

Designing for tvOS Session 802

Lauren Strehlow User Experience Evangelist

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#WWDC16



of tv



















Design Differently

Basics

Basics Distance

Basics Distance Remote

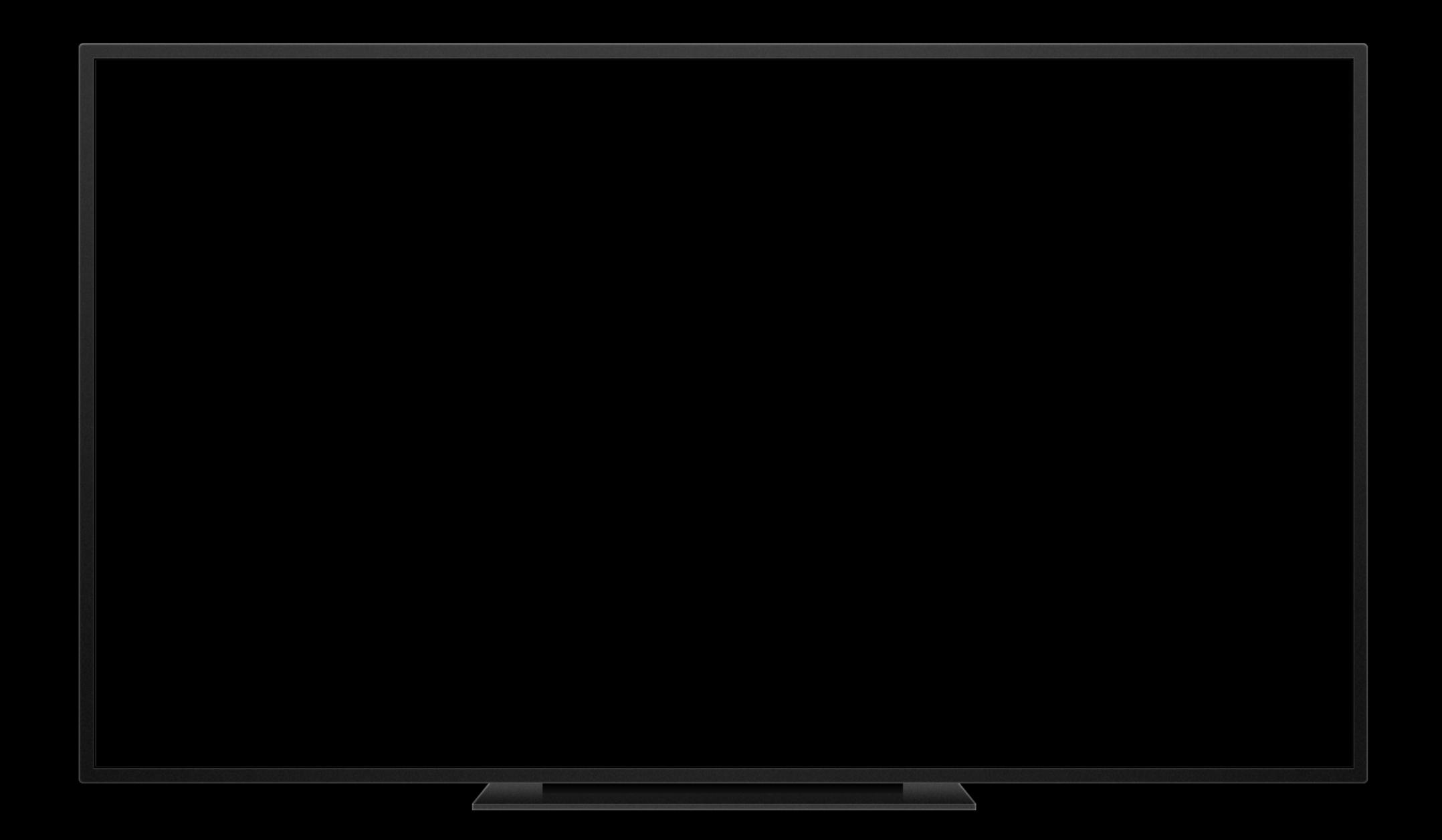
Basics Distance Remote

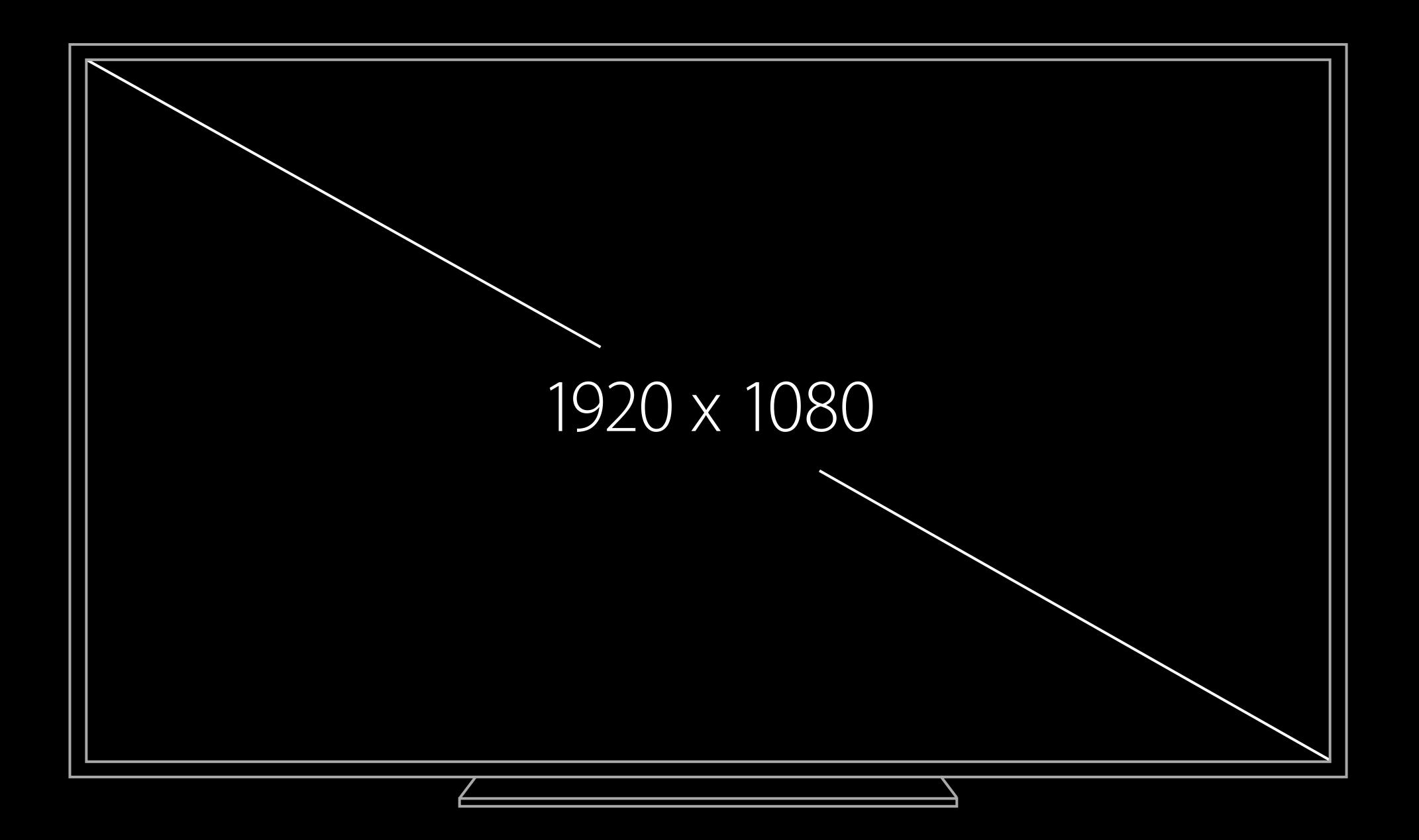
Features

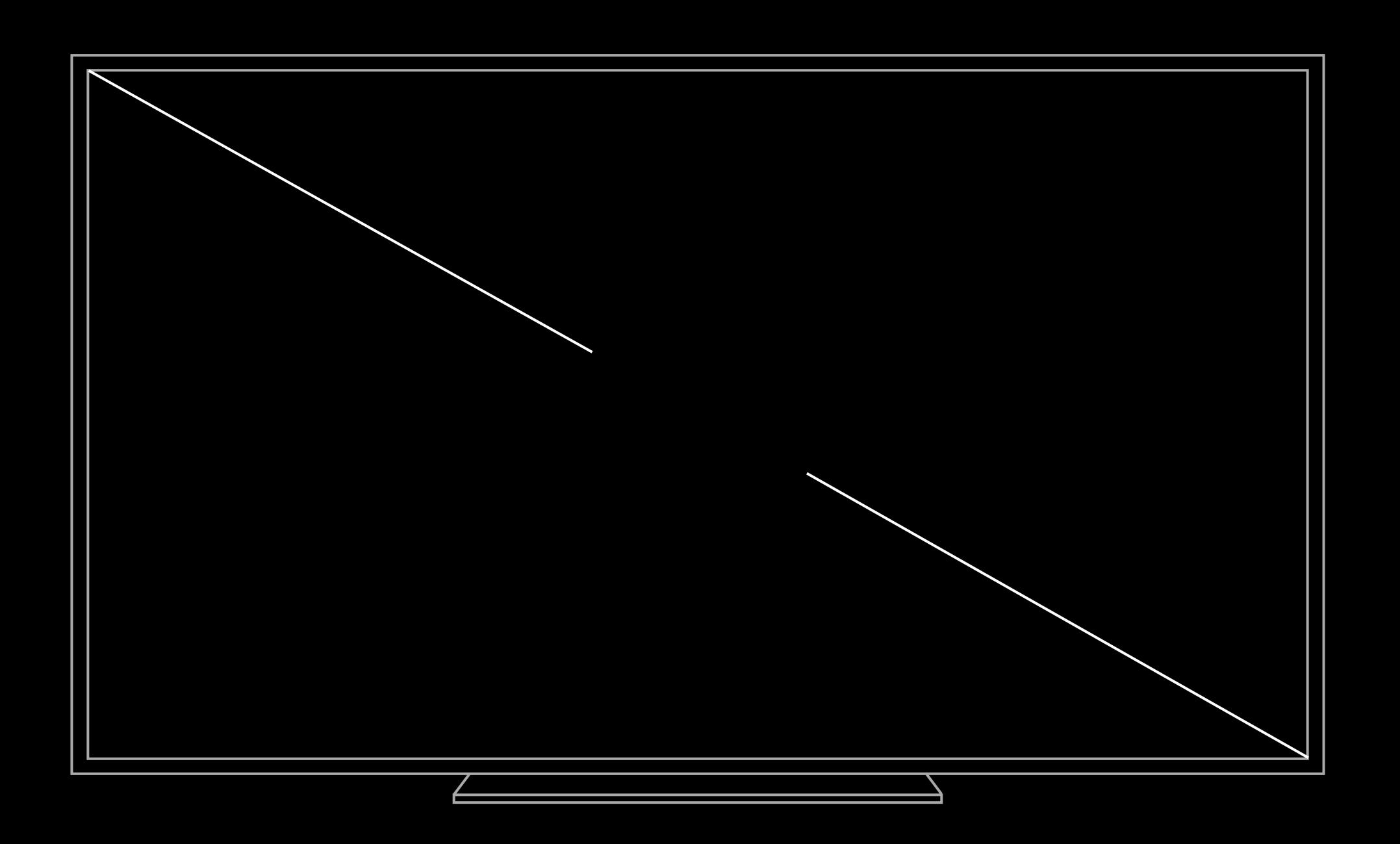
Basics Distance Remote Features

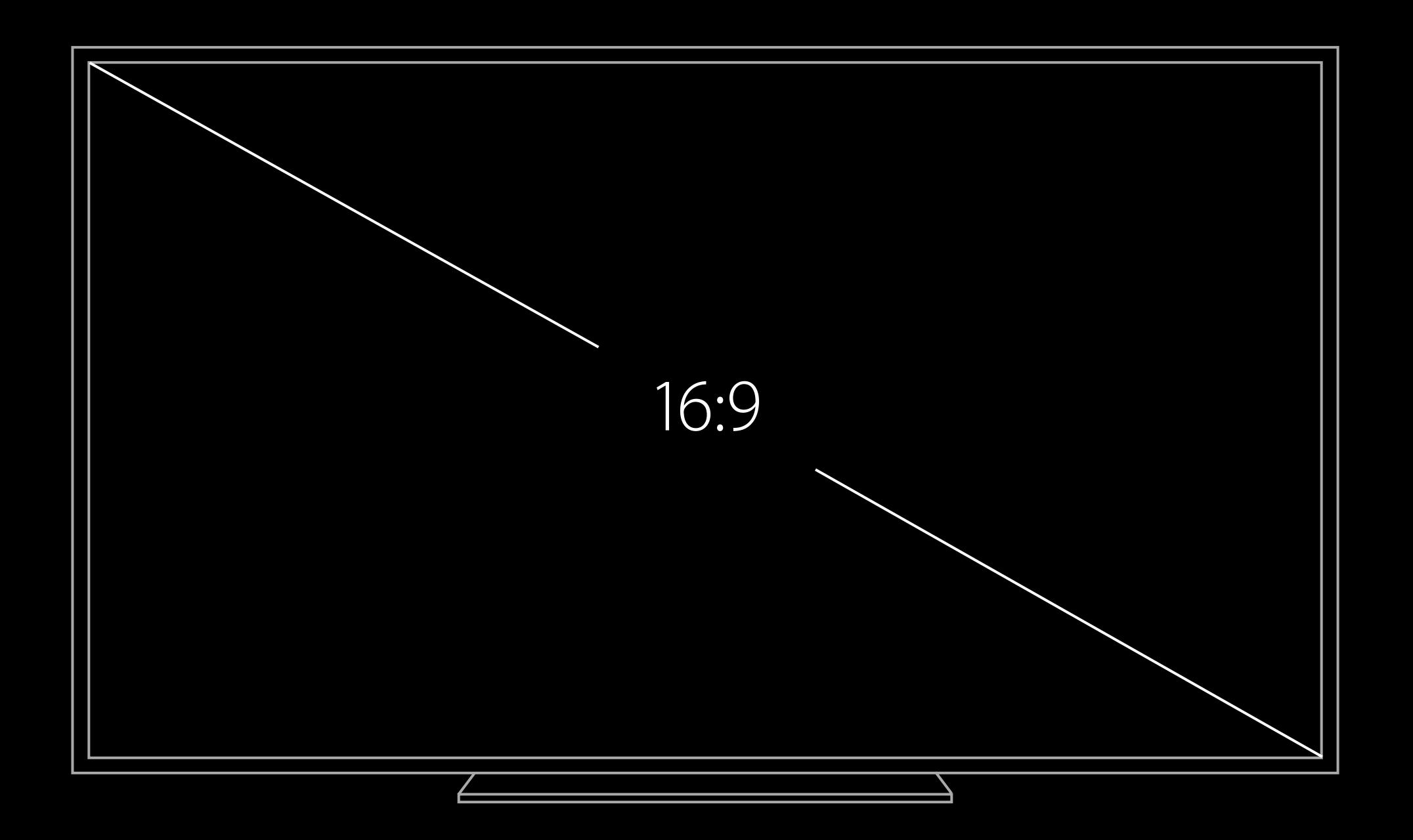
Apps

Basics



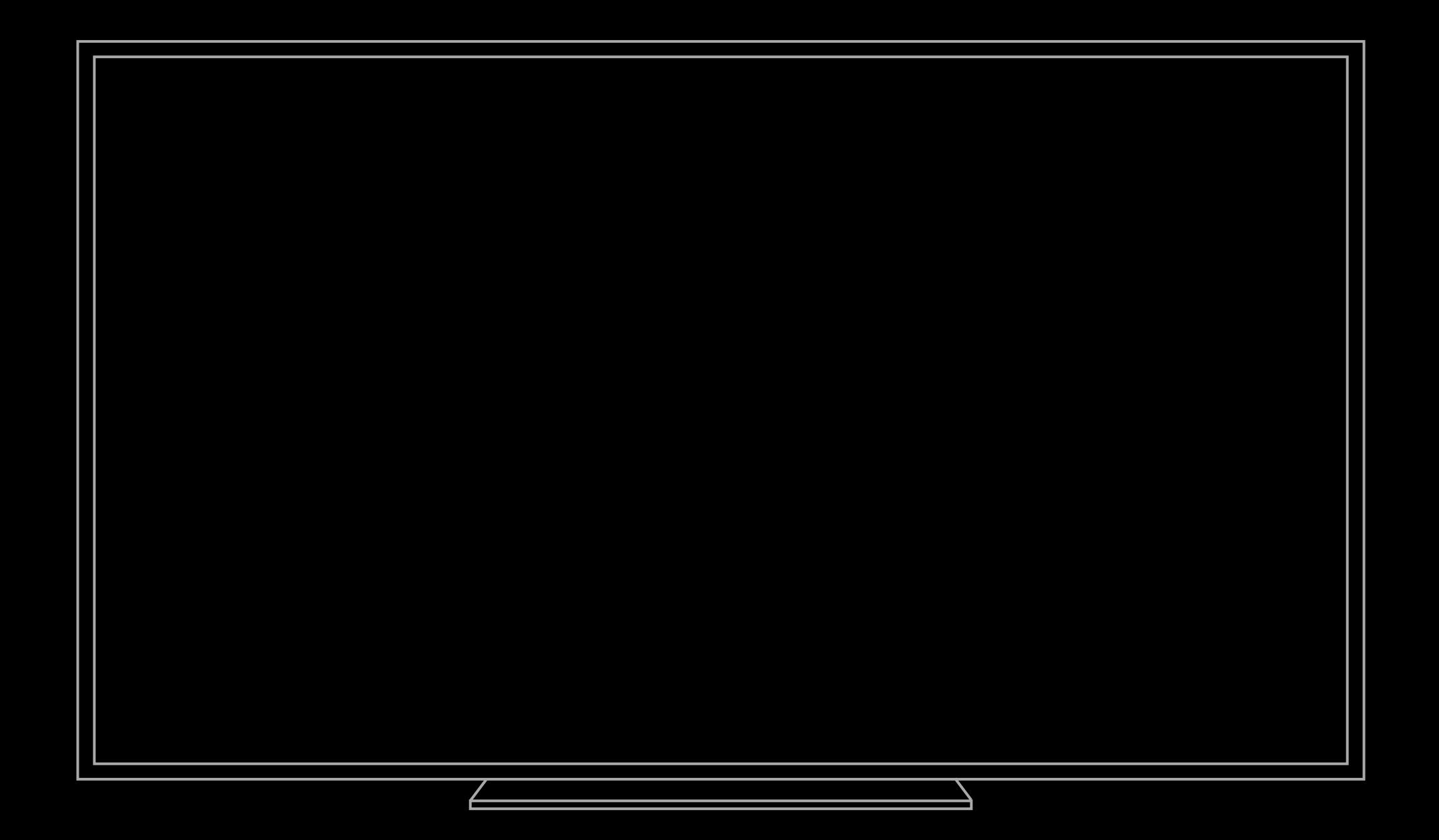




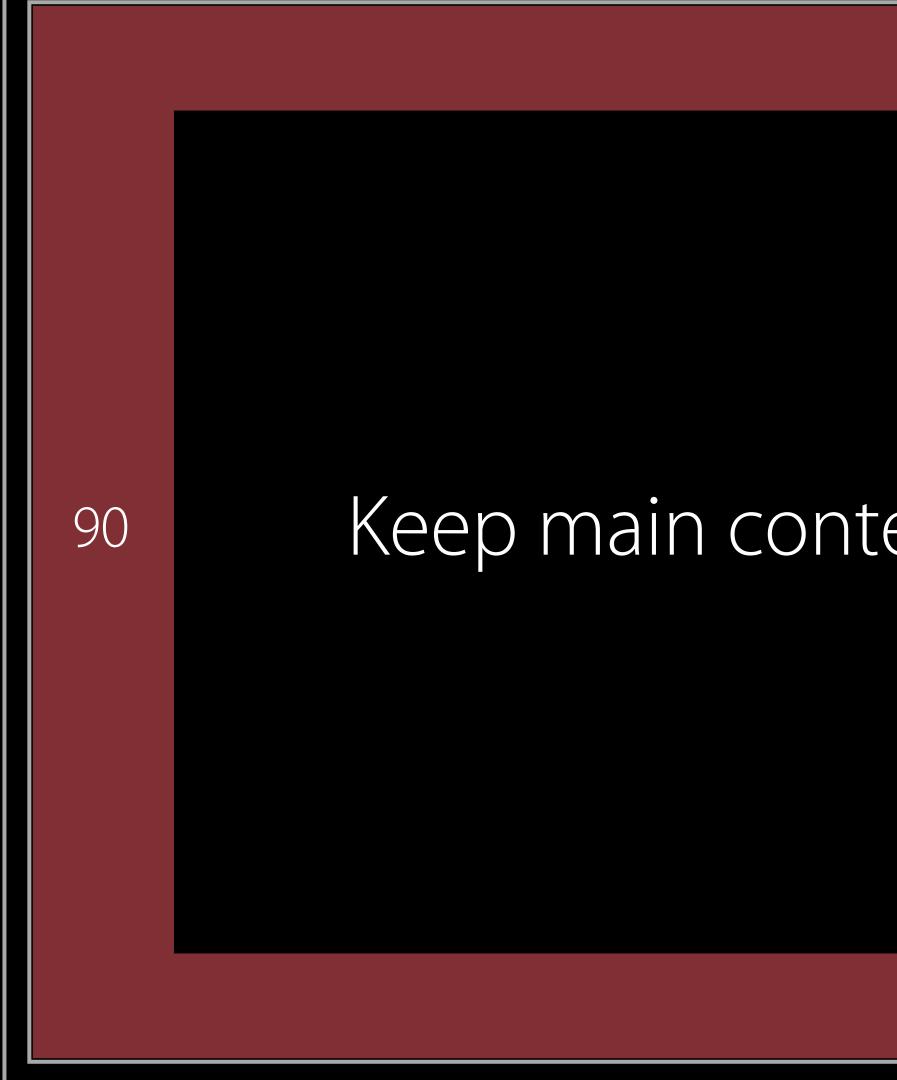














Keep main content away from edges

Basics

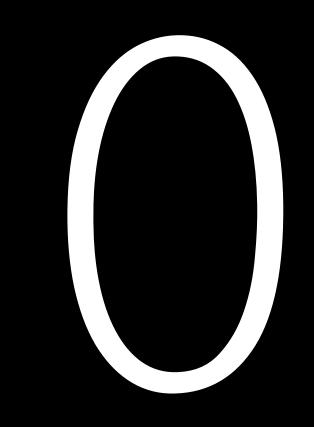
Distance

Remote

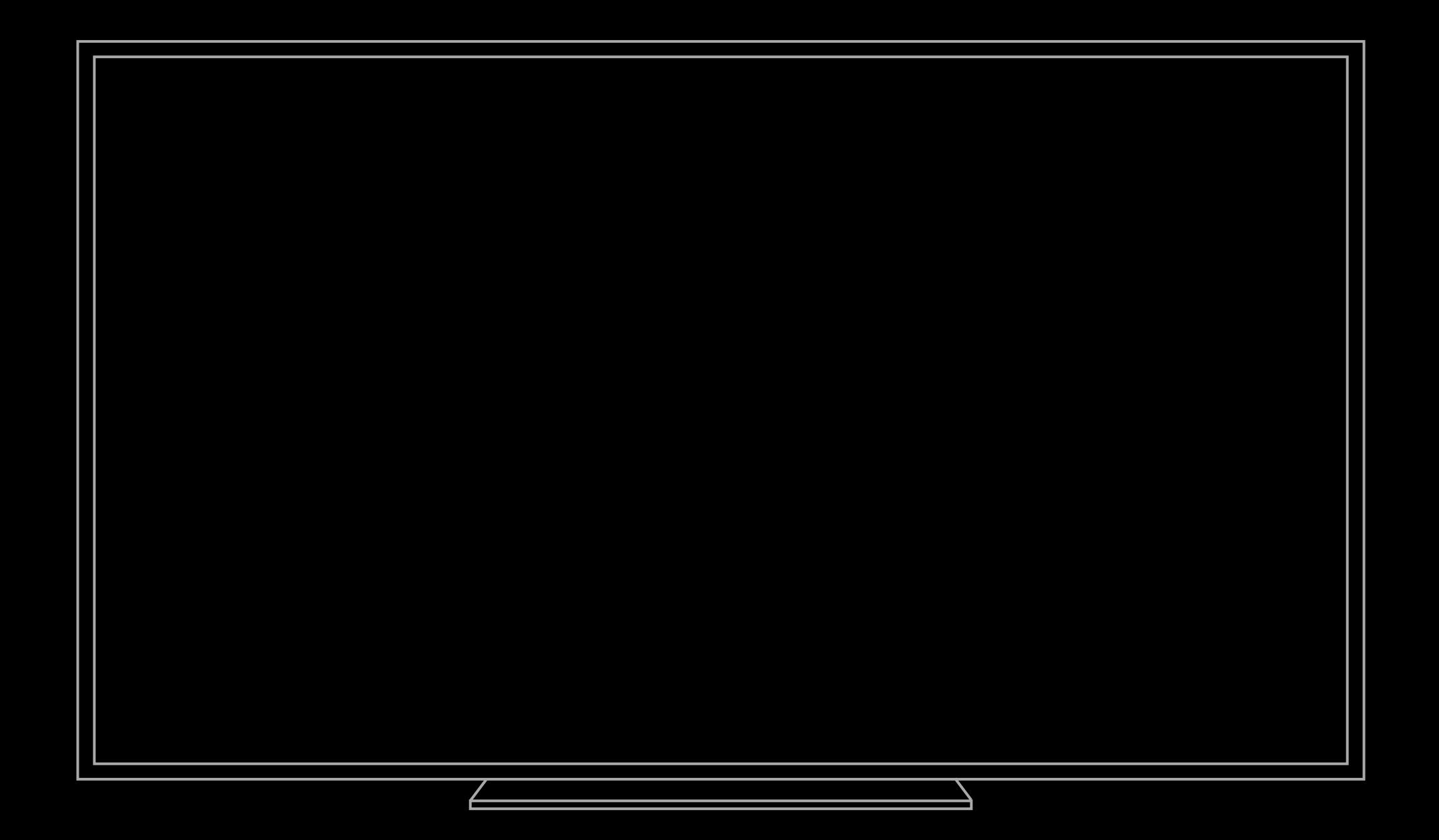
Features

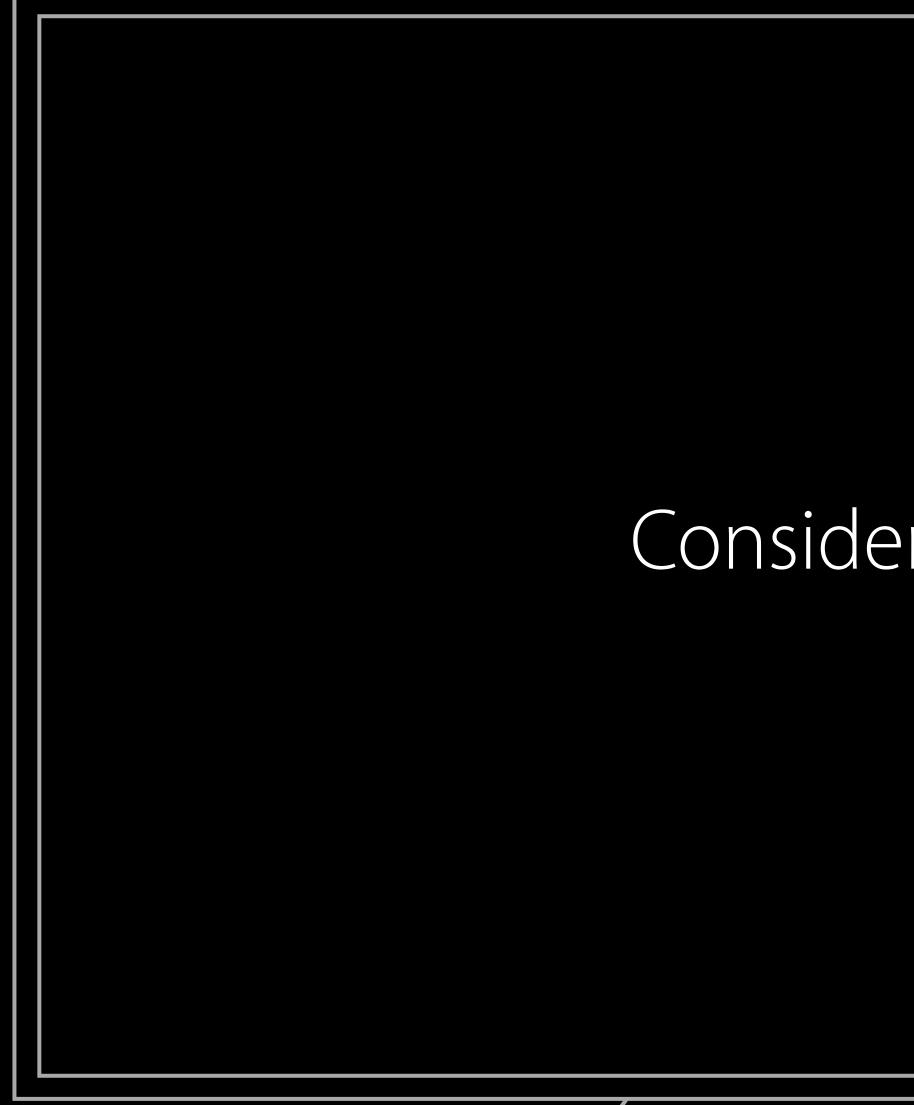
Apps

Basics Distance Remote Features Apps



Feet



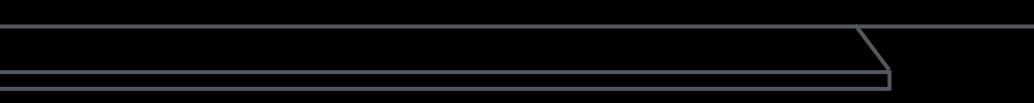


Consider your layout

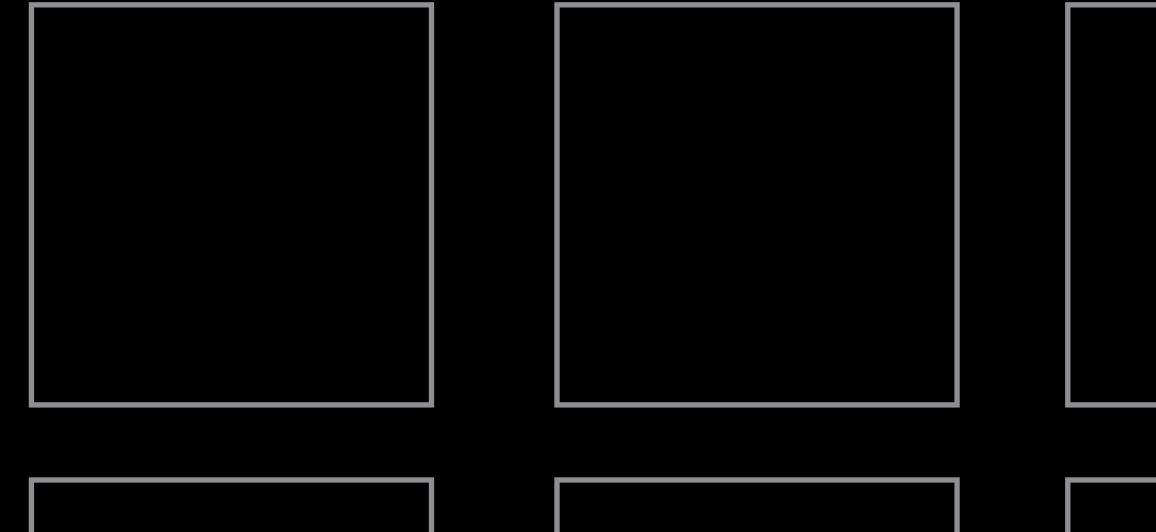
FP TOZ LPED P E C F D EDFCZP FELOPZD DEFPOTEC LEFODPCT FDFLTCDO

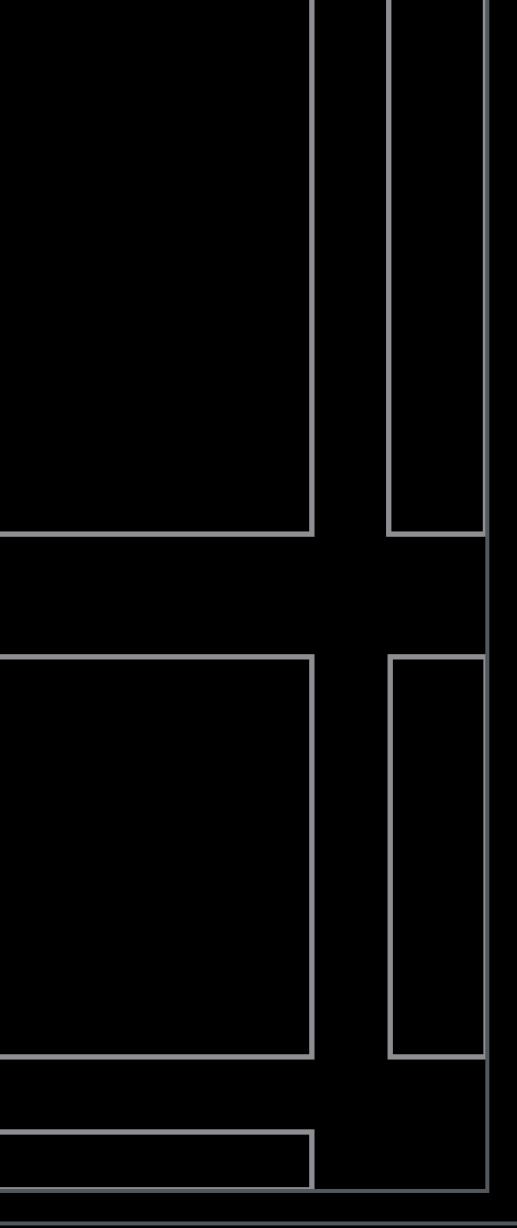
LFNHQORP



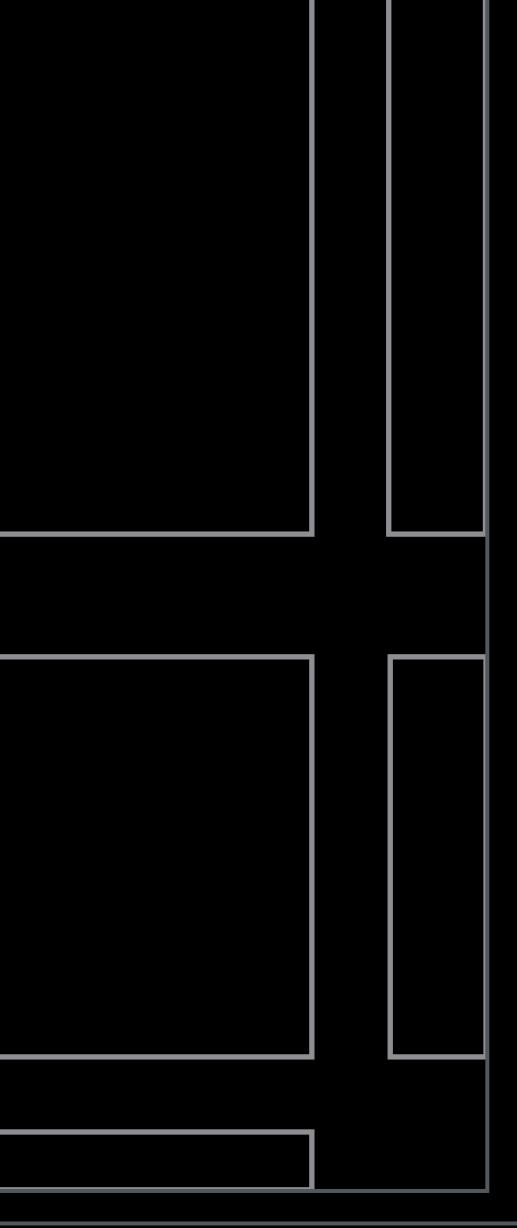


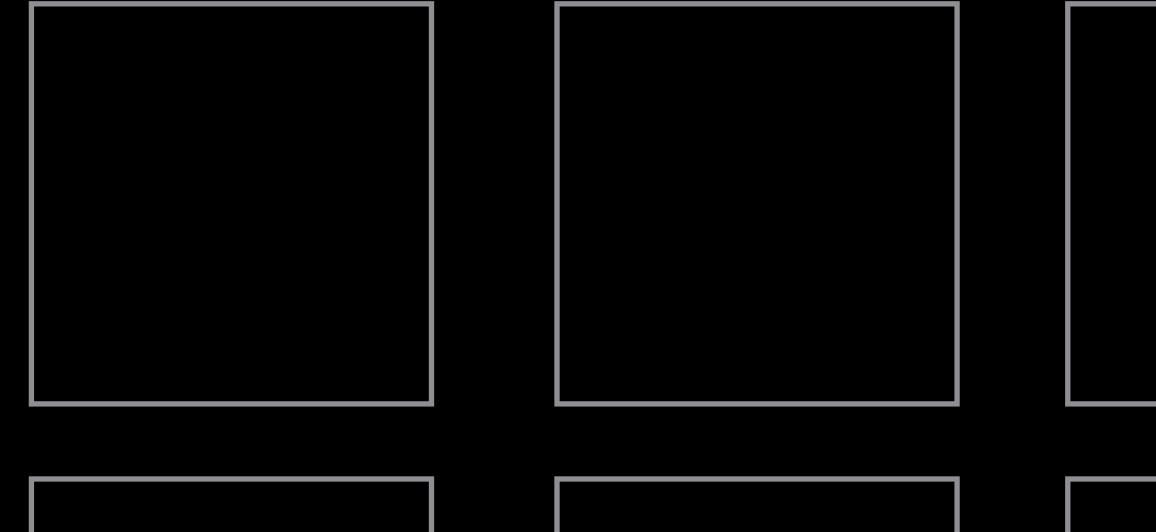


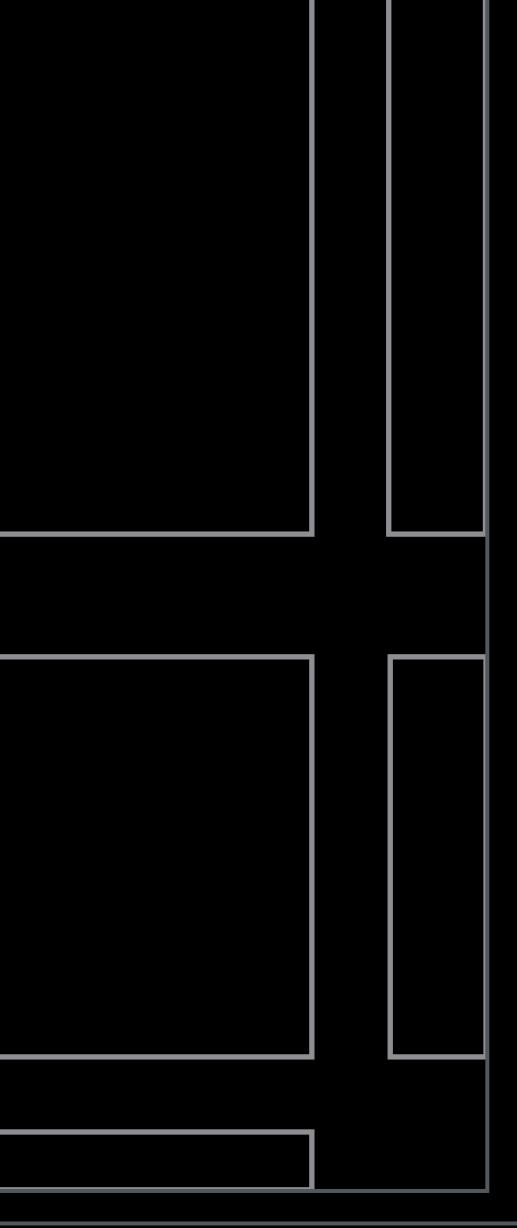


