

#WWDC18

VoiceOver: App Testing Beyond The Visuals

Session 226

James Vest, Apple Quality Assurance Engineer

Learning VoiceOver can help make
your app more usable for everyone.

Agenda

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What VoiceOver is

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What VoiceOver is

Why you should support VoiceOver

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What VoiceOver is

Why you should support VoiceOver

How to use VoiceOver

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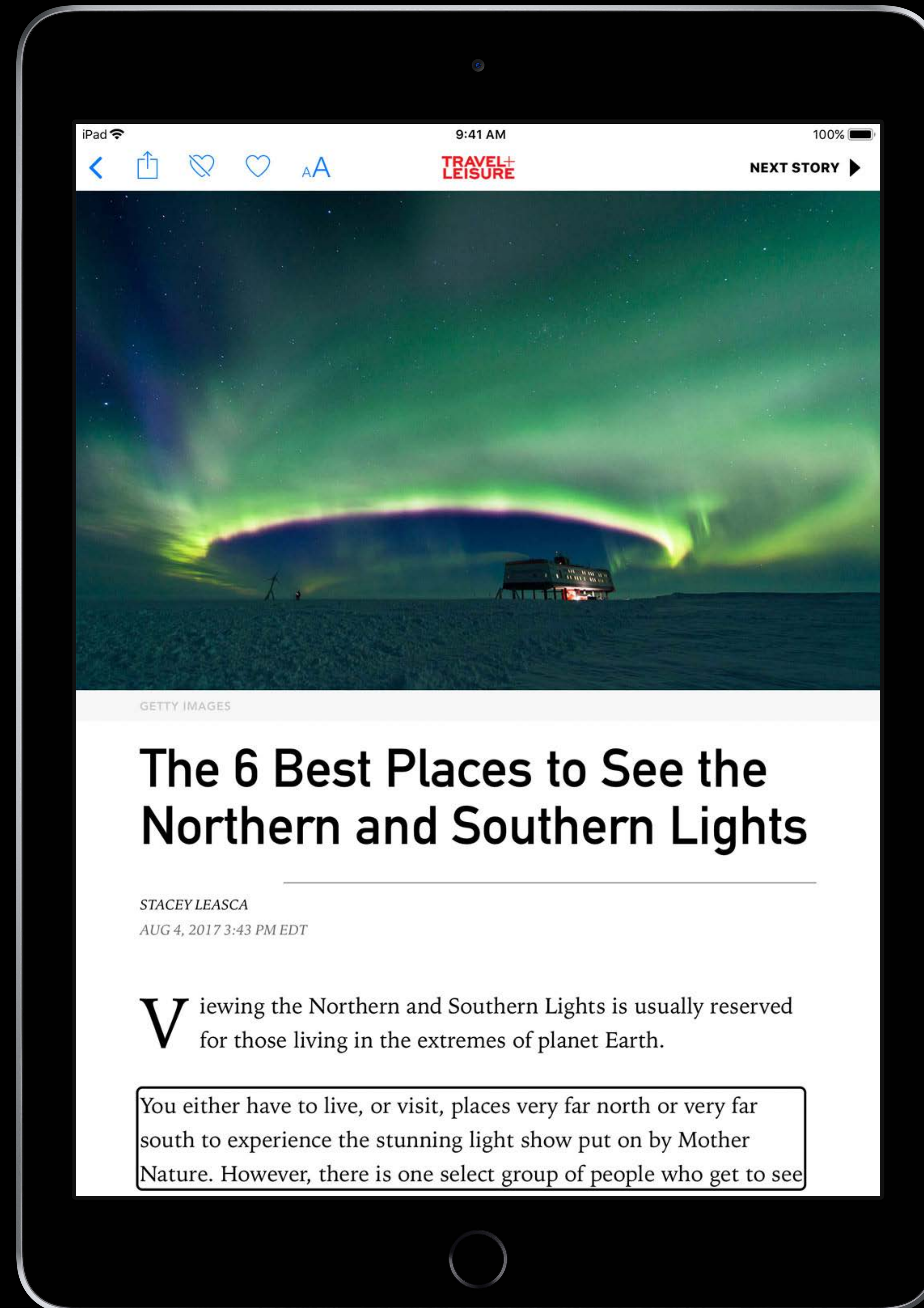
What VoiceOver is

Why you should support VoiceOver

How to use VoiceOver

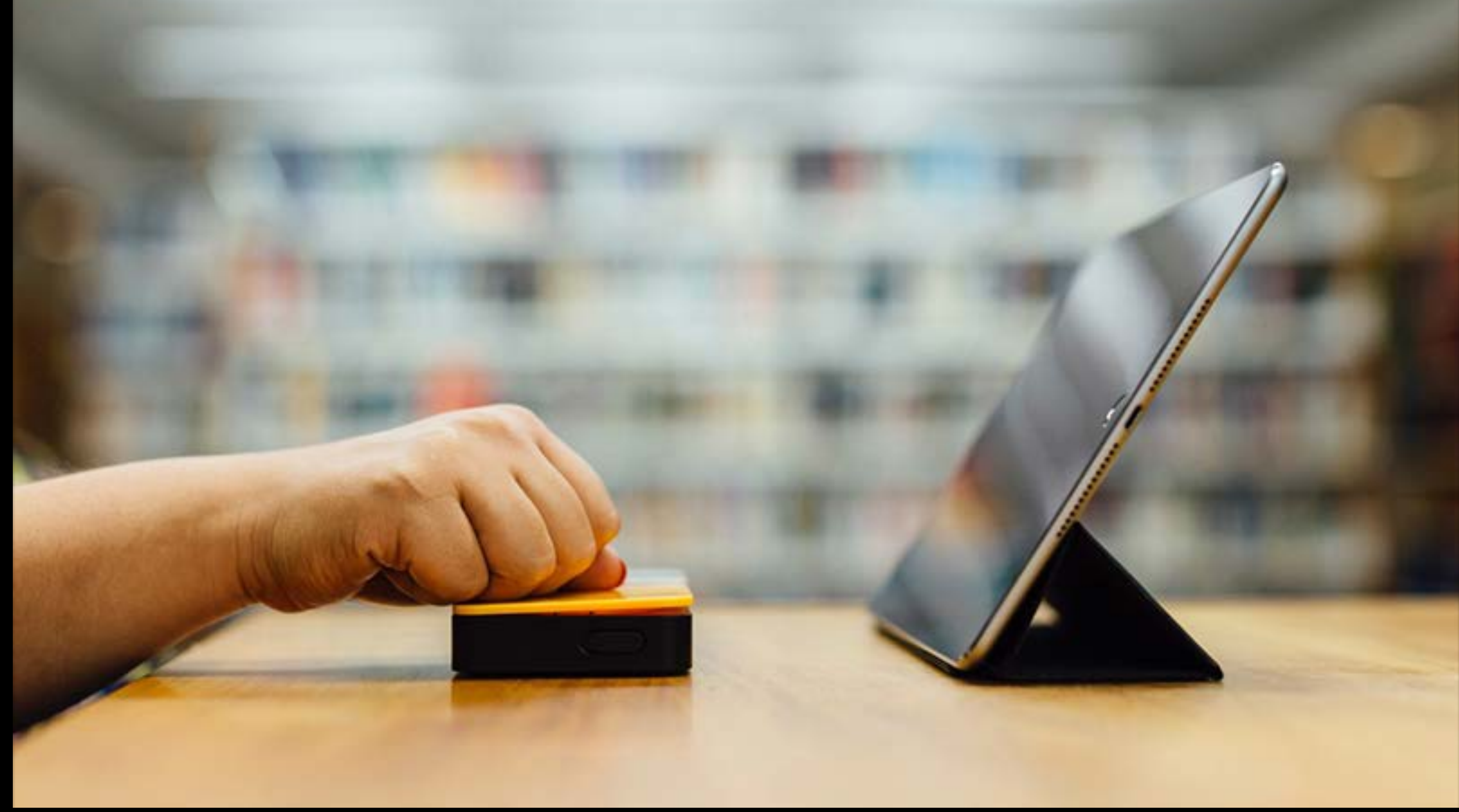
How VoiceOver benefits your app

What Is VoiceOver?



“You either have to live...”

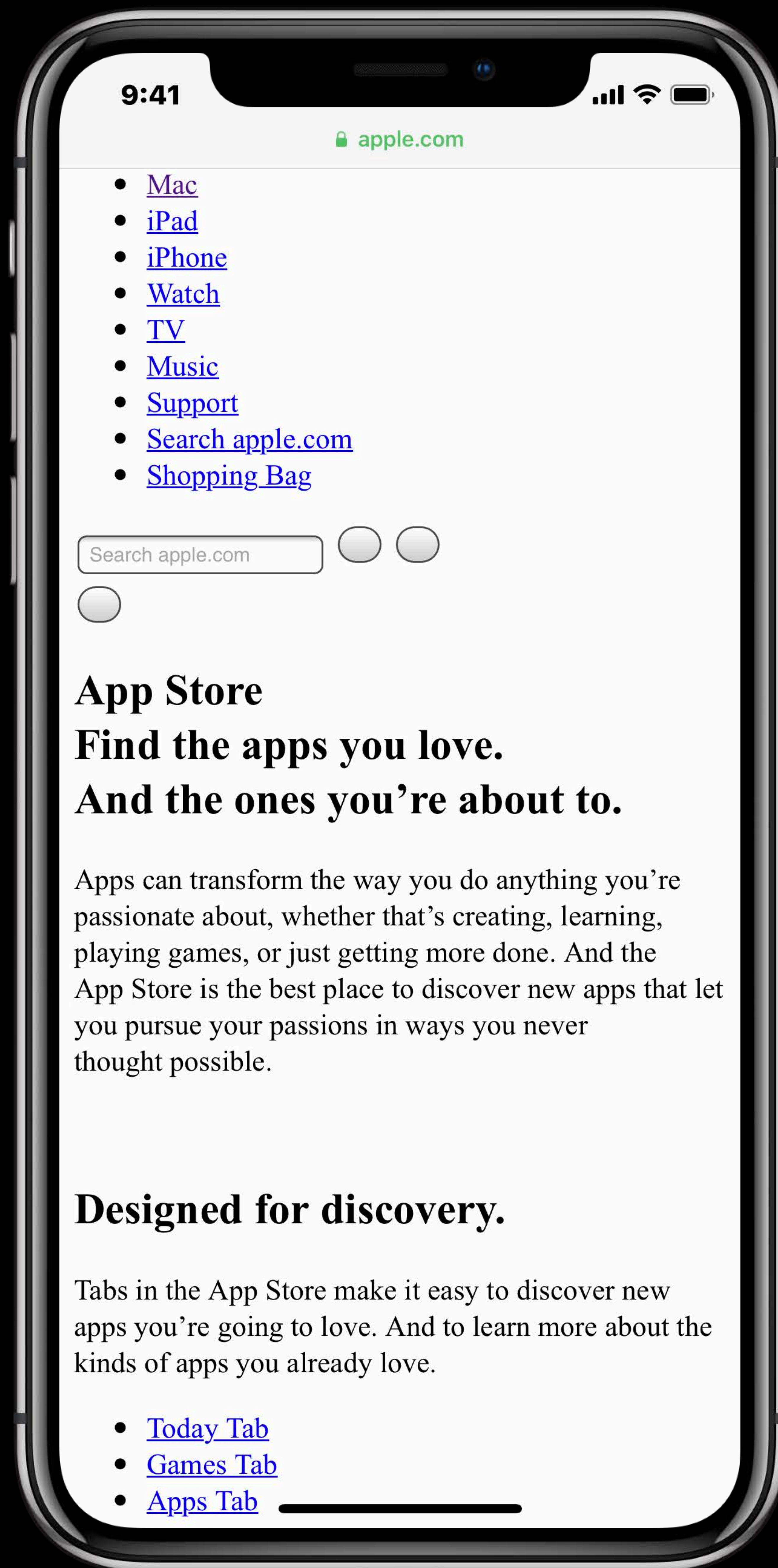




Every person who uses your app
has access to VoiceOver.

But not every VoiceOver user has
has access to every app.

You must update your apps to take
advantage of VoiceOver.



9:41

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App Store

Find the apps you love.

And the ones you're about to.

Apps can transform the way you do anything you're passionate about, whether that's creating, learning, playing games, or just getting more done. And the App Store is the best place to discover new apps that let you pursue your passions in ways you never thought possible.

Designed for discovery.

Tabs in the App Store make it easy to discover new apps you're going to love. And to learn more about the kinds of apps you already love.

- [Today Tab](#)
- [Games Tab](#)
- [Apps Tab](#)

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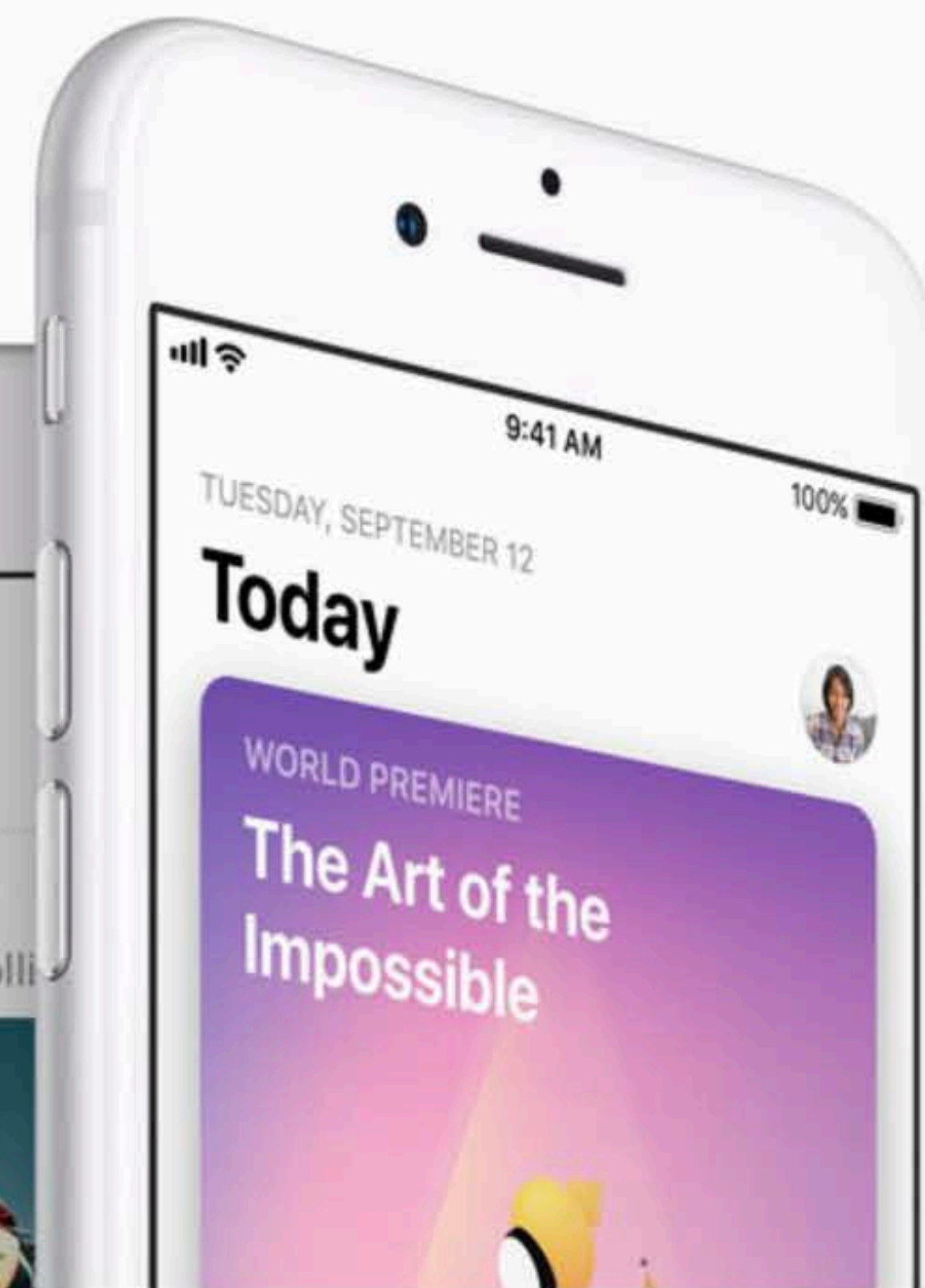


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App Store

Find the apps you
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Why Support VoiceOver?

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Why Support VoiceOver?

Supporting VoiceOver makes your app more inclusive

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Supporting VoiceOver makes your app more inclusive

VoiceOver users are more likely to choose your app

Why Support VoiceOver?

Supporting VoiceOver makes your app more inclusive

VoiceOver users are more likely to choose your app

And recommend it to other VoiceOver users

But for many developers
those reasons are not enough.

Learning VoiceOver can help make your
app more usable for everyone.

Can a screenreader do that?

How VoiceOver Helps Your App

How VoiceOver Helps Your App

Testing with VoiceOver can give you a new perspective

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VoiceOver goes beyond how your application looks

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Testing with VoiceOver can give you a new perspective

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Discover new challenges and insights

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Discover new challenges and insights

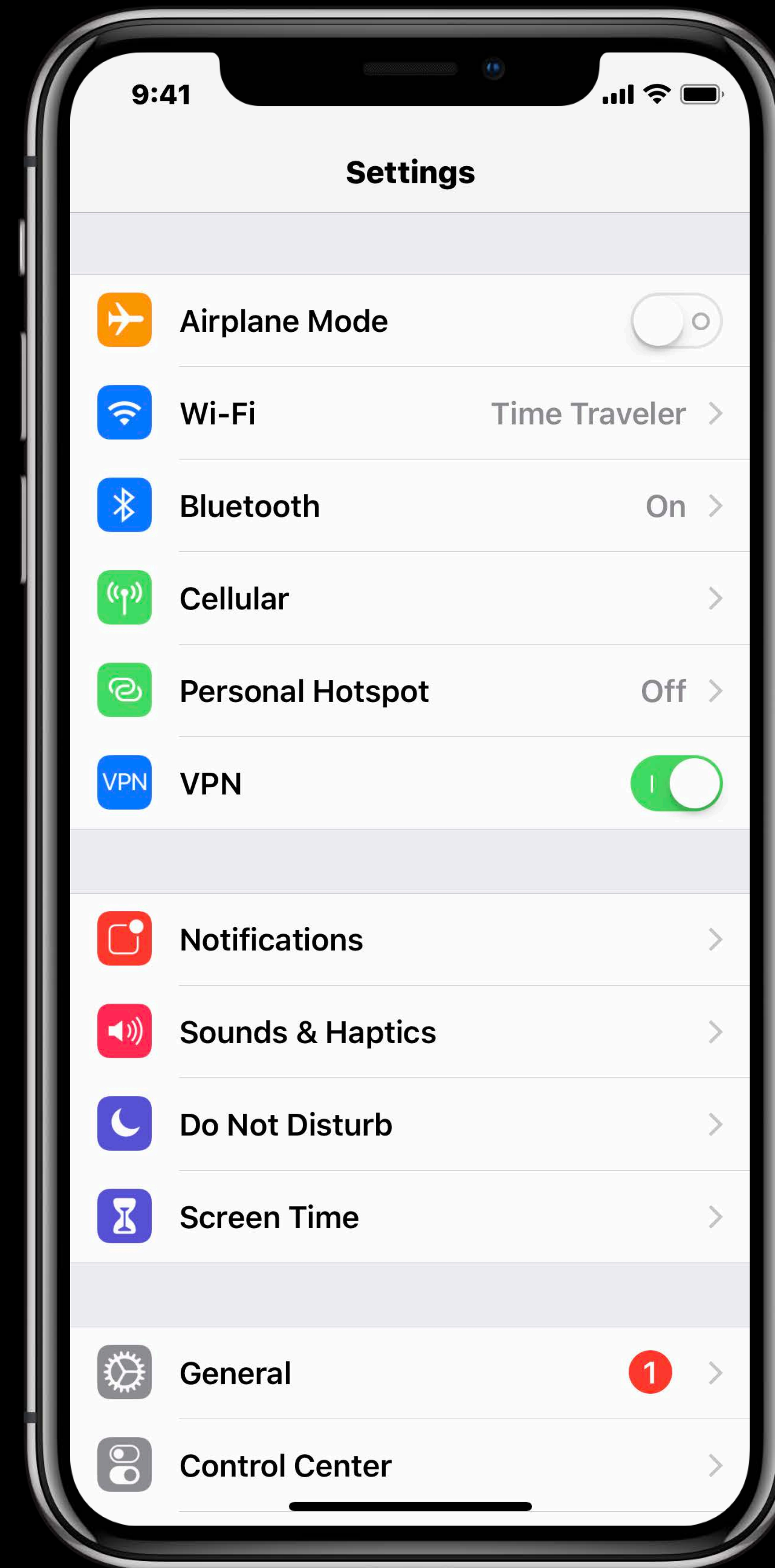
VoiceOver gets to the heart of what we do

Is your app so easy to use you
could use it with your eyes closed?

