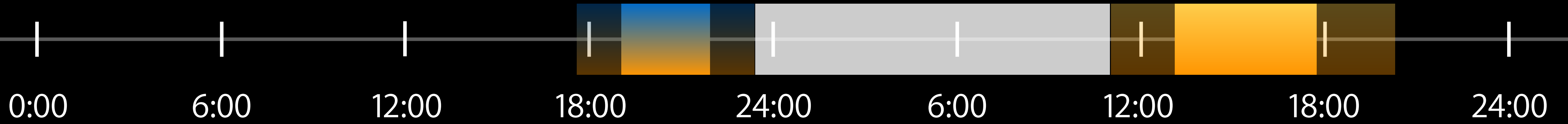
Today

Tomorrow



Today

Tomorrow



Today

Tomorrow

# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

Be logical and predictable



# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

Be logical and predictable

Be recognizable

# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

Be logical and predictable

Be recognizable

Avoid awkward views



# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

Be logical and predictable

Be recognizable

Avoid awkward views

Prepare to get small

SF Compact Regular

watchOS 2

SF Compact Medium

watchOS 3





Baseball

< LA @ SF 20:22

3

LAD

7

SF

Bot 5th



B ● ● ● ●  
S ● ● ●  
O ● ● ●

# Snapshot Best Practices

Anticipate user interests

Account for user preferences and contextual factors

Be logical and predictable

Be recognizable

Avoid awkward views

Prepare to get small

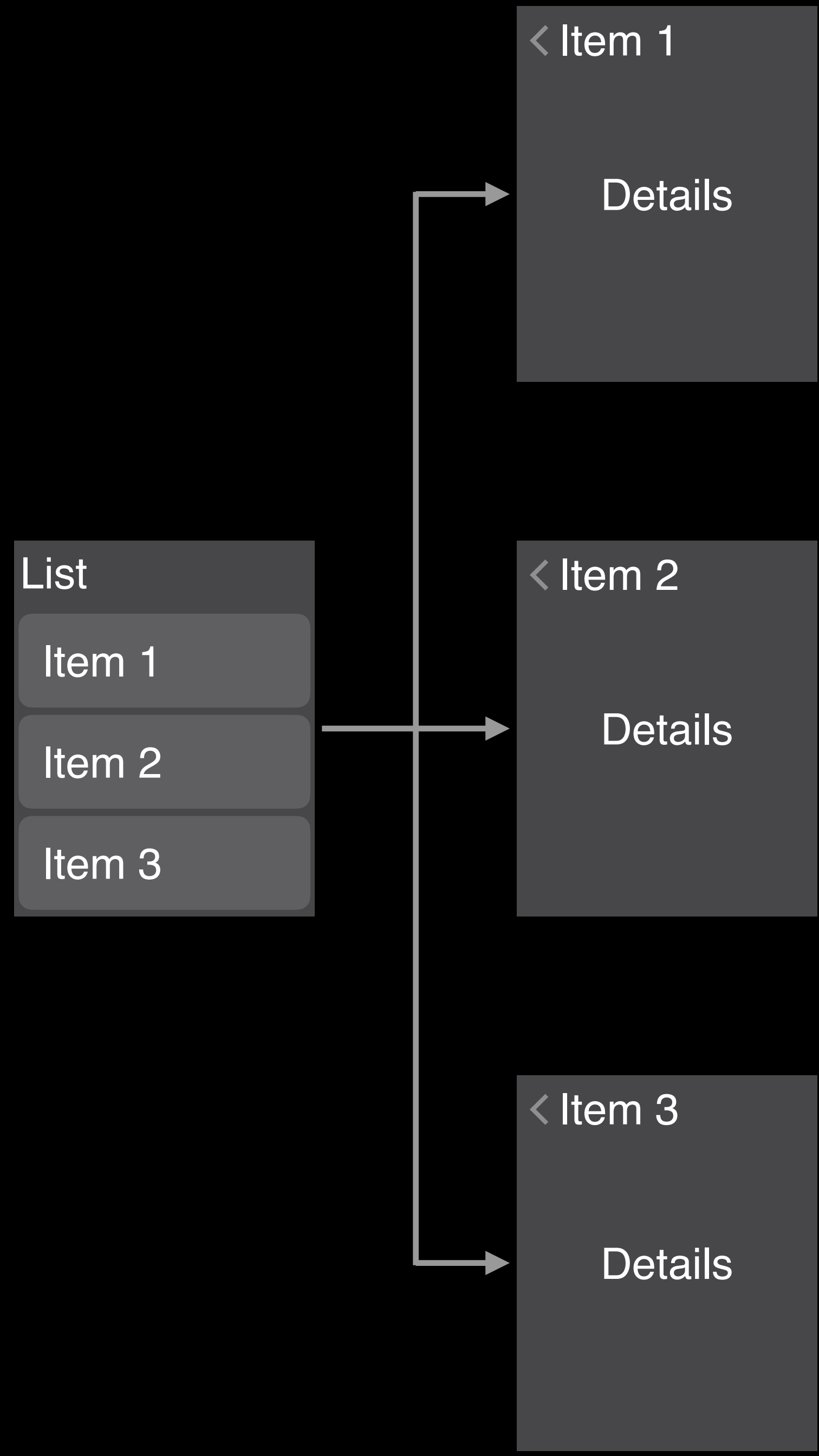
Glances

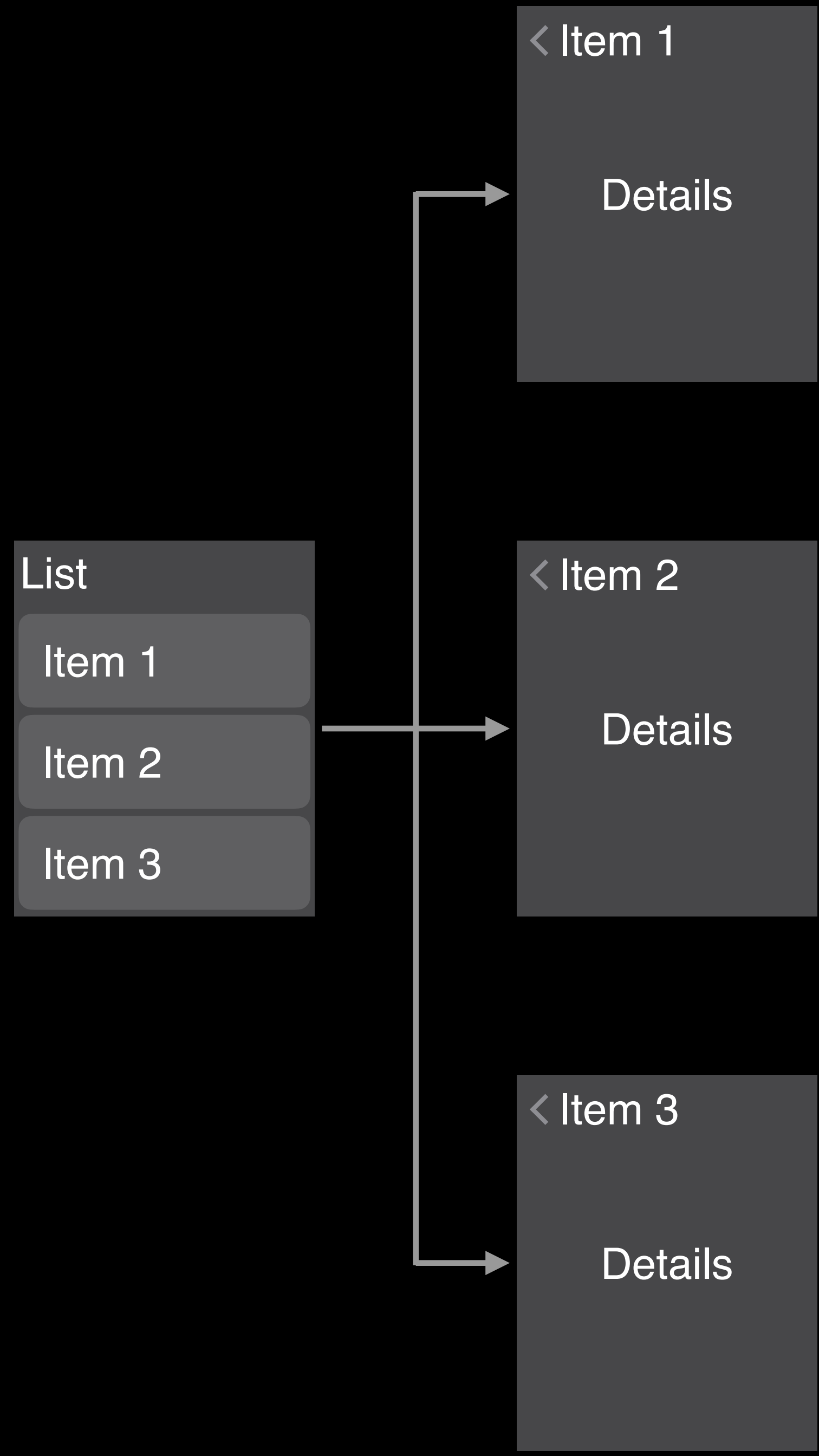


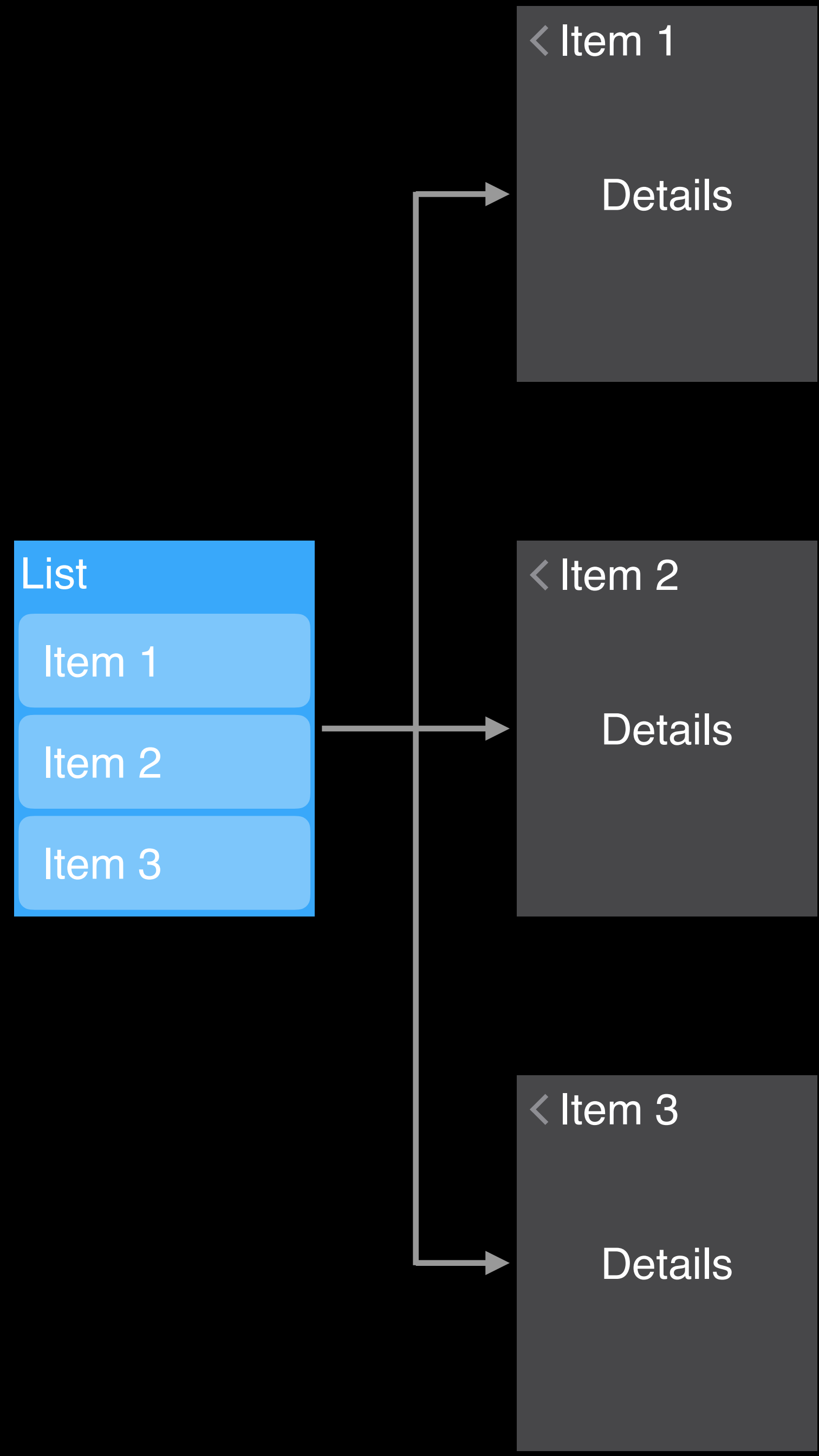




# Simplified Navigation

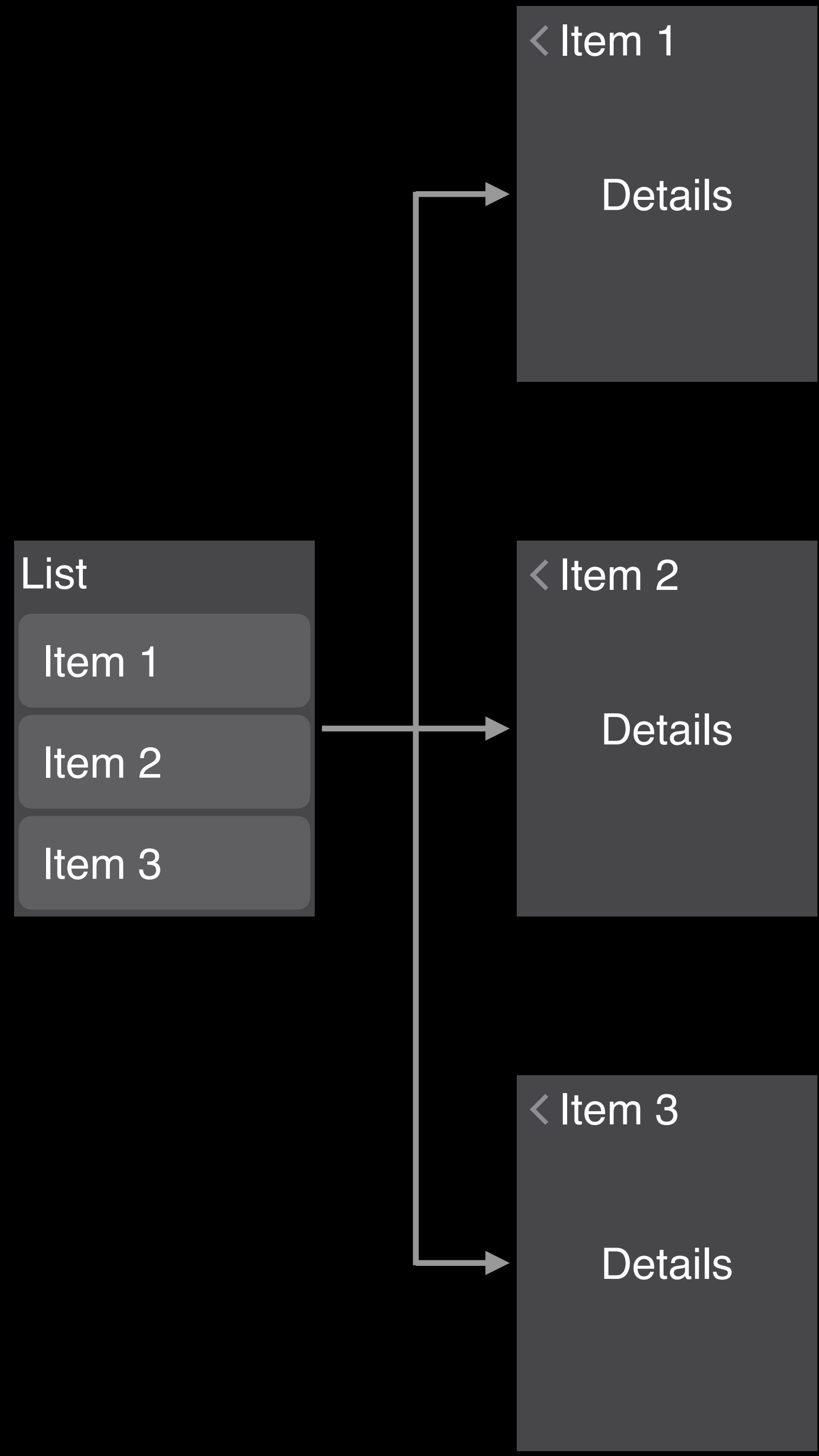


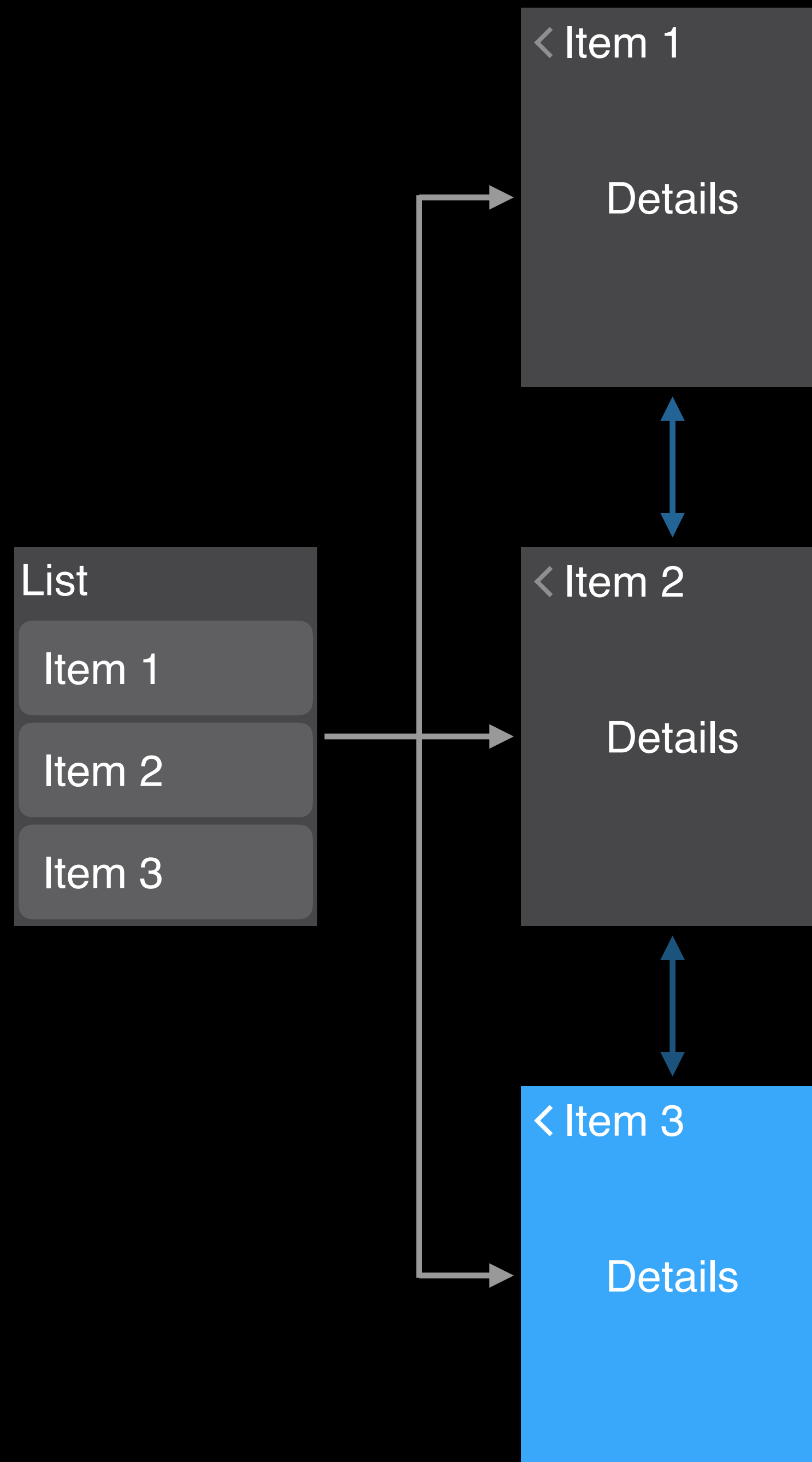










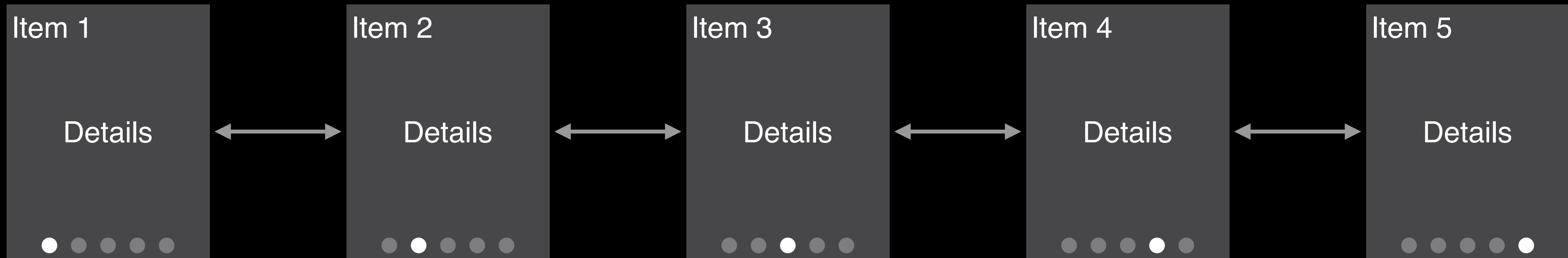












Item 1

Details

Item 2

Details

Item 3

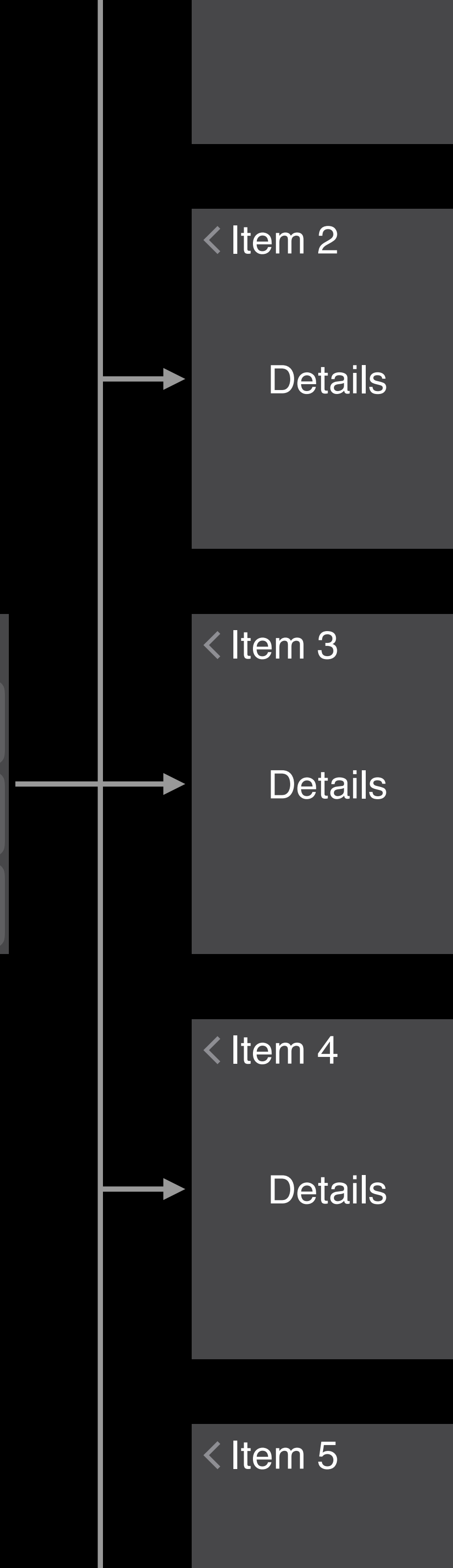
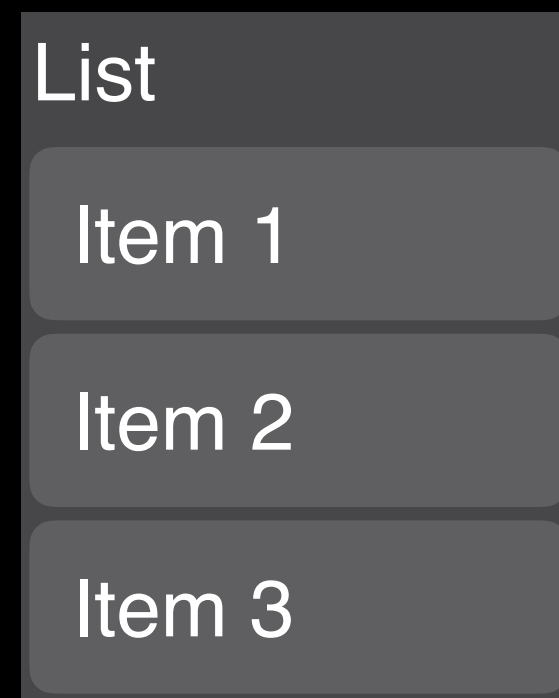
Details

