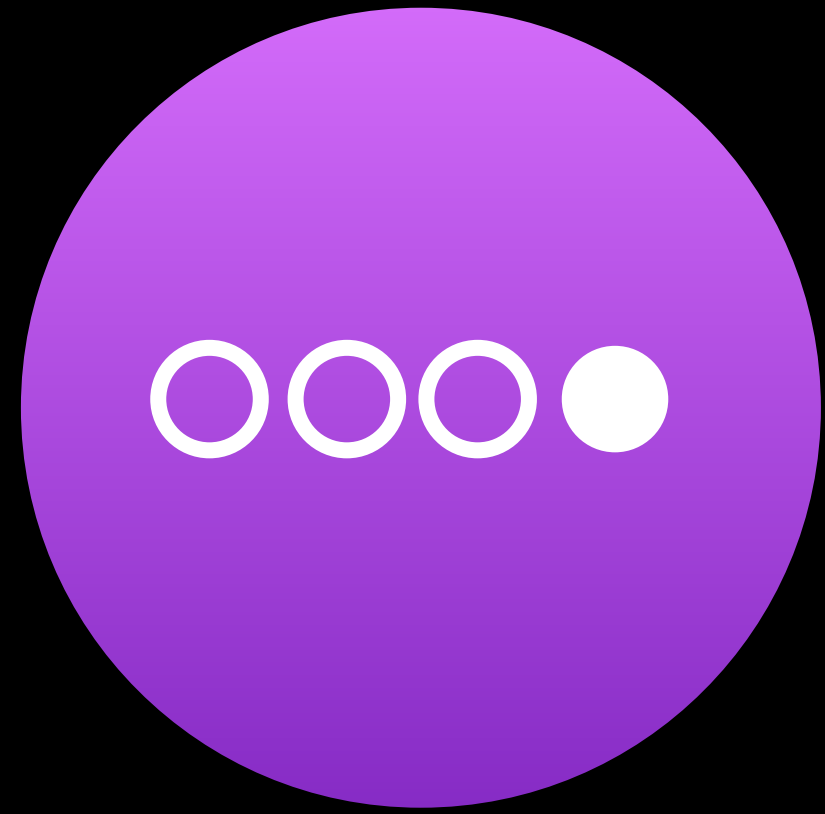


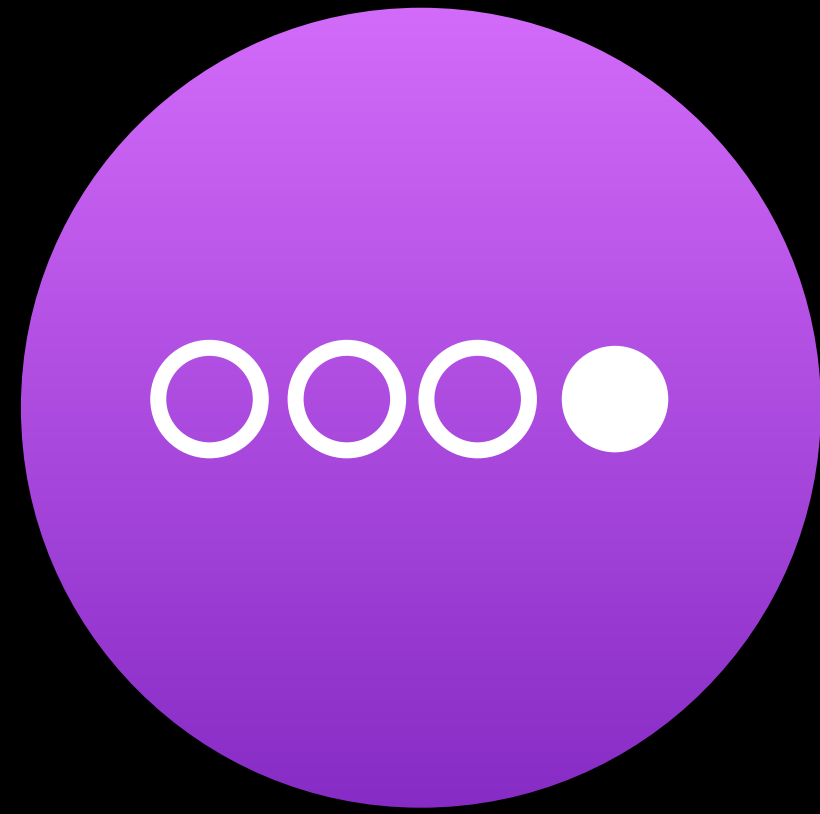
What's New in watchOS 3

Session 208

Josh Shaffer watchOS Engineering



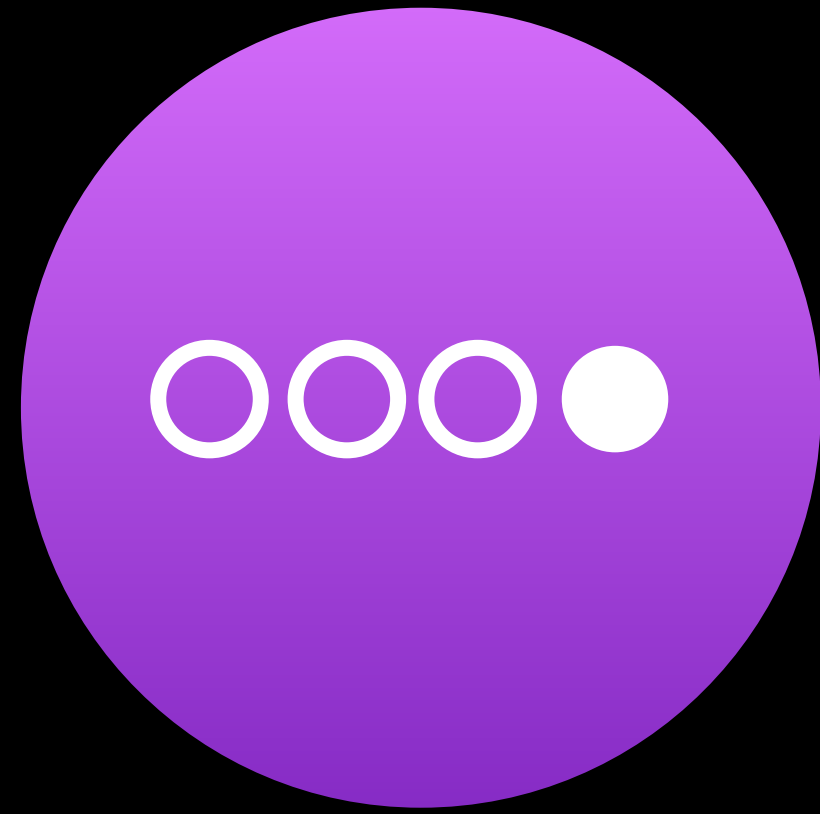
Glanceable



Glanceable



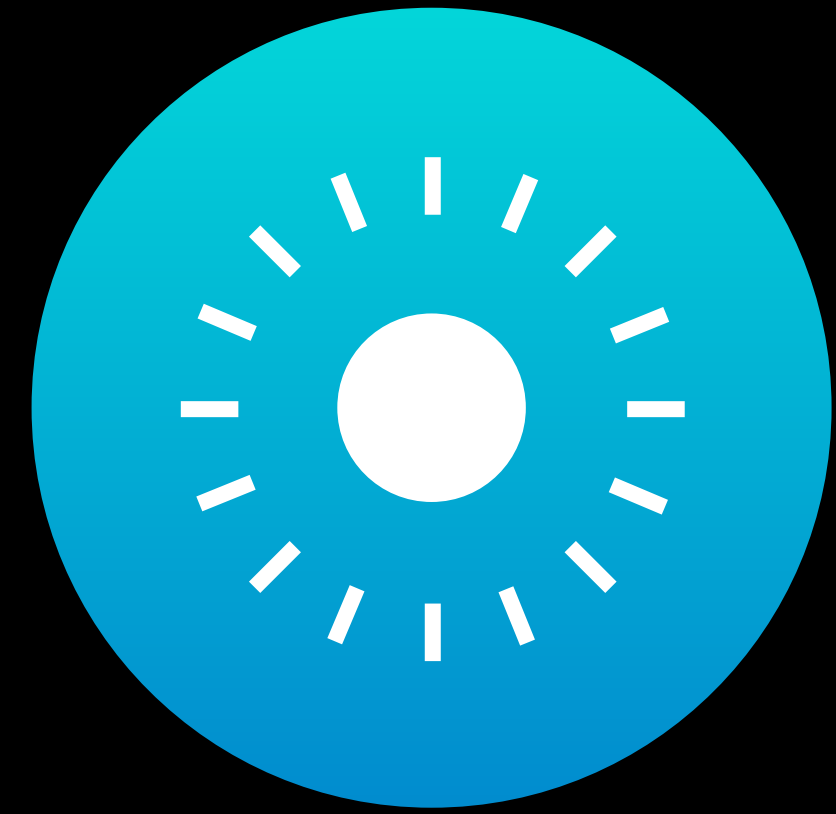
Actionable



Glanceable



Actionable



Responsive



< Reminders 10:09

Pick up Megan
Today, 11:00 AM

Call Mom

Book hotel

Book flight

























What's New in watchOS 3

Background App Refresh

Simplifying Navigation

Expanded API Availability

Discoverability and Configuration

Background App Refresh



Update complication
Update app



Update complication
Update app



Update snapshot



Update snapshot



Update snapshot





Reminders

< Reminders

Pick up Megan
Today, 11:00 AM

Call Mom

Book hotel

Book flight



< Reminders 10:09

Pick up Megan
Today, 11:00 AM

Call Mom

Book hotel

Book flight



TUE 14 10:09

11:00 AM
Pick up Megan
San Francisco Int.

68°  LON 6:09



TUE 14 10:09

11:00 AM
Pick up Megan
San Francisco Int.

68°  LON 6:09



TUE 14 10:09

11:00 AM
Pick up Megan
San Francisco Int.

68°  LON 6:09



10:09



REMINDERS

Pick up Megan
San Francisco Int.

Snooze

Completed



10:09



REMINDERS

Pick up Megan
San Francisco Int.