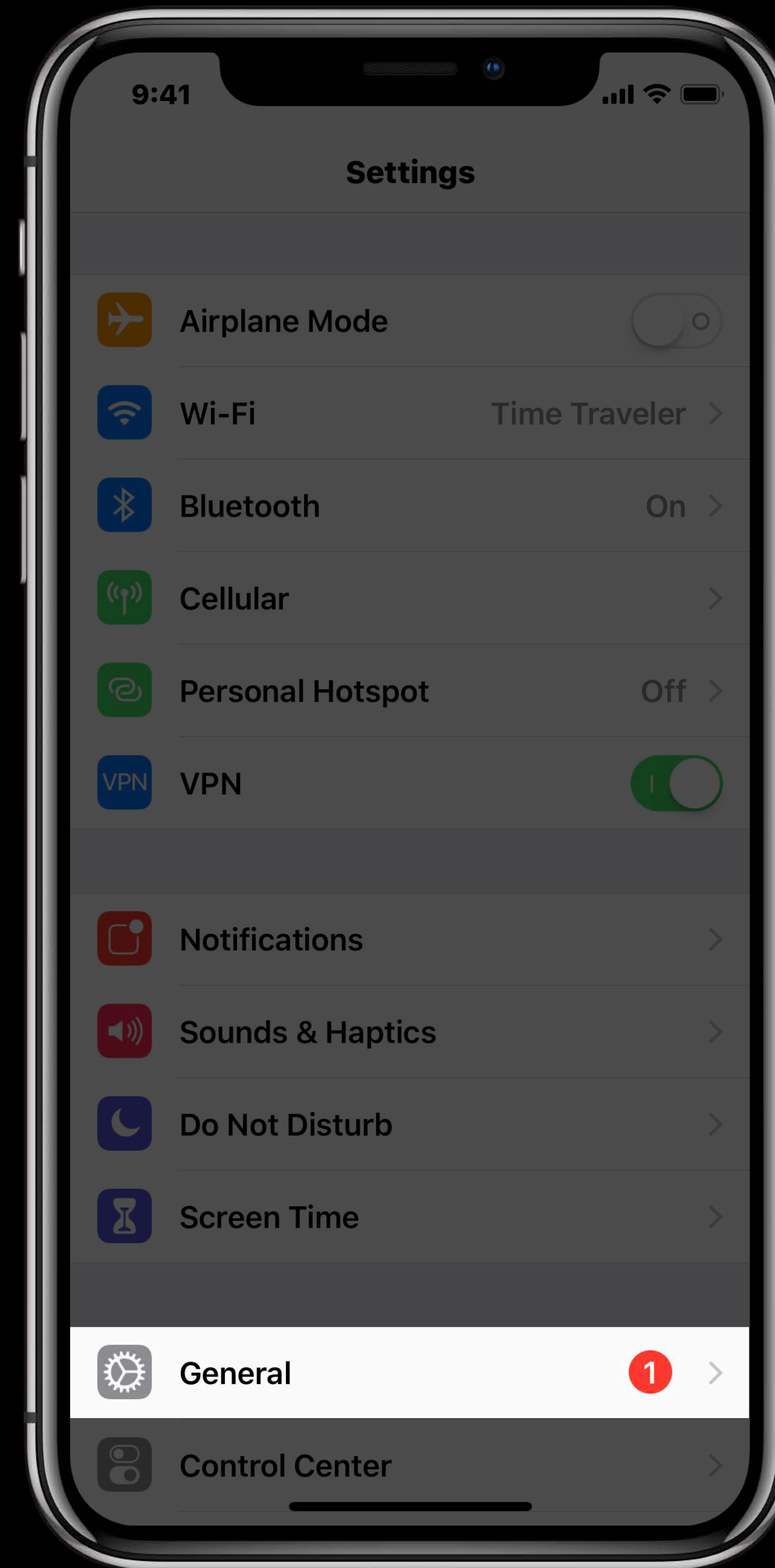
The only way to know
is to test with VoiceOver.