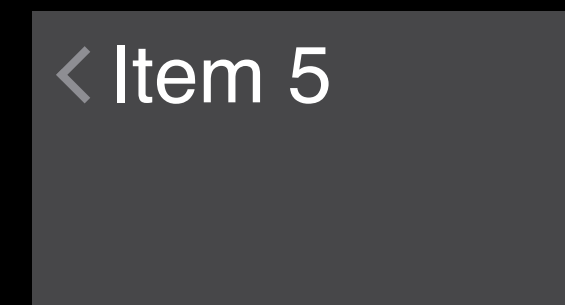
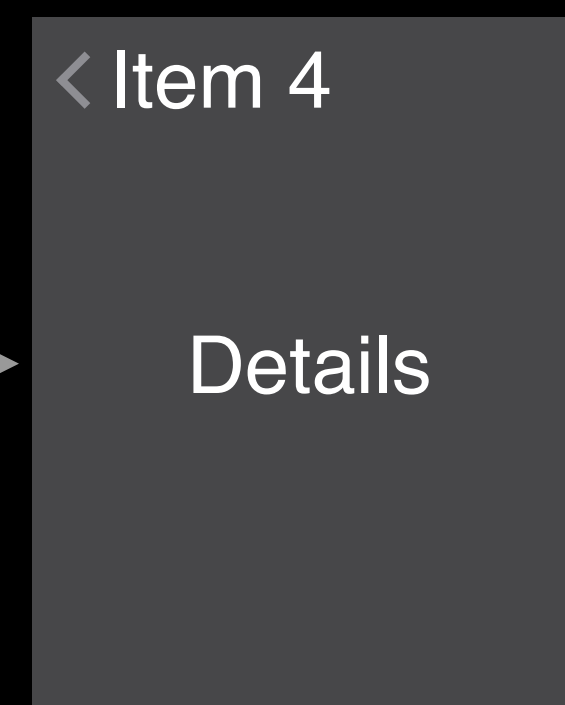
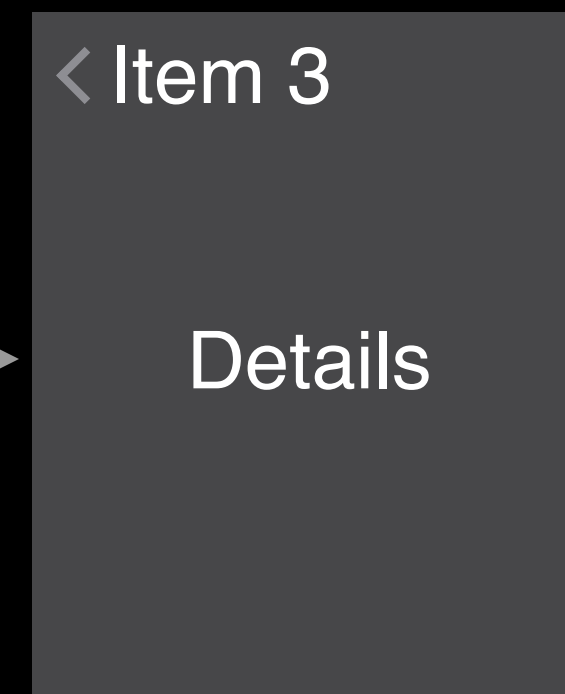
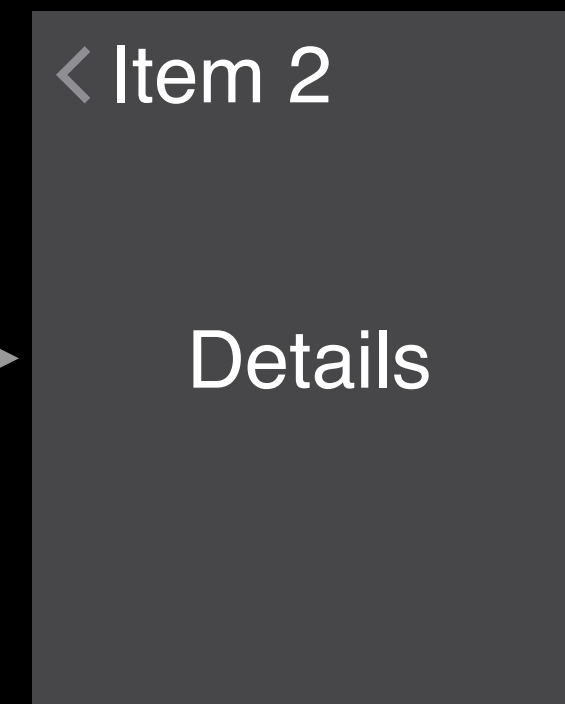
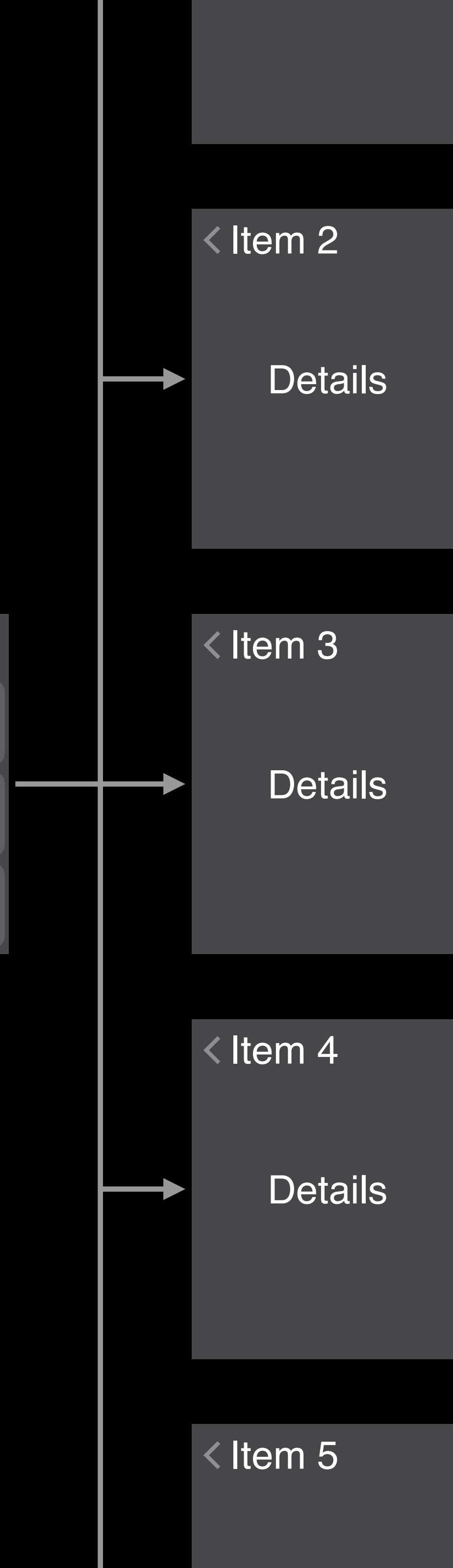
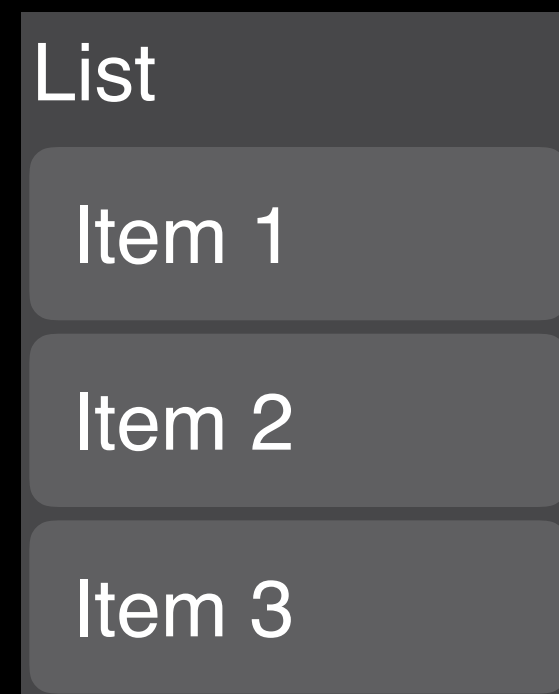
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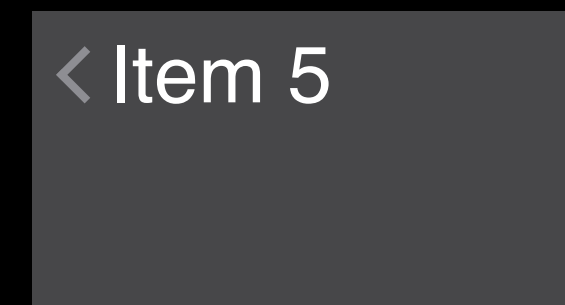
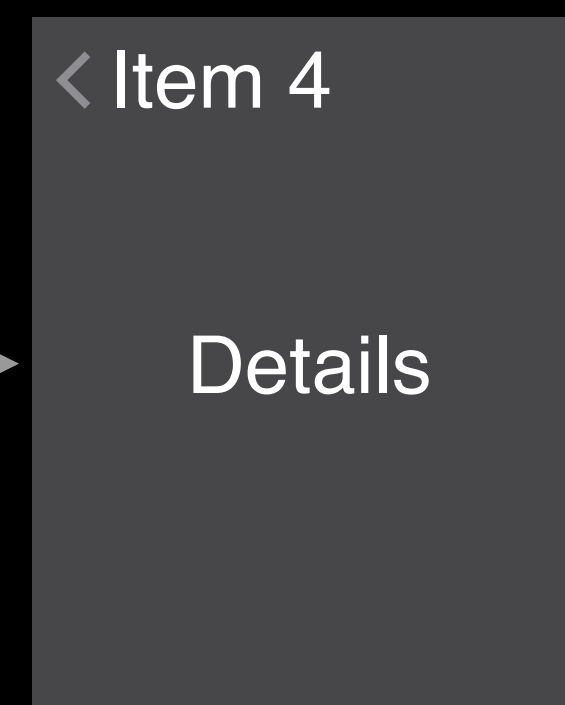
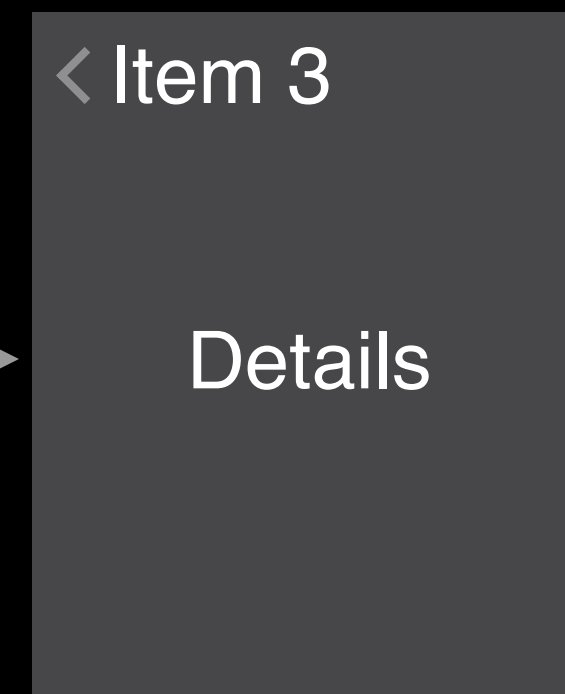
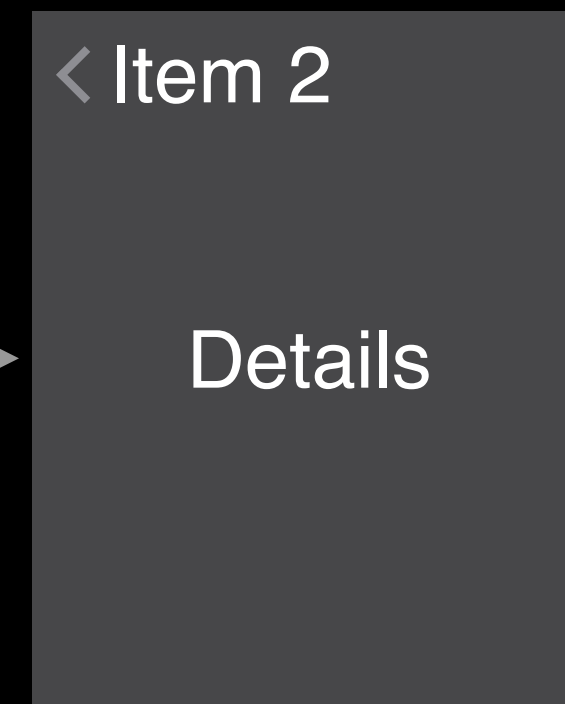
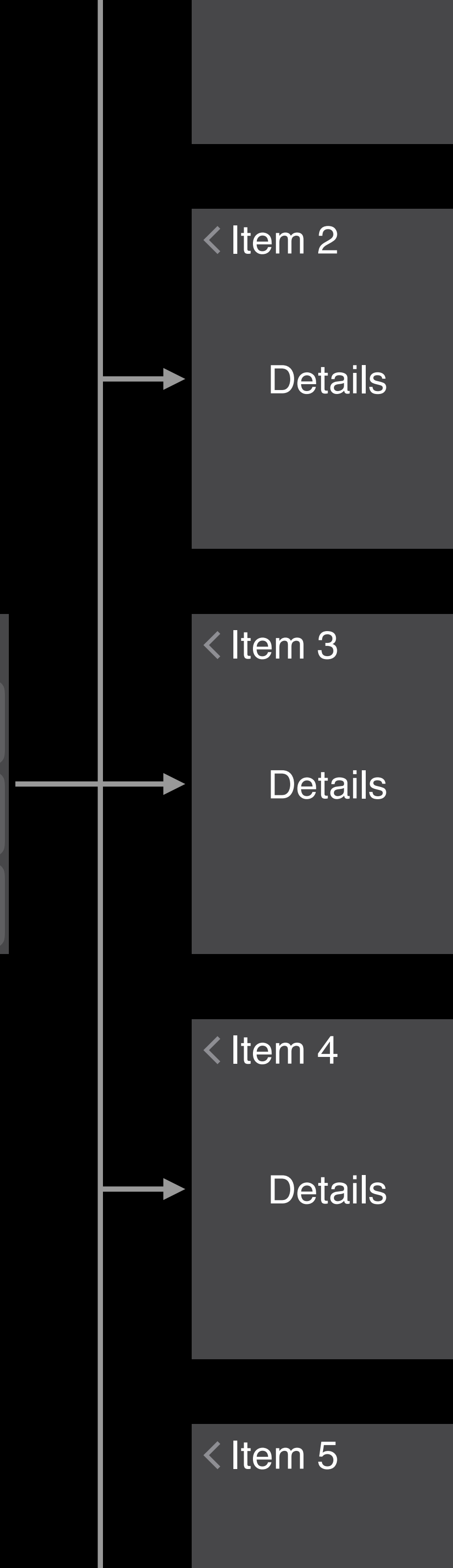
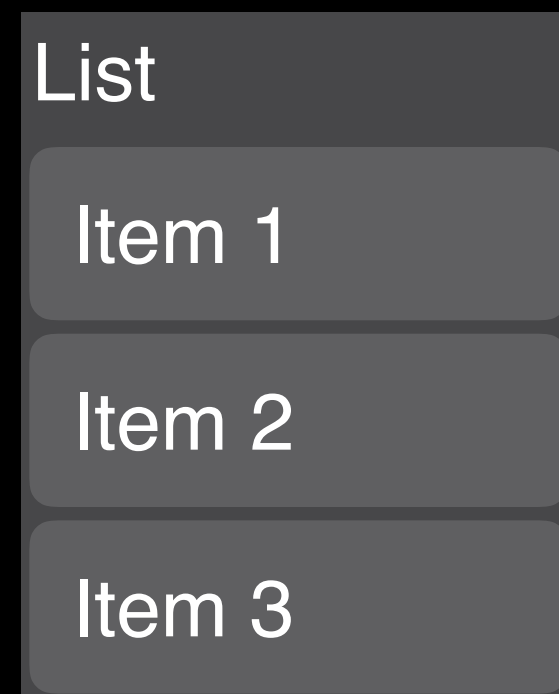
Details