Snooze

Completed



TUE 14 10:09

Reminders

No scheduled reminders

68°



LON 6:09



TUE 14 10:09

Reminders

No scheduled reminders

68°



LON
6:09





95



@ 10:09 AM



10:09

95



@ 10:09 AM

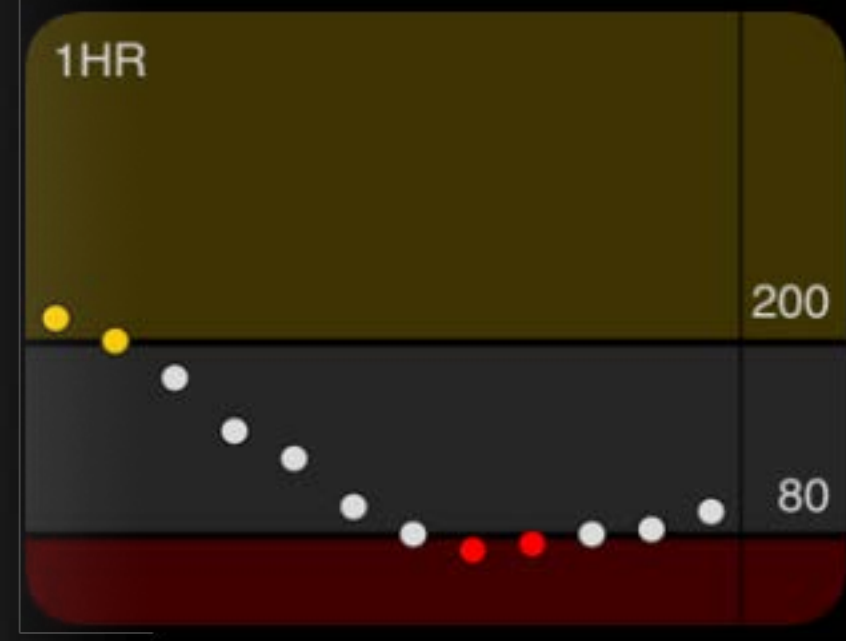


Dexcom

10:09

95 →

mg/dL





Dexcom

10:09

95 →

mg/dL

1HR

200

80



Dexcom

10:09

95 →

mg/dL

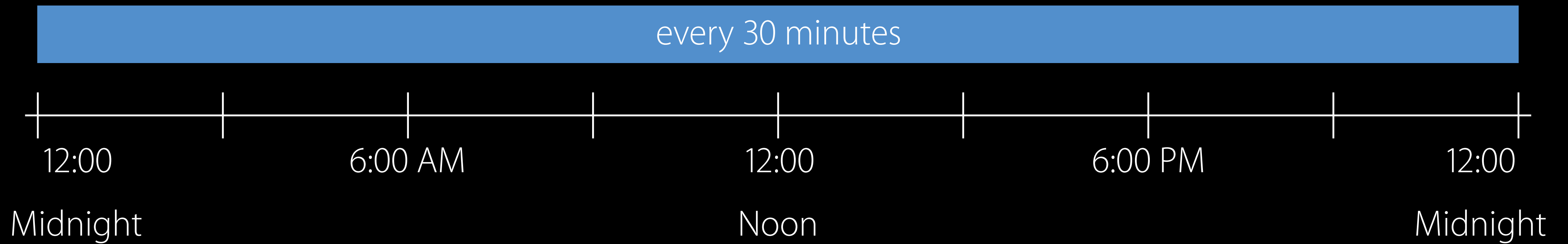
1HR

200

80

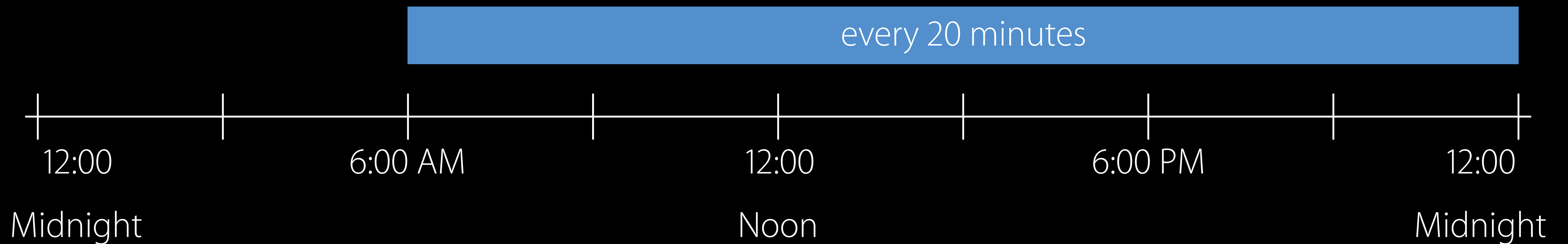
Complication Push Updates

Stocks



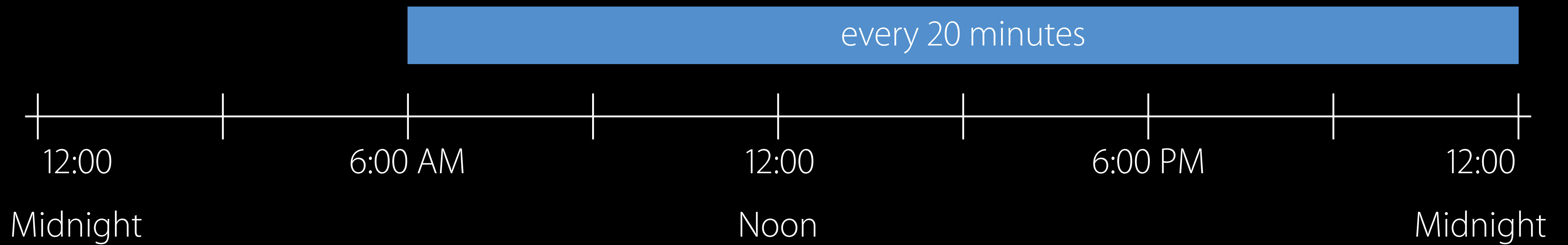
Complication Push Updates

Stocks



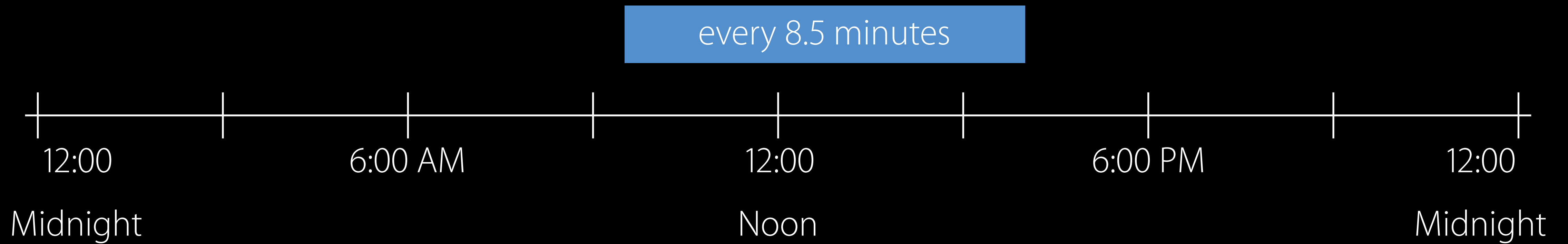
Complication Push Updates

Stocks



Complication Push Updates

Stocks





Reminders

< Reminders

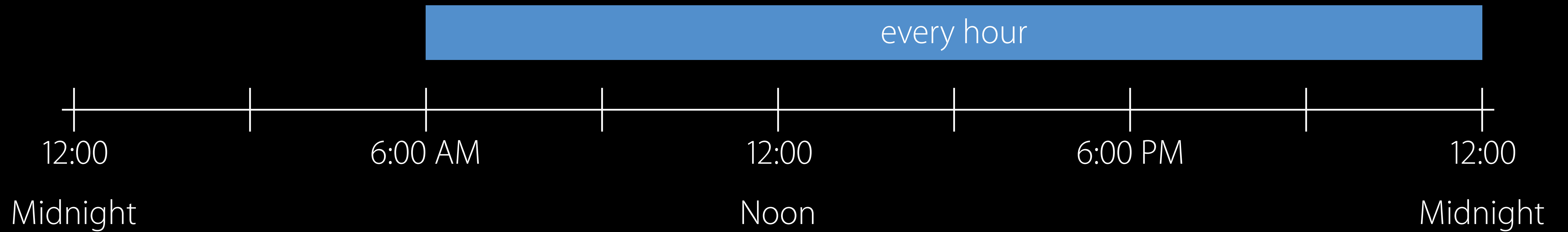
Pick up Megan
Today, 11:00 AM

Call Mom

Book hotel

Book flight

Scheduled Updates



Background App Refresh

Keeping Your Watch App up to Date

Mission

Thursday 9:00AM

Navigation Enhancements



Beverages

10:09

Coffee

Iced Tea

Water

Soda



Beverages

10:09

Coffee

Iced Tea

Water

Soda



Beverages

10:09

Coffee

Iced Tea

Water

Soda



< Coffee

10:09

3

Drink



< Coffee

10:09

3

Drink



< Soda

10:09

0

Drink



< Soda

10:09

0

Drink



< Purchase

10:09

Roasted
Chicken

\$12

Buy







TUE 14 10:09

Reminders

No scheduled reminders

68°



LON 6:09



TUE 14 10:09

Reminders

No scheduled reminders

68°



LON 6:09



10:09

FOOD

Roasted Chicken is currently unavailable.