How to Use VoiceOver

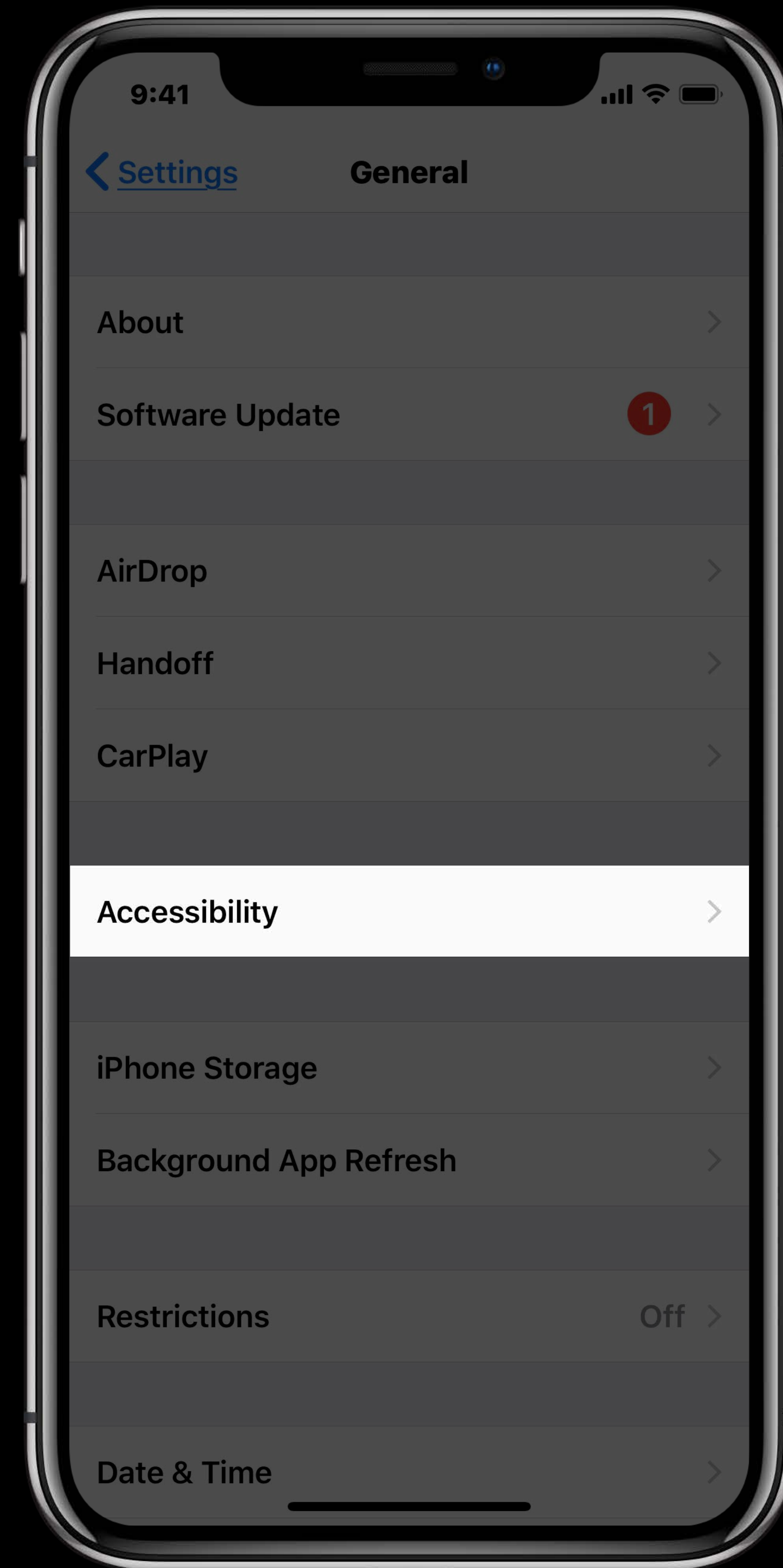
Enabling VoiceOver in Settings



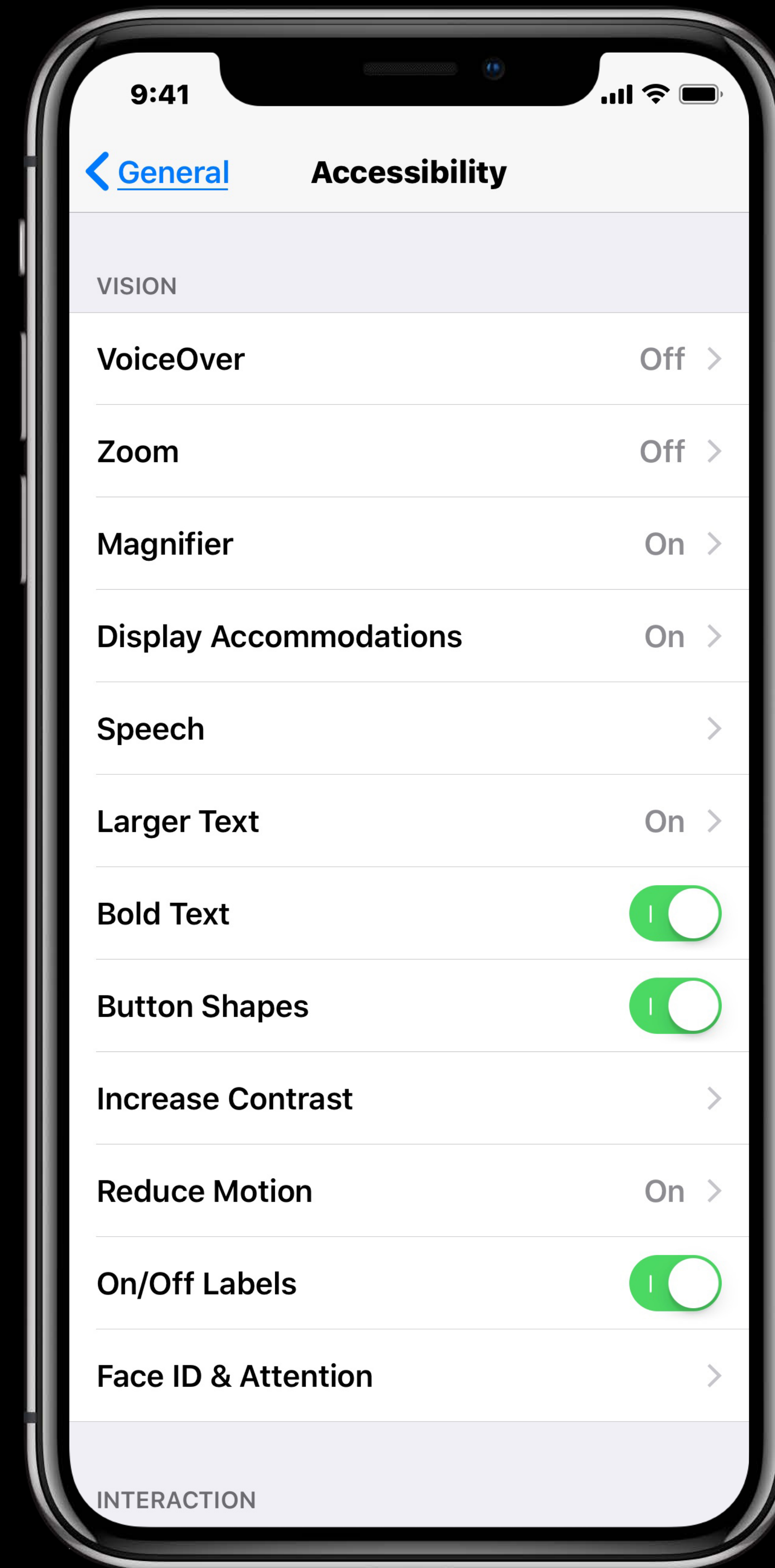
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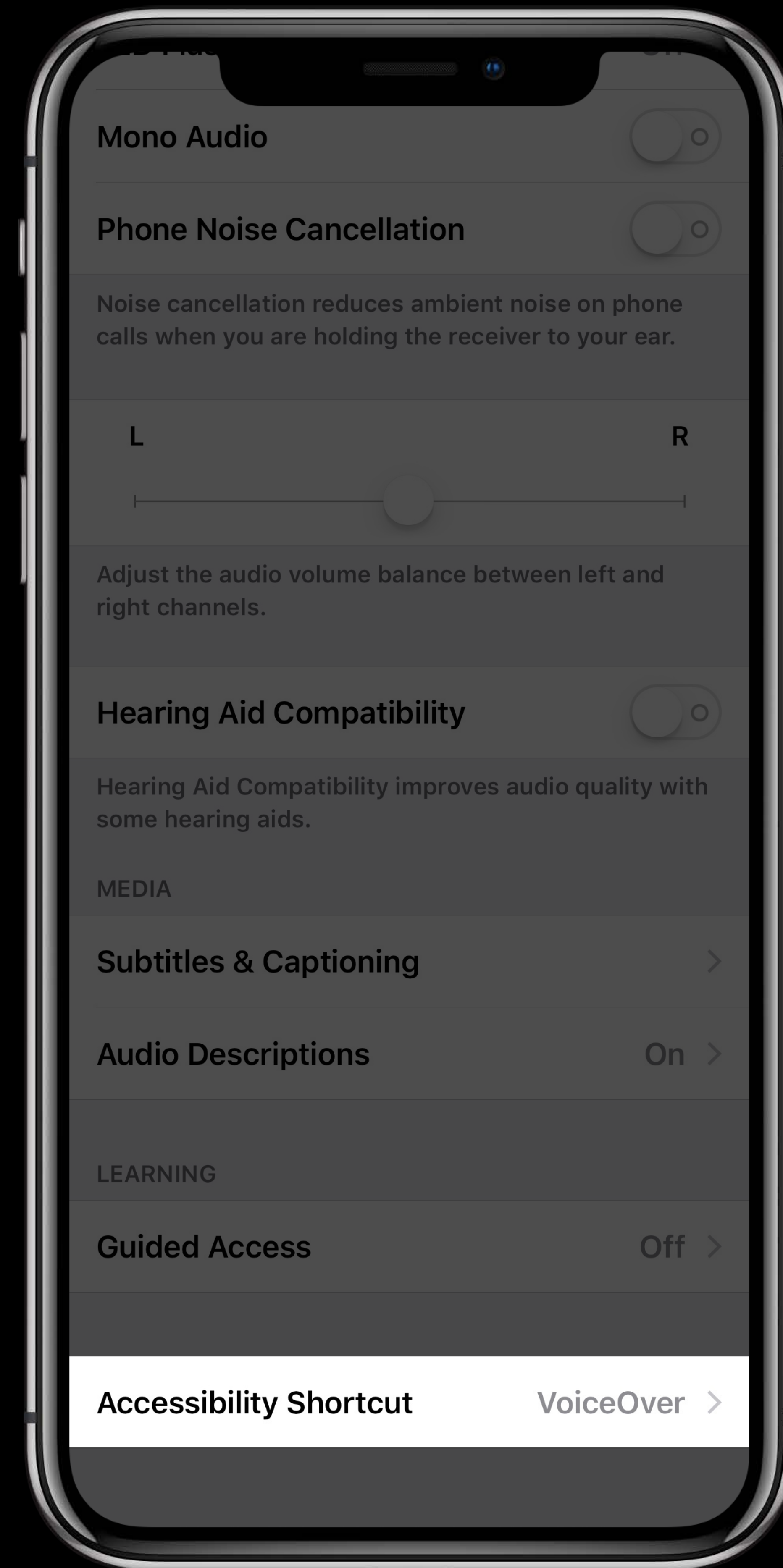
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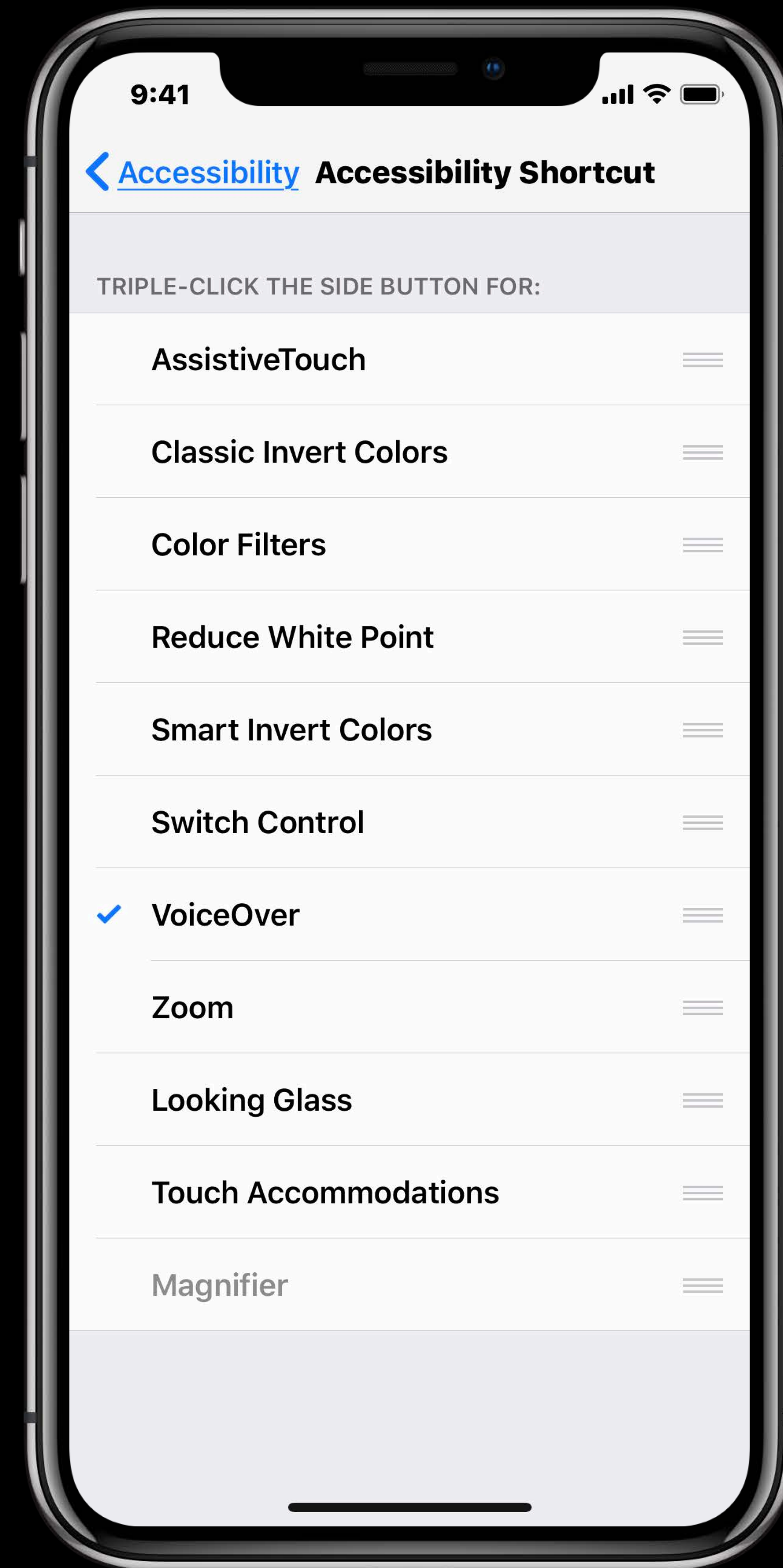
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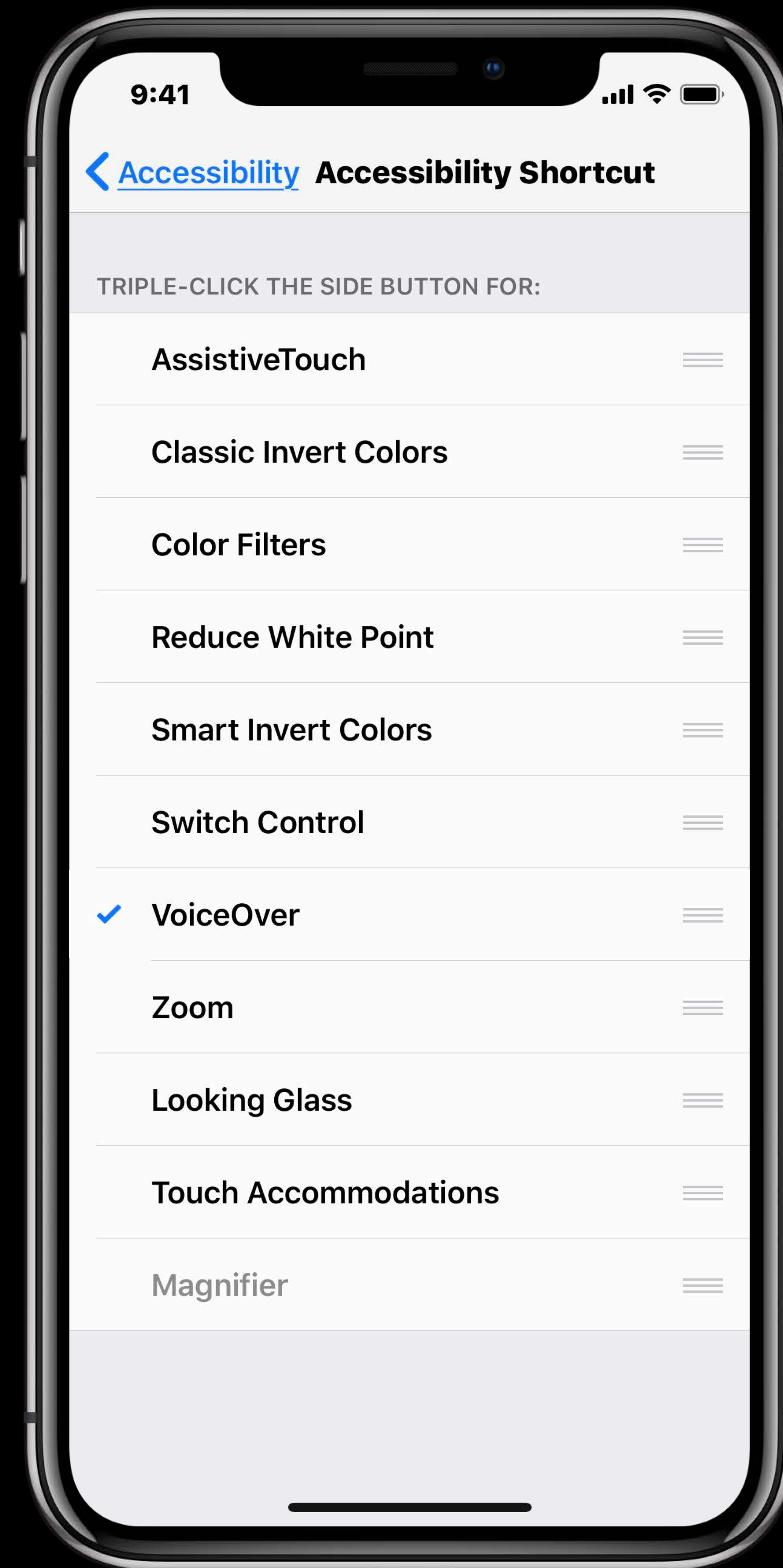
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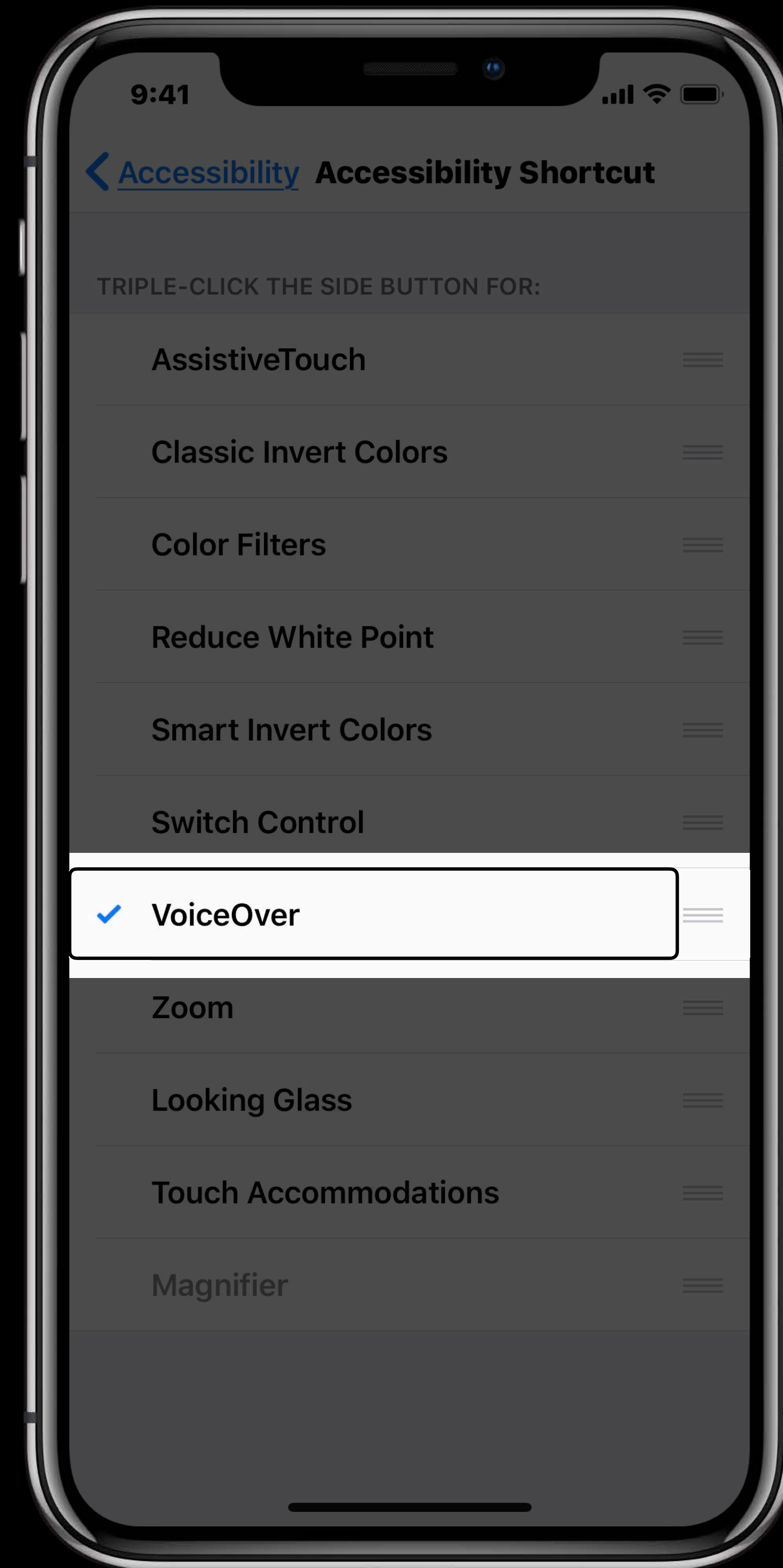
Enabling VoiceOver with Accessibility Shortcut