Item 5

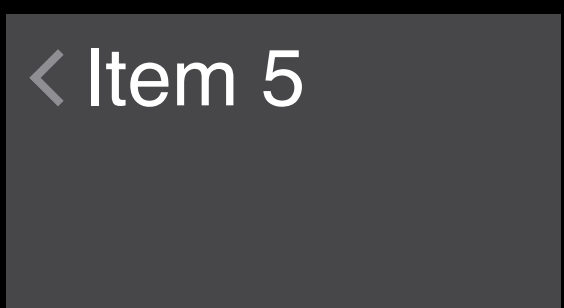
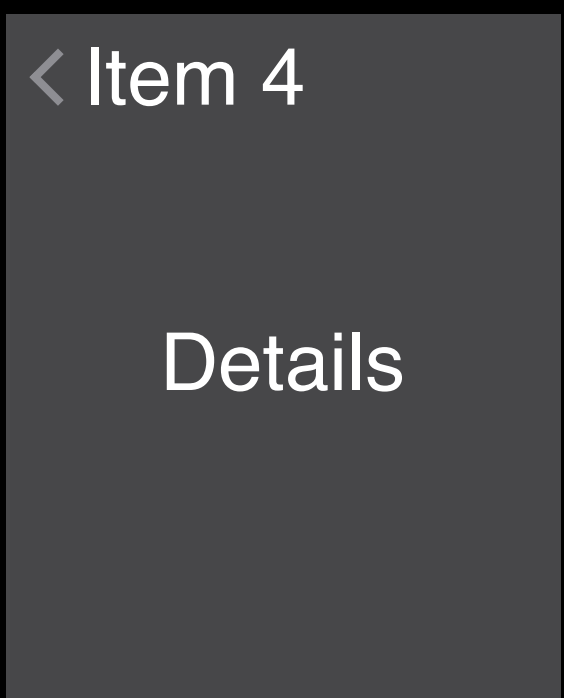
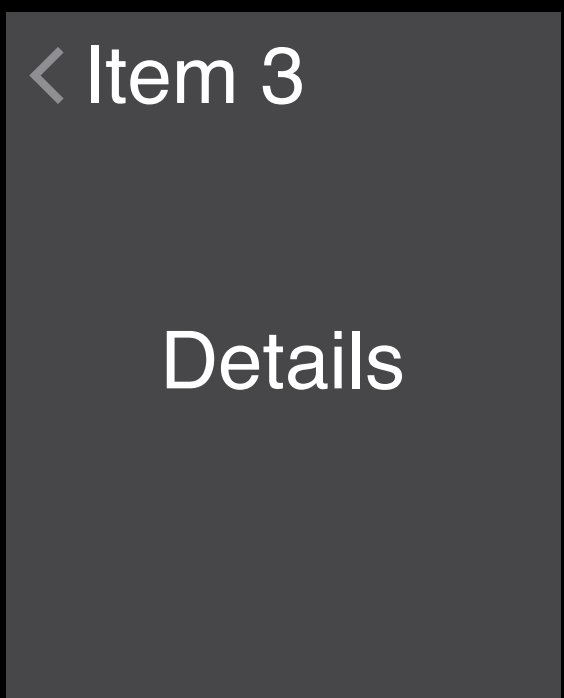
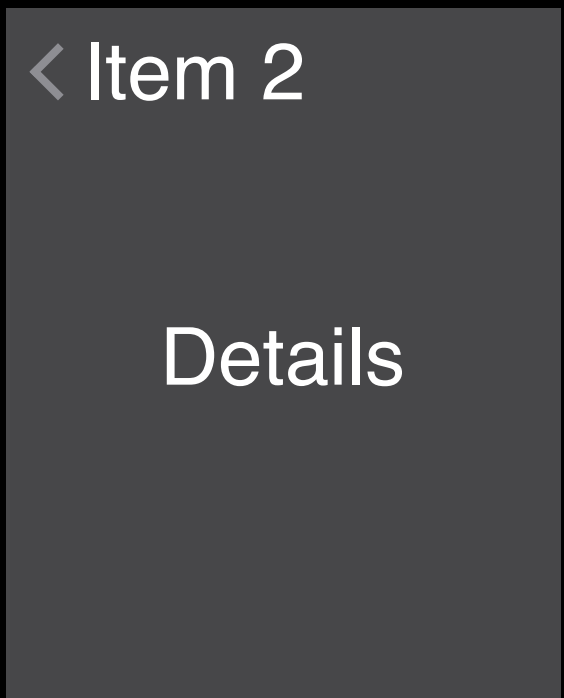
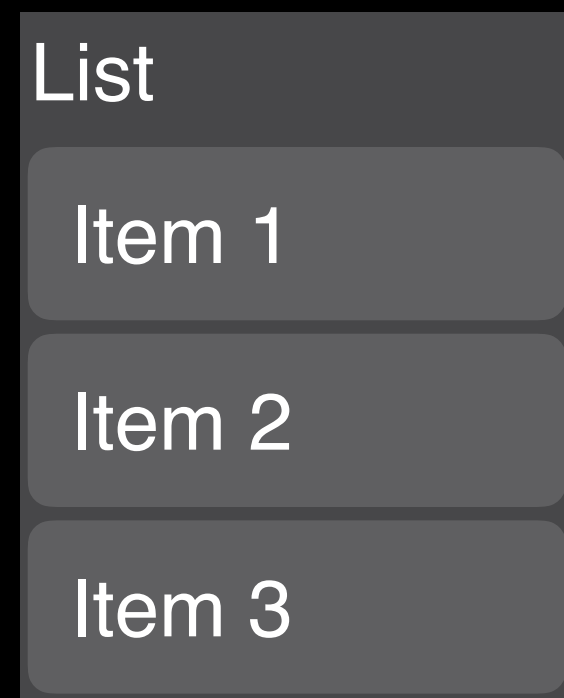
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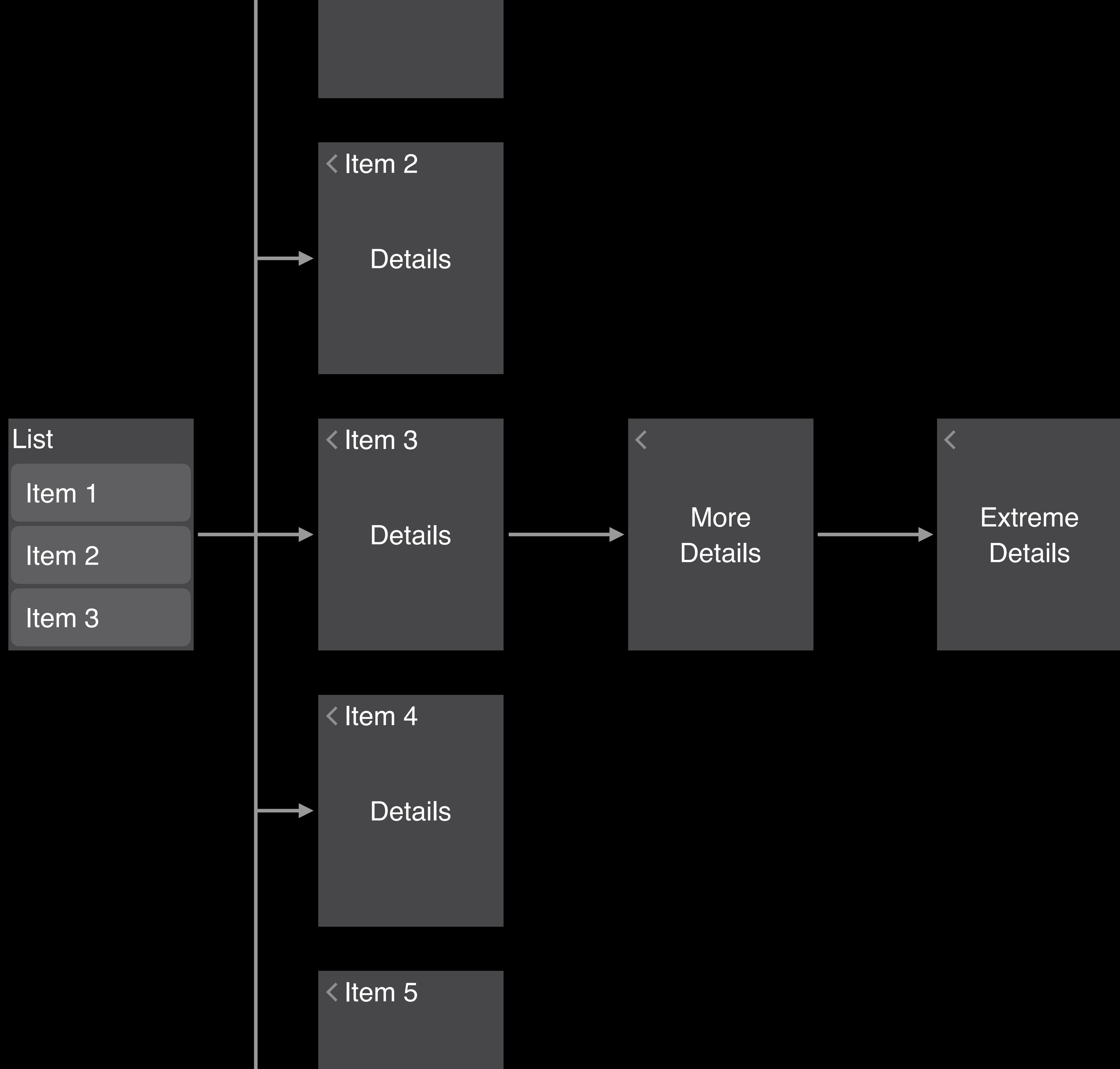