Change Order

Dismiss



10:09

FOOD

Roasted Chicken is currently unavailable.

Change Order

Dismiss



TUE 14 10:09

Reminders

No scheduled reminders

68°



LON
6:09



TUE 14 10:09

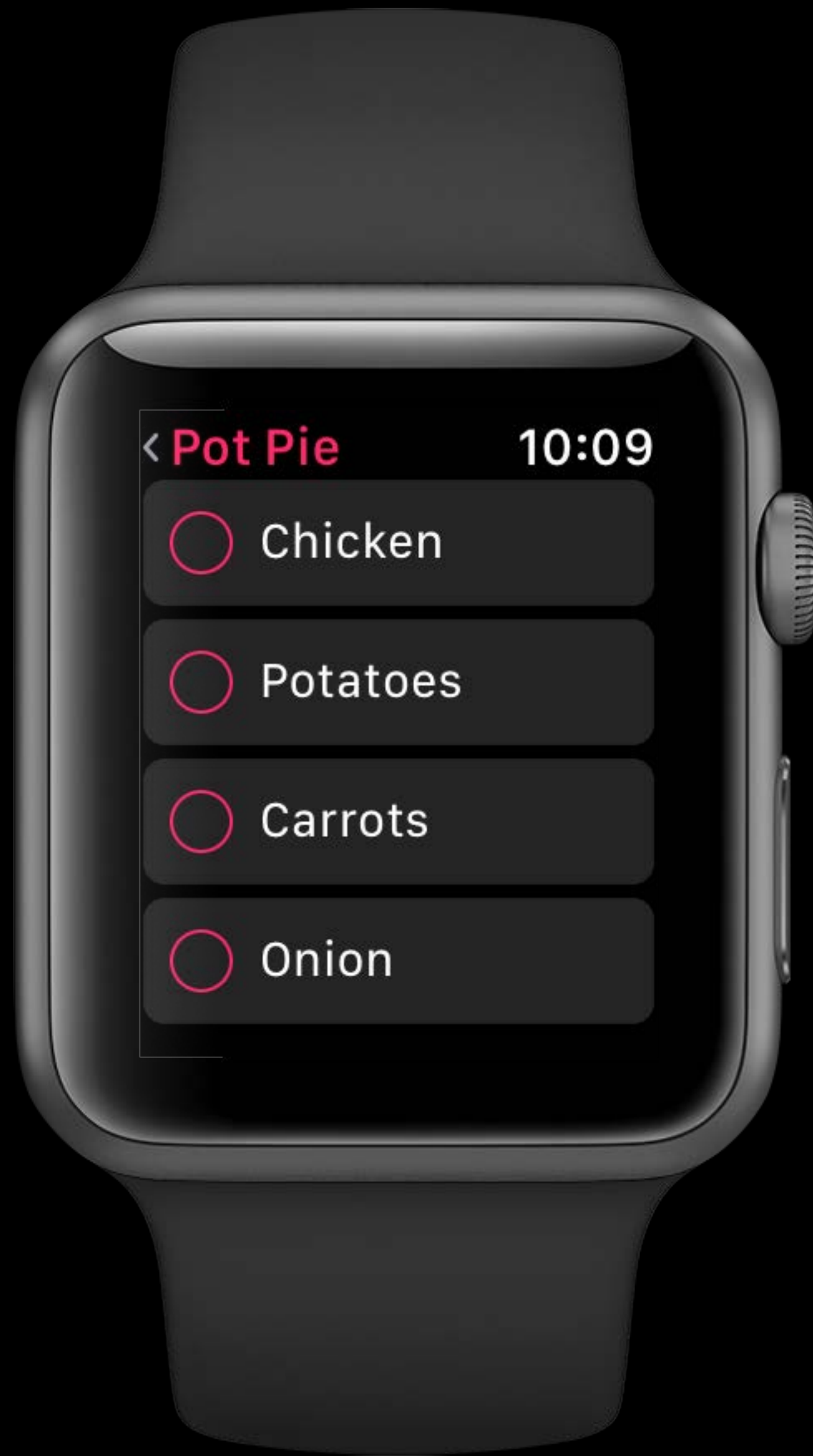
Reminders

No scheduled reminders

68°



LON 6:09



< Pot Pie 10:09

Chicken

Potatoes

Carrots

Onion



< Pot Pie 10:09

Chicken

Potatoes

Carrots

Onion



8 minutes





Enhanced API Availability

Scheduled updates
Complication push updates
Snapshotting



Keeping Your Watch App up to Date

Mission

Thursday 9:00AM

Background runtime

Frontmost during workout

Continuous sensor access



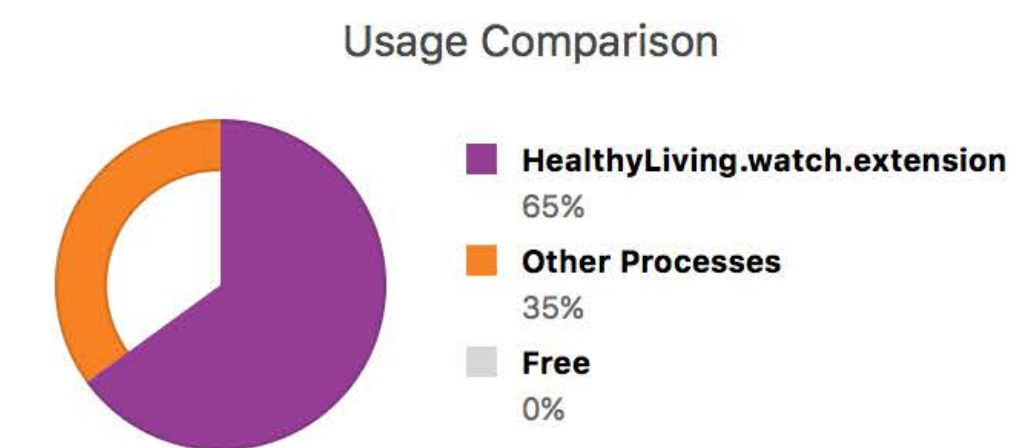
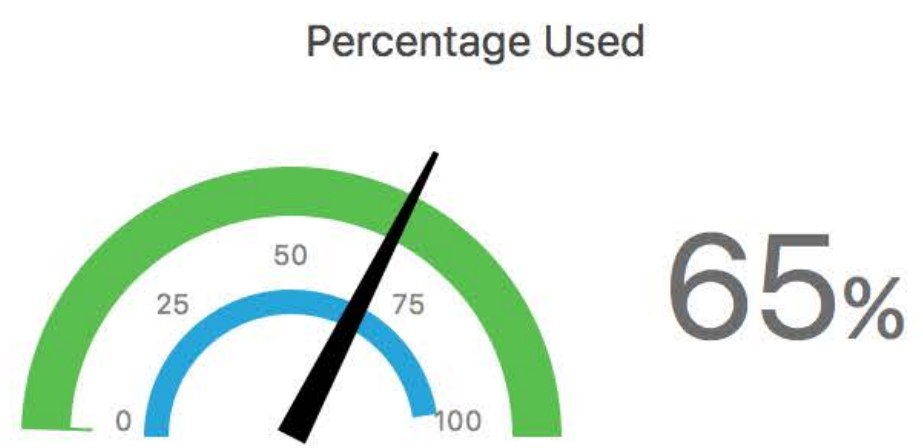
Background runtime

HealthyLiving.watch.extensi...