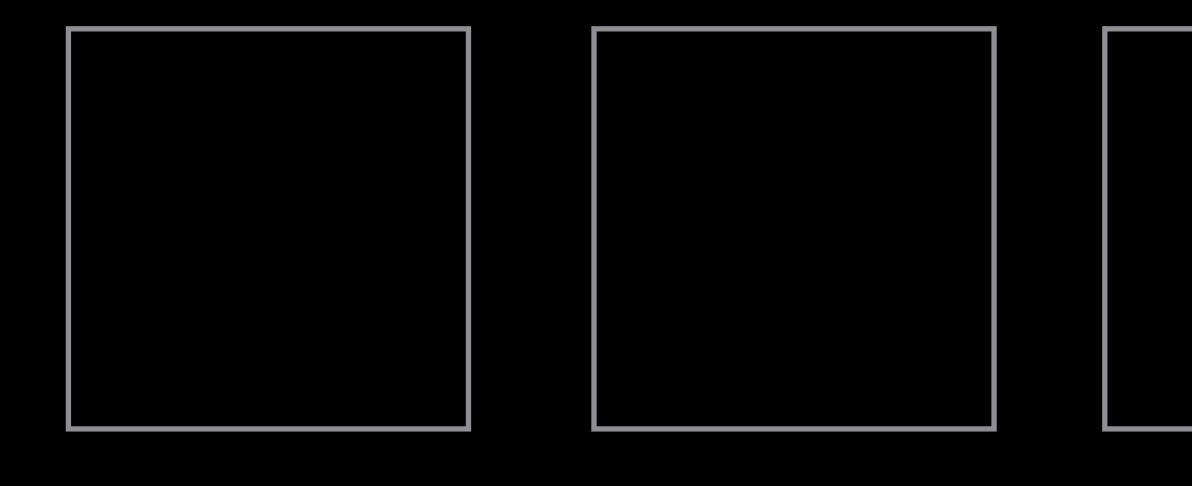


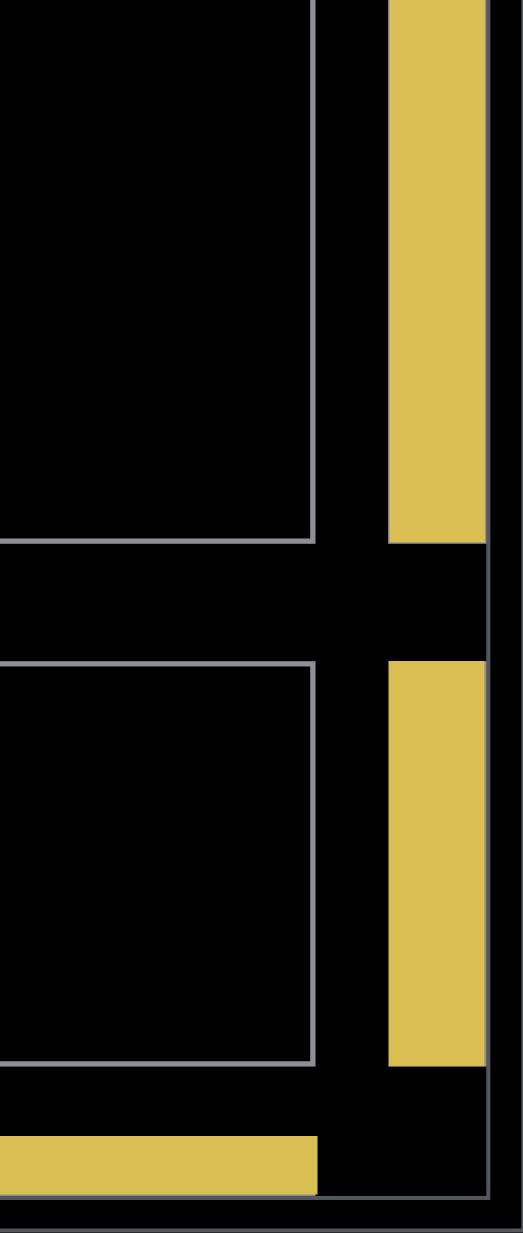
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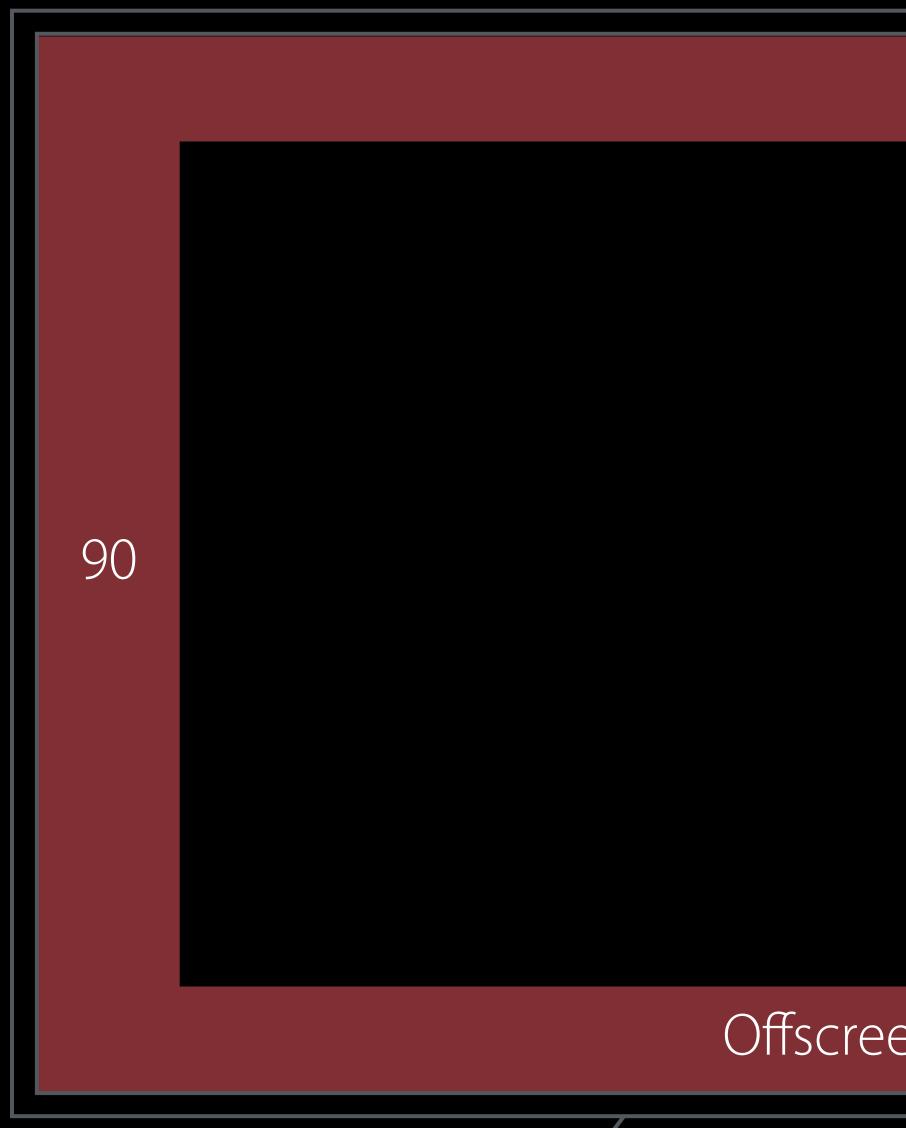




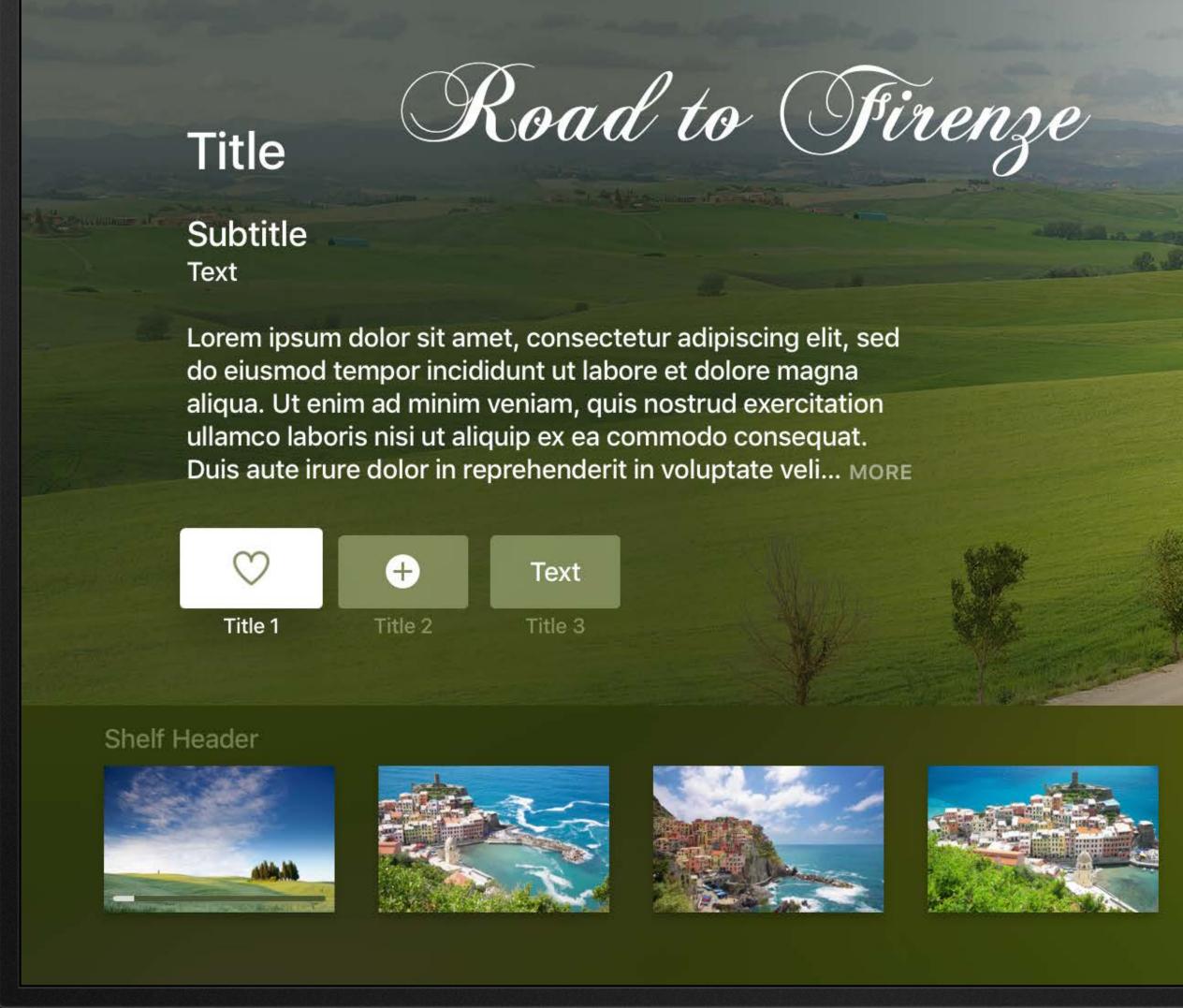








Offscreen Content OK







section header Title 1	6	calls of THE PLE
Title 2	8	
Title 3	12	
		<text></text>

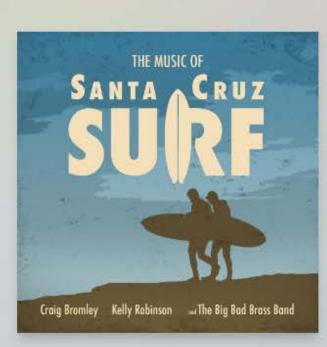
Title

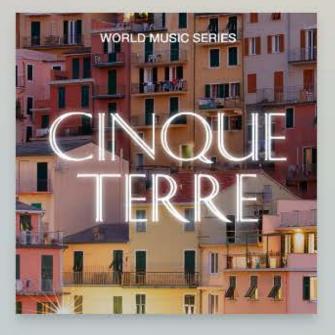


















 \equiv \oplus

Use layout templates to build me needs to present content beautiful

Grids

Collections of content tend to wor a distance, and are quick to naviga

The following grid layouts and con spacing between unfocused rows

Three-Column Four-Column



If you use the collection view flow element provided by UIKit, the number of columns in a grid is automatically determined based on the width and spacing of your content. For implementation details, see UICollectionViewFlowLayout Class Reference.

Label

zone.

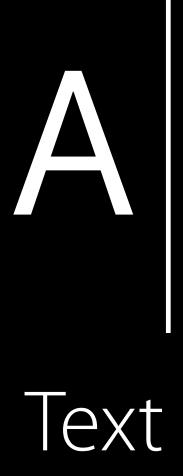
Include additional vertical spacing for titled rows. If a row has a title, provide appropriate spacing between the bottom of the previous unfocused row and the center of the title. Then, provide additional spacing between the

15 🚺 🚺 🐼 📀 🤜 🏹 🛄 🝸 🕡 🐼

Apple Inc.	C	0 1
edia-centered apps. If your app la	ayout requires minimal customization and simply	
lly, use a predesigned layout temp	plate. See Layout Templates.	
k well in grid format on Apple TV. te with the remote.	They showcase content well, are easy to browse at	
	iewing experience. Be sure to use appropriate	
	when an item is brought into focus.	
Five-Column Six-Column	Seven-Column Eight-Column Nine-Column	
	Three-Column Grid	
	Unfocused content width 548px	
	Horizontal spacing 48px	
	Minimum vertical spacing 100px	

Adhere to the screen's safe zone. Inset primary content 60px on the top and bottom of the screen, and 90px on the sides. Only partially displayed offscreen content and elements that deliberately flow offscreen should appear in this





Ultralight Thin Regular Medium Semibold Bold

Ultralight Thin Regular Medium Semibold

Bold



Ultralight Thin Regular Medium Semibold

Bold



Ultralight Thin Regular Medium Semibold

Bold



San Francisco



Settings

General

Accounts Audio and Video Notifications AirPlay **Remotes and Devices** Apps Network System