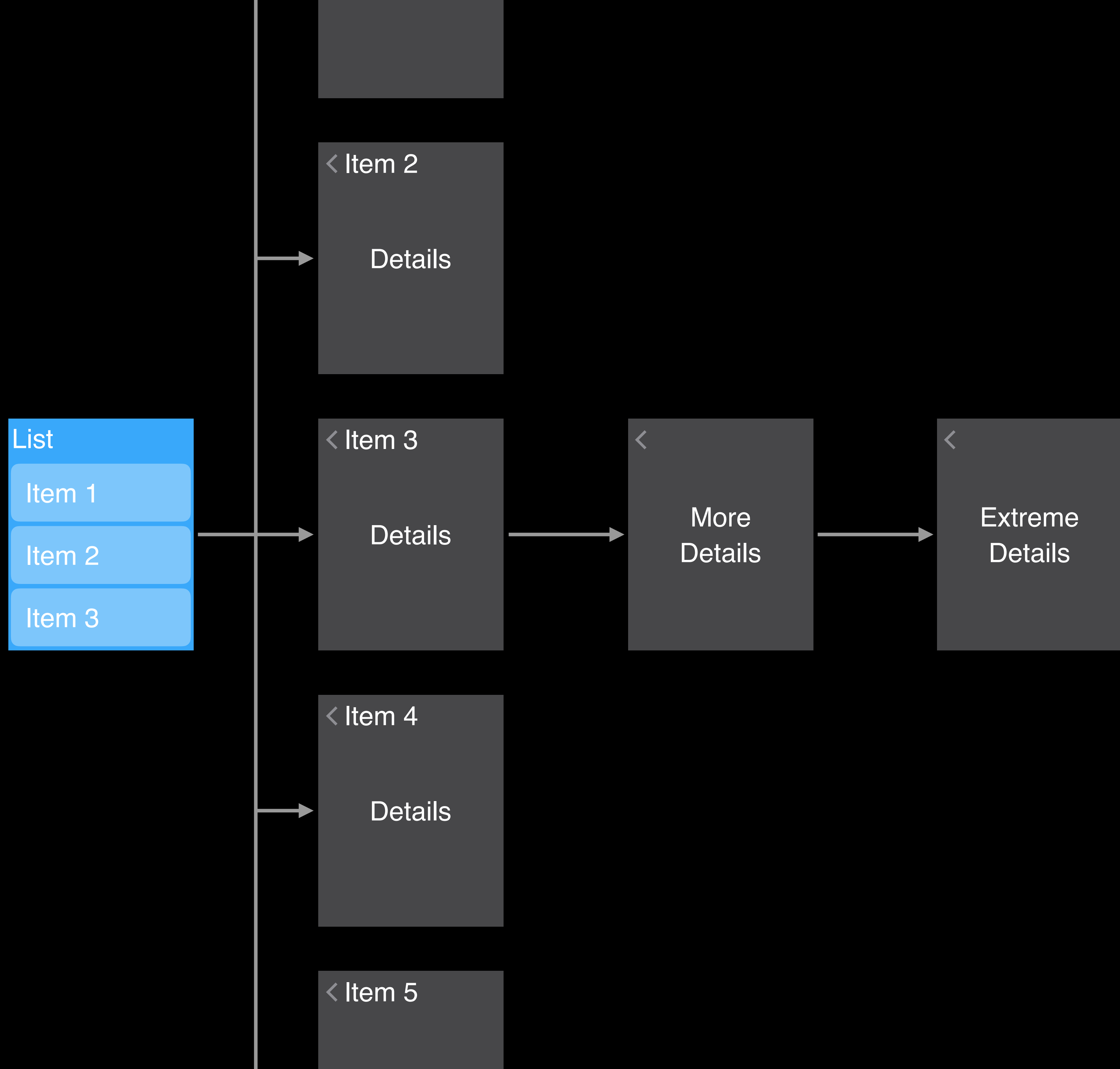














Weather 10:09

↗ San Francis... ☀

72°  
H:70° L:55°

Cupertino ☀

85°  
H:70° L:54°

Jenner ☀

Stickiness





Your  
App



Your  
App



0:01



0:01



ic items throughout the department

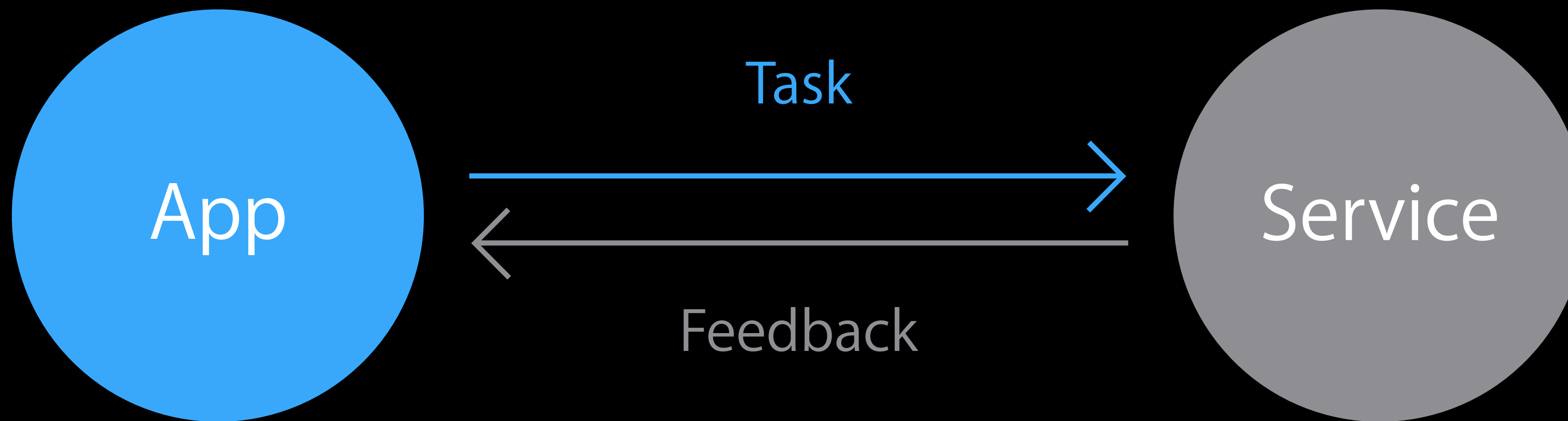


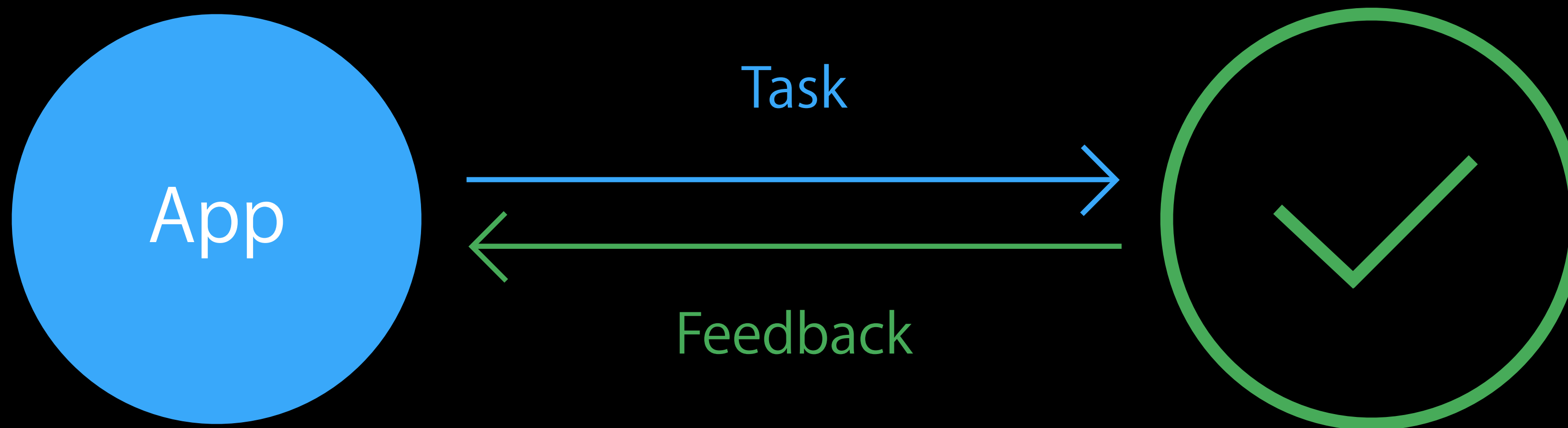


Sessions

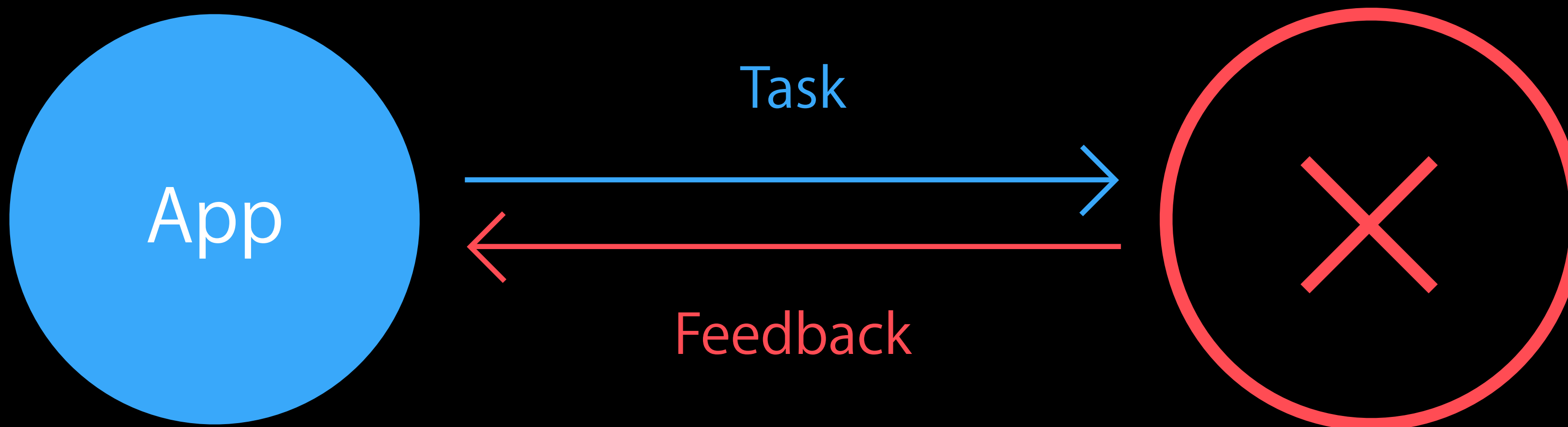
Drop Wrist

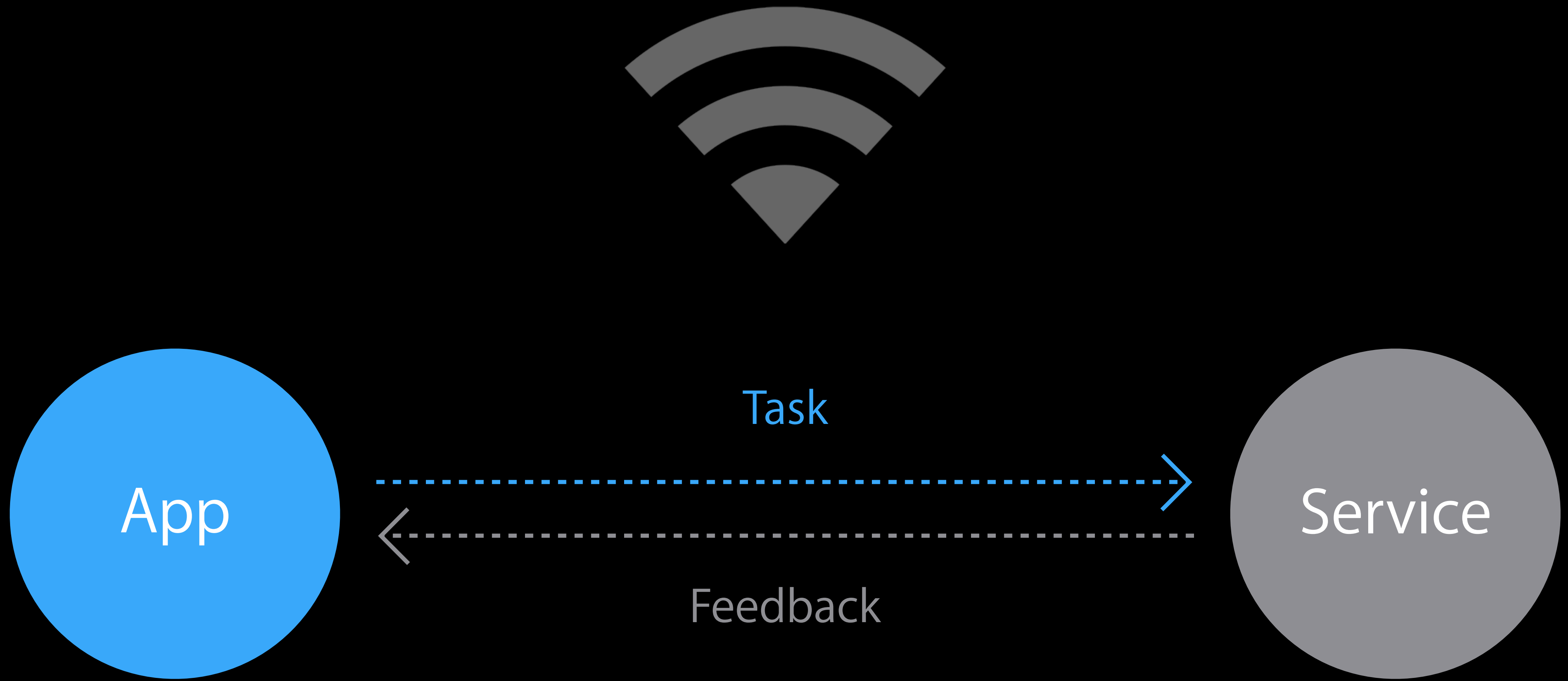










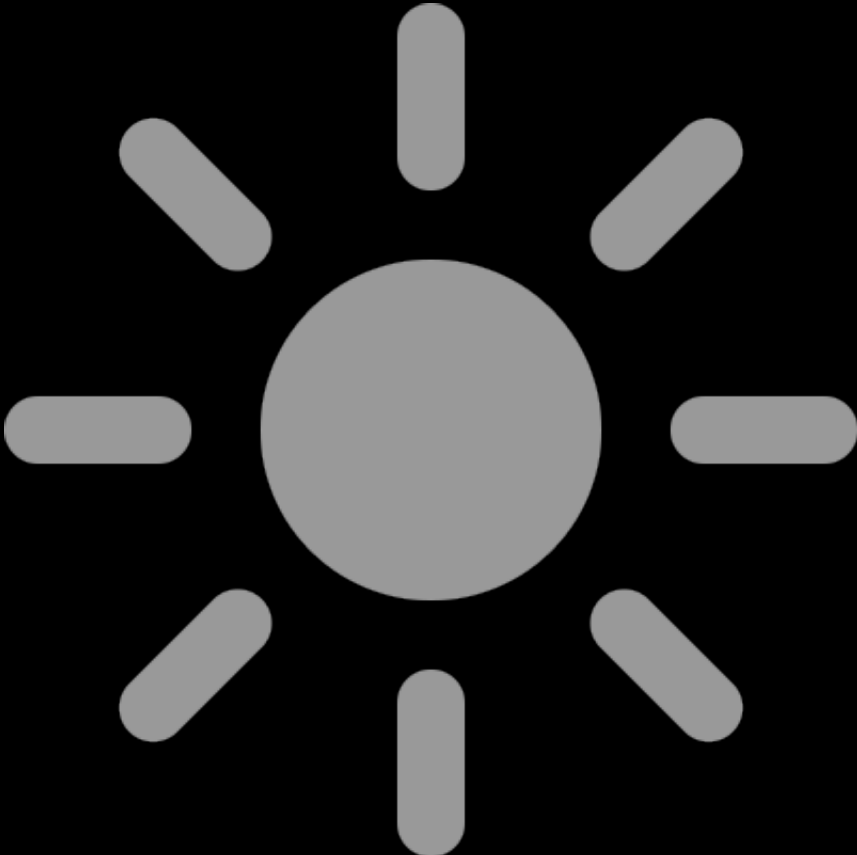


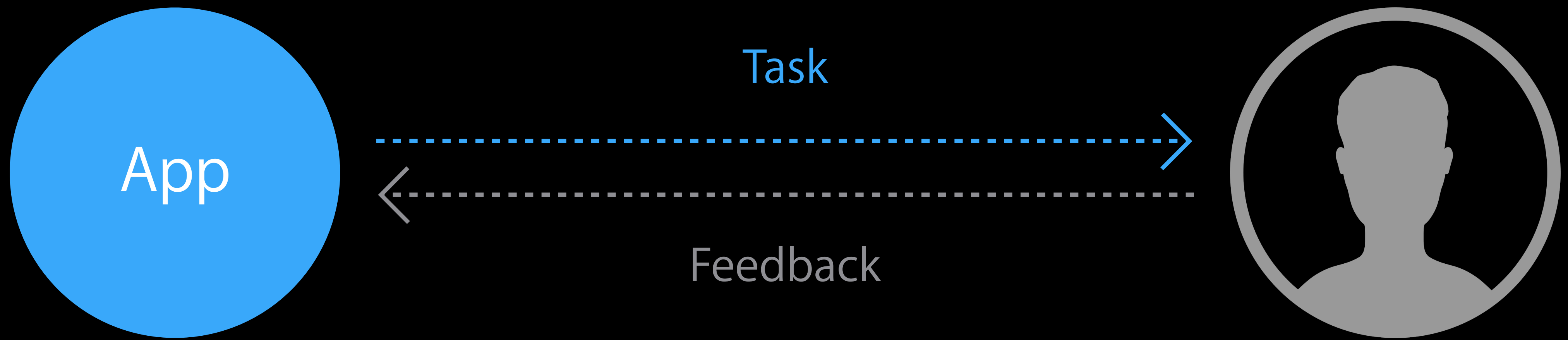


Task



Feedback











# Background Download Task

# Local Notification



< Review 10:09

Estimated Delivery

45MIN

Green Curry  
Japanese Eggplant  
Rice

Place Order







Done

10:09

Order  
Placed

We will notify you  
when your order  
is complete





20:11

FORK+KNIFE

**On our way!**

Dinner will arrive in  
**35-40MIN**

Green Curry  
Japanese Eggplant  
Rice



10:11



FORK+KNIFE

**Nooooooooooooo!**

Restaurant out of  
Green Curry.

:\_ (

Call Restaurant



**Nooooooooooooooooo!**

Restaurant out of  
Green Curry.