- CPU 0%
- Memory 2.3 MB
- Disk Zero KB/s
- Network Zero KB/s

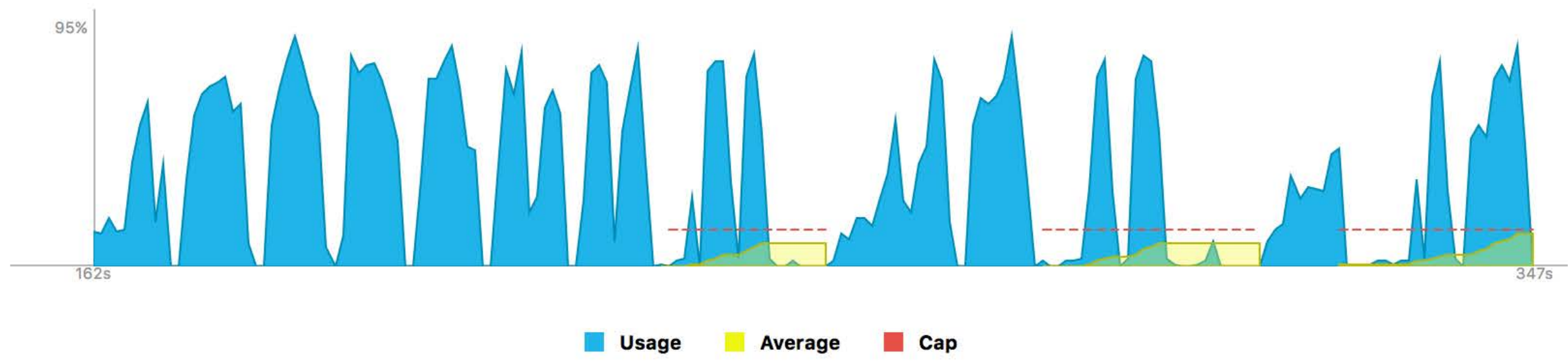
CPU

Profile in Instruments

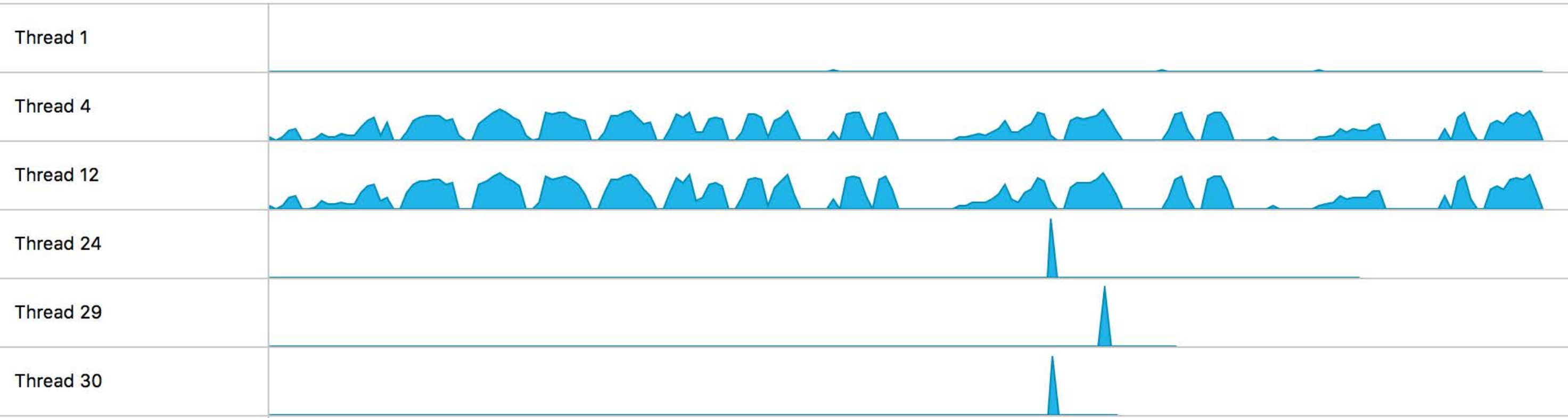


Usage over Time

Duration: 5 min 59 sec
High: 95%
Low: 0%
Cap: 15%
Average: 13%

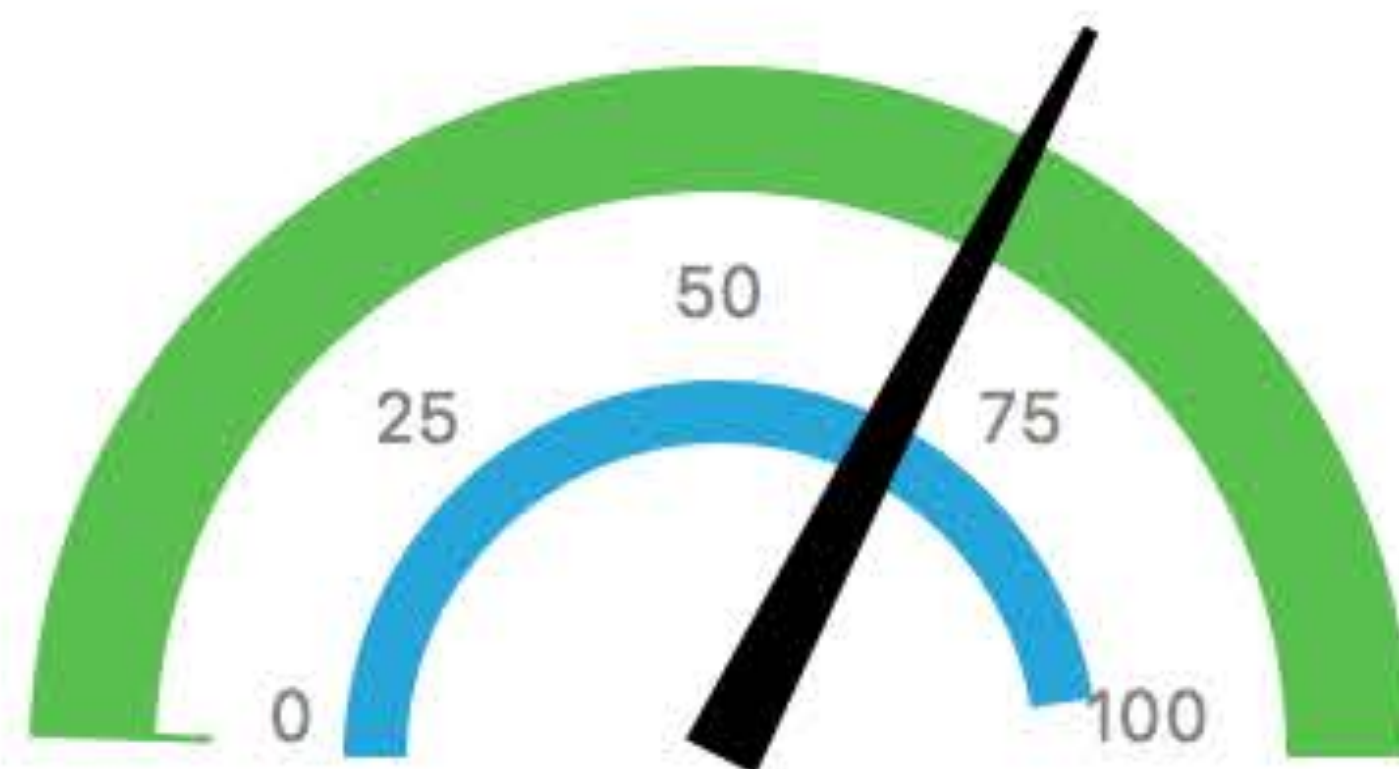


Threads

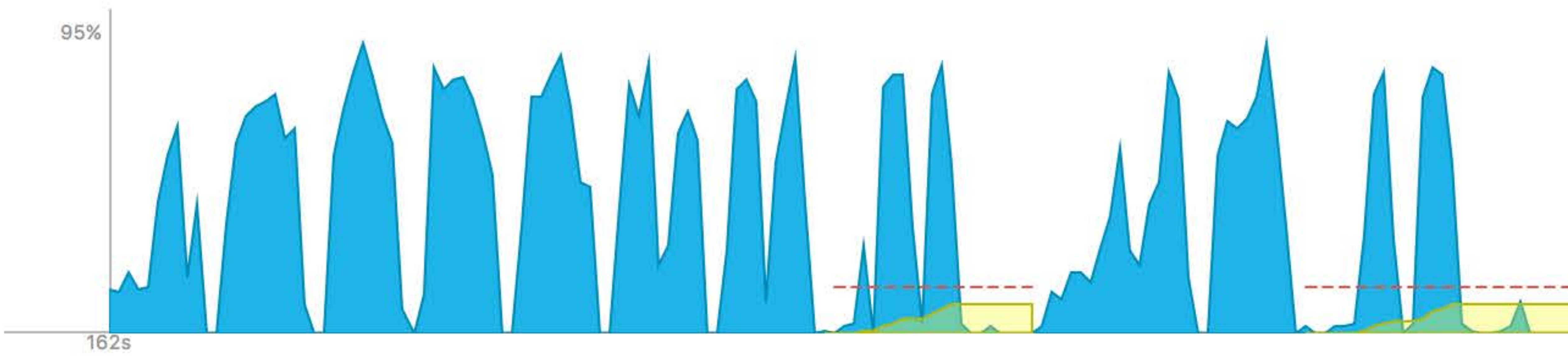


CPU

Percentage Used



65%



Usage **Average** **Cap**

Crown events

Gesture recognizers

Gyroscope





Acorns

10:09

\$516.66

\$0 Invested

August 29th







Week 8

10:09



RESISTANCE
3 REMAINING



Week 8

10:09



RESISTANCE
3 REMAINING

SpriteKit and SceneKit
Inline video



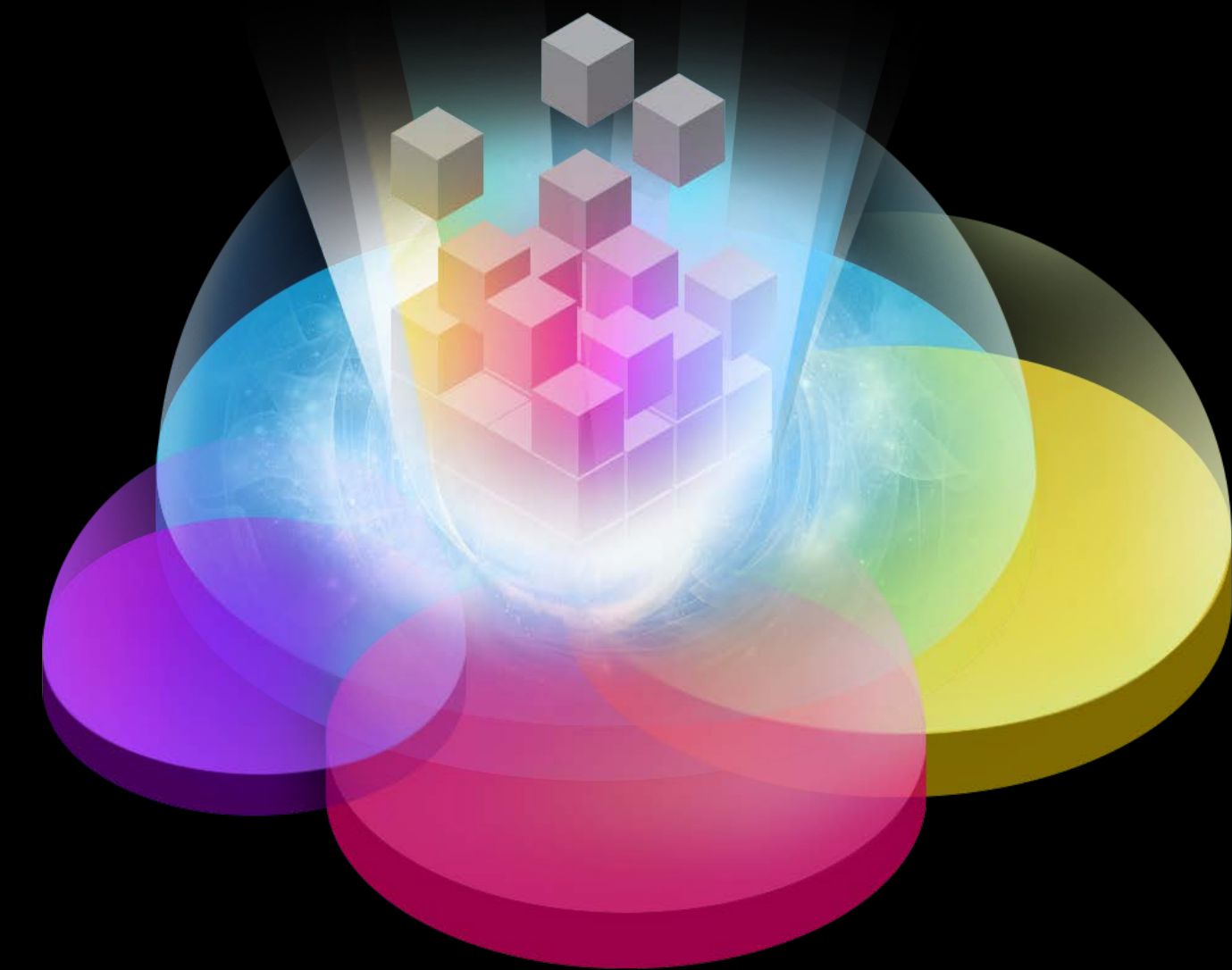