Sleep Now



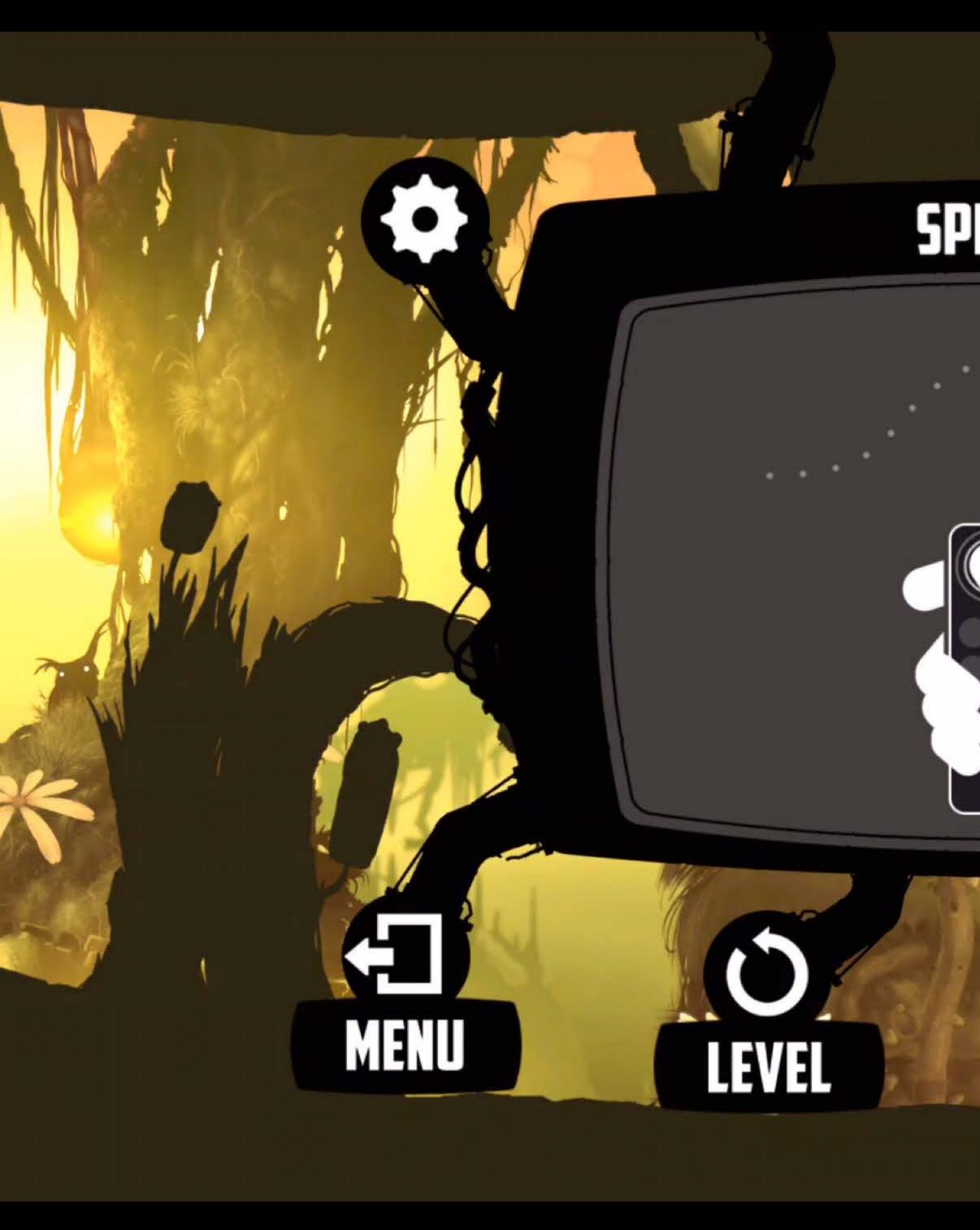


Settings

General

Accounts **Audio and Video** Notifications AirPlay **Remotes and Devices** Apps Network System **Sleep Now**





SPIRAL

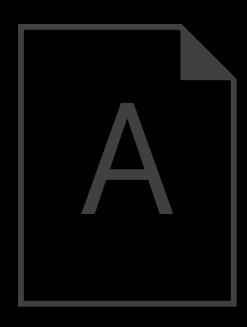
RESUME





Character

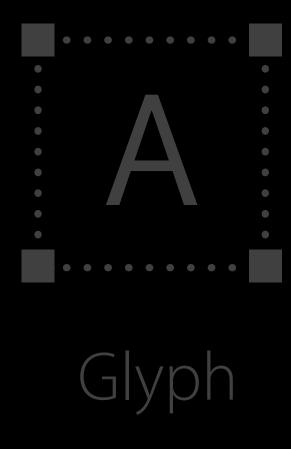
A A A A Style

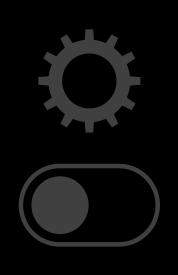


Text

Д

Font



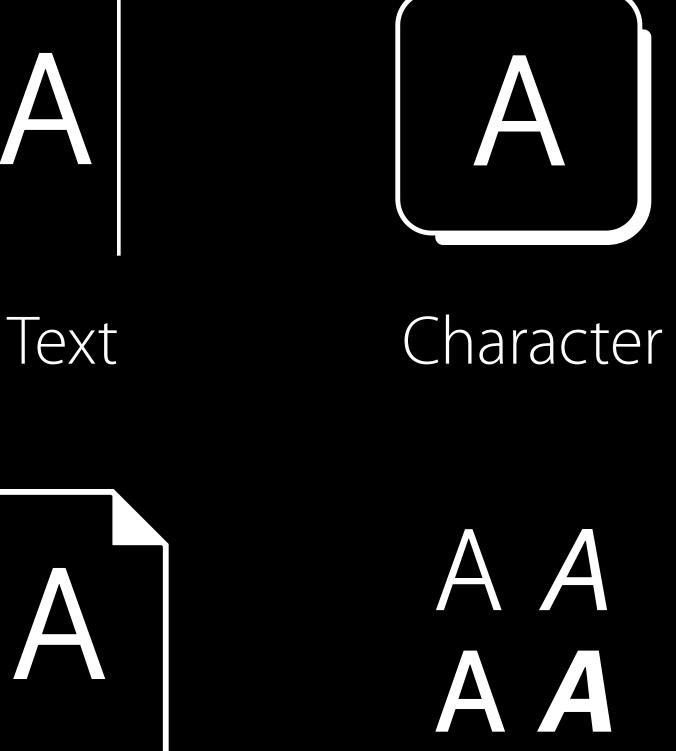


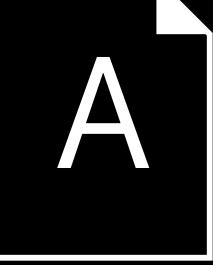
Feature





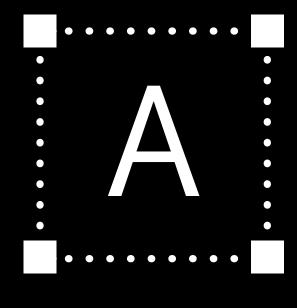
Typography



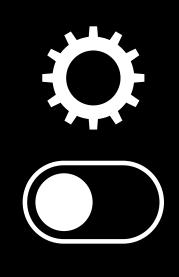


Font

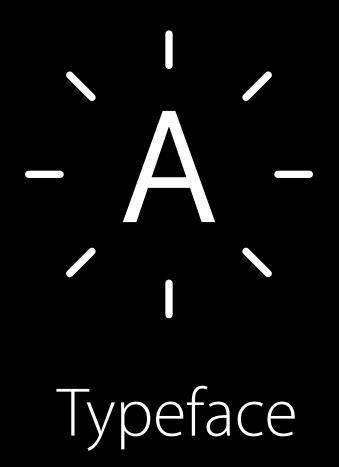
Style



Glyph

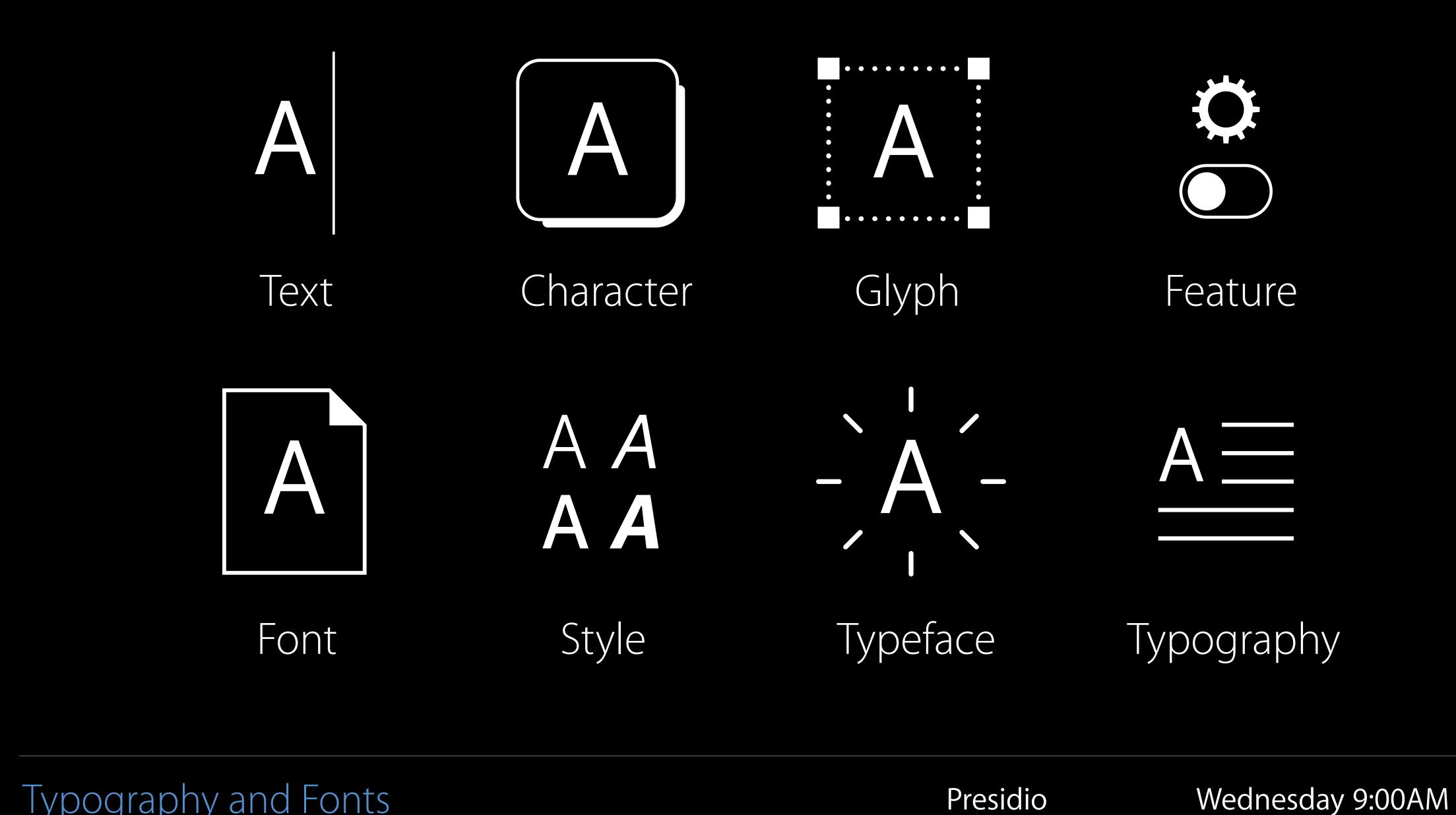


Feature

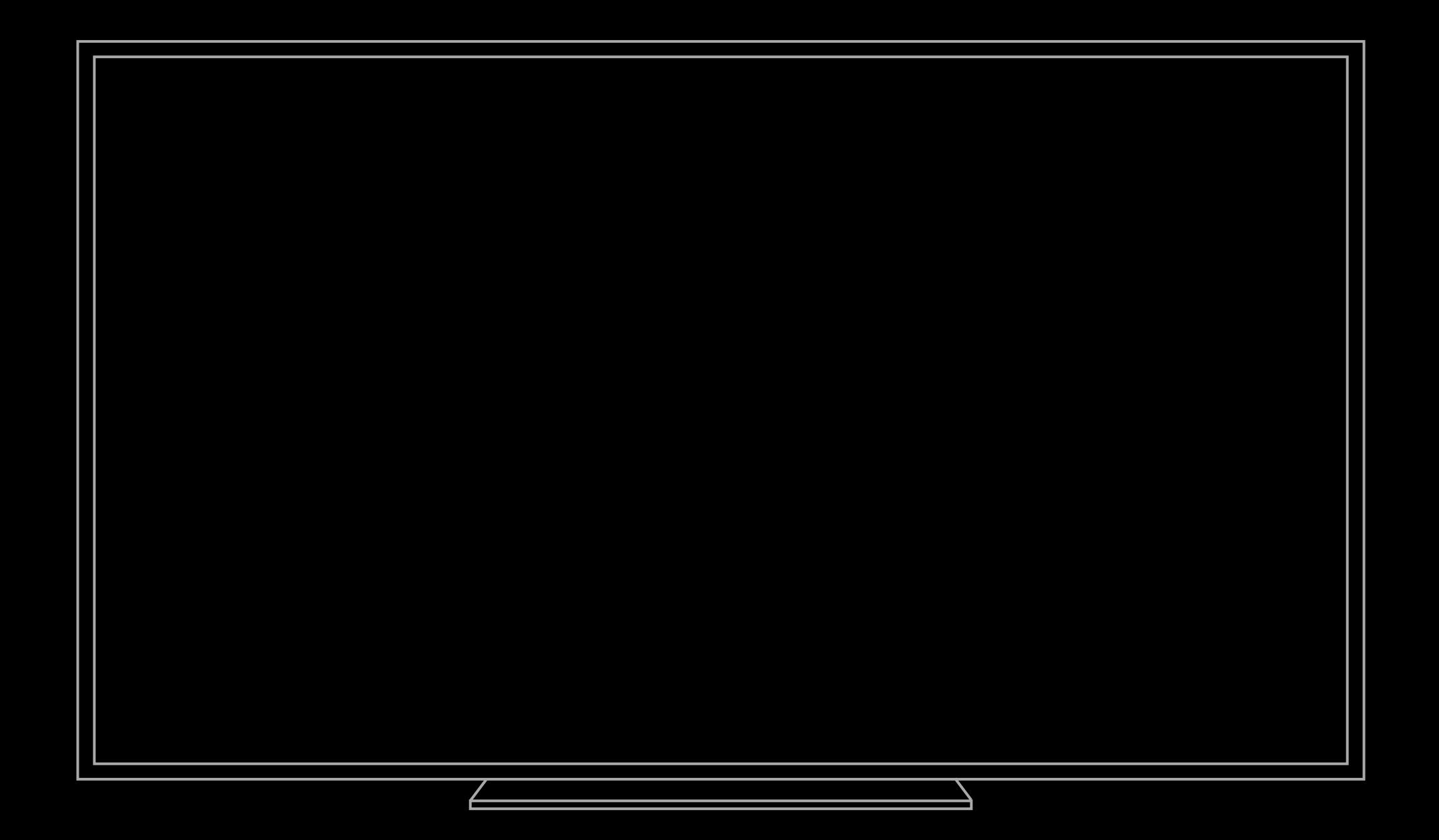


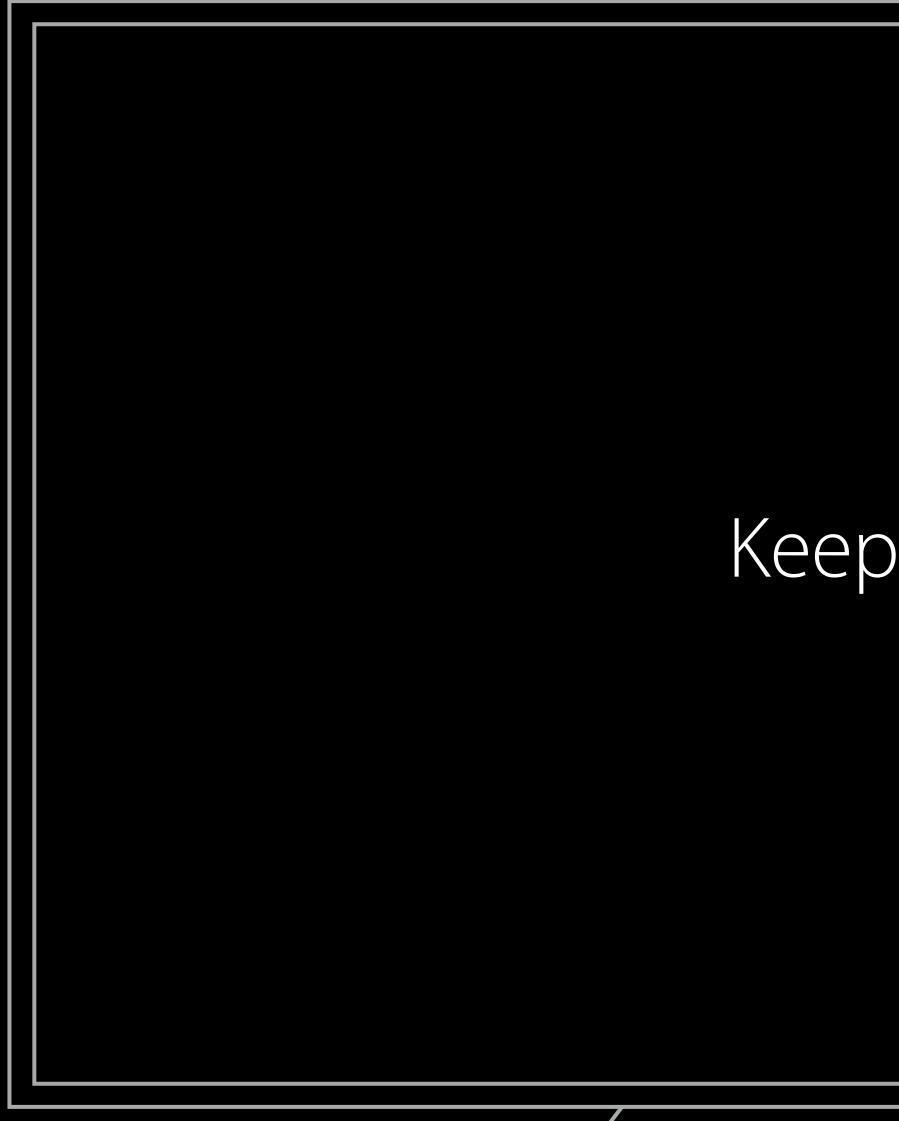


Typography

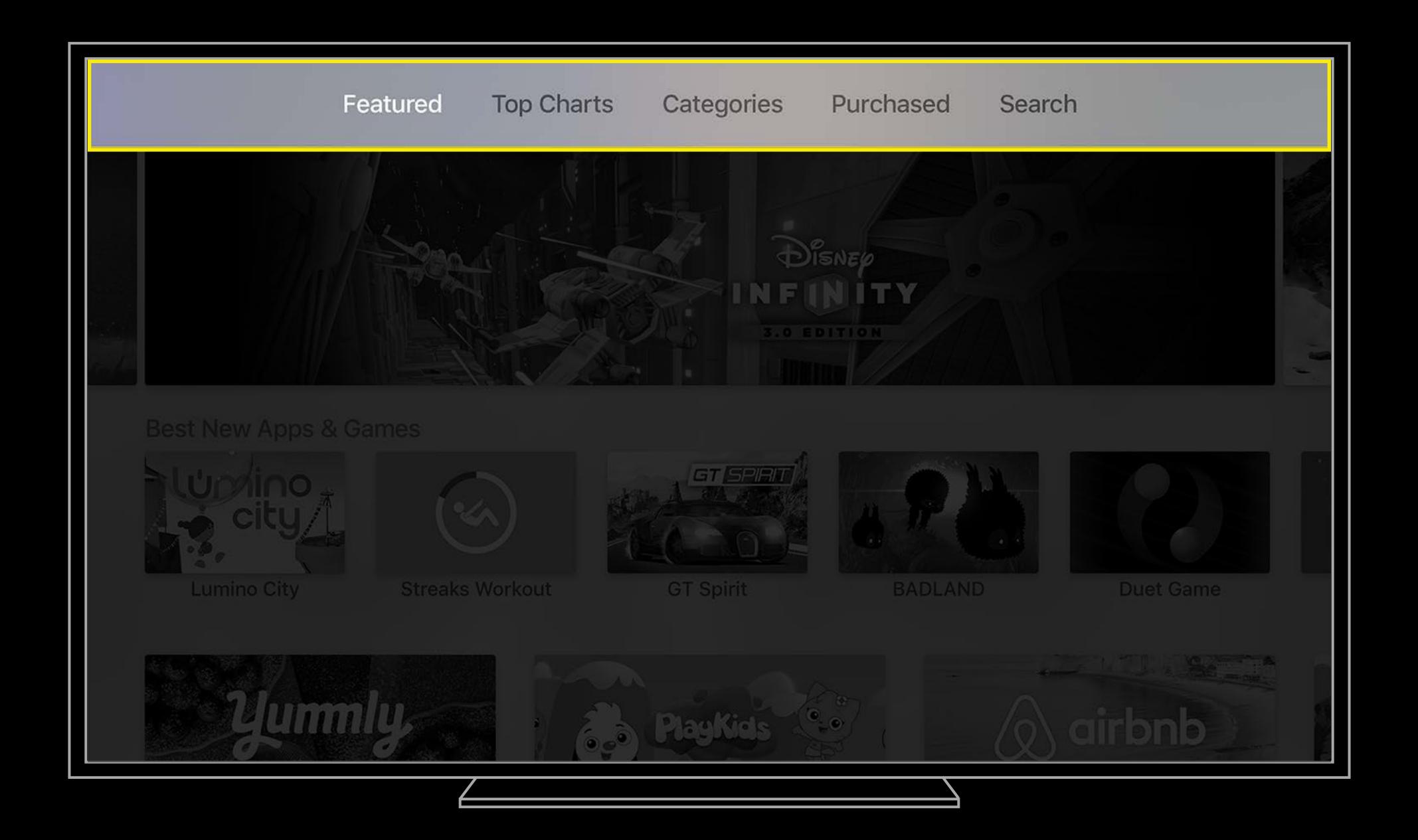


Typography and Fonts





Keep it simple.