:\_(

Call Restaurant

Change Order



Be Trustworthy

Be Honest



Complication



Notification



App



WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS

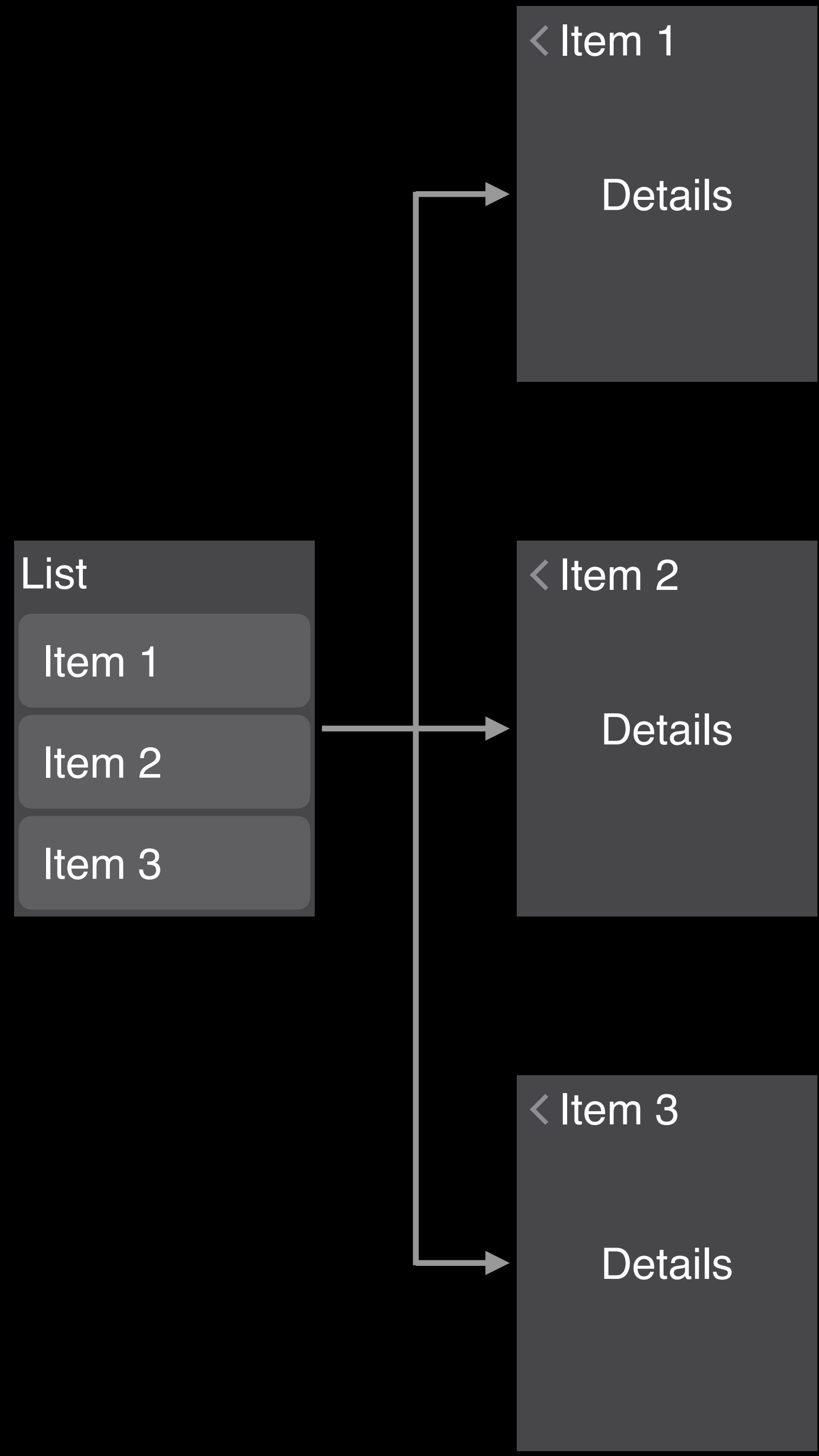


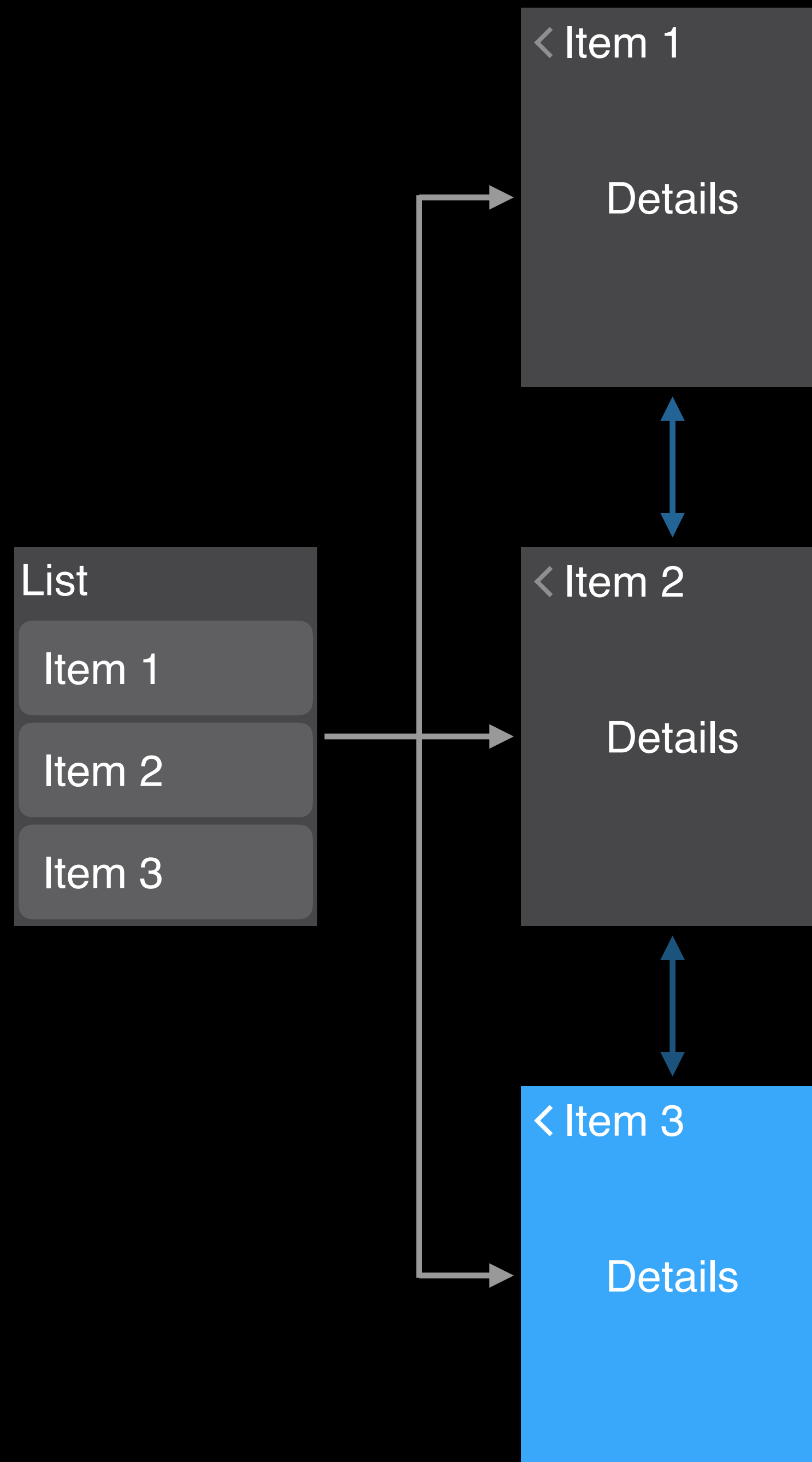
WED 15 10:09

13:40-14:40  
Designing Great  
Apple Watch Exp...