The VoiceOver Cursor



The VoiceOver Cursor

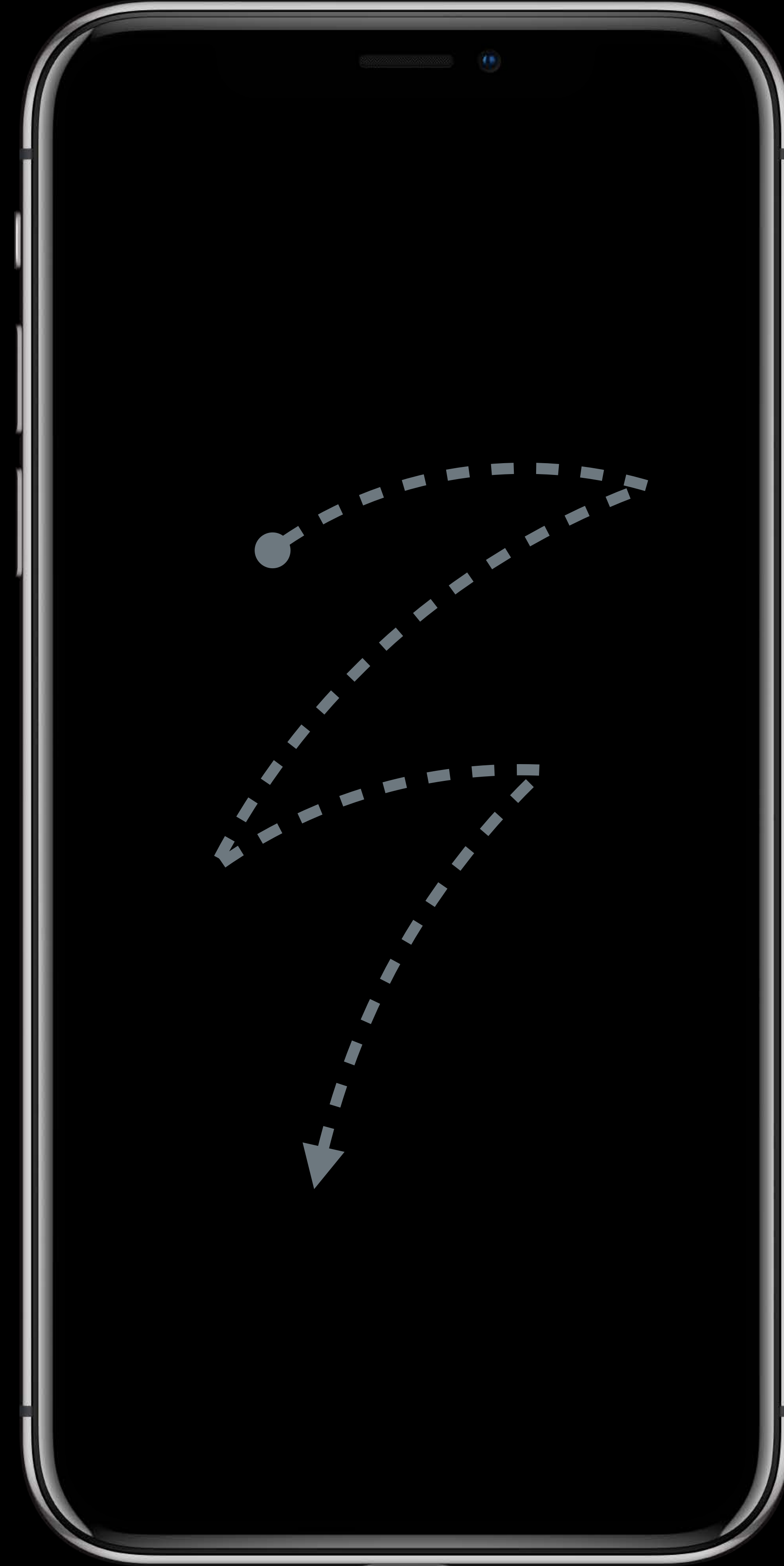


Navigating with VoiceOver

Touch Navigation



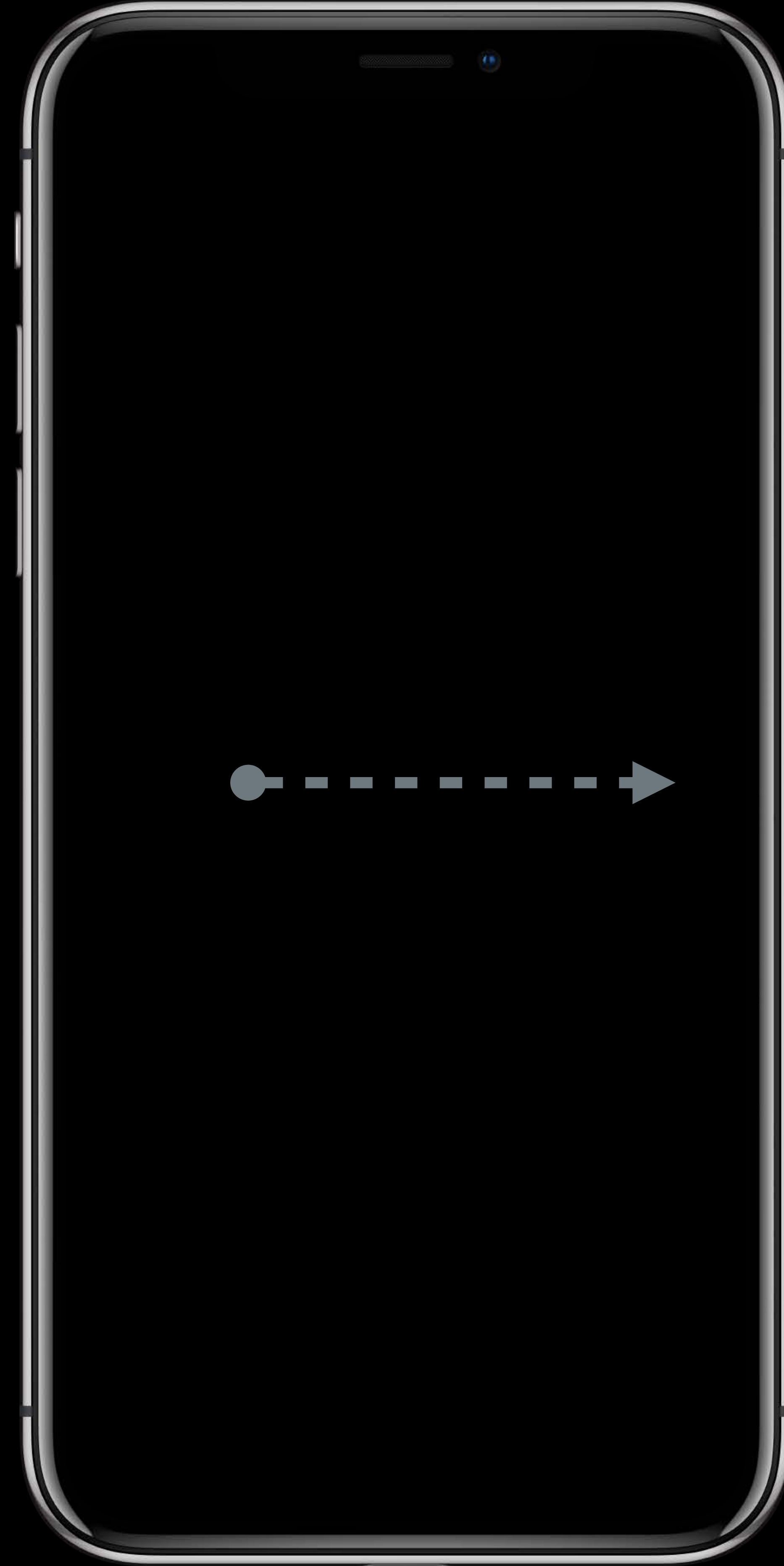
Touch Navigation



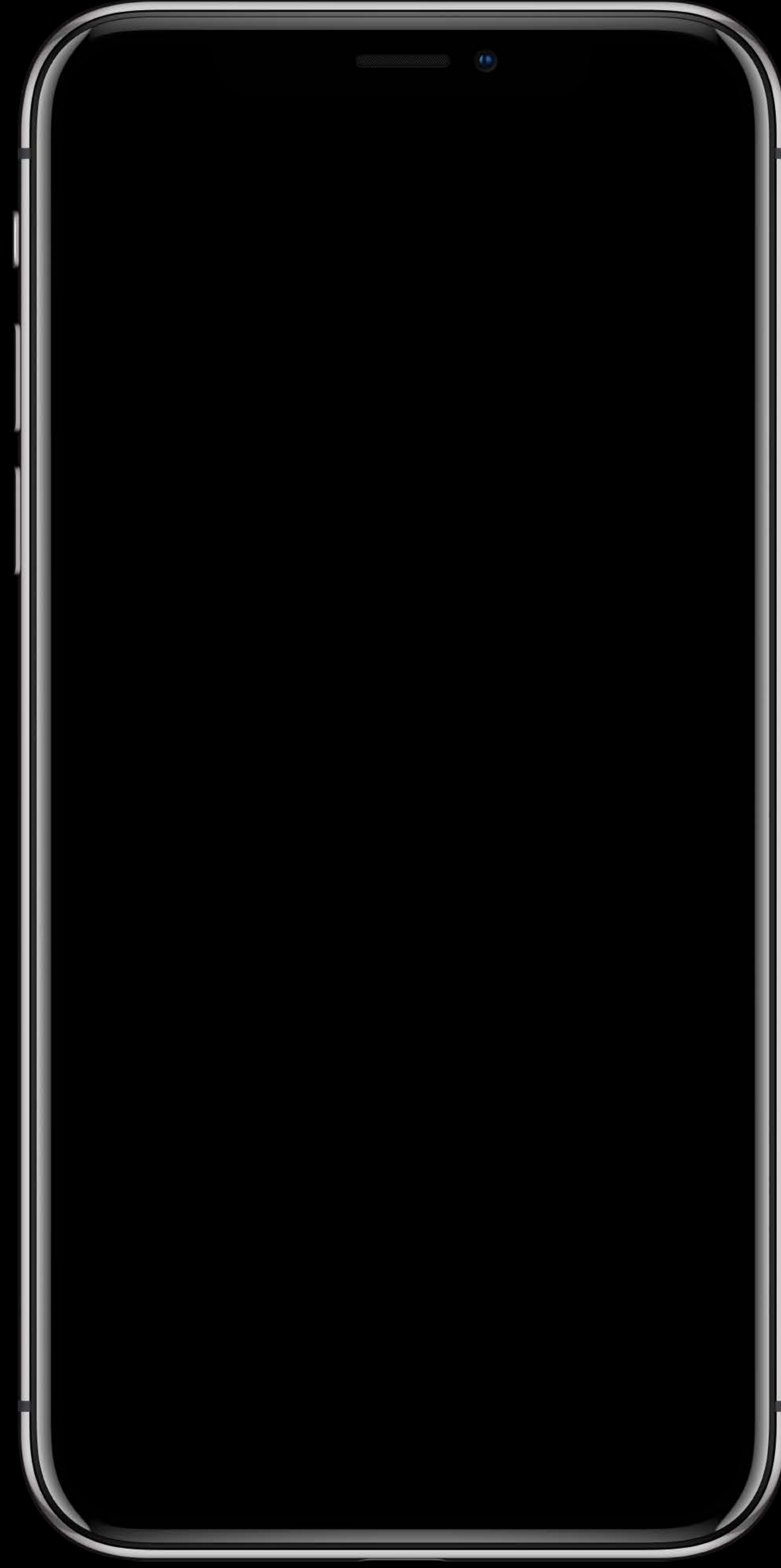
Flick Navigation



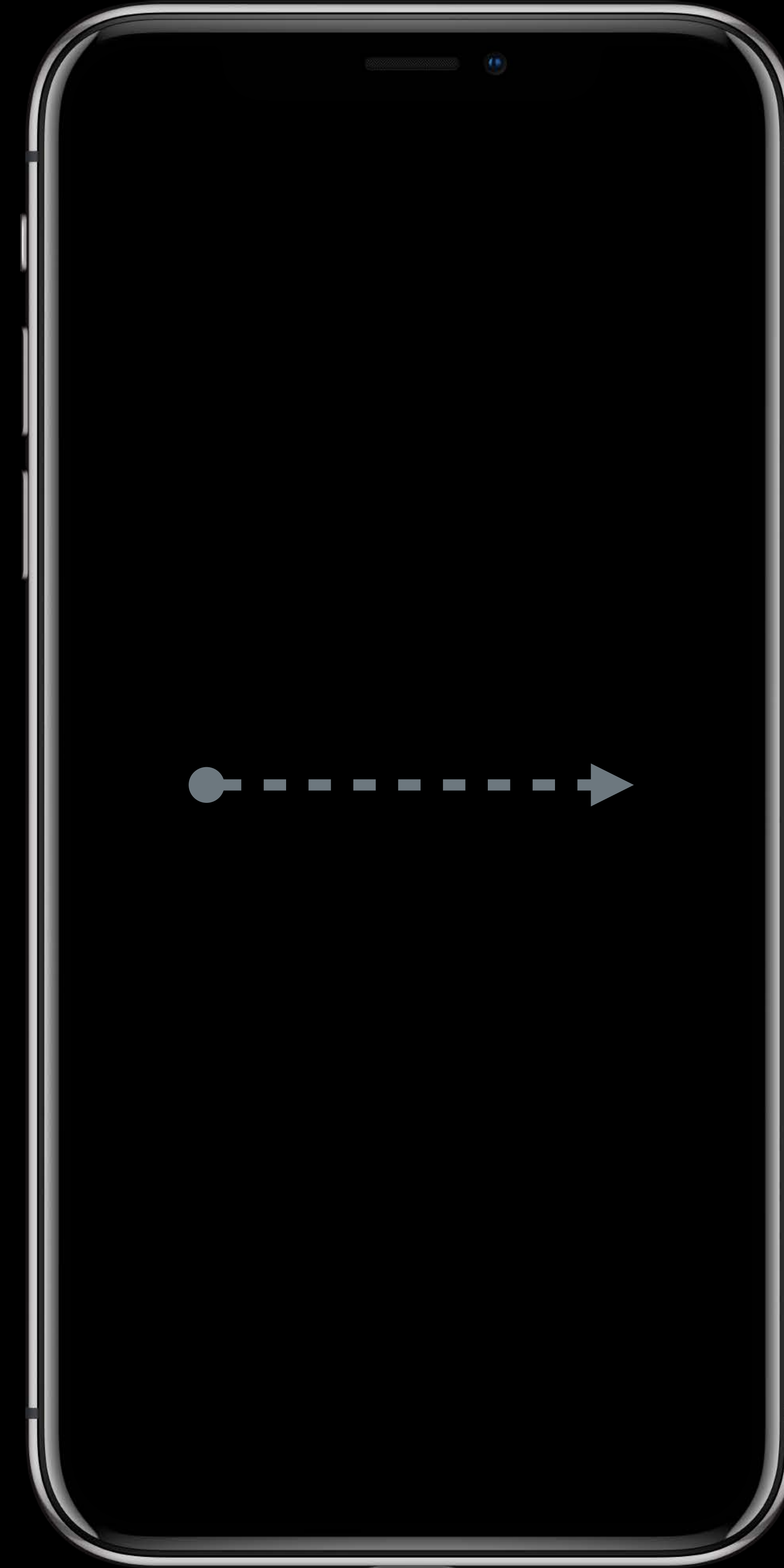
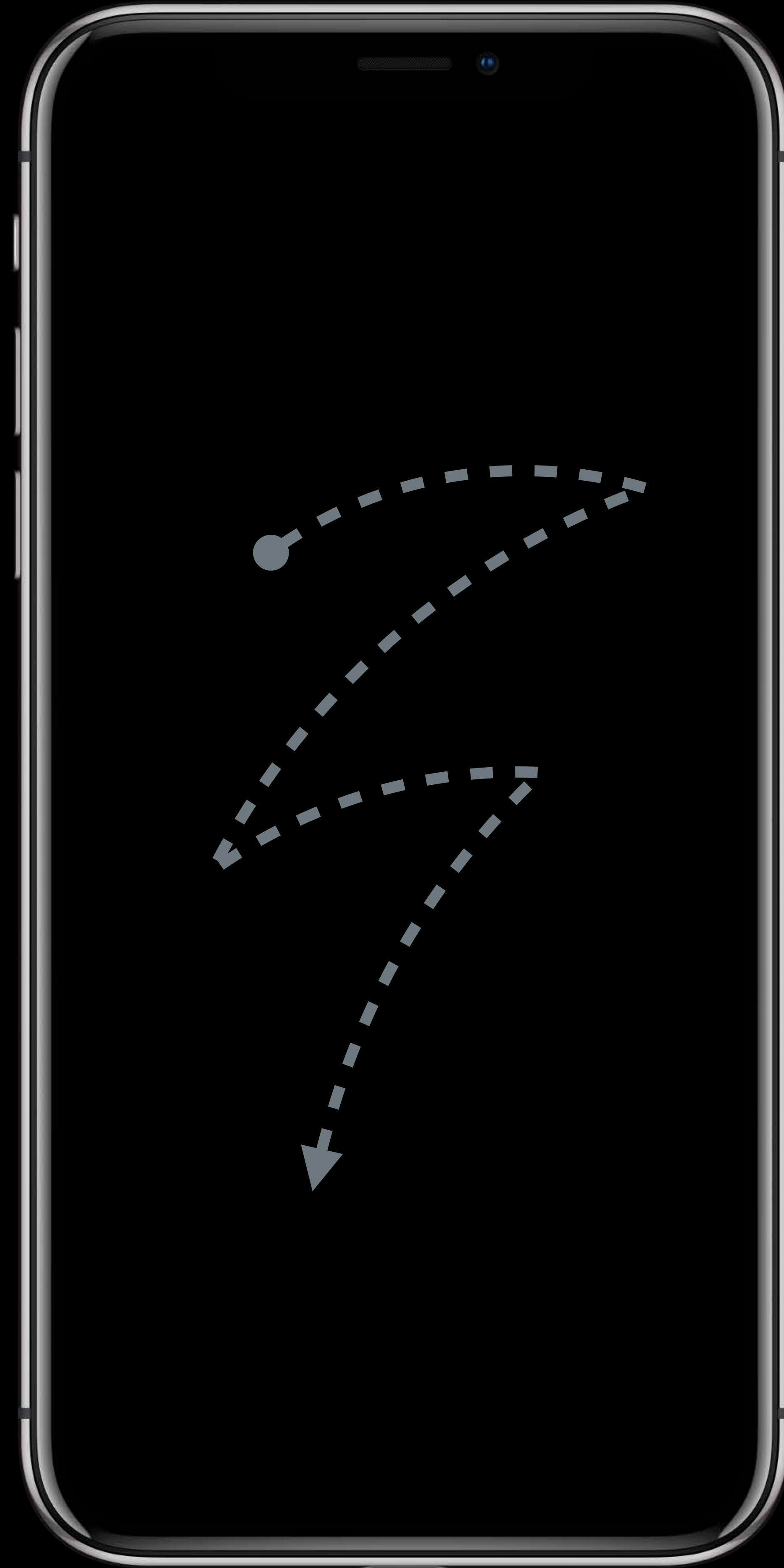
Flick Navigation