Settings

General Accounts Audio and Video Notifications AirPlay Remotes and Devices

Apps

Network

System

Sleep Now

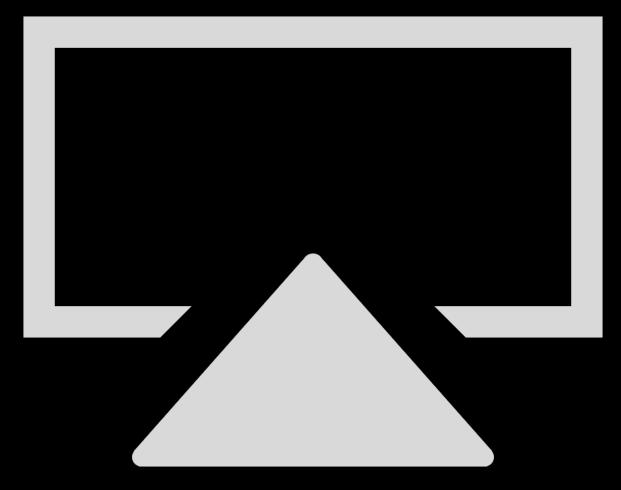


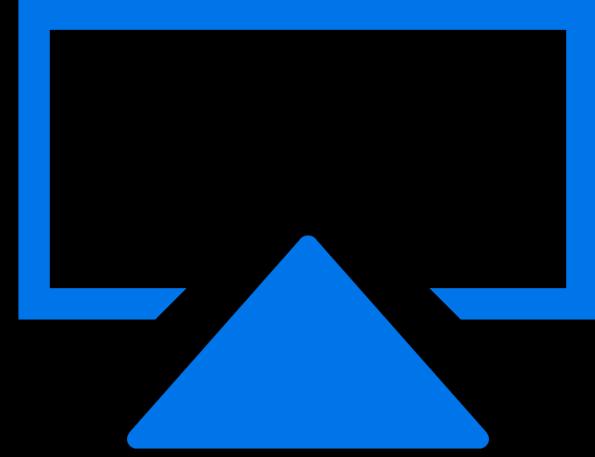
Use large graphics and interface elements

Use large graphics and interface elements Provide space and padding

Use large graphics and interface elements Provide space and padding Text legibility is essential

Use large graphics and interface elements Provide space and padding Text legibility is essential Approachable hierarchy







Designing for tvOS

Basics Distance Remote Features Apps

Designing for tvOS

Basics Distance Remote Features

Apps



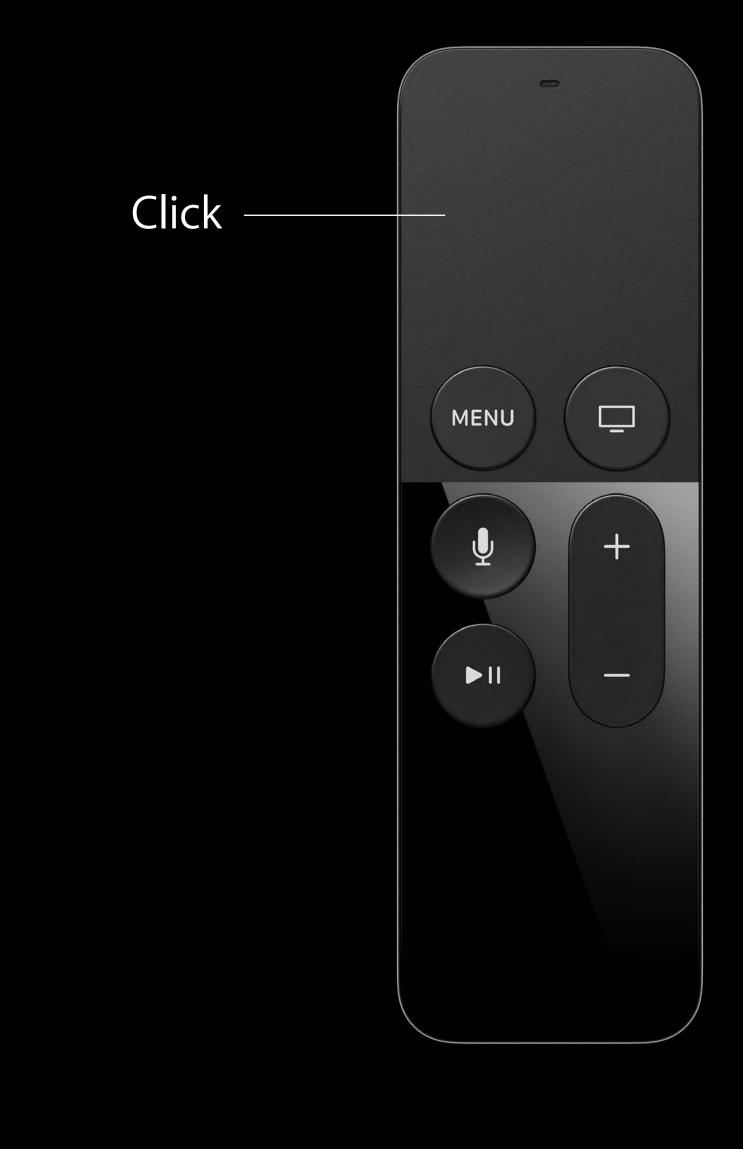






















Play/Pause

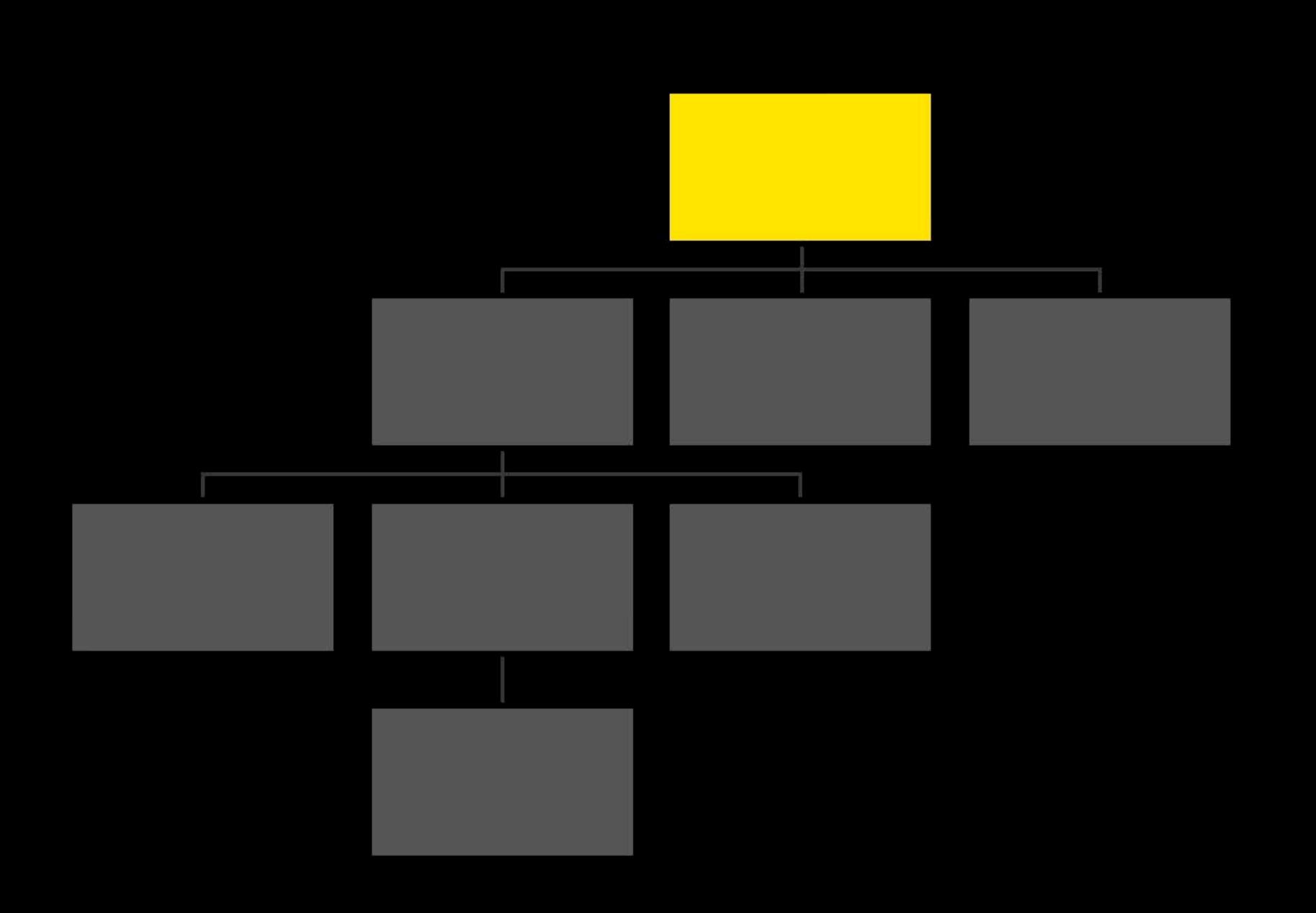




















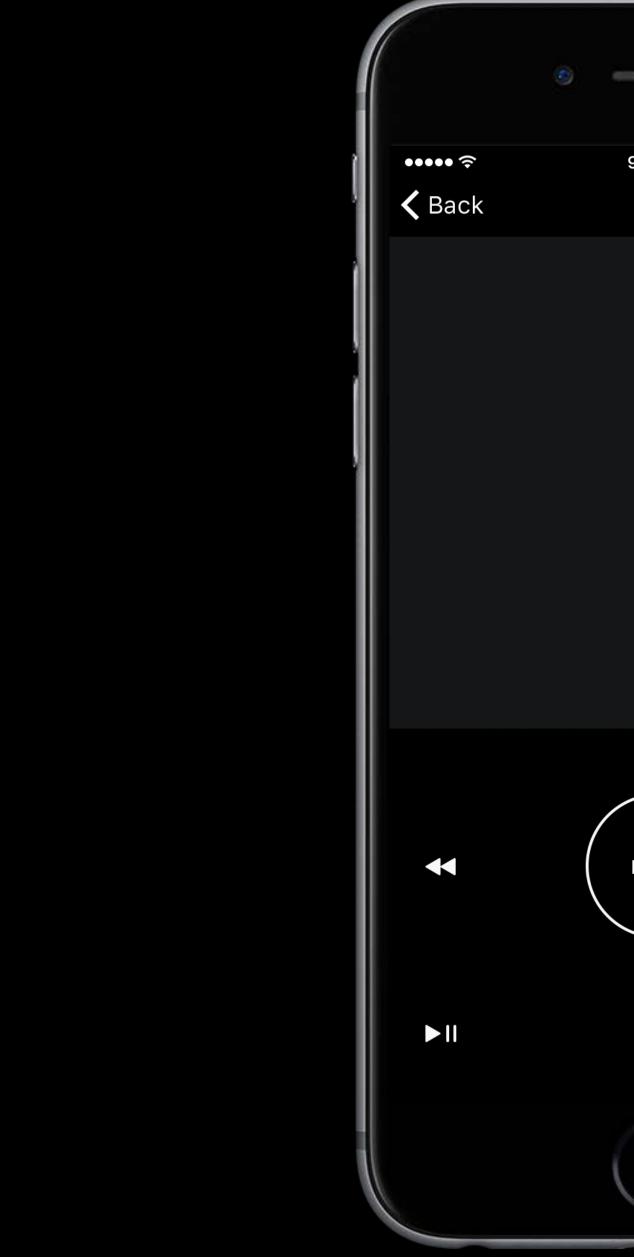




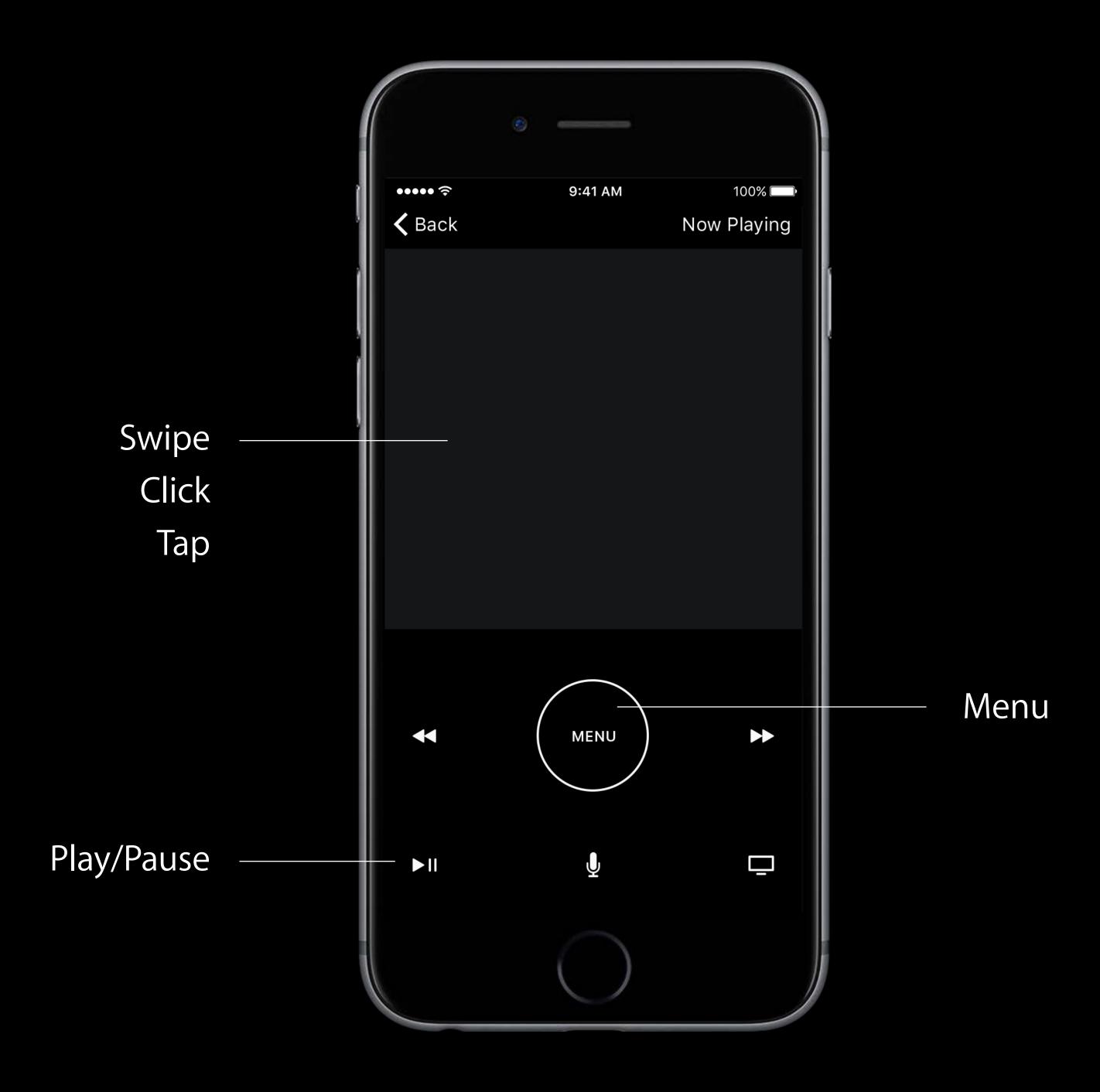








9:41 AM	100% m
MENU	►
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Navigate and Play



Navigate and Play Inform if required



Navigate and Play Inform if required Inform if not connected



Navigate and Play Inform if required Inform if not connected Siri Remote



Navigate and Play Inform if required Inform if not connected Siri Remote Don't miss out!