05:47 67° 47MINS













Done

10:09

Order  
Placed

We will notify you  
when your order  
is complete







SpriteKit



SceneKit

# SpriteKit and SceneKit

Render and animate graphics

# SpriteKit and SceneKit

Render and animate graphics

Respond to touch events

# SpriteKit and SceneKit

Render and animate graphics

Respond to touch events

Programmatic animation



# SpriteKit and SceneKit

Render and animate graphics

Respond to touch events

Programmatic animation

Physics simulation



SpriteKit



SceneKit

# Custom Gestures

# Crown Events



# Crown Events



















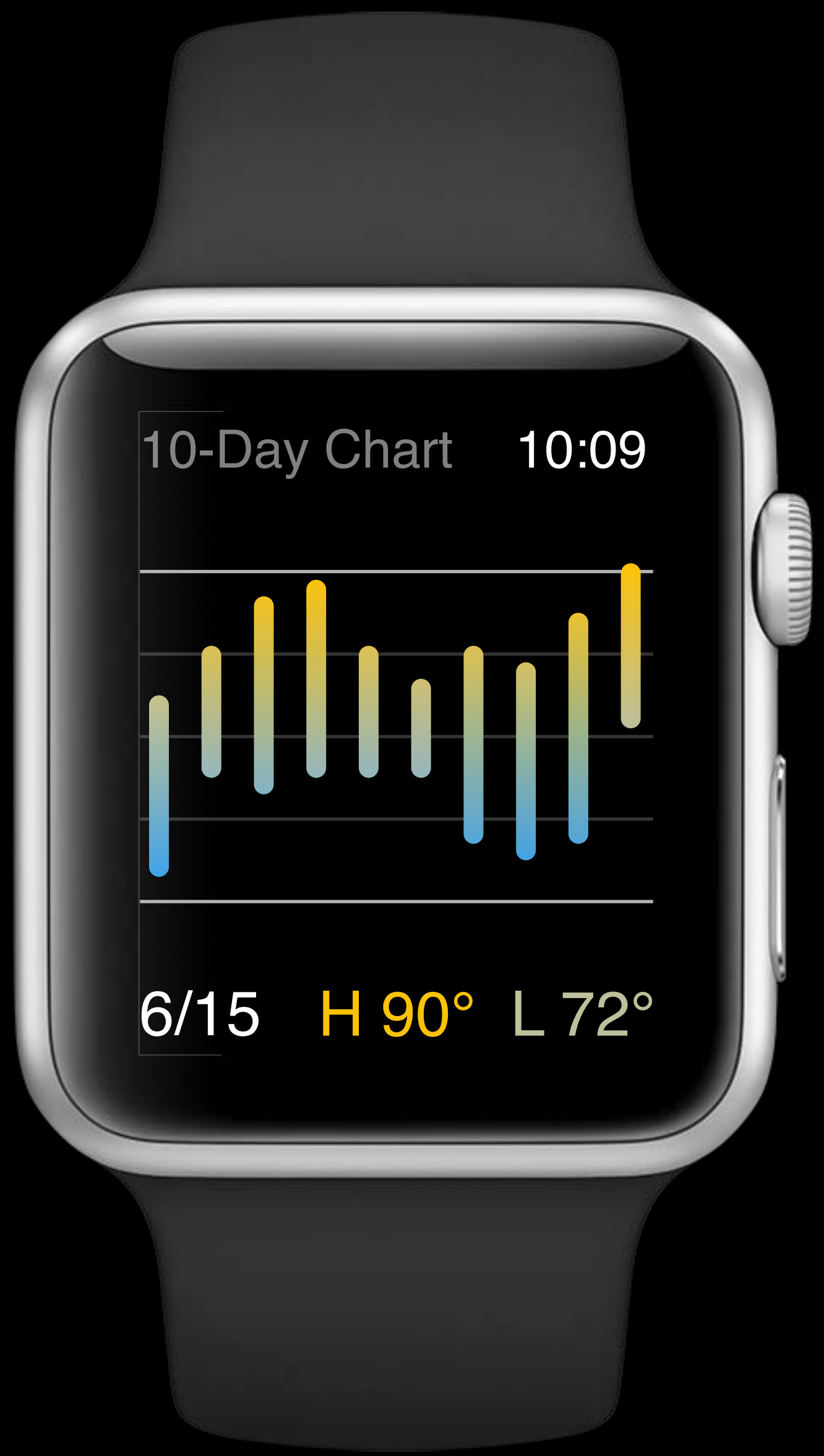






10-Day Chart 10:09

6/15 H 90° L 72°



10-Day Chart 10:09

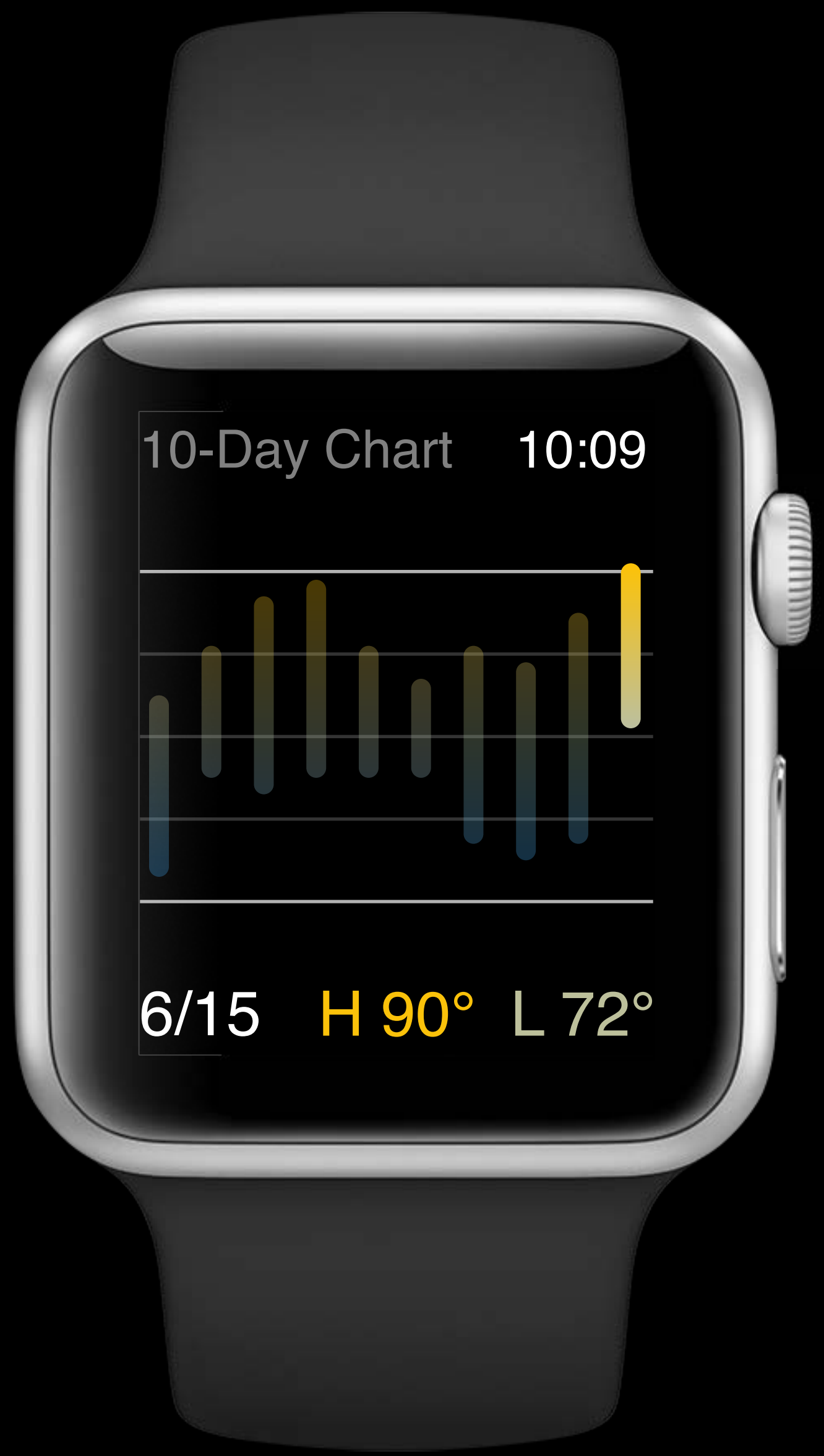
6/15 H 90° L 72°





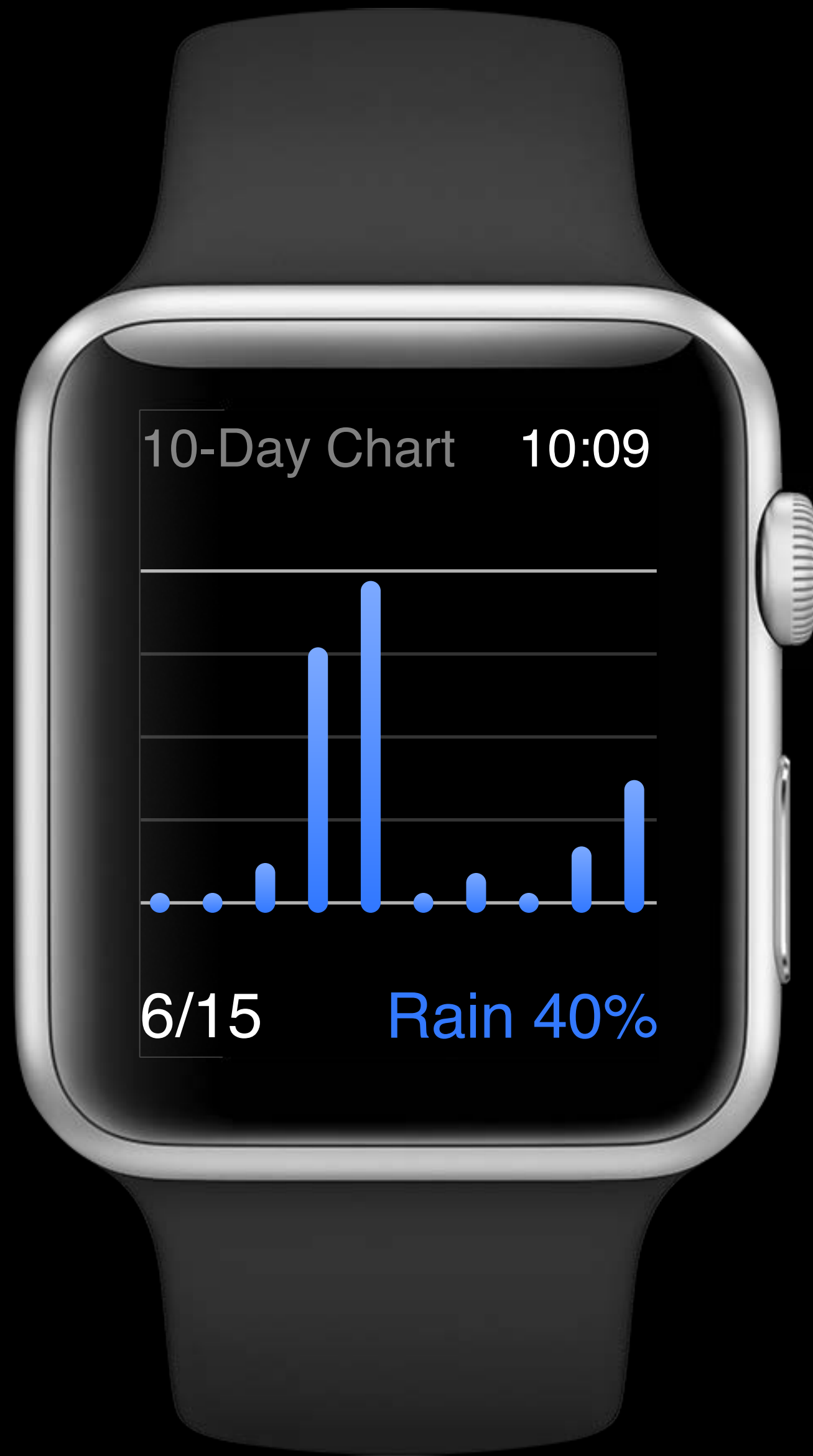
10-Day Chart 10:09

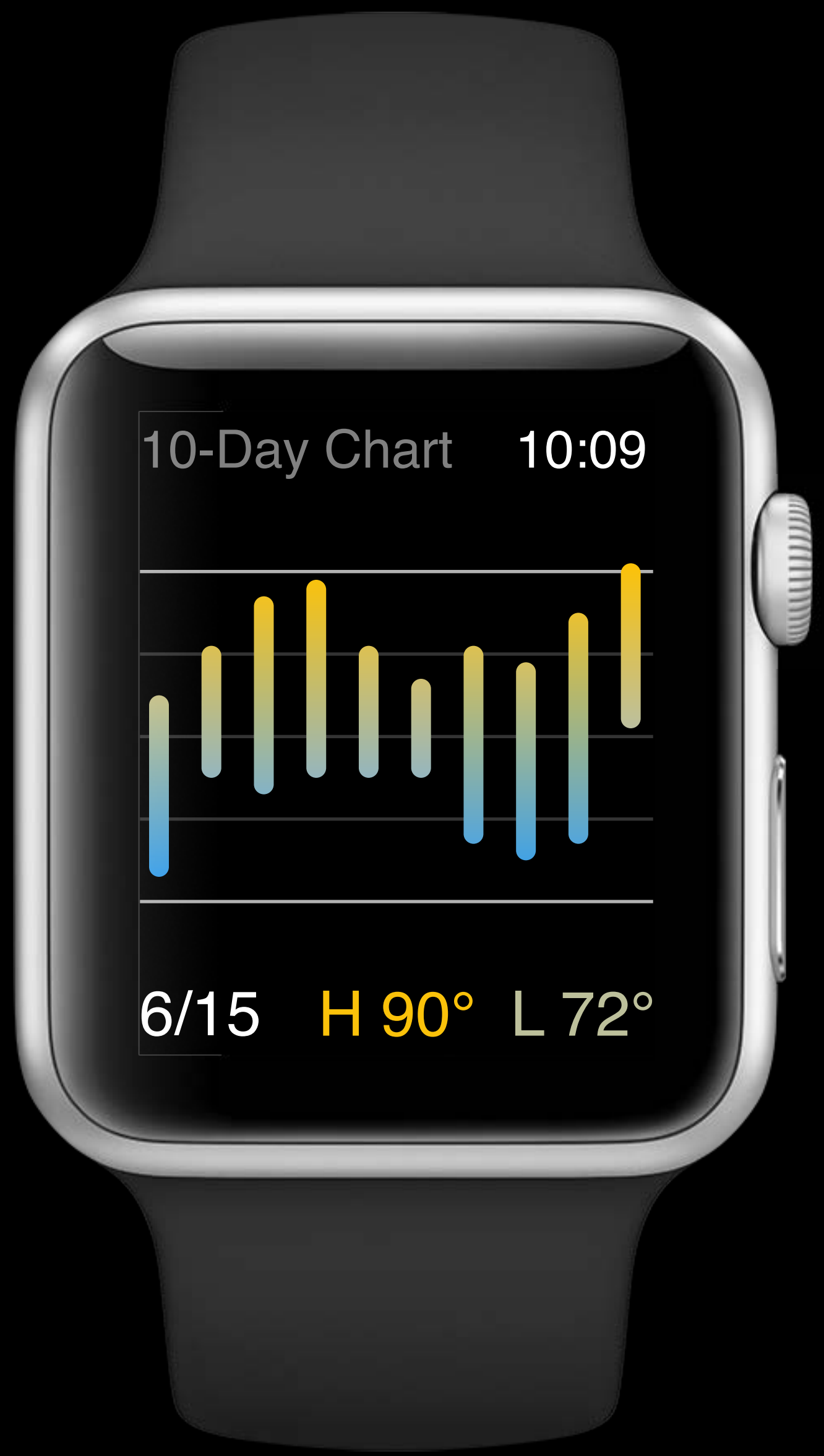
6/15 H 90° L 72°



10-Day Chart 10:09

6/15 H 90° L 72°



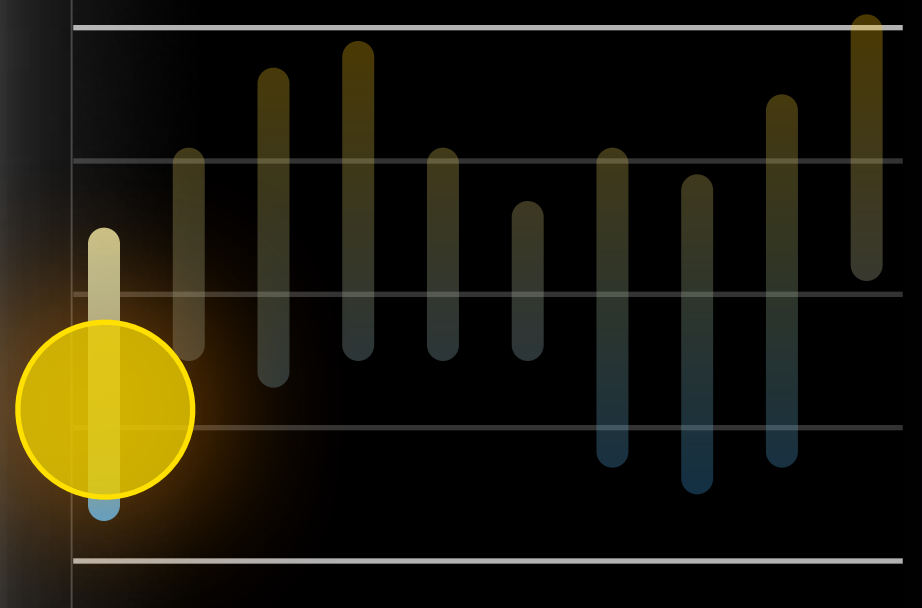


10-Day Chart 10:09

6/15 H 90° L 72°

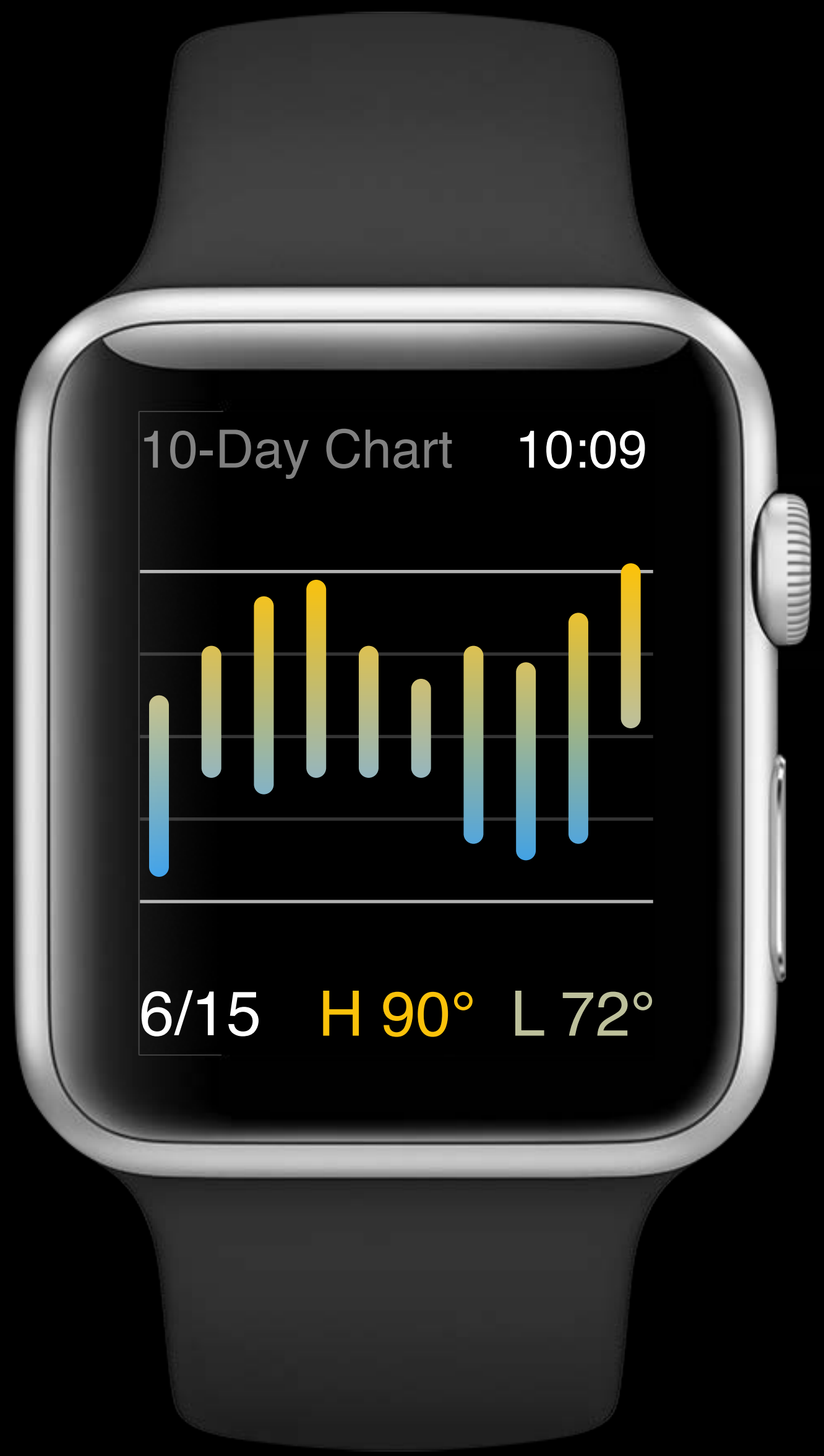


10-Day Chart 10:09



6/6 H 75° L 53°





10-Day Chart 10:09

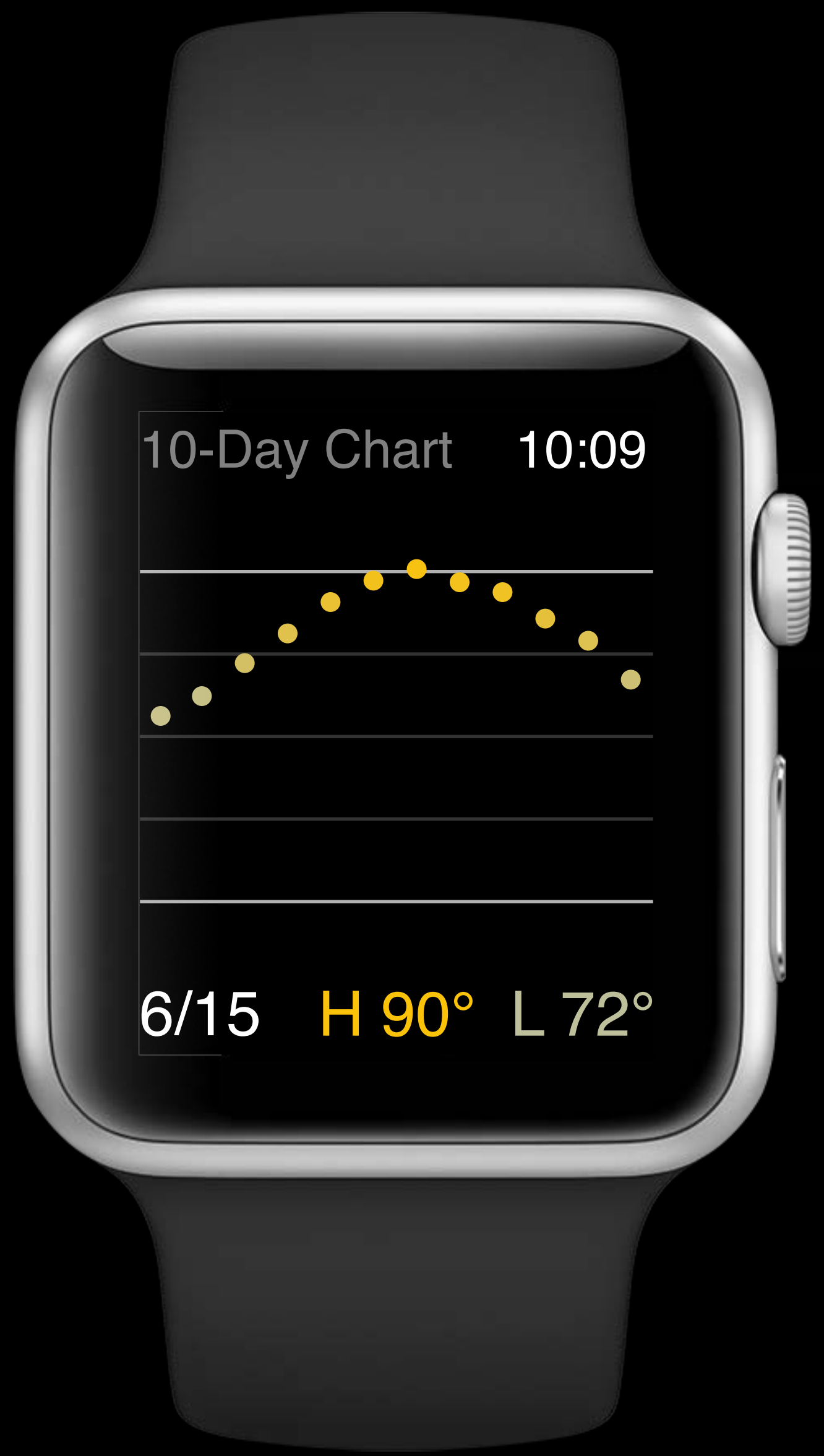
6/15 H 90° L 72°



10-Day Chart 10:09

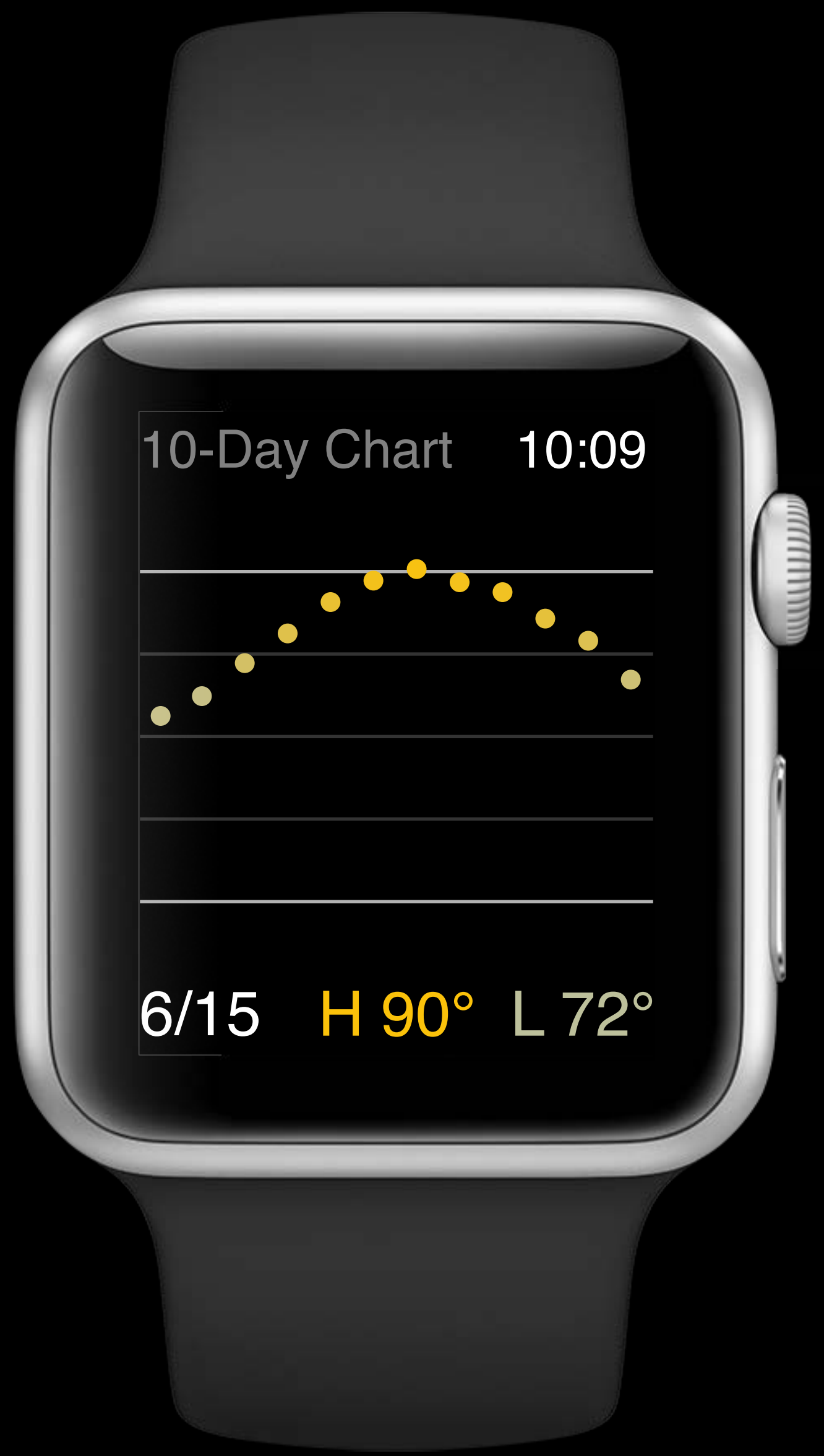
6/6 H 75° L 53°





10-Day Chart 10:09

6/15 H 90° L 72°



10-Day Chart 10:09

6/15 H 90° L 72°





10-Day Chart 10:09

6/15 H 90° L 72°



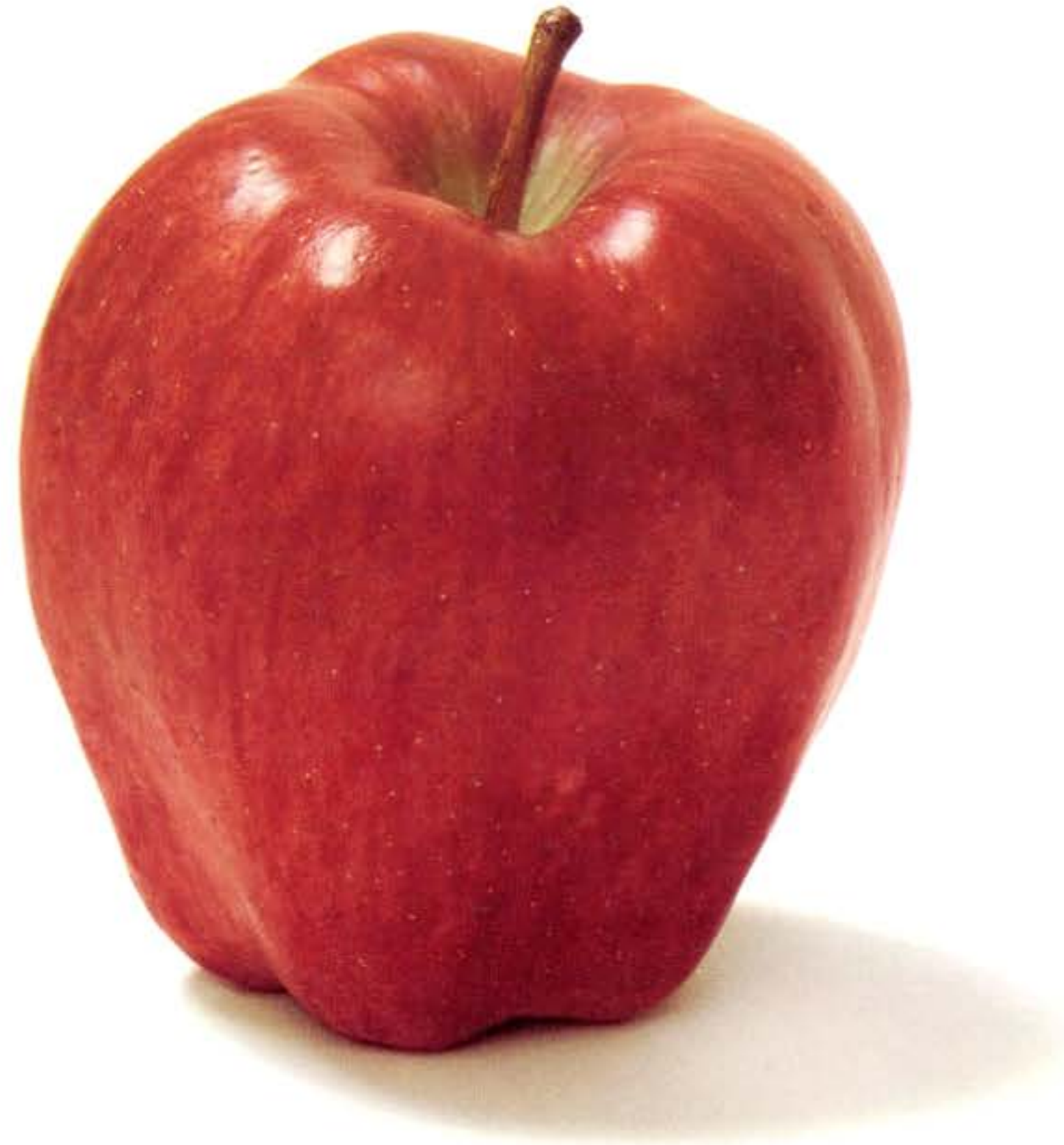