Two Ways to Navigation



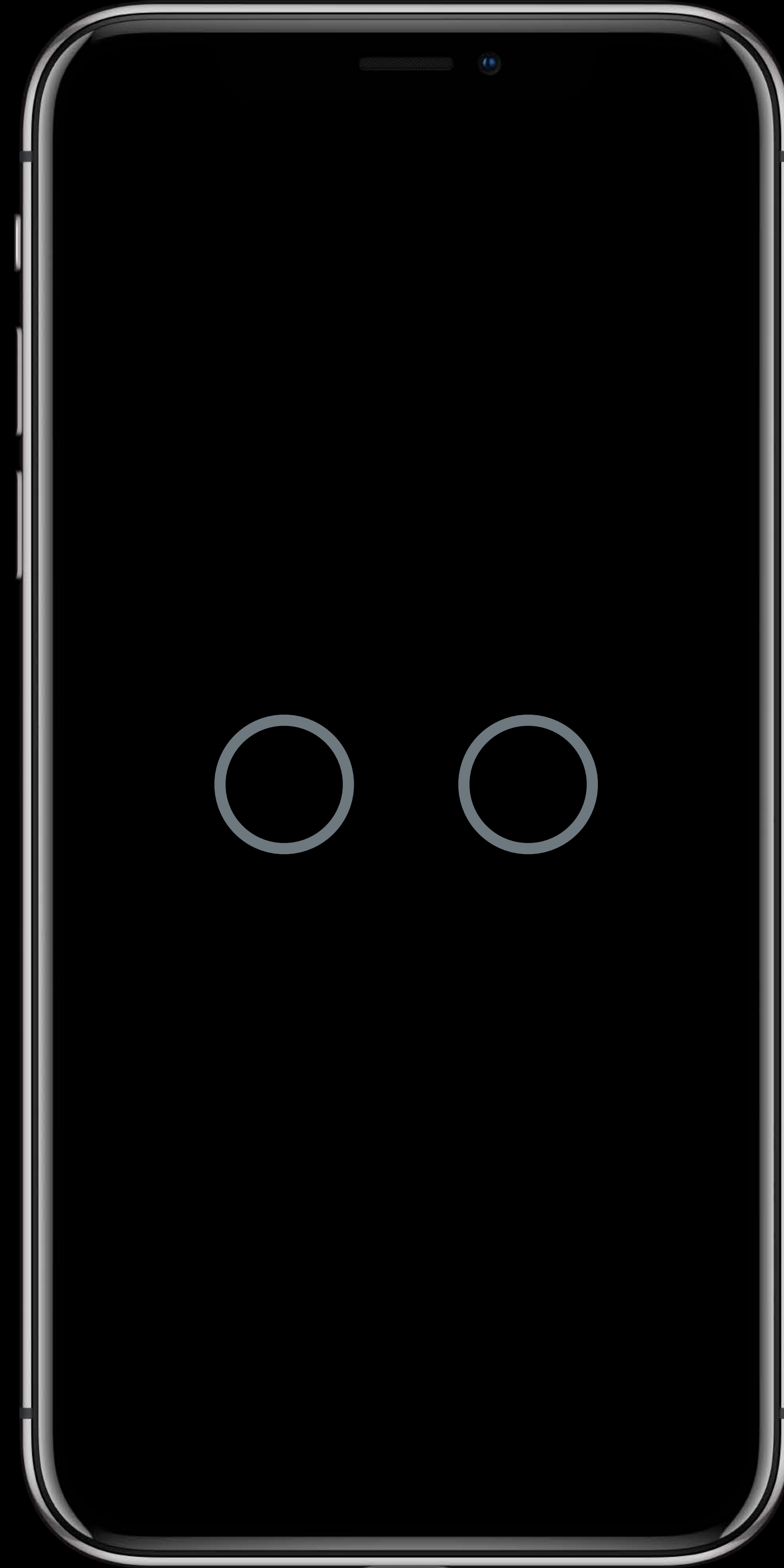
Two Ways to Navigation



Pausing VoiceOver Speech



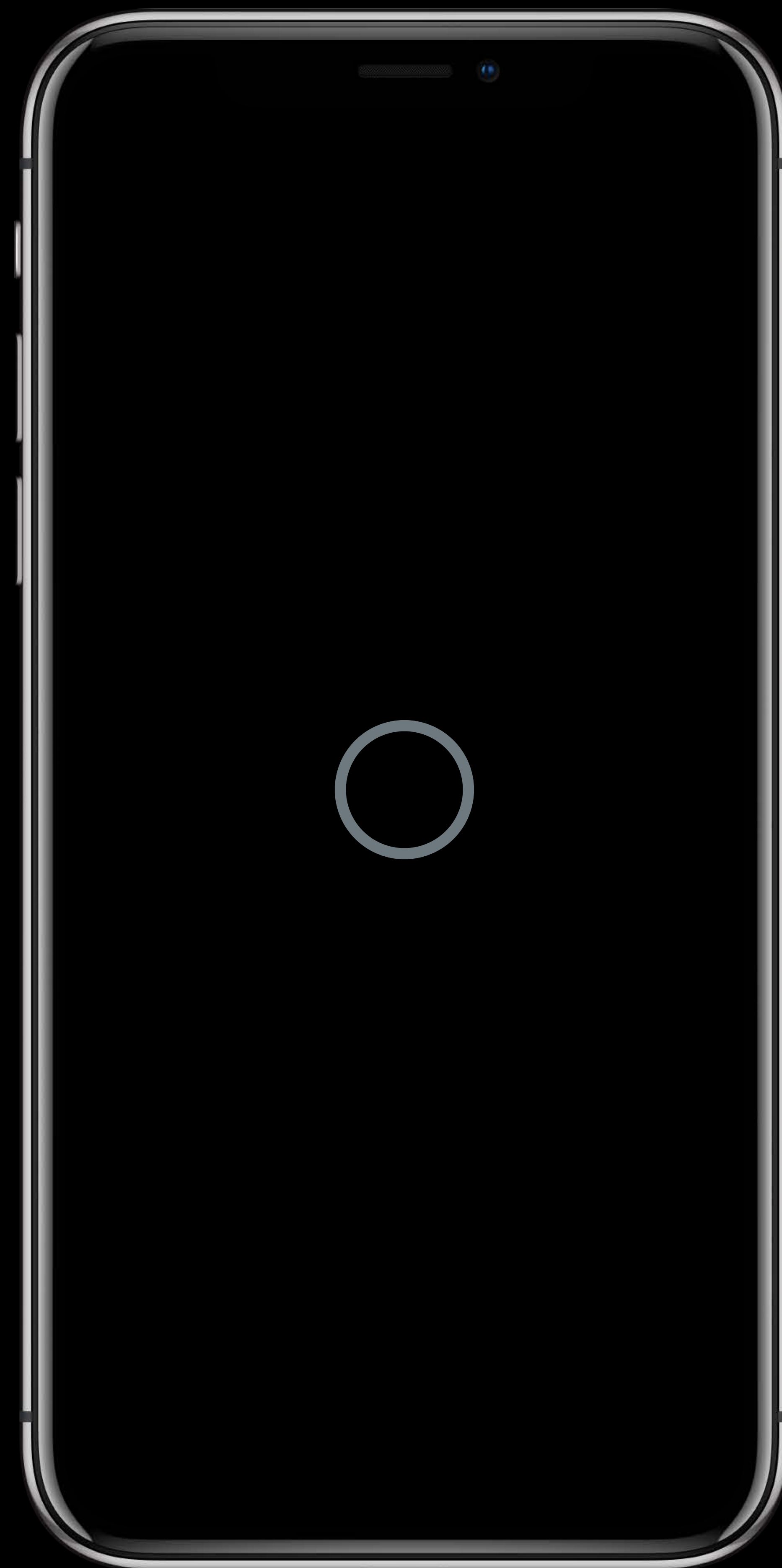
Pausing VoiceOver Speech



Activating a Button with VoiceOver

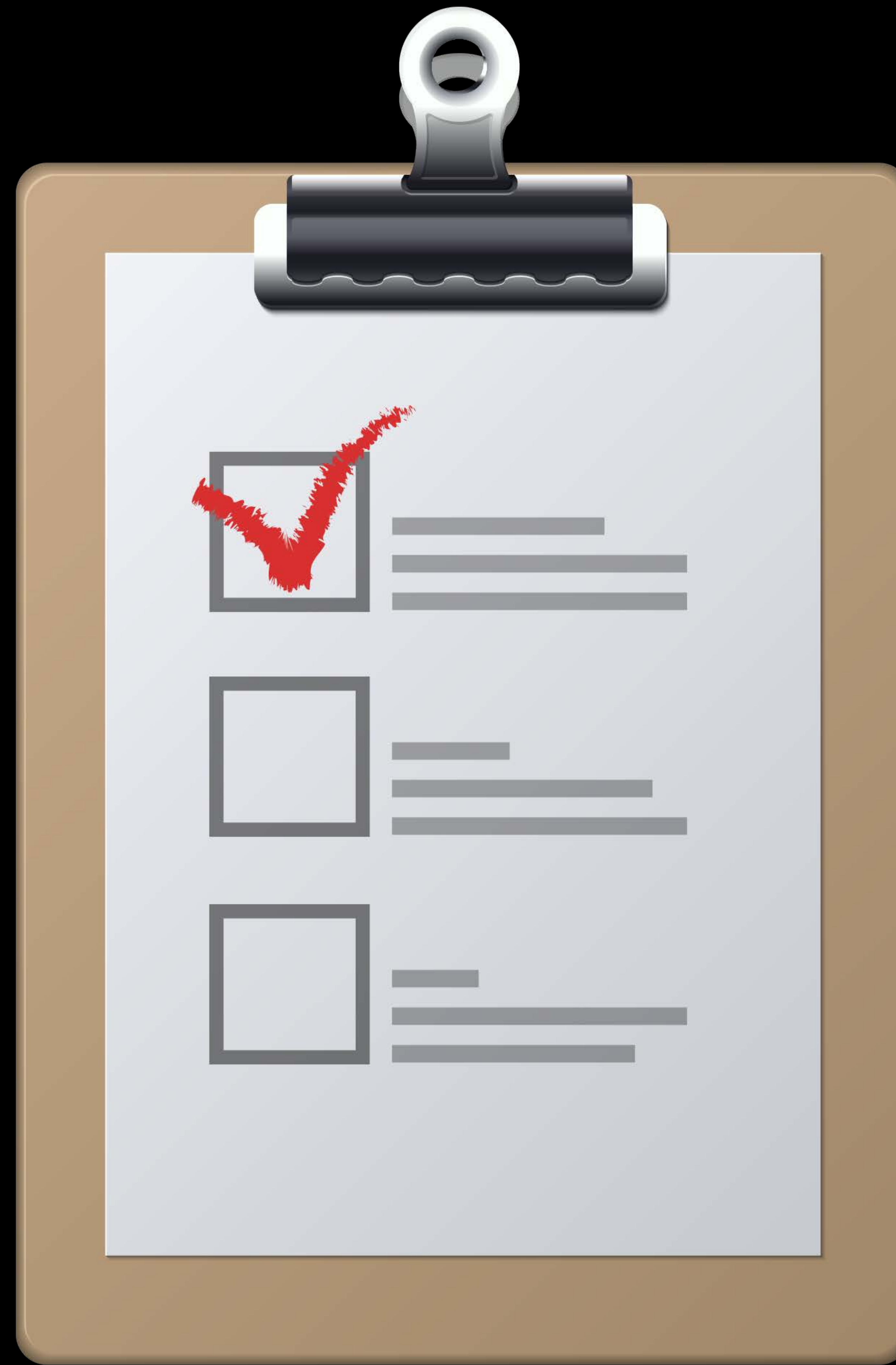


Activating a Button with VoiceOver



Demo