Focus

print("Hello, WWDC!")

learnAbout(OSX, iOS, watchOS, tvOS)

let videos = liveStreaming let date = "June 13-17" let location = yourLivingRoom let WWDC16 = gameChanging

watchNow()



watchNow()











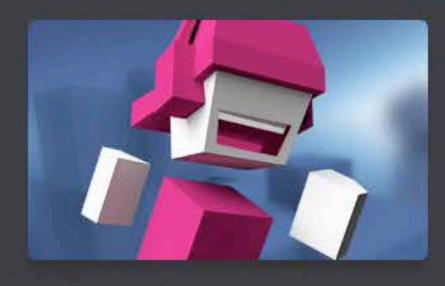
App Store

tv shows iTunes

ADTSV













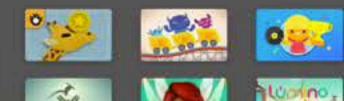


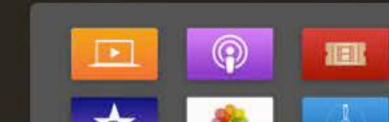














(**≜**98% ≤ 8+ 1 hr 49 min 2016 (**PG**) (**HD**) (CC) (AD)

GENRE Kids & Family

DIRECTOR **Rich Moore Byron Howard**

STARRING

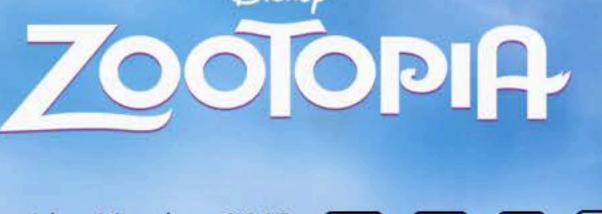
Ginnifer Goodwin Jason Bateman Idris Elba Jenny Slate Disney presents a heartwarming comedy-adventure set in the modern mammal metropolis of Zootopia. With habitat neighborhoods like ritzy Sahara Square and frigid Tundratown, it's a melting pot where animals from every environment live together—a place where no matter... MORE

DISNEP

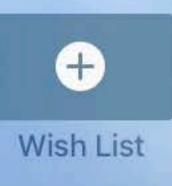
\$19.99 \$5.99 Preview Rent Buy With iTunes Extras

Viewers Also Watched





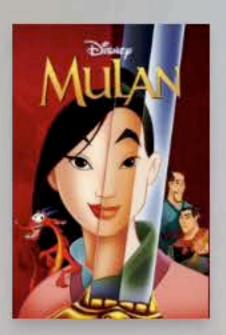














watchNow()















App Store



ADT SV











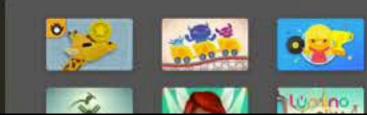


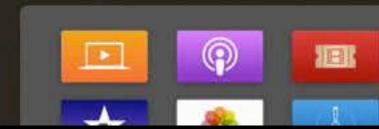




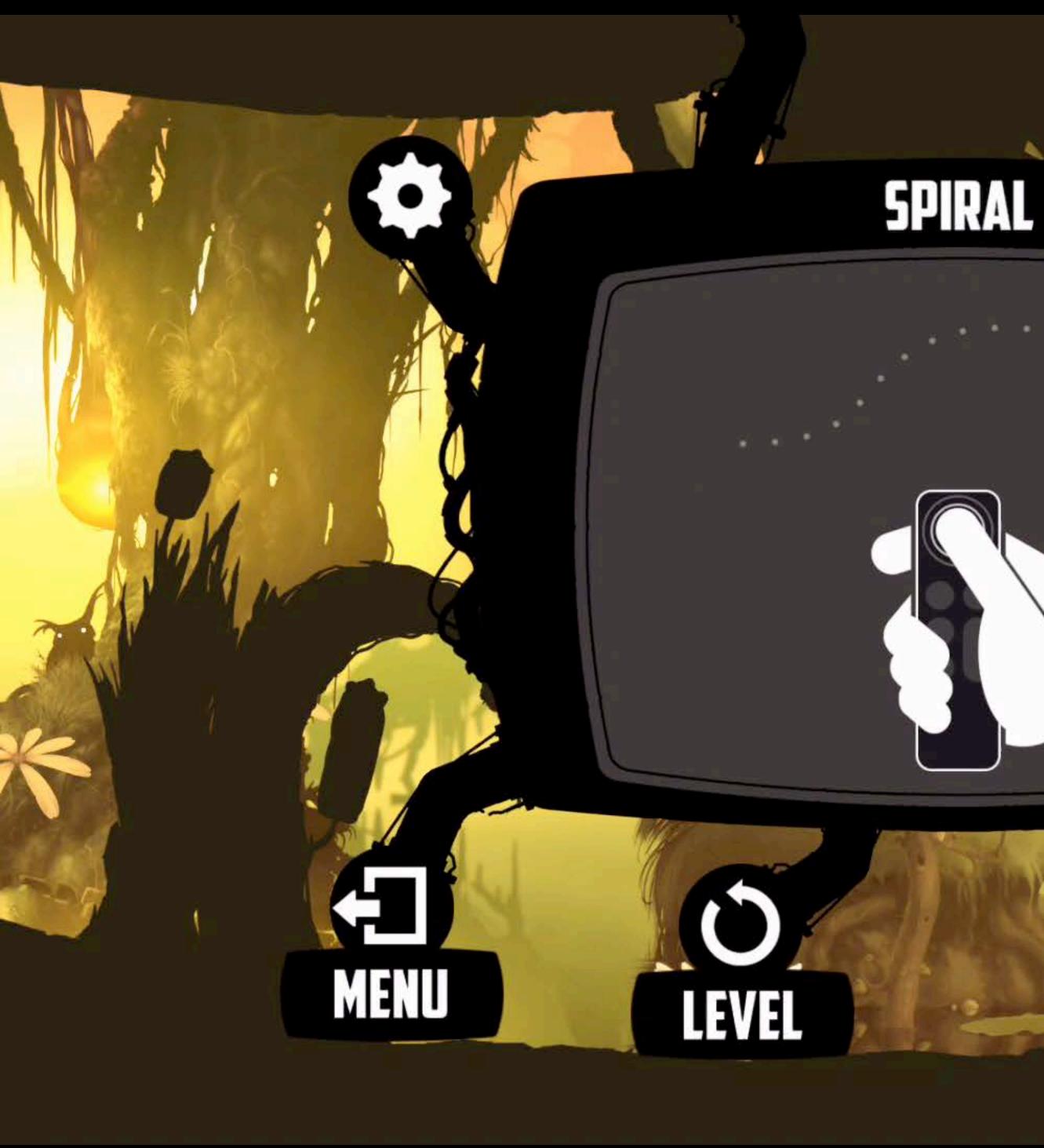












RESUME



Focus Interaction on tvOS

FOCUS

Mission

Wednesday 4:00PM

watchNow()









Foodo World



tv shows iTunes



ADTSV











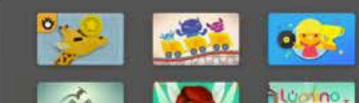


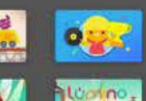


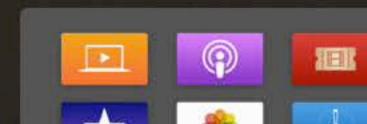


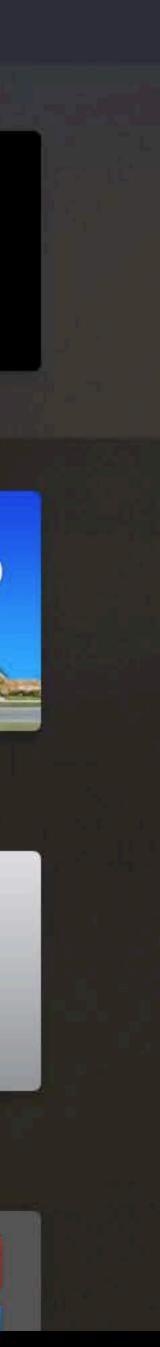












Intuitive gestures and buttons

Intuitive gestures and buttons Use the focus model

Intuitive gestures and buttons Use the focus model Make focus obvious

Intuitive gestures and buttons Use the focus model Make focus obvious Don't break connection

Designing for tvOS

Basics Distance Remote Features

Apps

Designing for tvOS

Basics Distance Remote

Features

Apps



Features

Appearance Badging Maps ReplayKit Long List Scrolling HomeKit Game Center Updates Multi-Peer Connectivity PhotoKit



Features

Appearance Badging Maps ReplayKit Long List Scrolling

HomeKit Game Center Updates Multi-Peer Connectivity PhotoKit





General

About	>
Screensaver	Aerial >
Appearance	Light
Sleep After	1 hour
Accessibility	>
Restrictions	Off >
Privacy	>
SIRI	
Siri	On
Language	English (United States)
About Siri and Privacy >	

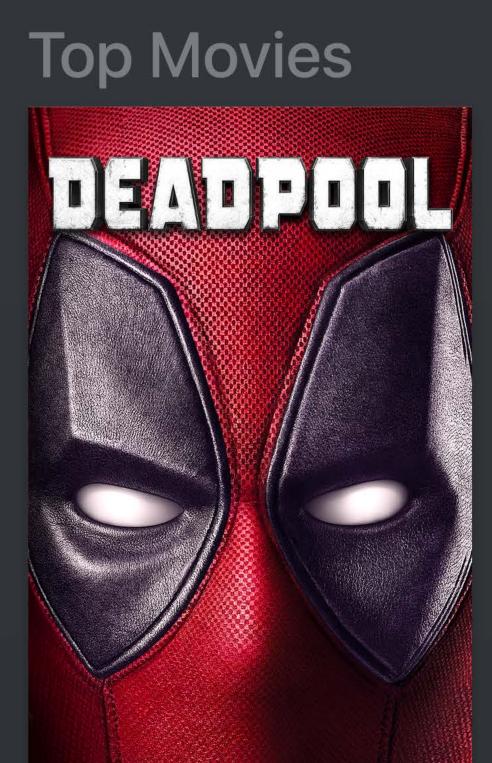




General

About	
Screensaver	Aerial >
Appearance	Dark
Sleep After	1 hour
Accessibility	>
Restrictions	Off >
Privacy	>
SIRI	
Siri	On
Language	English (United States)
About Siri and Priva	acy





FILM BY JEFF NICHOLS M SP EC

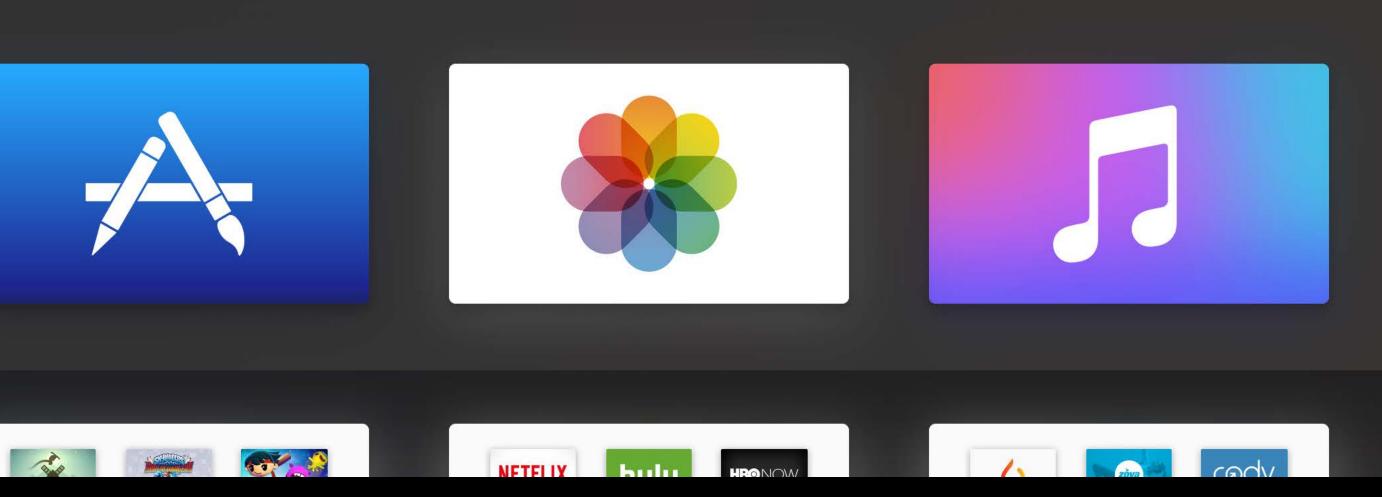
movies iTunes

Movies

tv shows iTunes



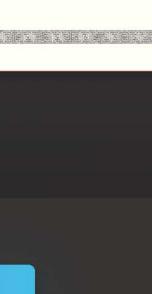












Opt in!

Accessibility

Accessibility

Voice Over Zoom Bold Text Increase Contrast Reduce Motion

Audio Descriptions Siri and Dictation Touch Surface Sensitivity Remote App for Switch Control Accessibility Shortcut

Accessibility

Audio Descriptio Voice Over Siri and Dictation Zoom Touch Surface Sensitivity Bold Text Increase Contrast Remote App for Switch Control Reduce Motion Accessibility Shortcut

Accessibility User Interface by Appointme

Accessible Technology and Inclusive Desig

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ent Lab	UI Design Lab A	Wednesday 9:00AM
gn	Buena Vista Park	Wednesday 6:15PM

Designing for tvOS

Basics Distance Remote

Features

Apps

Designing for tvOS

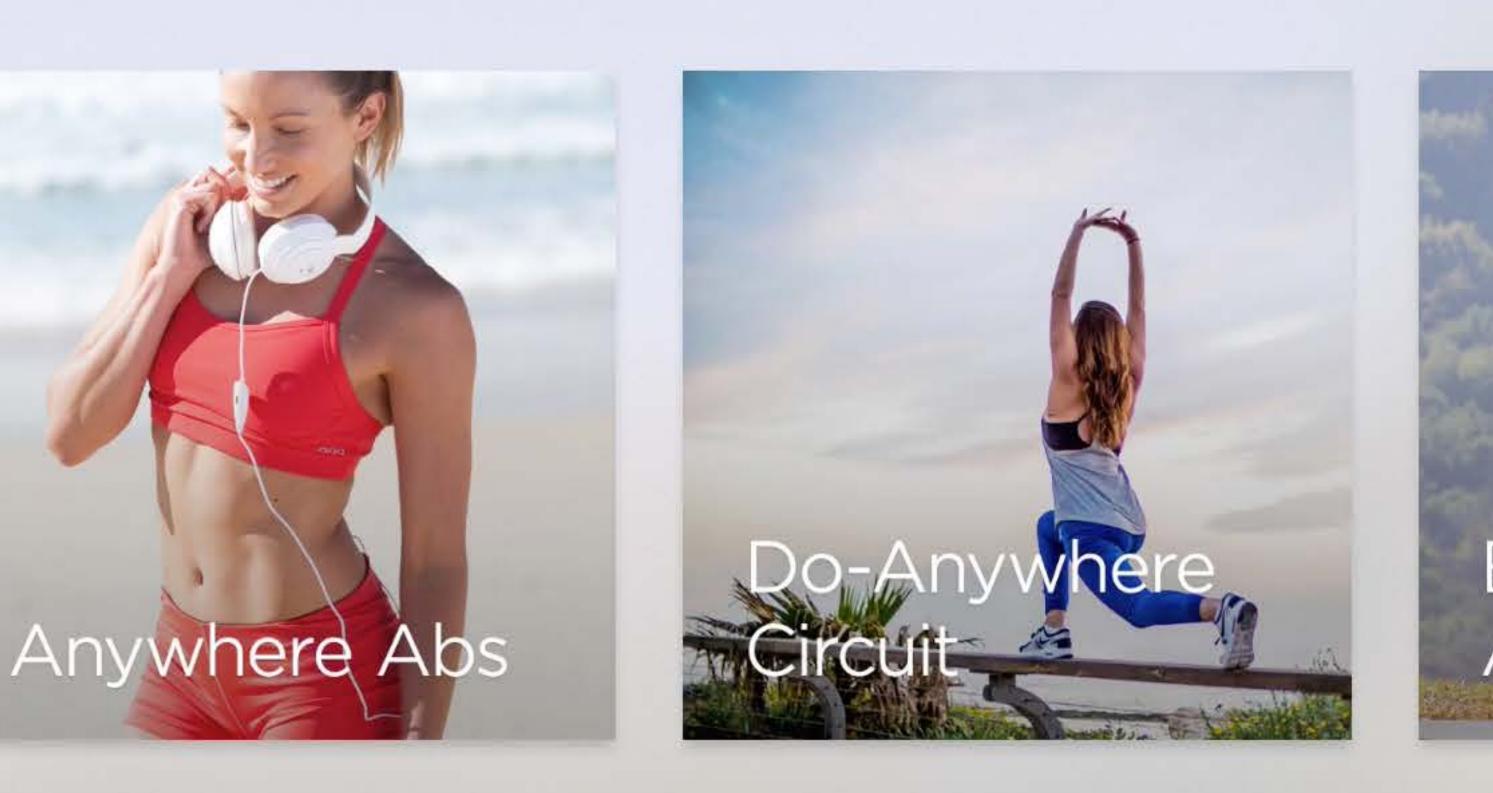
Basics Distance Remote Features

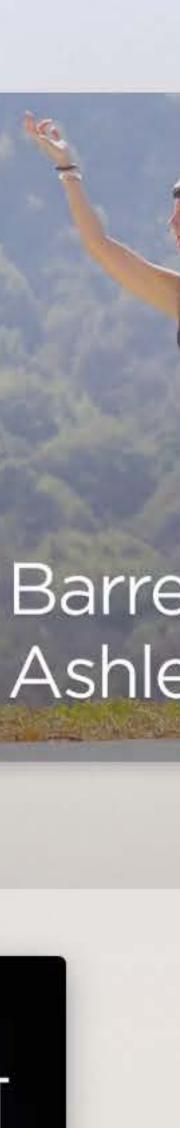
Apps

Editor's Choice

Calm & Collected









WORKOUT OF THE DAY

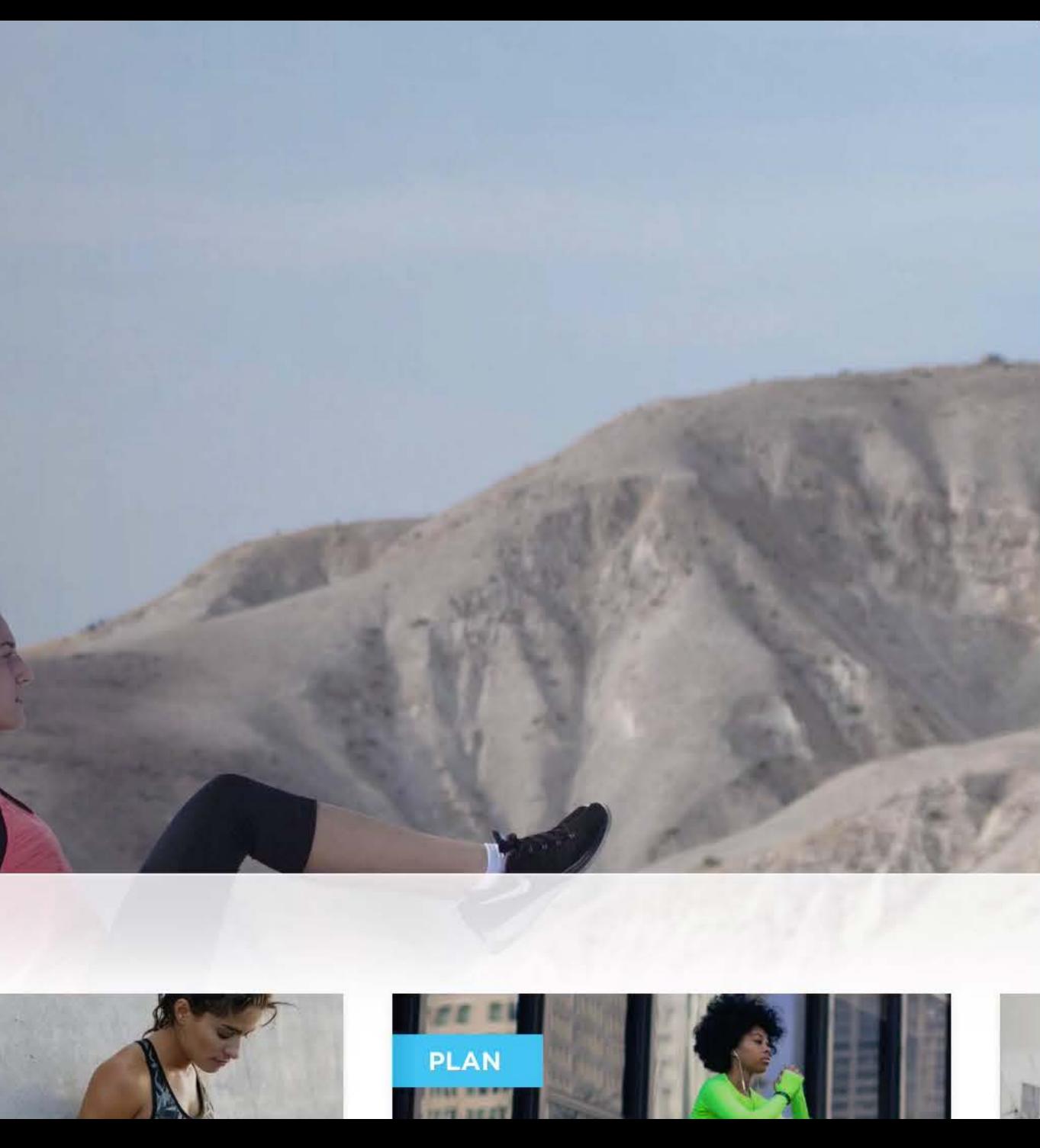
Quick Abs

Sometimes, life is frantic and there's no time to think about what to have for dinner, let alone whether you can attend yoga class. Make exercise a more manageable priority in