SpriteKit and SceneKit

GameKit

Speaker access









What's New with CloudKit

Presidio

Thursday 3:00PM



What's New with Wallet and Apple Pay

Mission

Tuesday 3:00PM

Discoverability and Configuration

< Face Gallery Featured Complications

Dexcom



Activity Digital

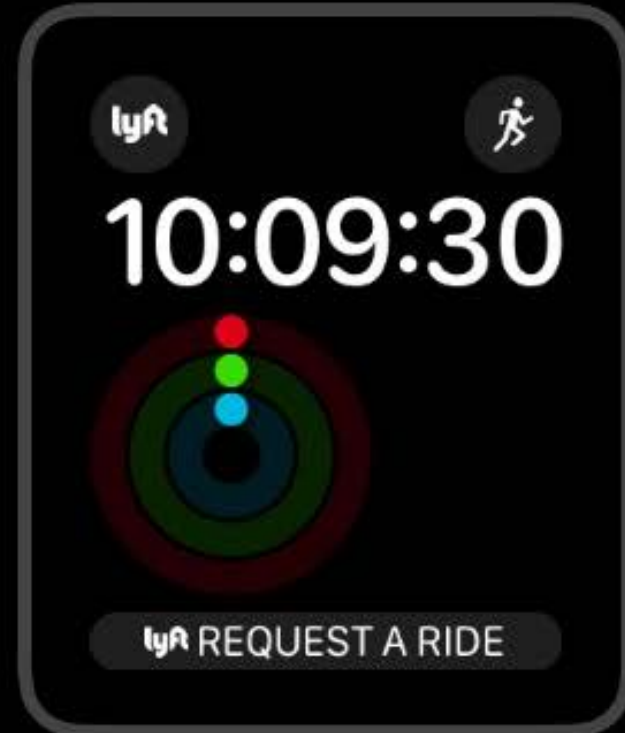


Activity Analog

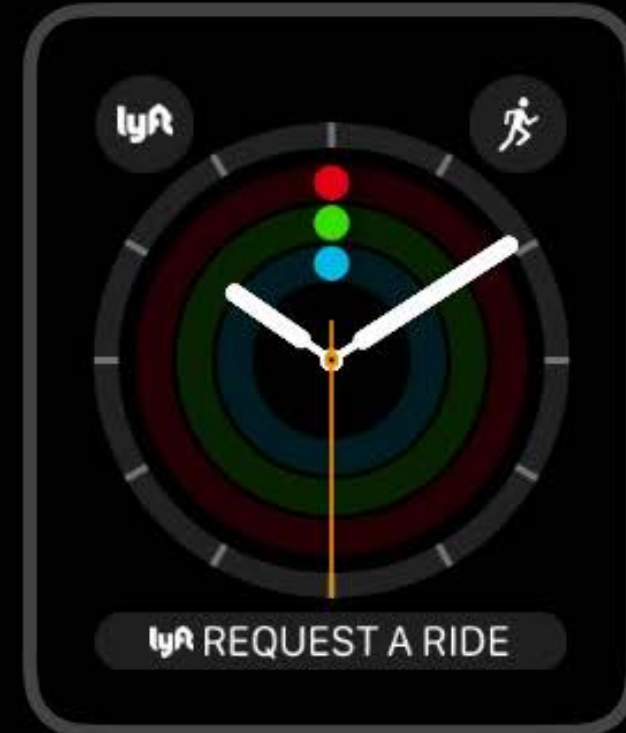


U

Lyft



Activity Digital



Activity Analog



U

Acorns



My Watch



Face Gallery



App Store



Search



10:09 AM



< My Watch

Utility



Detail



MINIMAL



SIMPLE



MEDIUM

Complications

Top Left

World Clock: Cupertino

Top Right

Weather



My Watch



Face Gallery



App Store



Search