Ryan Dour, Apple Quality Assurance Engineer



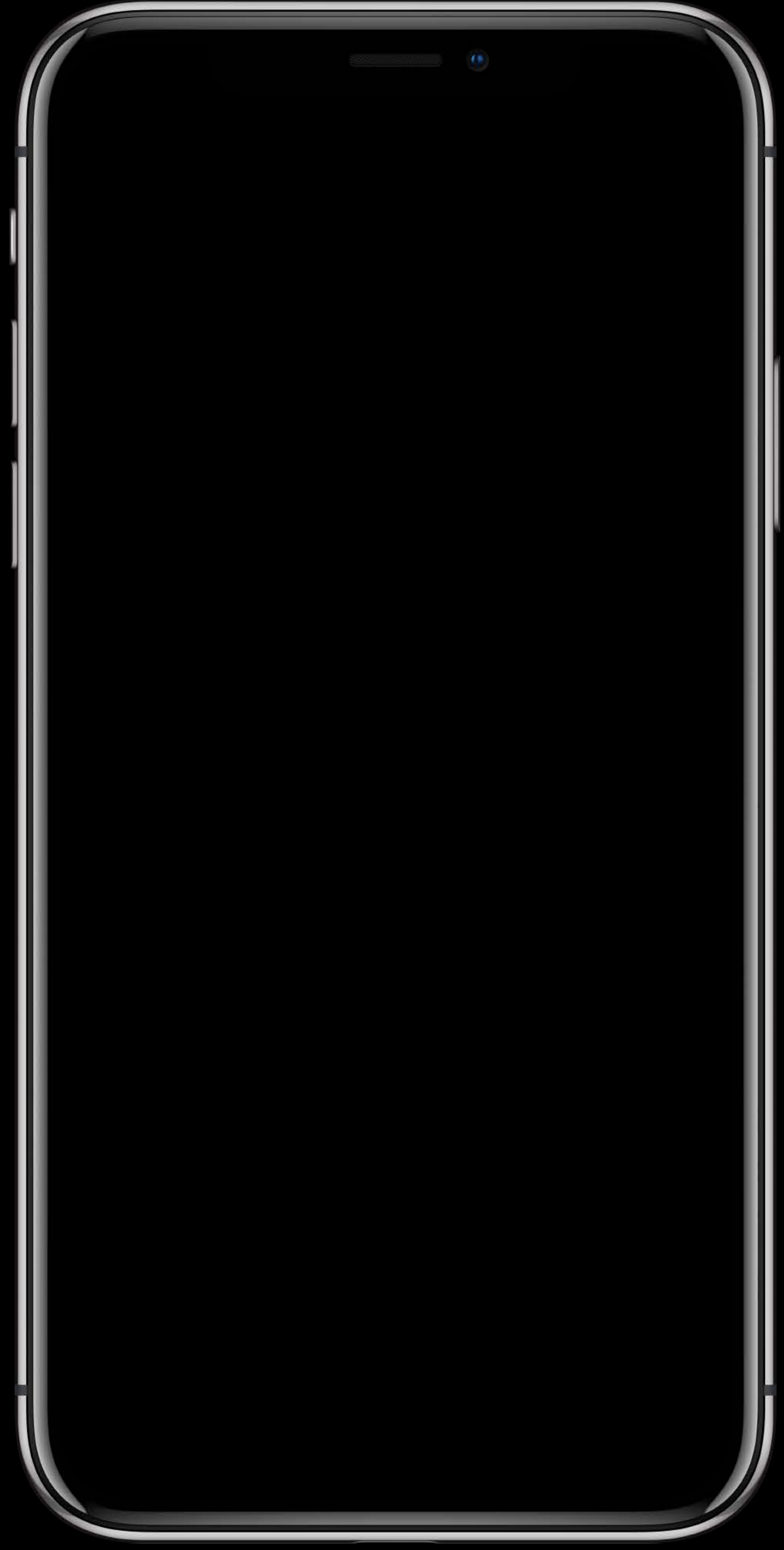
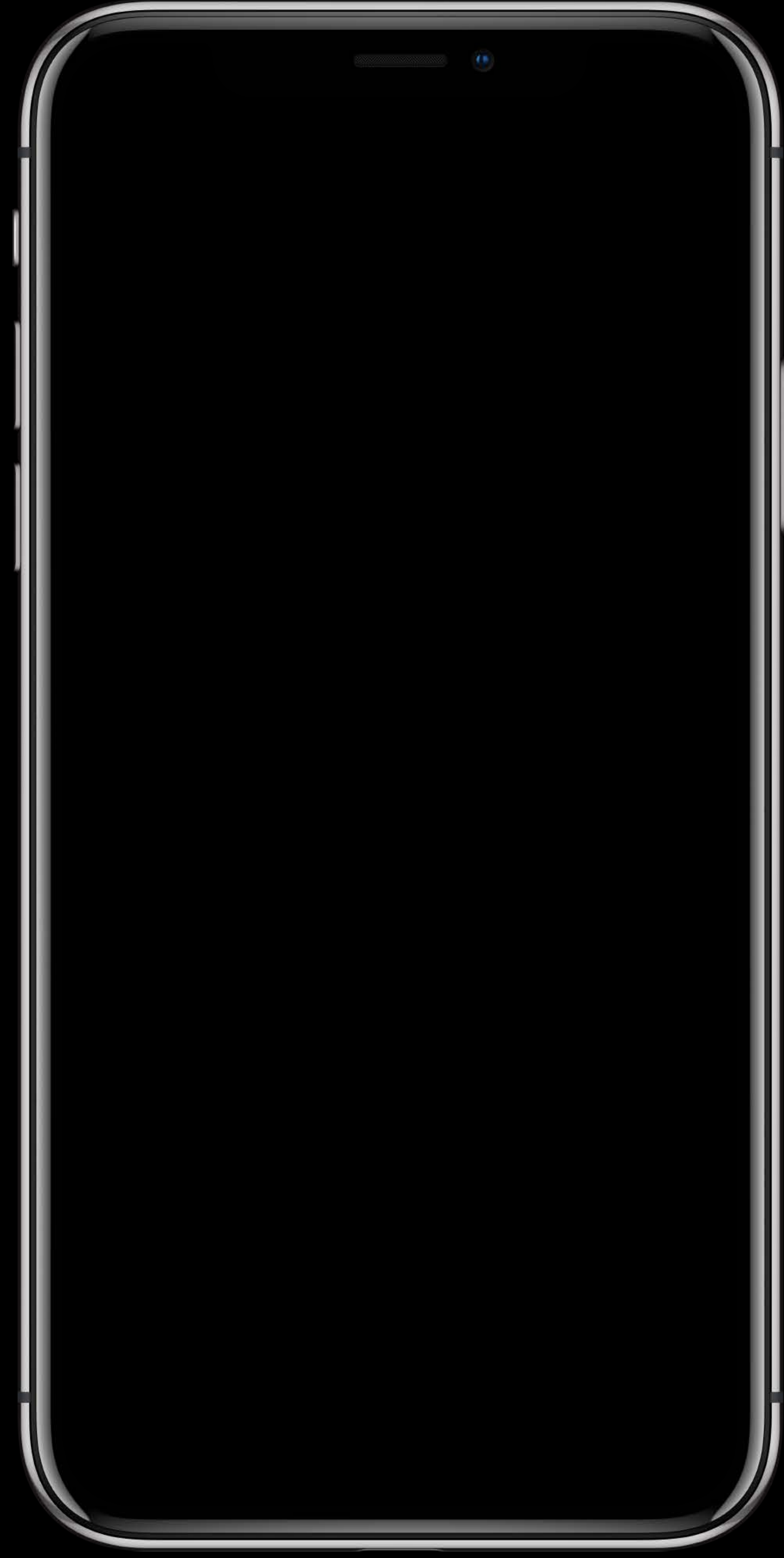
Go Home with VoiceOver



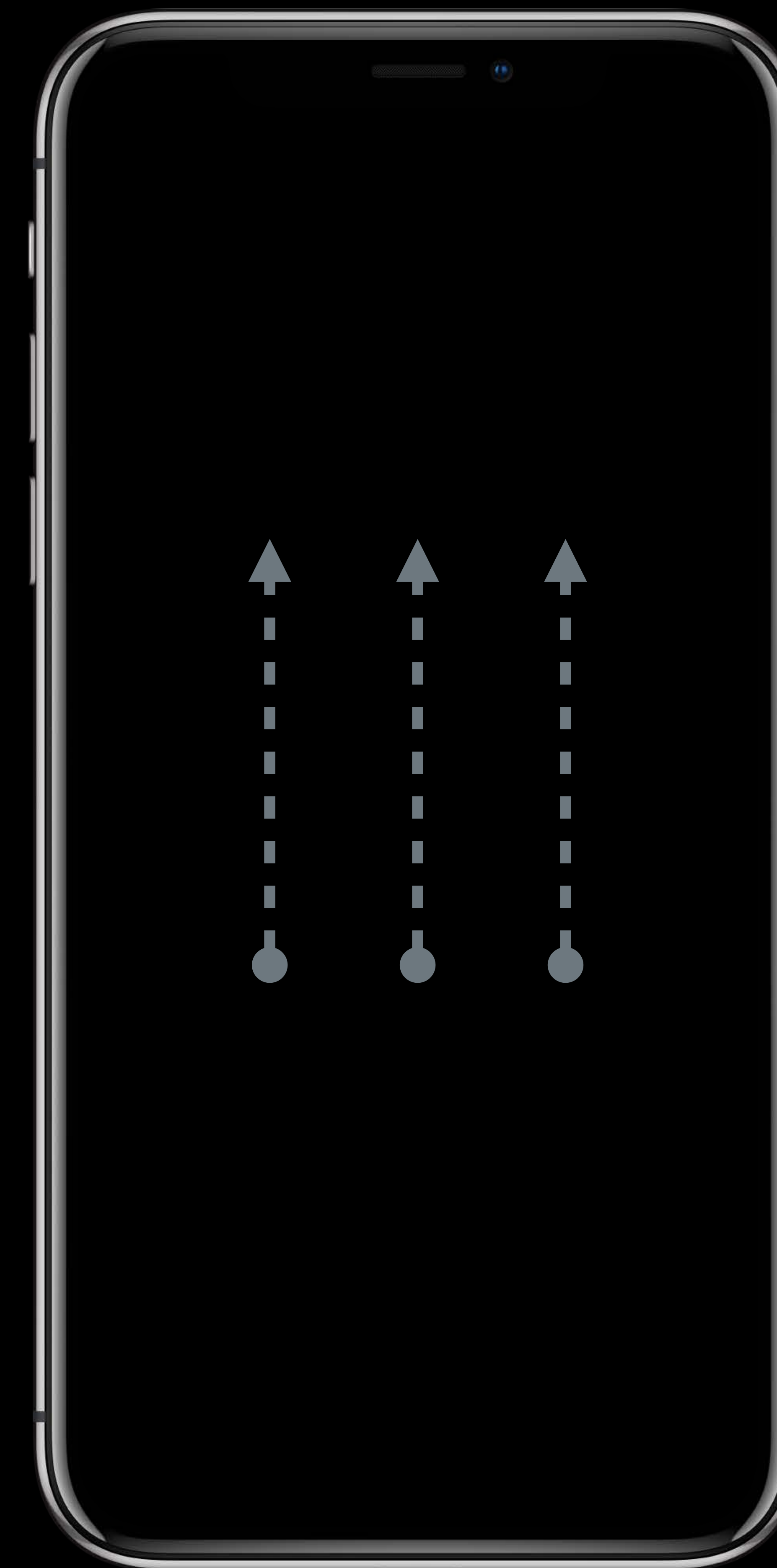
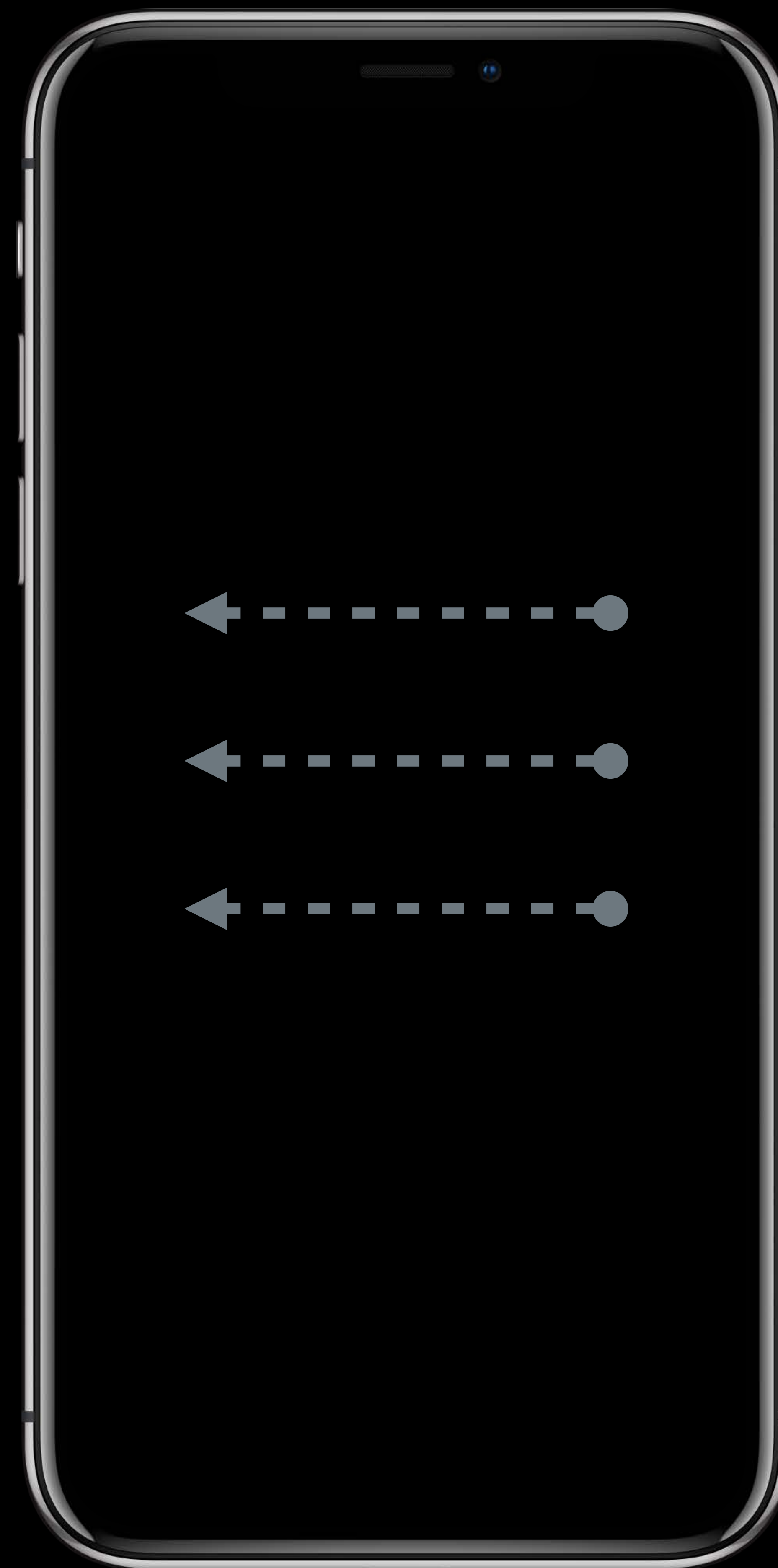
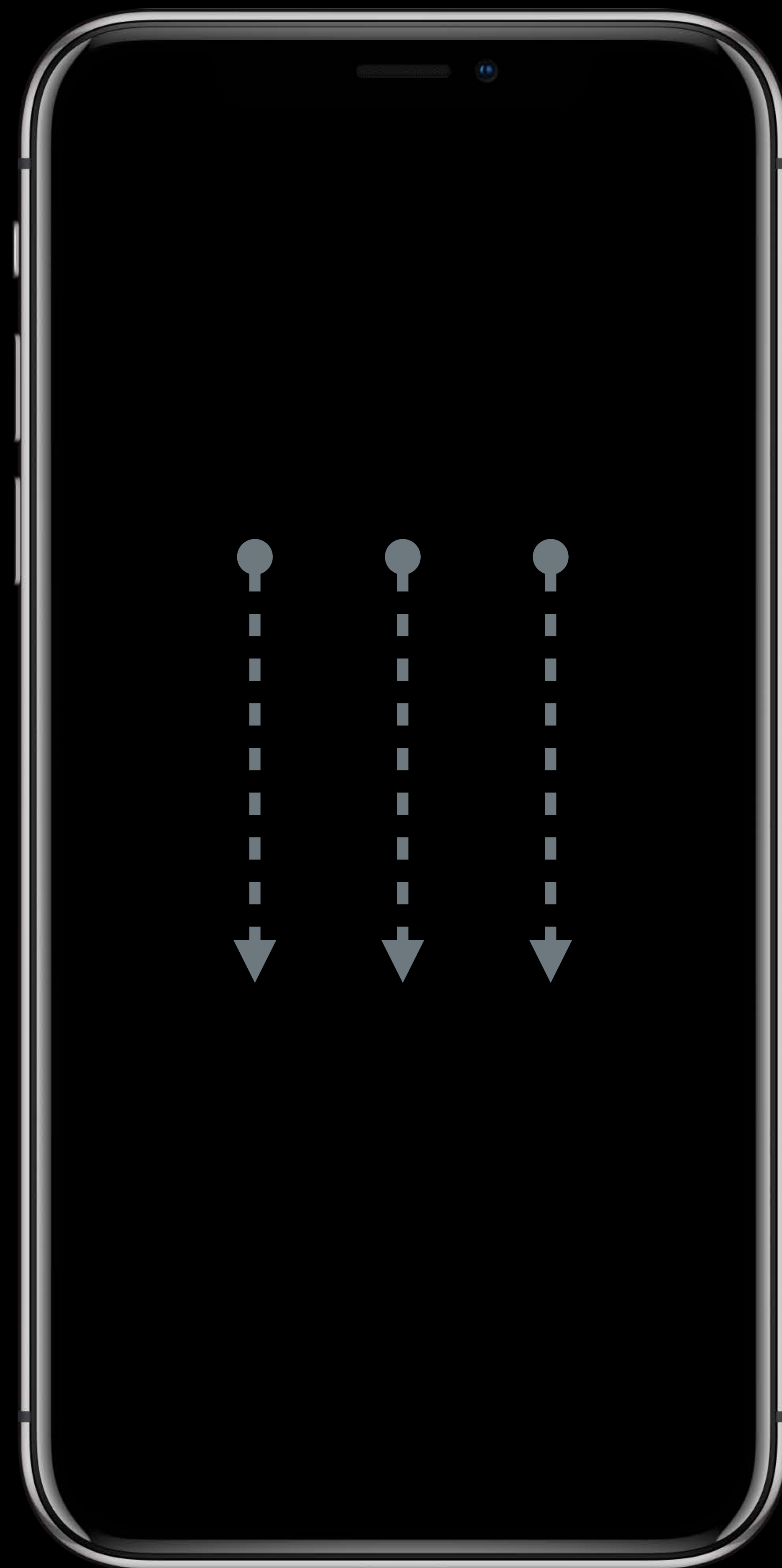
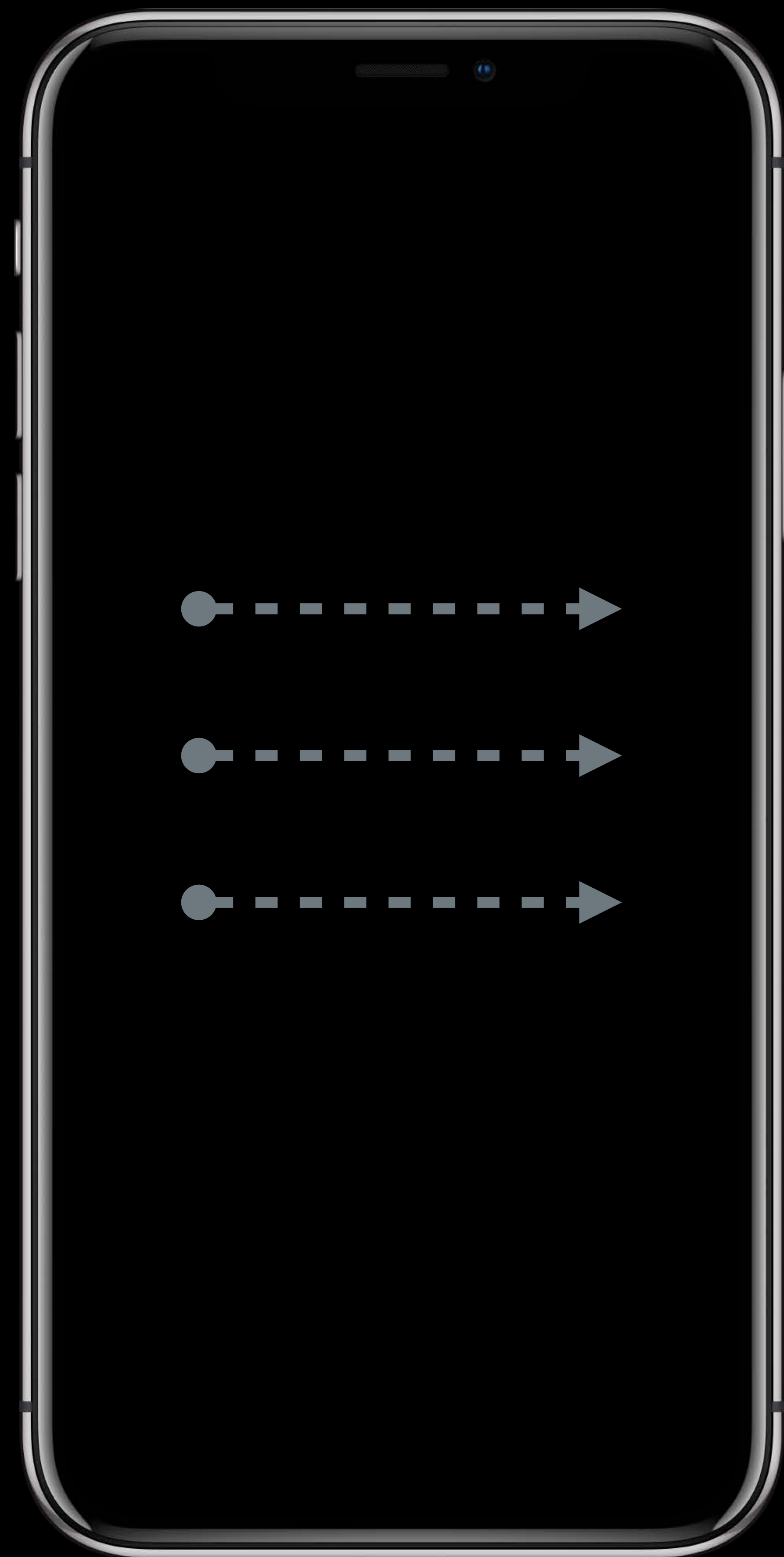
Go Home with VoiceOver