Free

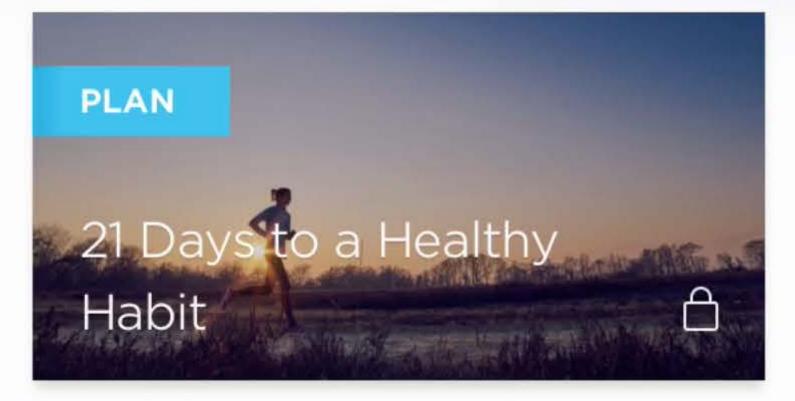
Featured

PLAN



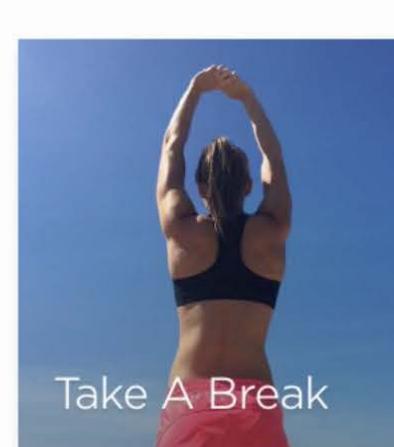


Featured



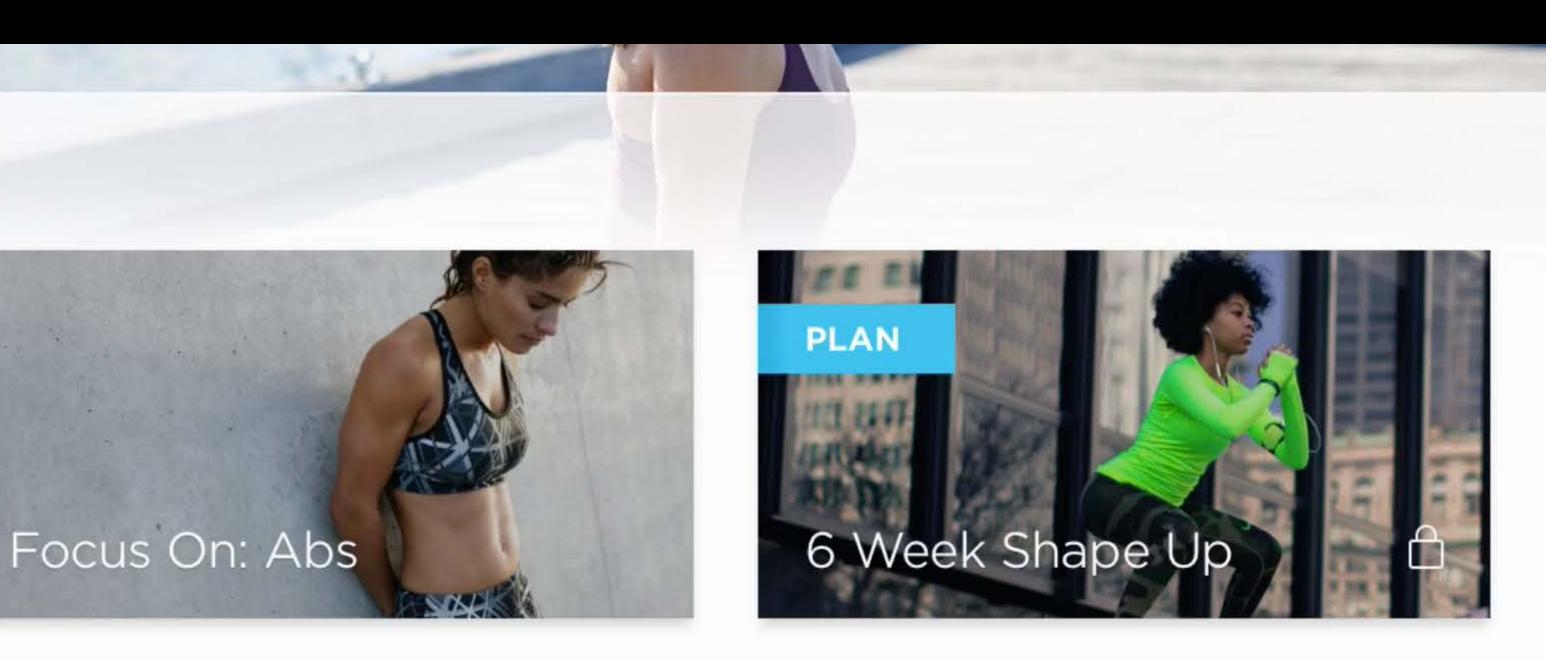
Recommended







Editors Choice

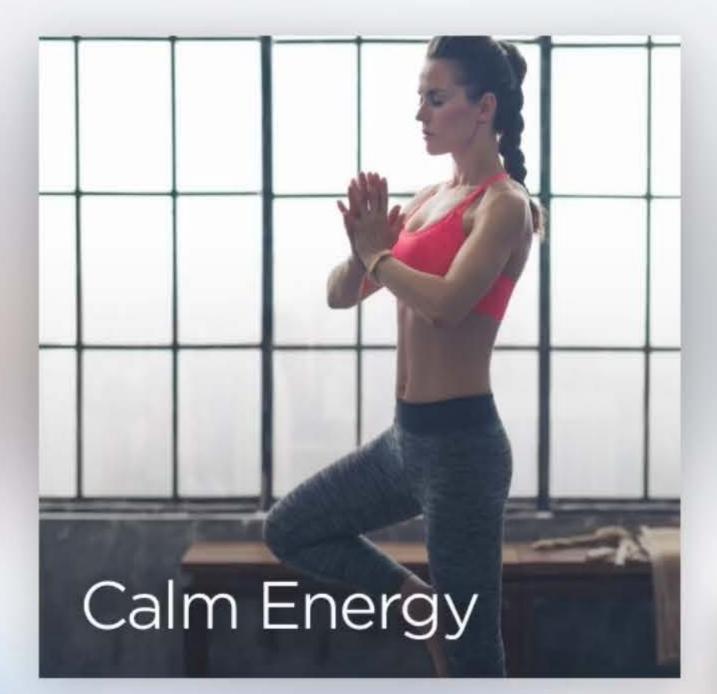


7 mins 48 kcal









13 Exercises



Extended Childs Pose



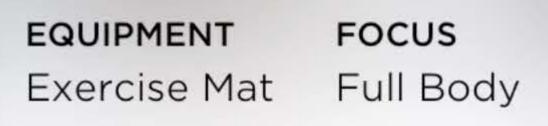
Downward Dog



Warrior 2 • Left

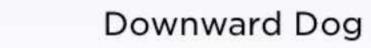
10 mins 37 Cals

Designed to leave you feeling grounded and centered in your body. Relax your body and take the time to sink into each pose.

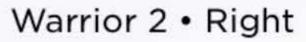














Garland Pose



Editor's Choice

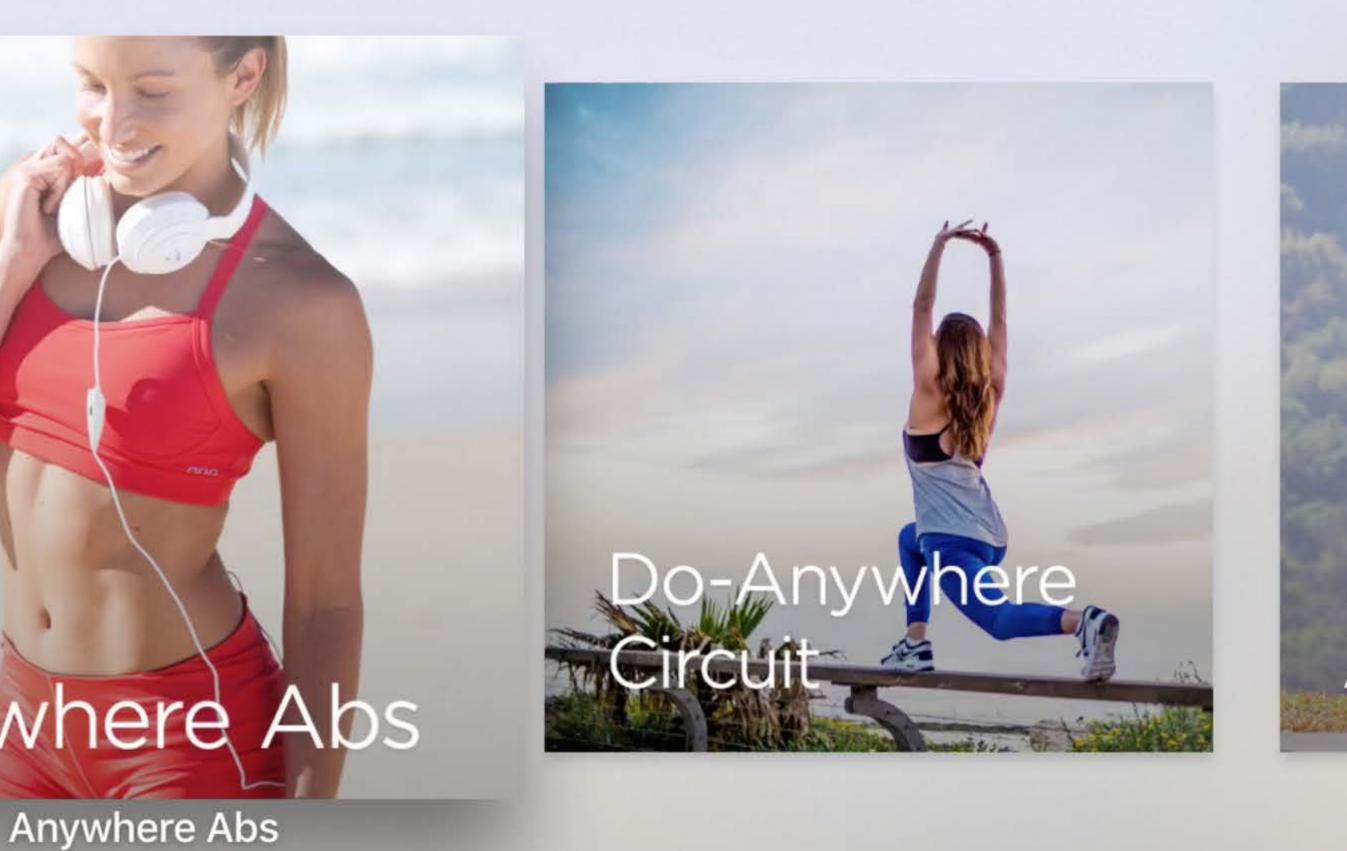
Calm & Collected

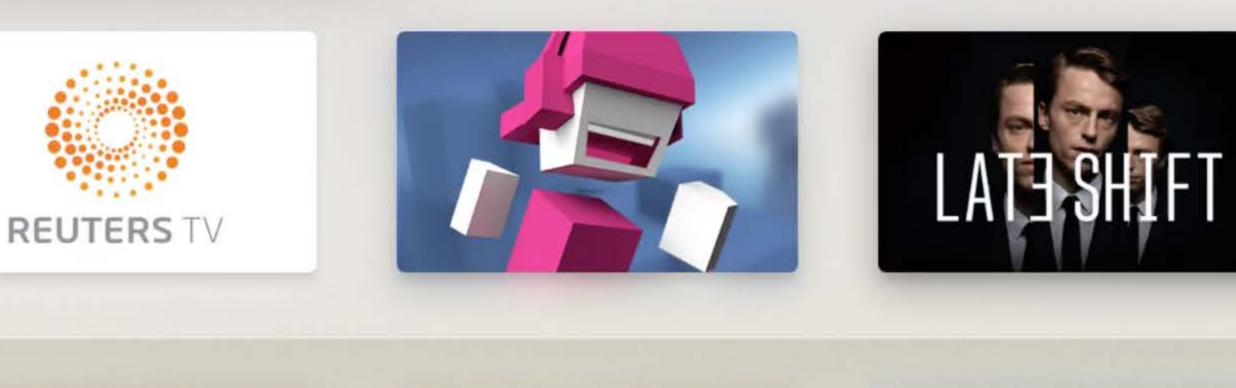
Anywhere Abs



RAYMAN







AL N









YOUR NEWS IS READY.



REUTERS TV

How much time do you have?

30























Mexico under pressure to stop migrant surge 2:01 WORLD





YOUR NEWS IS READY.



REUTERS TV

How much time do you have?







Risynd M

N N

CHAMELEON RUN



Noodlecake Studios Inc Games (4+) Editors' Choice

Chameleon Run is a unique, fast and challenging autorunner with a colorful twist. Jump, switch and run through expertly crafted levels that will have you running back for more.