Workout

Weather

Calendar

Music

Activity

Maps

Stocks

Settings

DO NOT INCLUDE

Alarms

Camera



Reminders

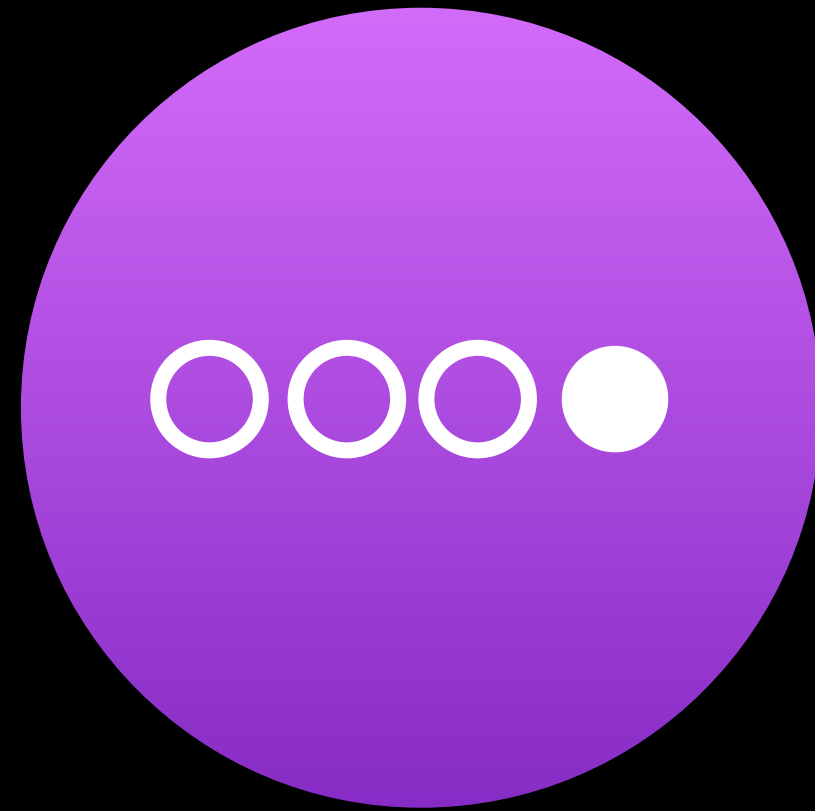
< Reminders

Pick up Megan 11:00 AM

Call Mom

Book hotel

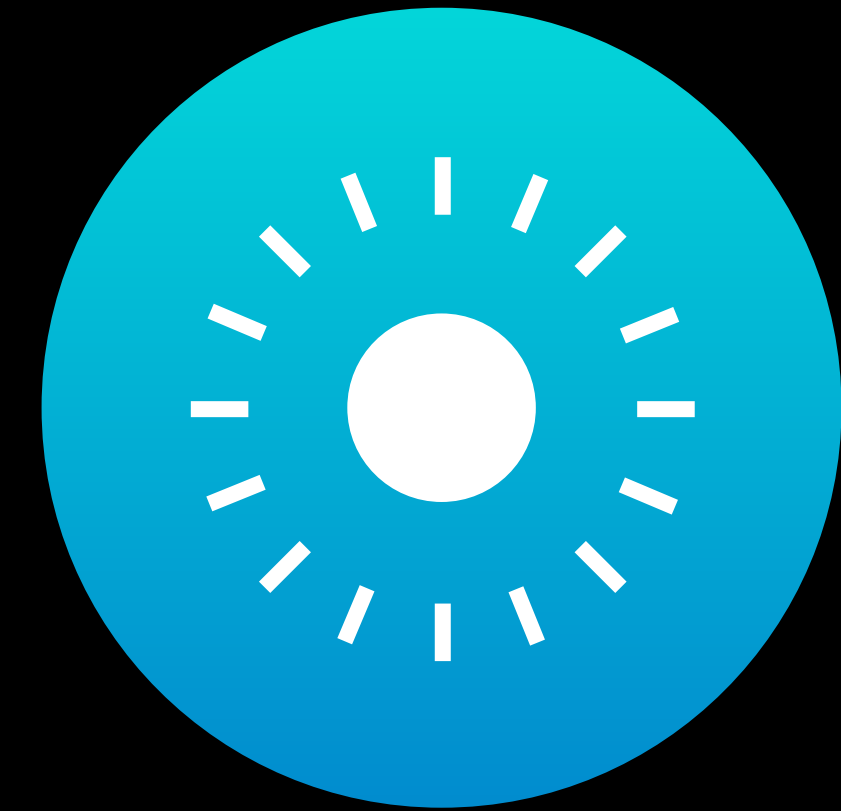
Keep in Dock



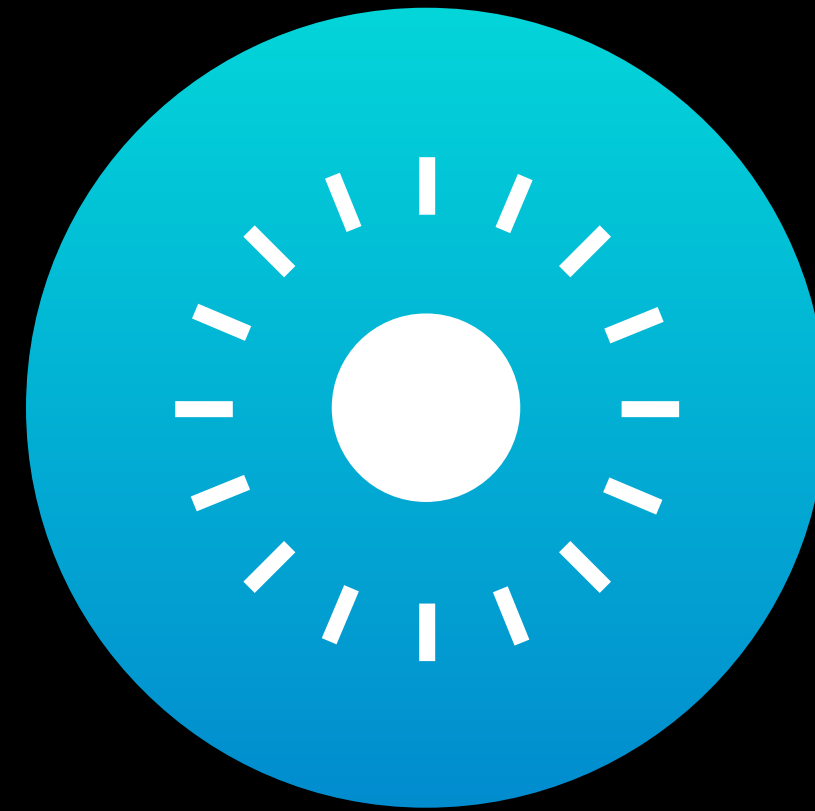
Glanceable



Actionable



Responsive



Responsive

Keeping Your Watch App up to Date

Mission

Thursday 9:00AM

Architecting for Performance on watchOS 3

Mission

Thursday 3:00PM

More Information

<https://developer.apple.com/wwdc16/208>

Related Sessions

What's New with Wallet and Apple Pay	Mission	Tuesday 3:00PM
Quick Interaction Techniques for watchOS	Presidio	Wednesday 11:00AM
Designing Great Apple Watch Experiences	Presidio	Wednesday 1:40PM
Keeping Your Watch App up to Date	Mission	Thursday 9:00AM
What's New with CloudKit	Presidio	Thursday 3:00PM
Architecting for Performance on watchOS 3	Mission	Thursday 3:00PM
Building Great Workout Apps	Pacific Heights	Friday 11:00AM
Game Technologies for Apple Watch	Mission	Friday 3:00PM

Labs

HealthKit Lab

Frameworks Lab A Wednesday 10:00AM

WatchKit and ClockKit Lab

Frameworks Lab B Wednesday 12:00PM

HealthKit Lab

Frameworks Lab A Thursday 9:00AM

WatchKit and Background Tasks Lab

Frameworks Lab C Thursday 10:30AM

WatchKit and WatchConnectivity Lab

Frameworks Lab B Friday 2:00PM

WWDC 16 