SpriteKit

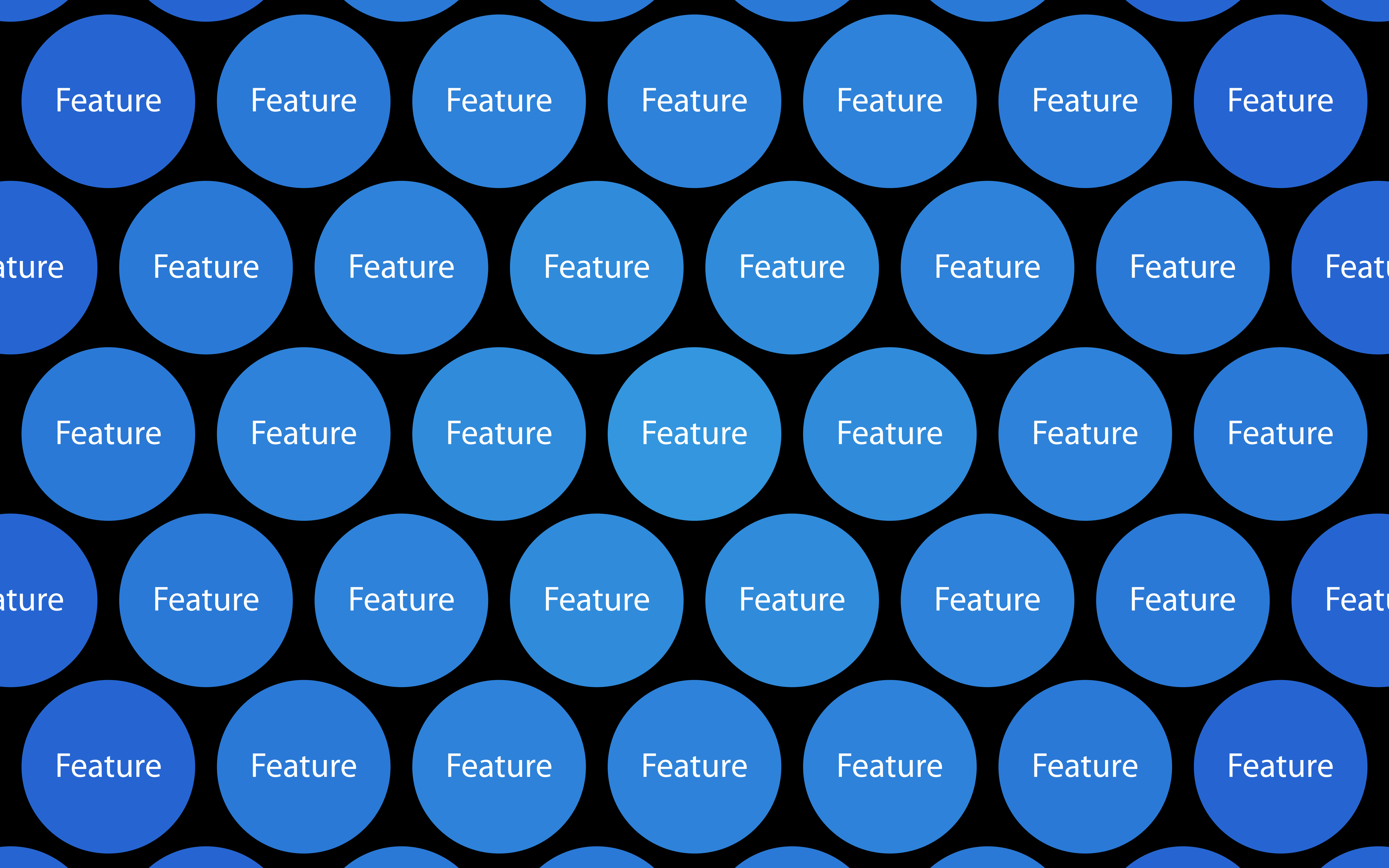


SceneKit

Animate Responsibly

**Simplicity  
is the  
ultimate  
sophistication.**









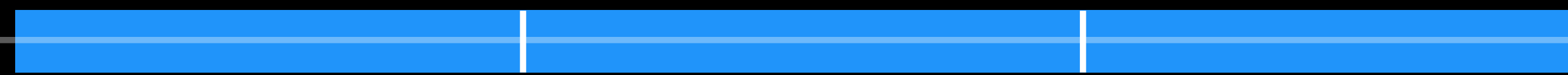
Feature



0



6



12



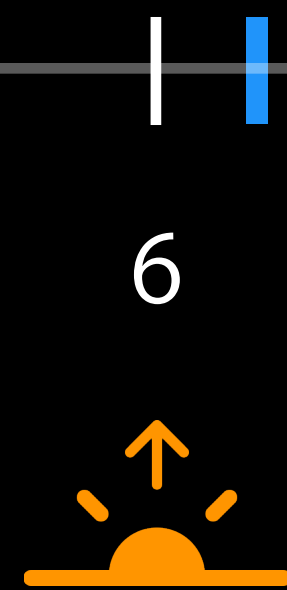
18



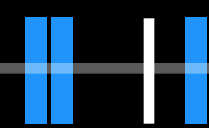
24



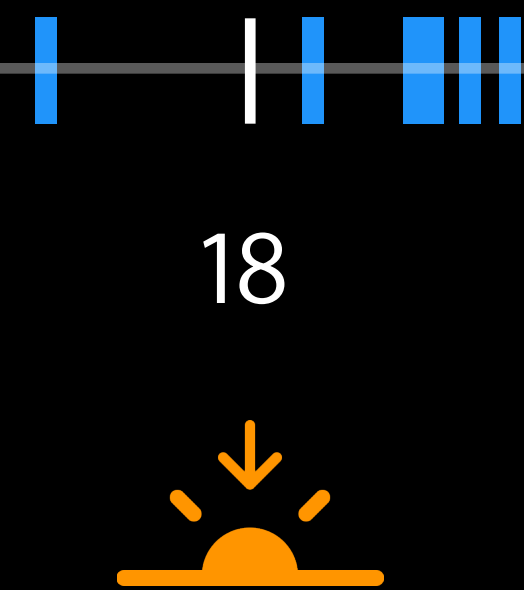
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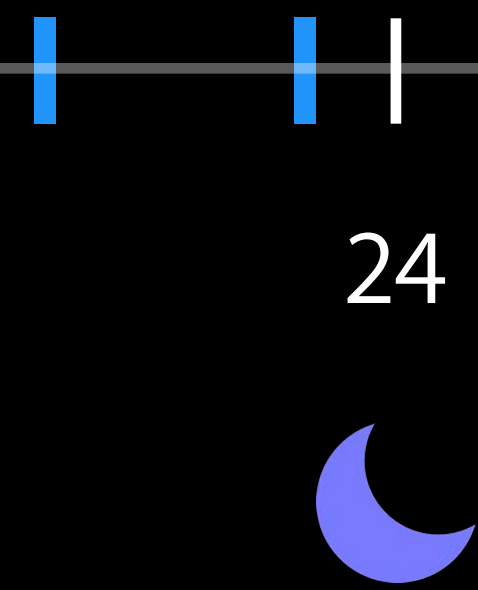
6



12



18



24



Top Movies





Features Not Apps





10:09

Cupertino

89° Mostly Cloudy

H:93° L:67°





10:09

Cupertino

89° Mostly Cloudy

H:93° L:67°





2.0



2.0





More Information

<https://developer.apple.com/wwdc16/804>



watchOS Human Interface Guidelines

**Visual Design** ▾

- Display Sizes
- Layout
- Color**
- Customization

Typography

Interactions

Animation

Icons and Images

Interface Elements


Watch Technologies

Resources

## Color

The proper use of color provides visual continuity, supports your branding, and aids in communication. Every app has a global tint color that you can configure to reflect your primary brand color. You can add colors for branding and to convey information, but be sure to use light colors for text to ensure legibility and contrast.


R 250 G 17 B 79	R 255 G 59 B 48	R 255 G 149 B 0	R 255 G 230 B 32	R 4 G 222 B 113
17% Opacity	17% Opacity	15% Opacity	14% Opacity	14% Opacity