Your goal is to switch your color to match the... MORE



Game Controller Optional

Screenshots





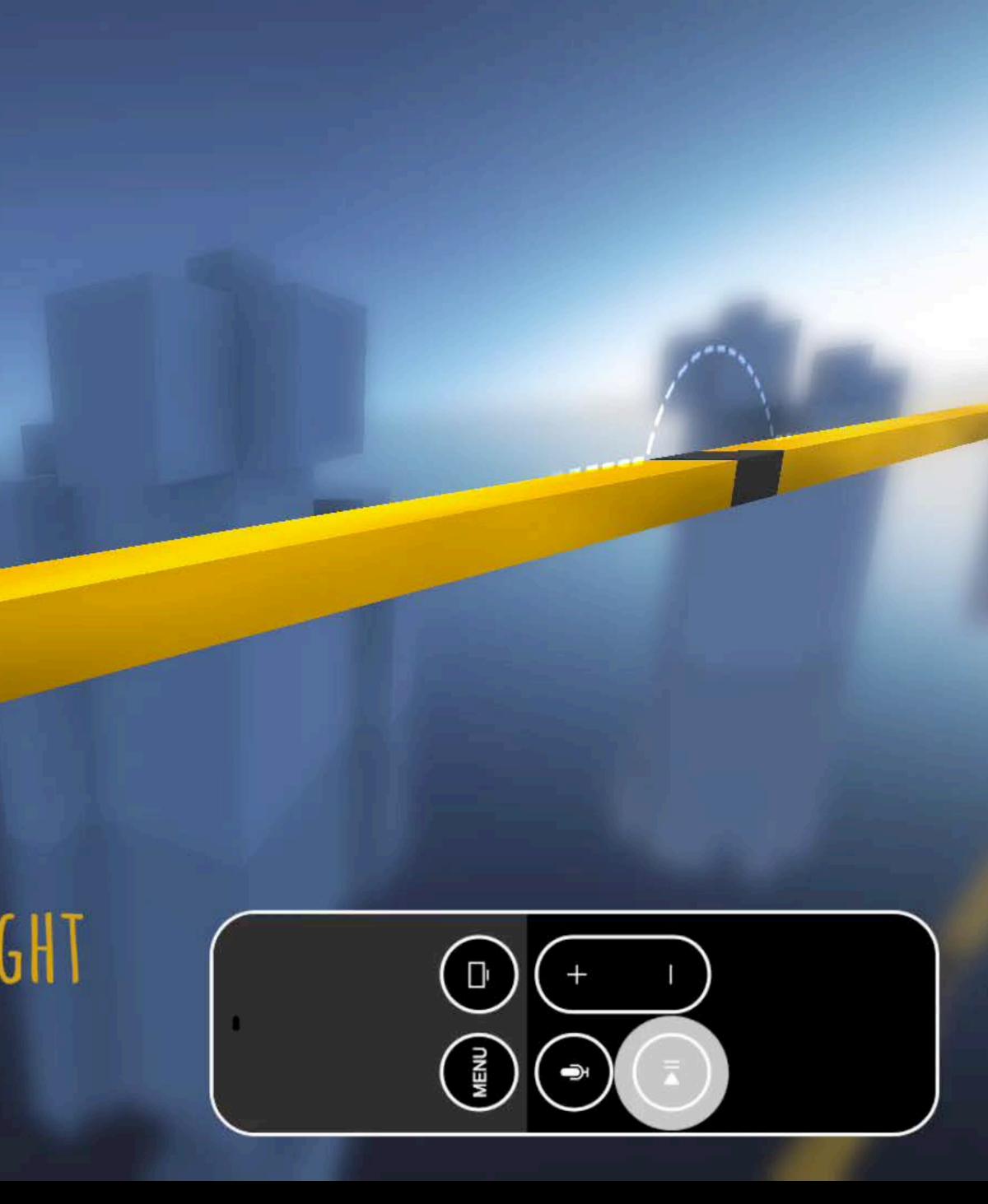








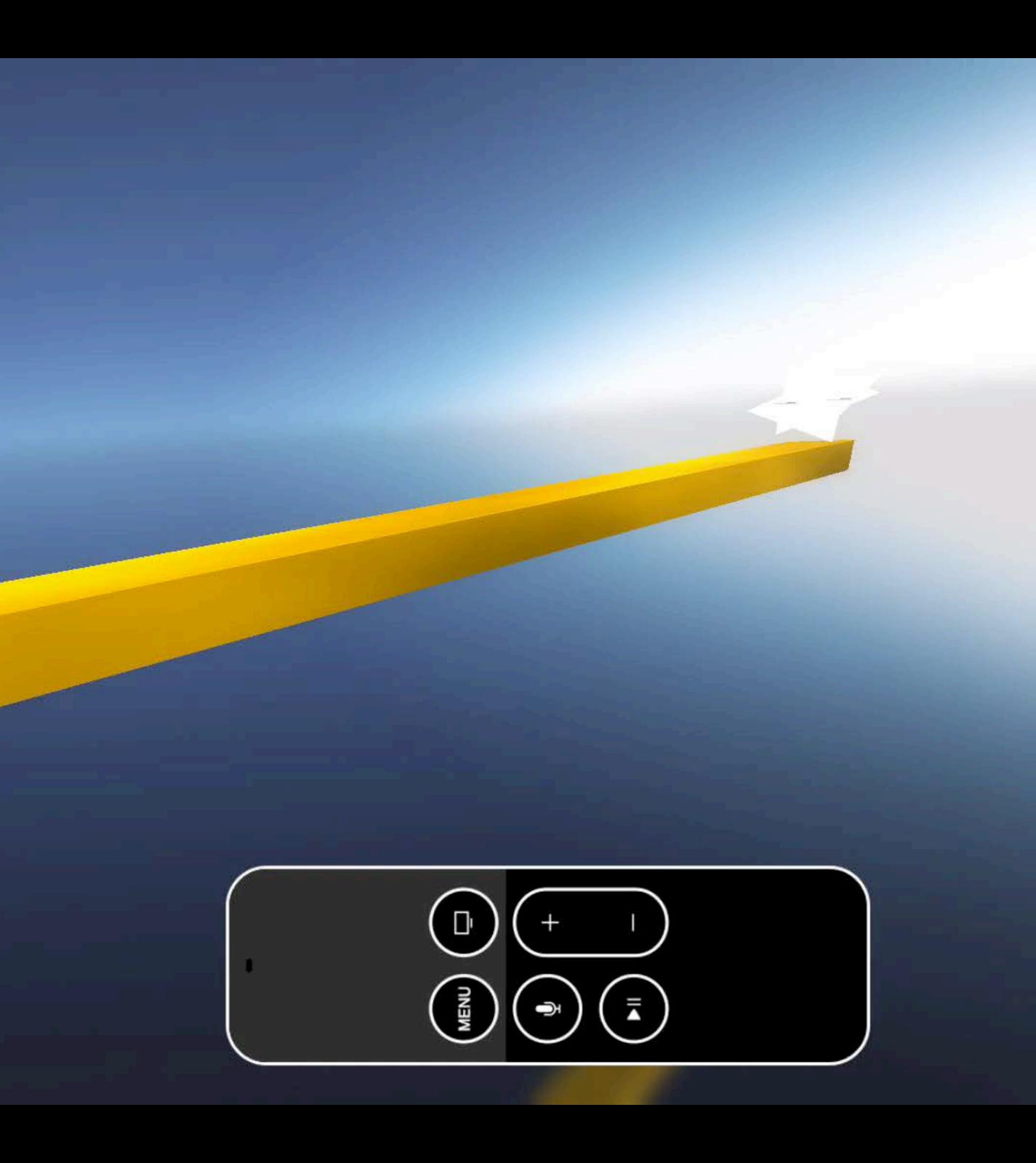
TOUCH WITH YOUR RIGHT THUMB TO JUMP.





AWESOME!

J.

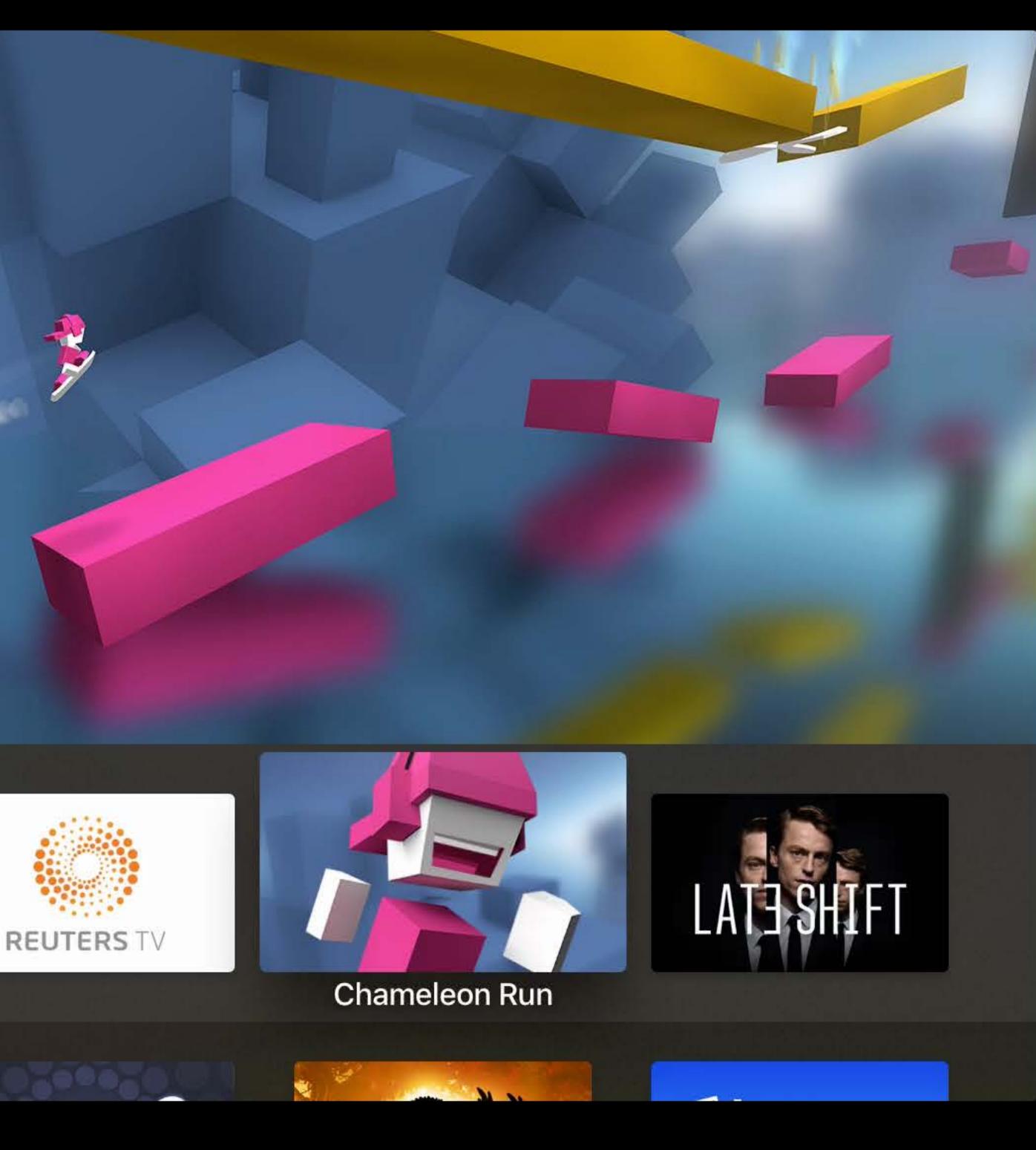


CHAMELEON RUN



RAYMAN





LATE (





RANAMAN

SHIFT





N .



Late Shift





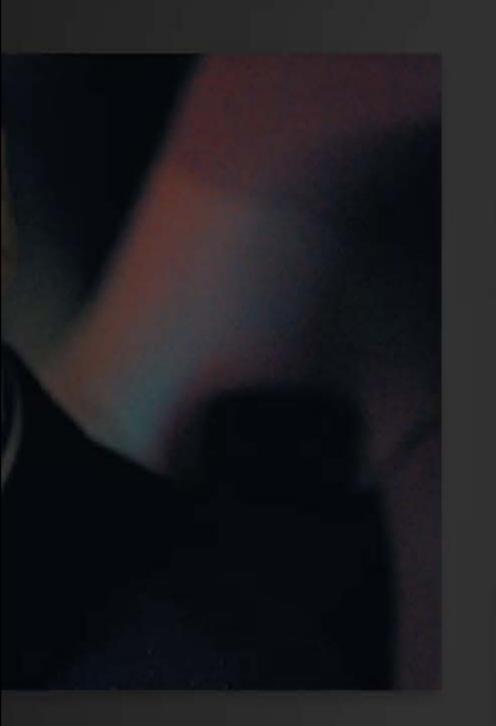
JOET BASWAN

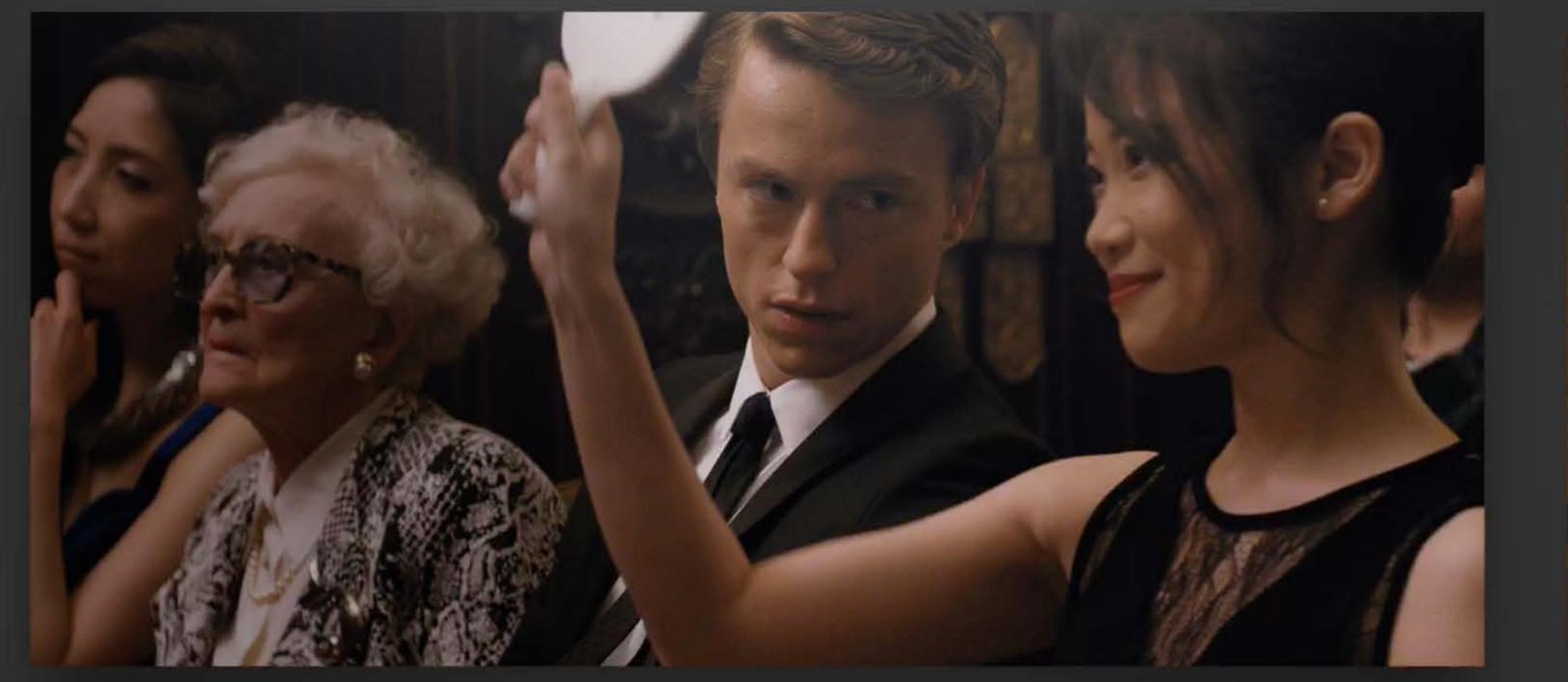
Selfless





LATE SHIFT





The Auction





The Getaway

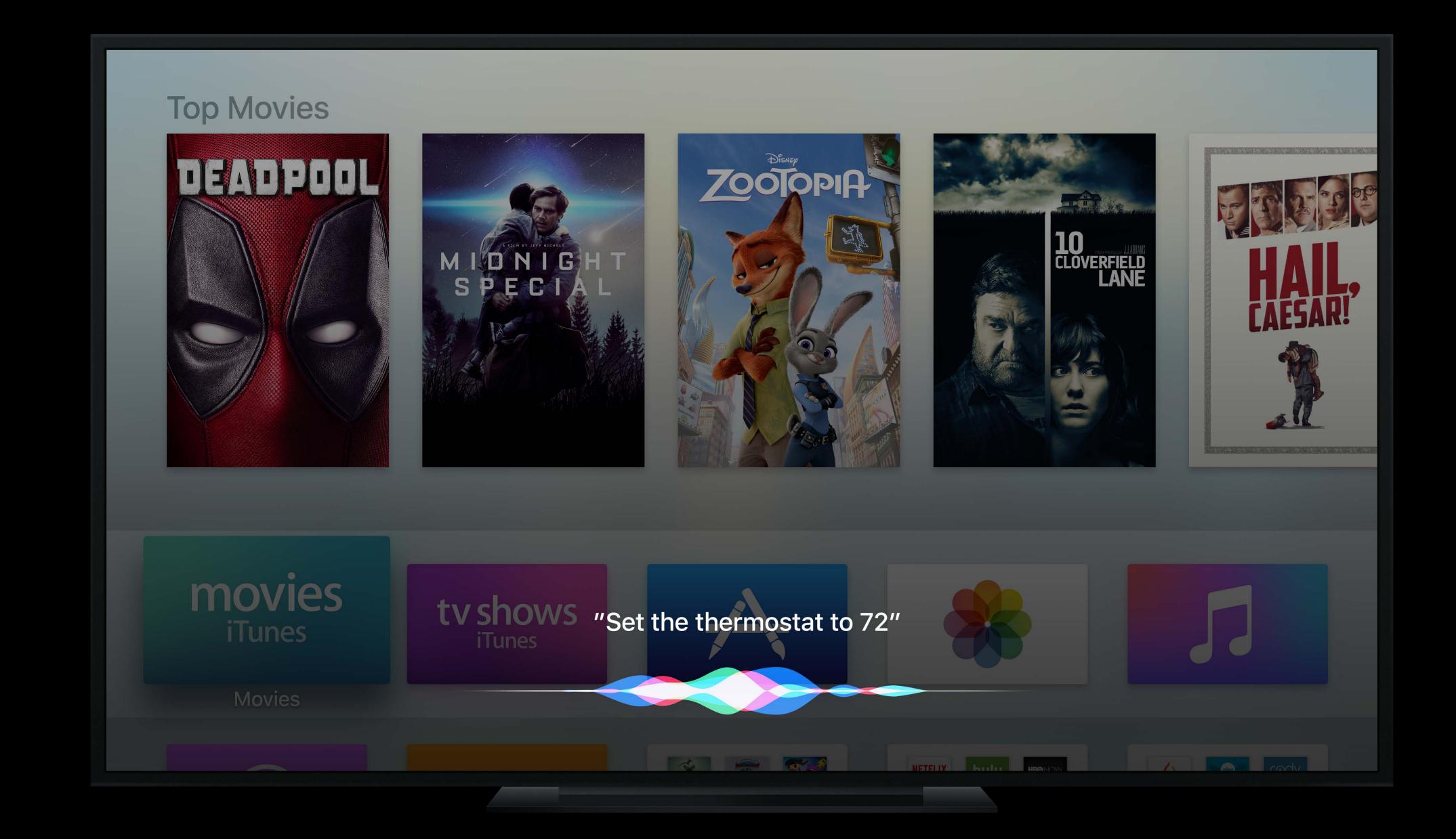
Matt and the crew manage to escape from the auction house but their getaway ends earlier than expected.



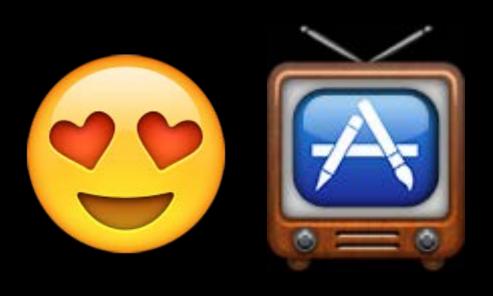








e tv



Design for TV

More Information https://developer.apple.com/wwdc16/802

Related Sessions

Typography and Fonts

Mastering UIKIt on tvOS

Developing tvOS Apps Using TVMLKit: Par

Focus Interaction on tvOS

Controlling Game Input for Apple TV

Developing tvOS Apps Using TVMLKit: Par

Iterative UI Design

AVKit on tvOS

	Presidio	Wednesday 9:00AM
	Presidio	Wednesday 10:00AM
rt 1	Mission	Wednesday 1:40PM
	Mission	Wednesday 4:00PM
	Mission	Wednesday 5:00PM
rt 2	Mission	Thursday 4:00PM
	Presidio	Friday 10:00AM
	Presidio	Friday 11:00AM



User Interface Design Lab	UI Design Lab	Daily 9:00AM
Accessibility Lab	UI Design Lab	Wednesday 9:00AM
tvOS Graphics and Games Lab	Graphics, Games and Media Lab	Wednesday 12:00pm
TVMLKit Lab	Graphics, Games and Media Lab	Wednesday 3:00PM
tvOS Lab	Frameworks Lab	Wednesday 2:00PM
tvOS Lab	Frameworks Lab	Thursday 9:00PM
Game Controllers Lab	Graphics, Games and Media	Thursday 9:00AM
Text and Fonts Lab	Frameworks Lab	Thursday 2:00PM
TVMLKit Lab	Graphics, Games and Media Lab	Friday 9:00AM