Three Finger Flick



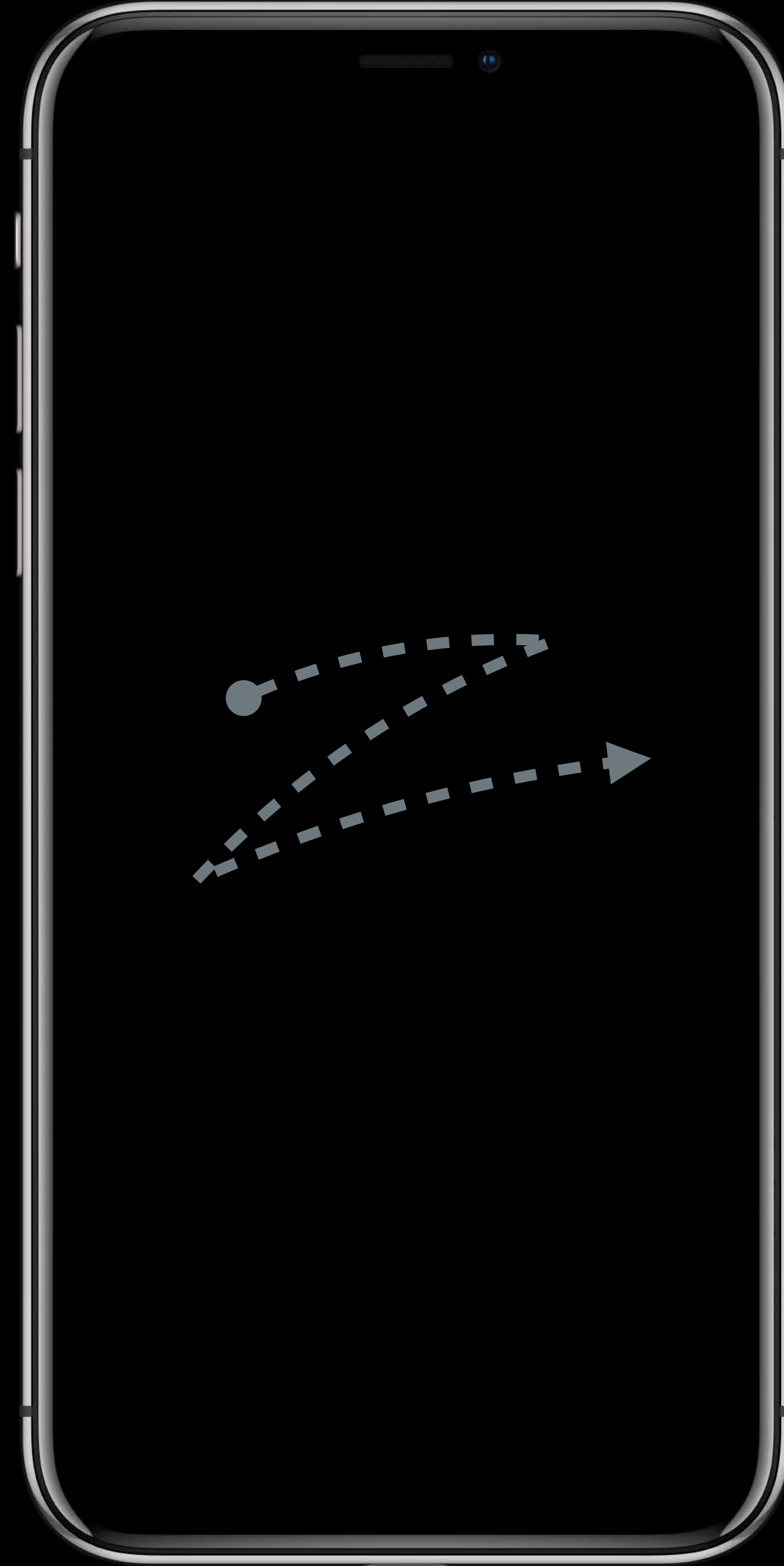
Three Finger Flick



Two Finger Scrub



Two Finger Scrub

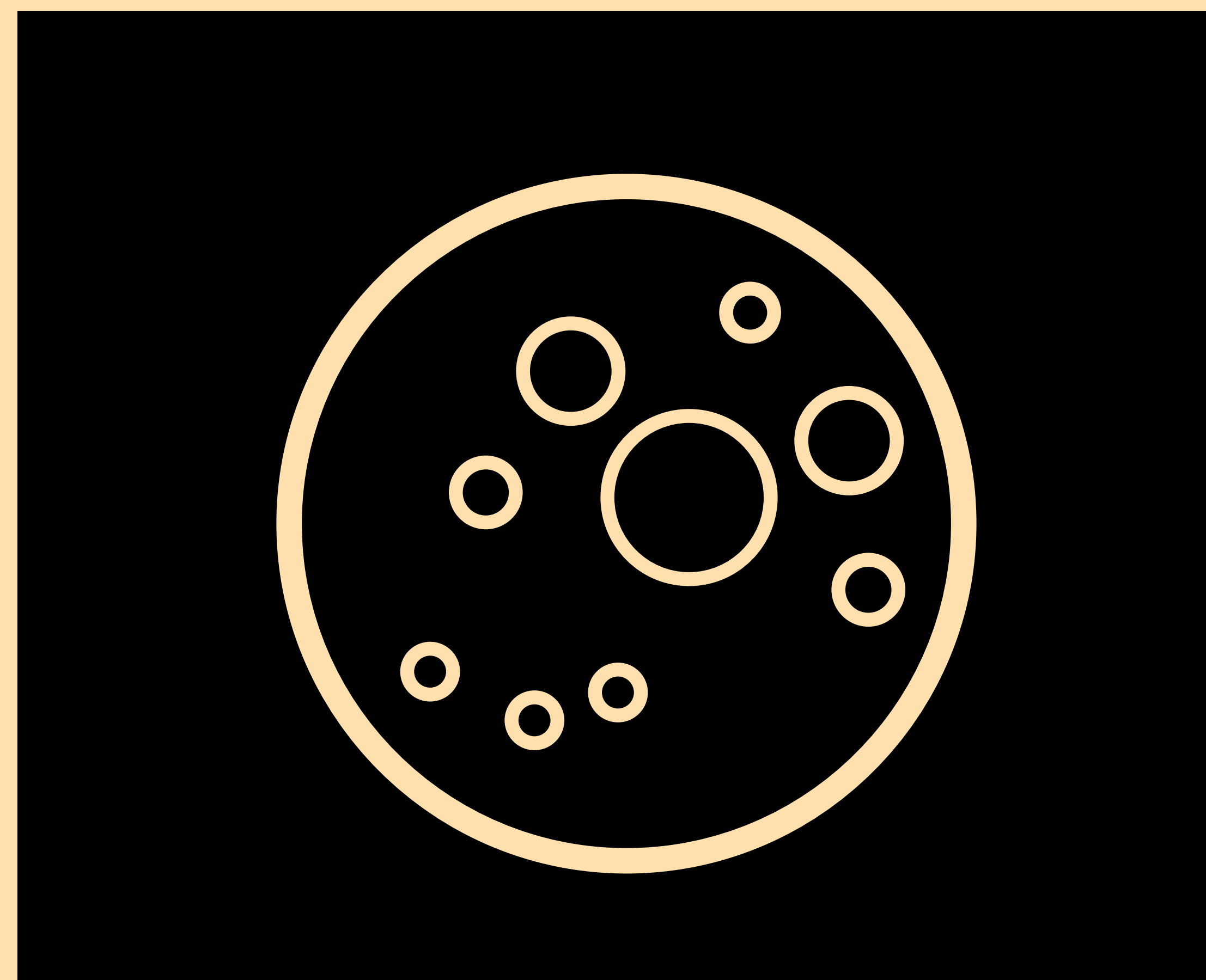


What to listen for

MEN WALK ON MOON

ASTRONAUTS LAND ON PLAIN; COLLECT ROCKS, PLANT FLAG

**Voices from Moon:
'Eagle Has Landed'**



**A Powdery Surface
Is Closely Explored**

MEN WALK ON MOON

**ASTRONAUTS LAND ON PLAIN;
COLLECT ROCKS, PLANT FLAG**

P2345TF.IMG

**VOICES FROM MOON
EAGLE HAS LANDED**

**A POWDERY SURFACE
IS CLOSELY EXPLORED**

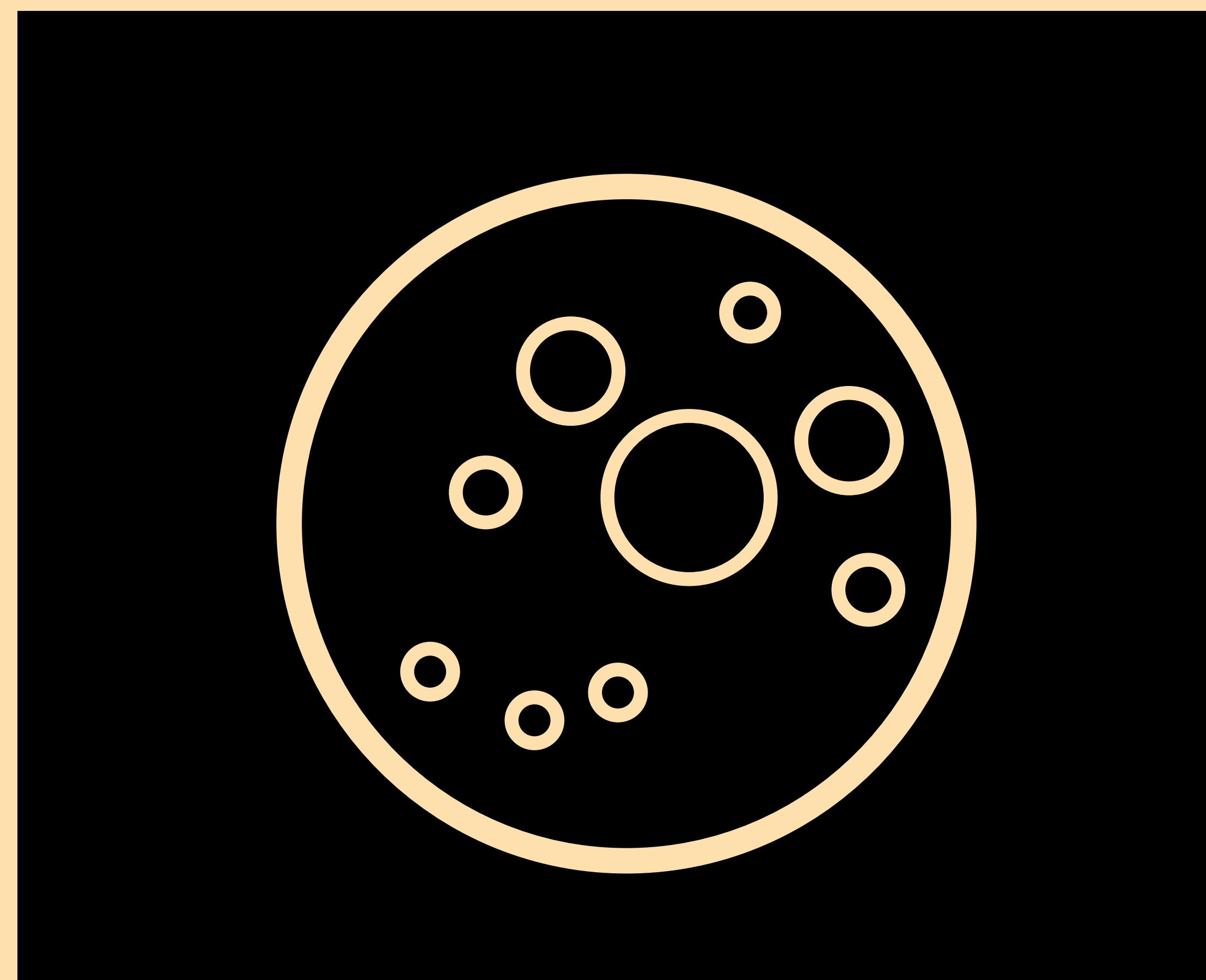
Demo

Ryan Dour, Apple Quality Assurance Engineer

MEN WALK ON MOON

ASTRONAUTS LAND ON PLAIN; COLLECT ROCKS, PLANT FLAG

**Voices from Moon:
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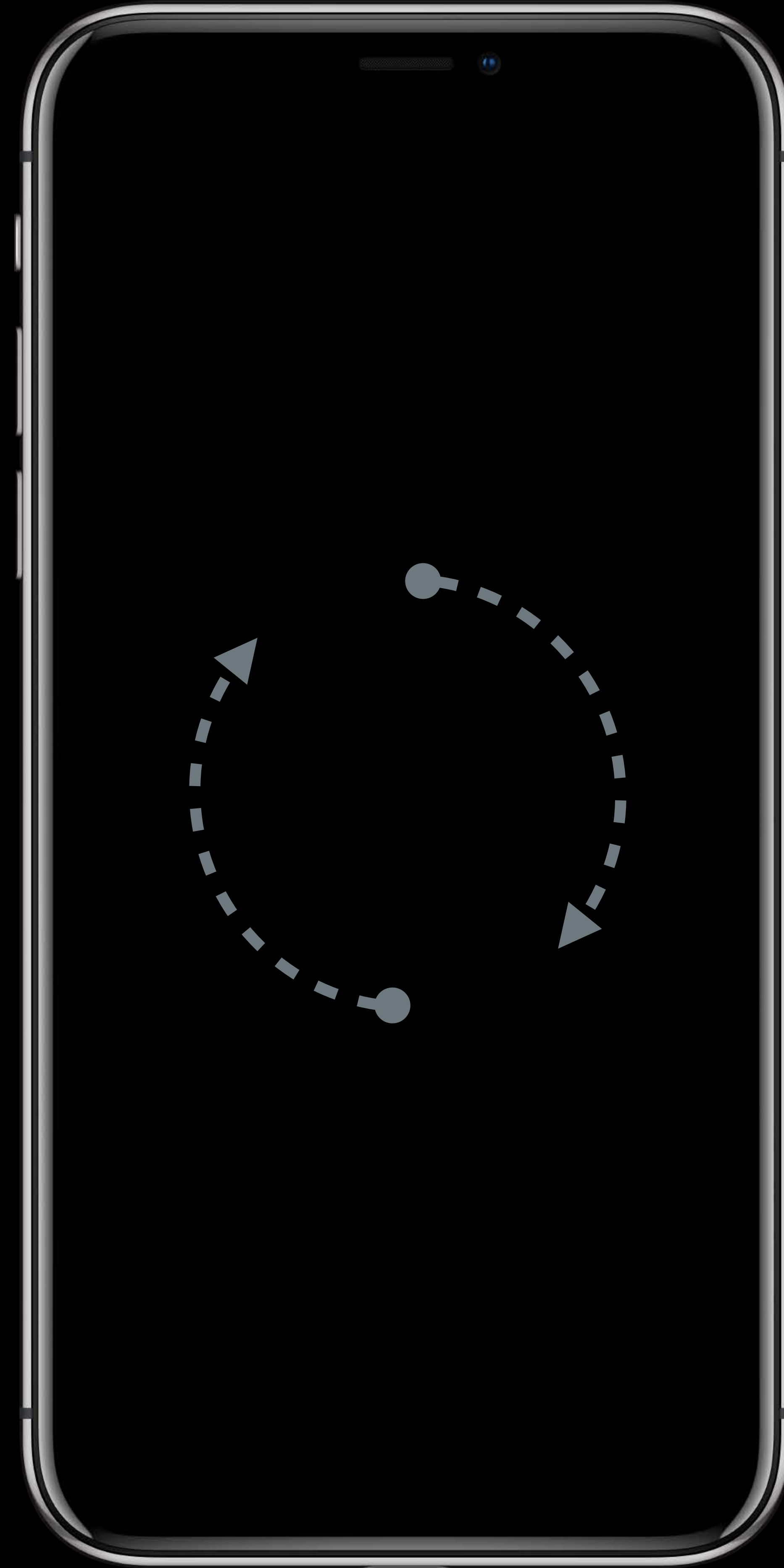
**A Powdery Surface
Is Closely Explored**

VoiceOver Rotor

Setting the Rotor



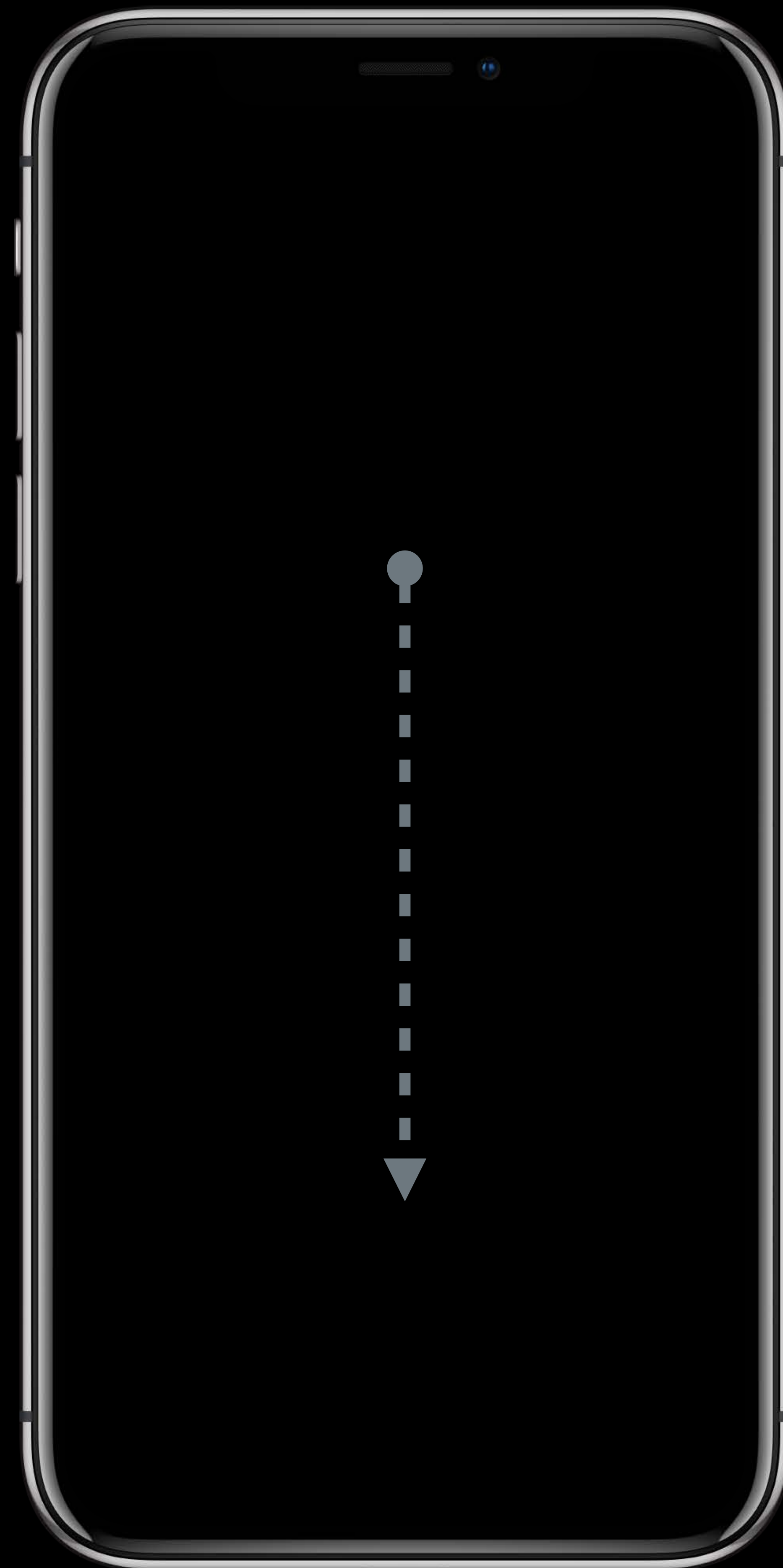
Setting the Rotor



Adjust the Rotor Value



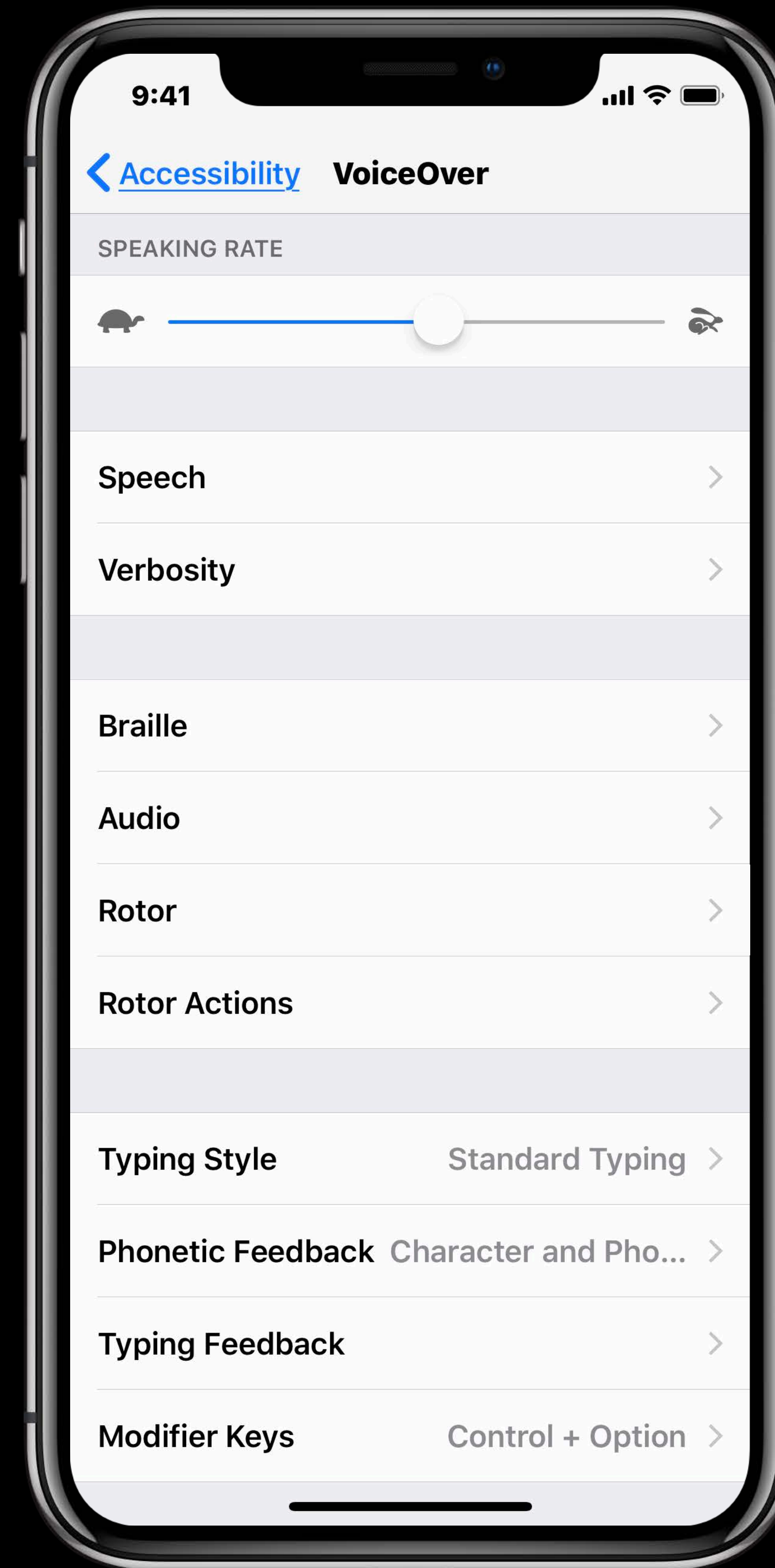
Adjust the Rotor Value



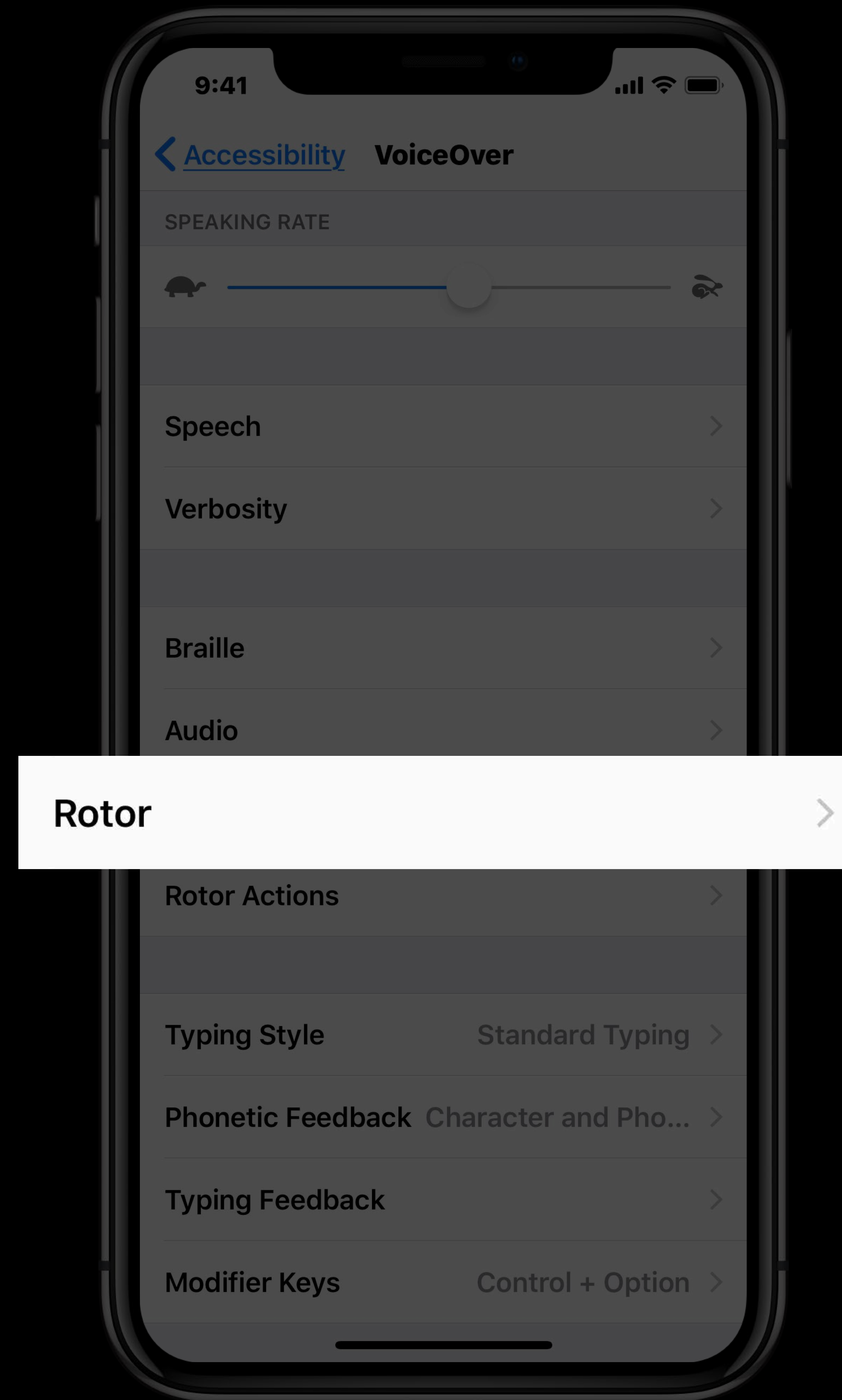
Why the Rotor Matters



Rotor Options in Settings



Rotor Options in Settings



Demo

Ryan Dour, Apple Quality Assurance Engineer

How VoiceOver Benefits Your App

1

If something doesn't sound right,
it may not read well either.