R 0 G 245 B 234	R 90 G 200 B 250	R 32 G 148 B 250	R 120 G 122 B 255	R 242 G 244 B 255
13% Opacity	15% Opacity	17% Opacity	20% Opacity	14% Opacity



Outdoor Run

Ready


**Use black for your app's background color. Black blends**



Activity 10:09

MOVE  
EXERCISE  
STAND

**Be aware of color blindness and of how different cultures perceive**



Tappable

**Avoid using color as the only way to show interactivity. The rounded**





# Related Sessions

---

Quick Interaction Techniques for watchOS	Presidio	Wednesday 11:00AM
Keeping Your Watch App Up to Date	Mission	Thursday 9:00AM
Architecting for Performance on watchOS 3	Mission	Thursday 3:00PM
What's New in SpriteKit	Presidio	Thursday 5:00PM
Building Great Workout Apps	Pacific Heights	Friday 11:00AM

---

# Related Sessions

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Inclusive App Design

Pacific Heights

Tuesday 10:00AM

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Typography and Fonts

Presidio

Wednesday 9:00AM

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Iterative UI Design

Presidio

Friday 10:00AM

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# Labs

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User Interface Design by Appointment Lab

User Interface  
Design Lab A

Daily 9:00AM

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Prototyping Lab

Fort Mason

Friday 2:00PM

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