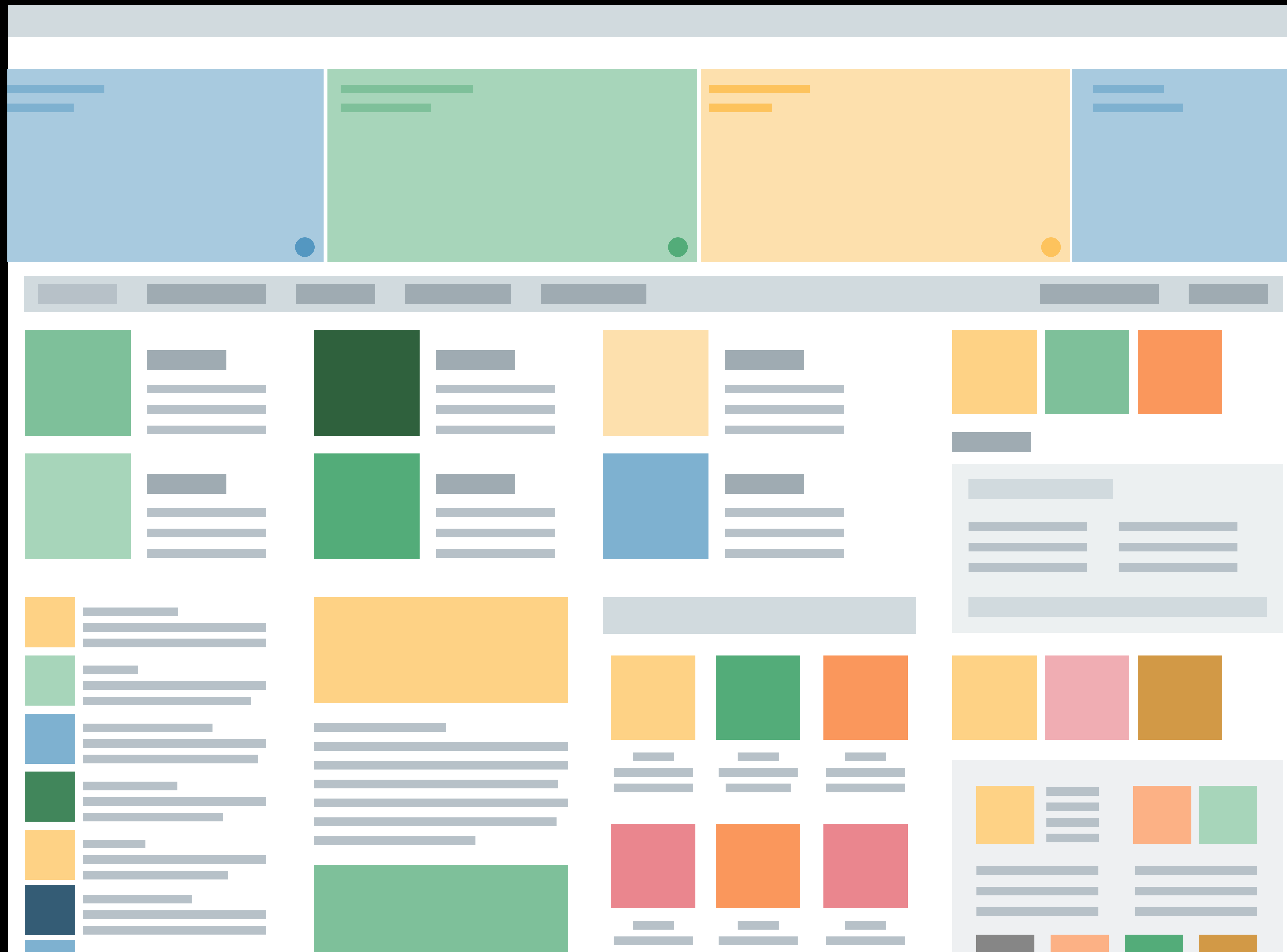


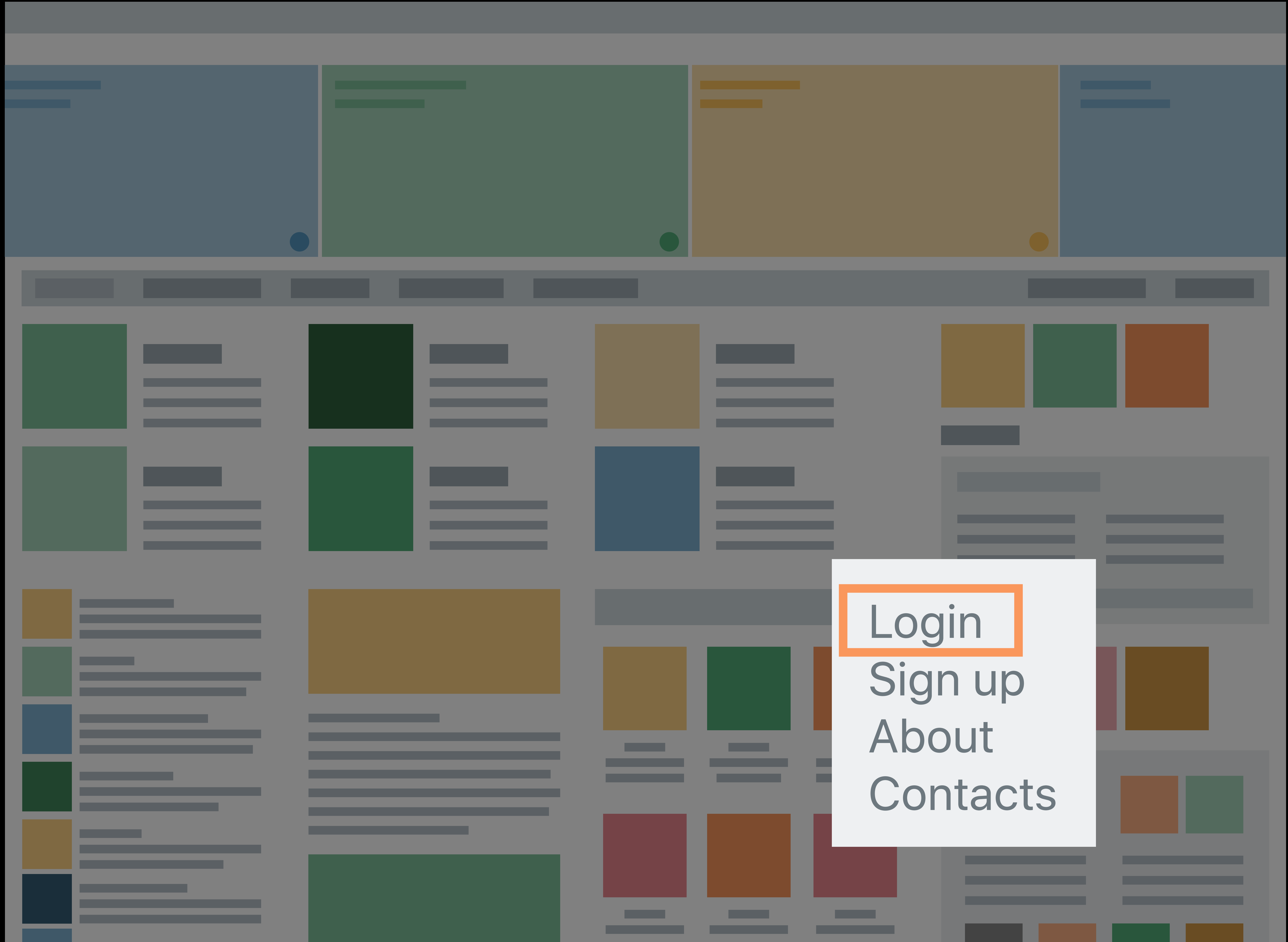
2

If navigating with VoiceOver takes effort,
it probably takes effort visually.

3

If your app sounds out of order,
your content may be too.





Login

Sign up

About

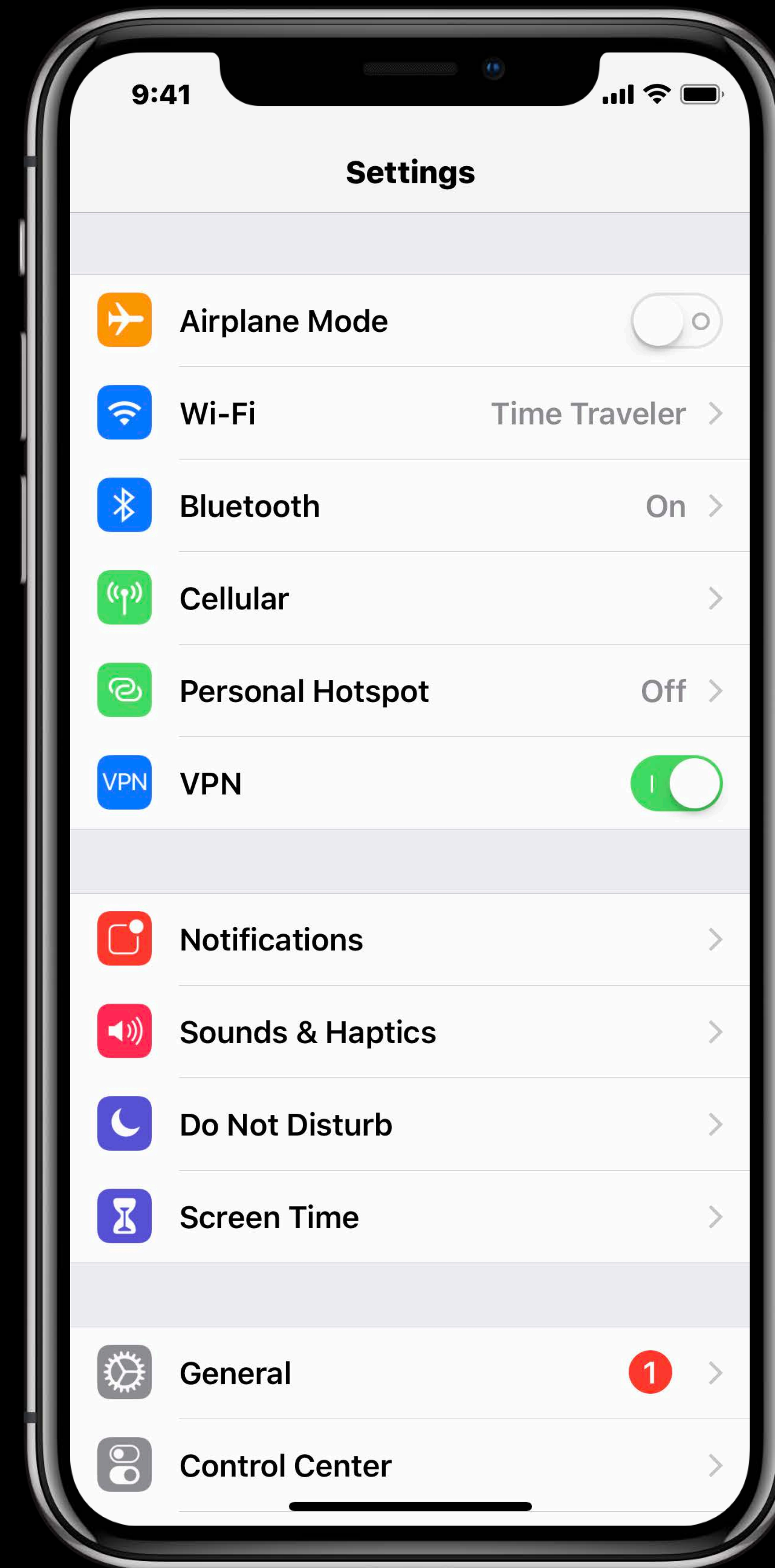
Contacts

These issues cannot hide from
VoiceOver, and neither should you.

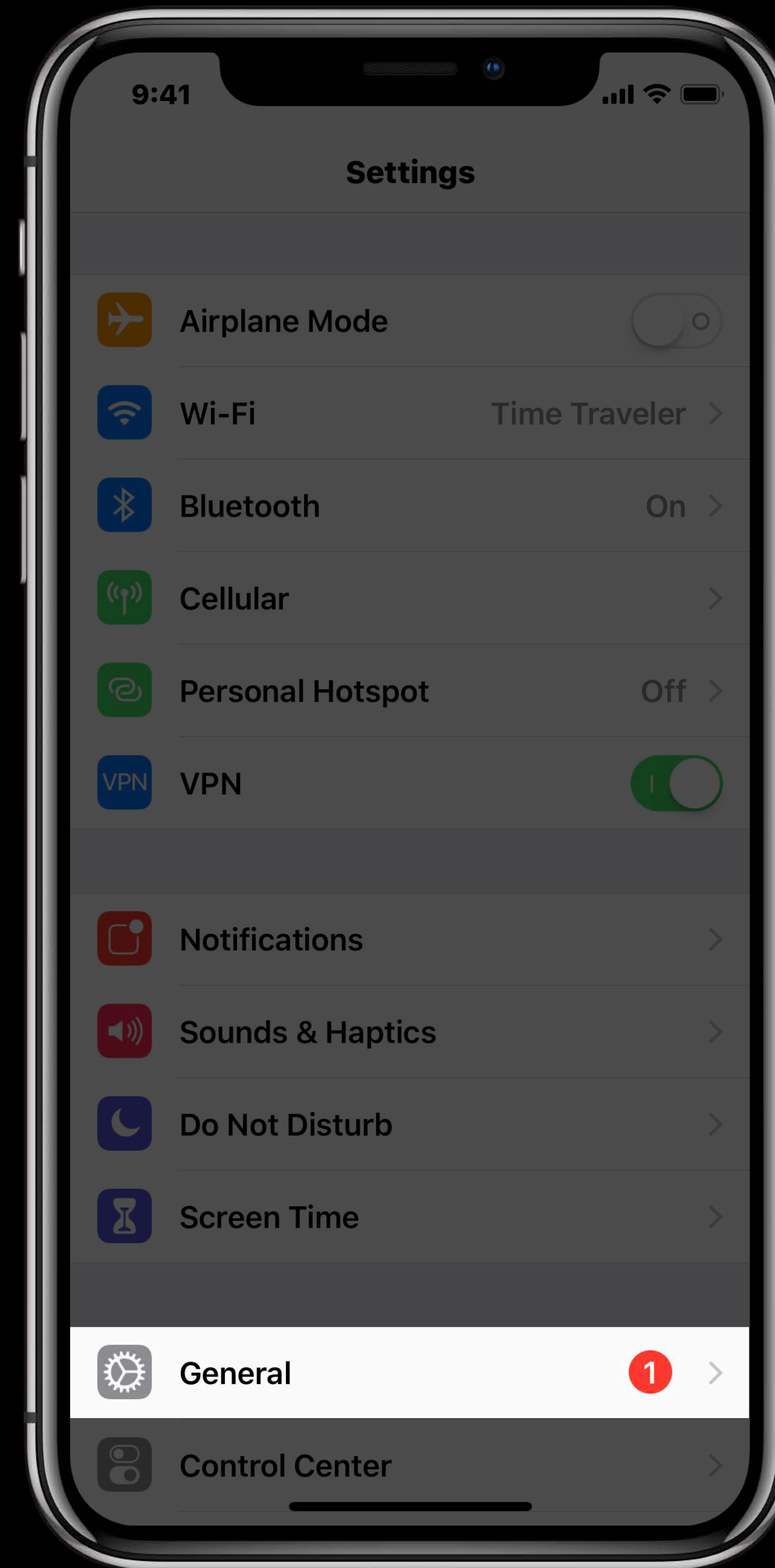
These issues cannot hide from
VoiceOver, and neither should you.

Let's turn it on.

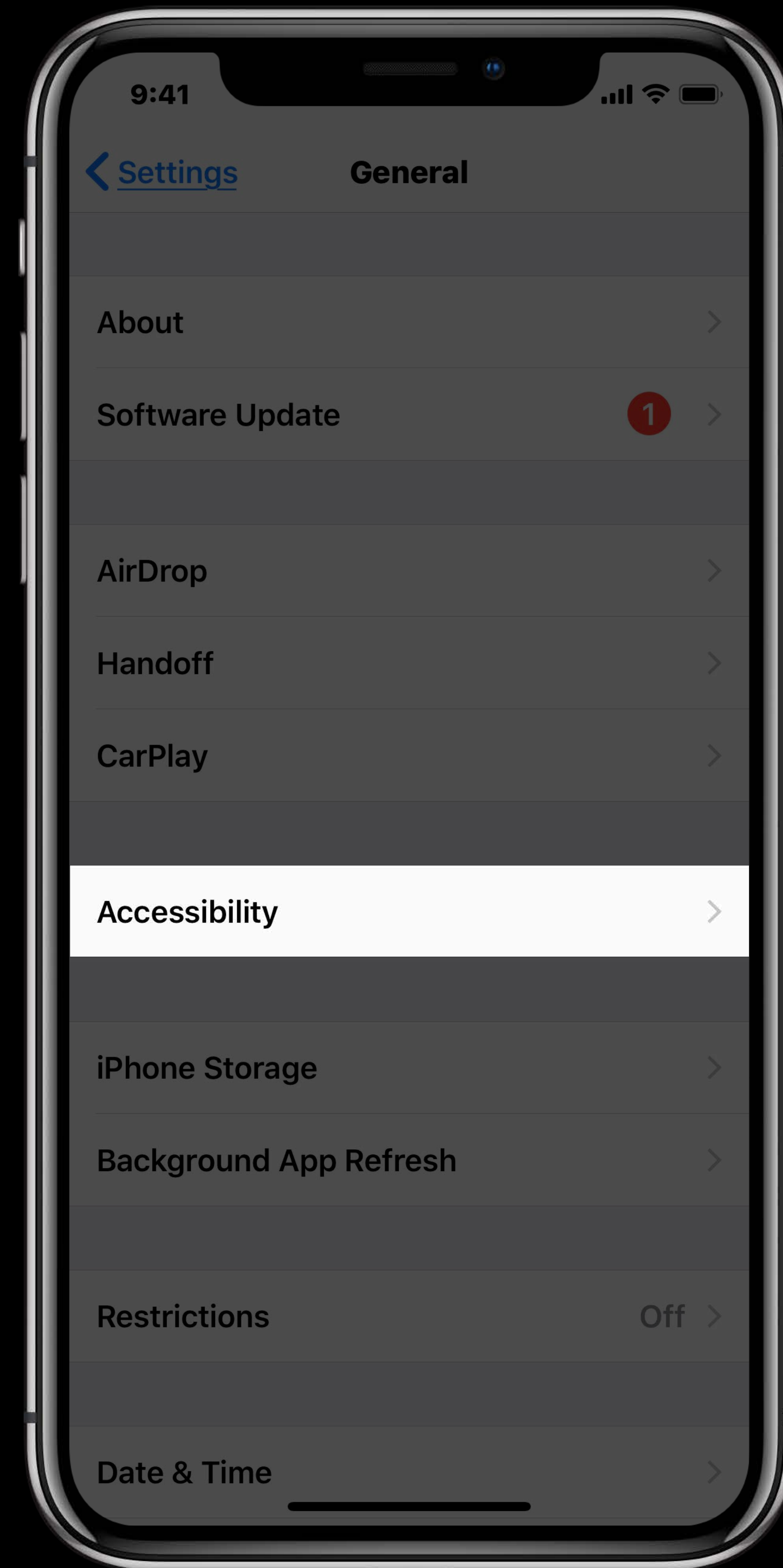
Enabling VoiceOver in Settings



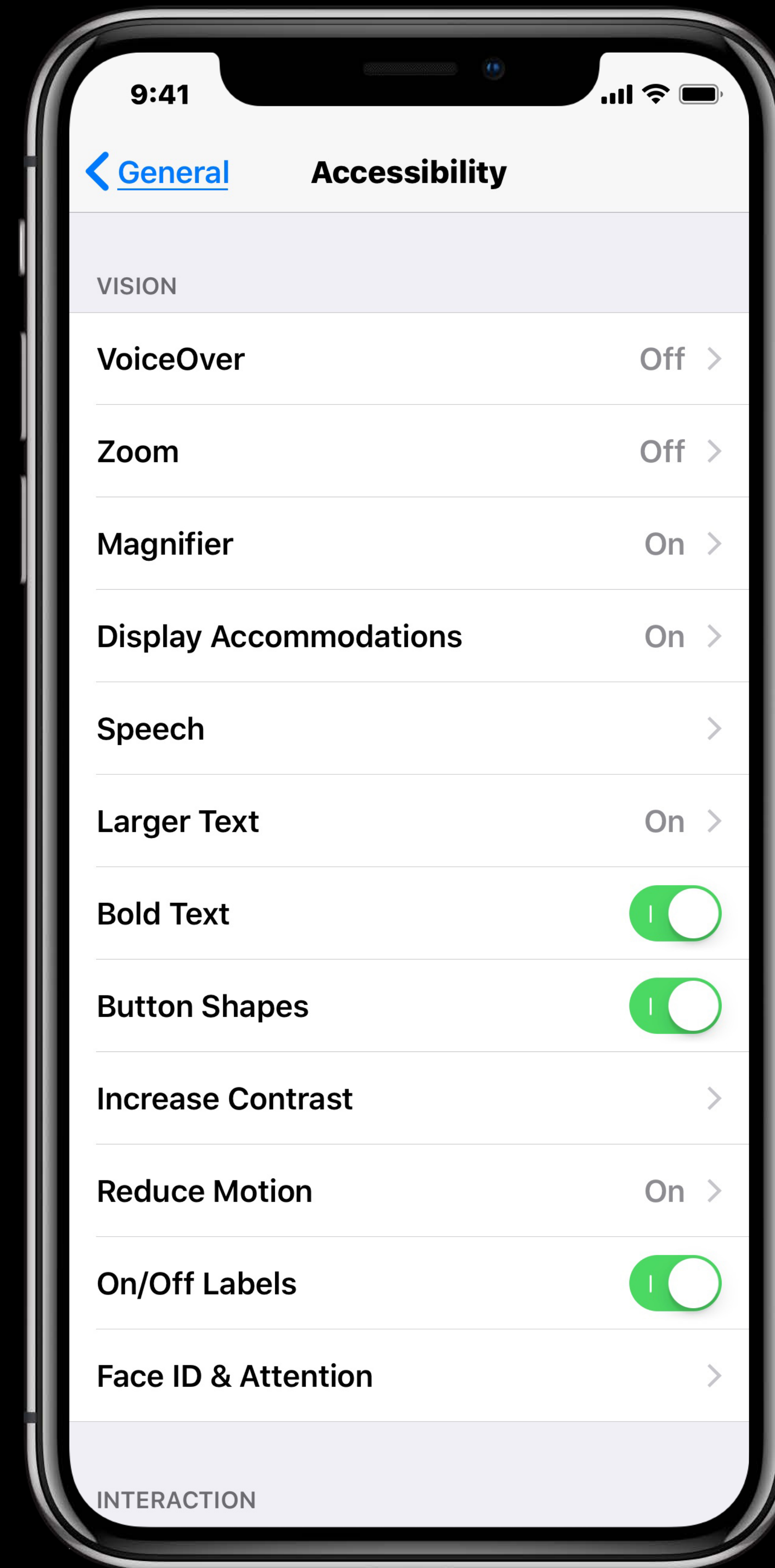
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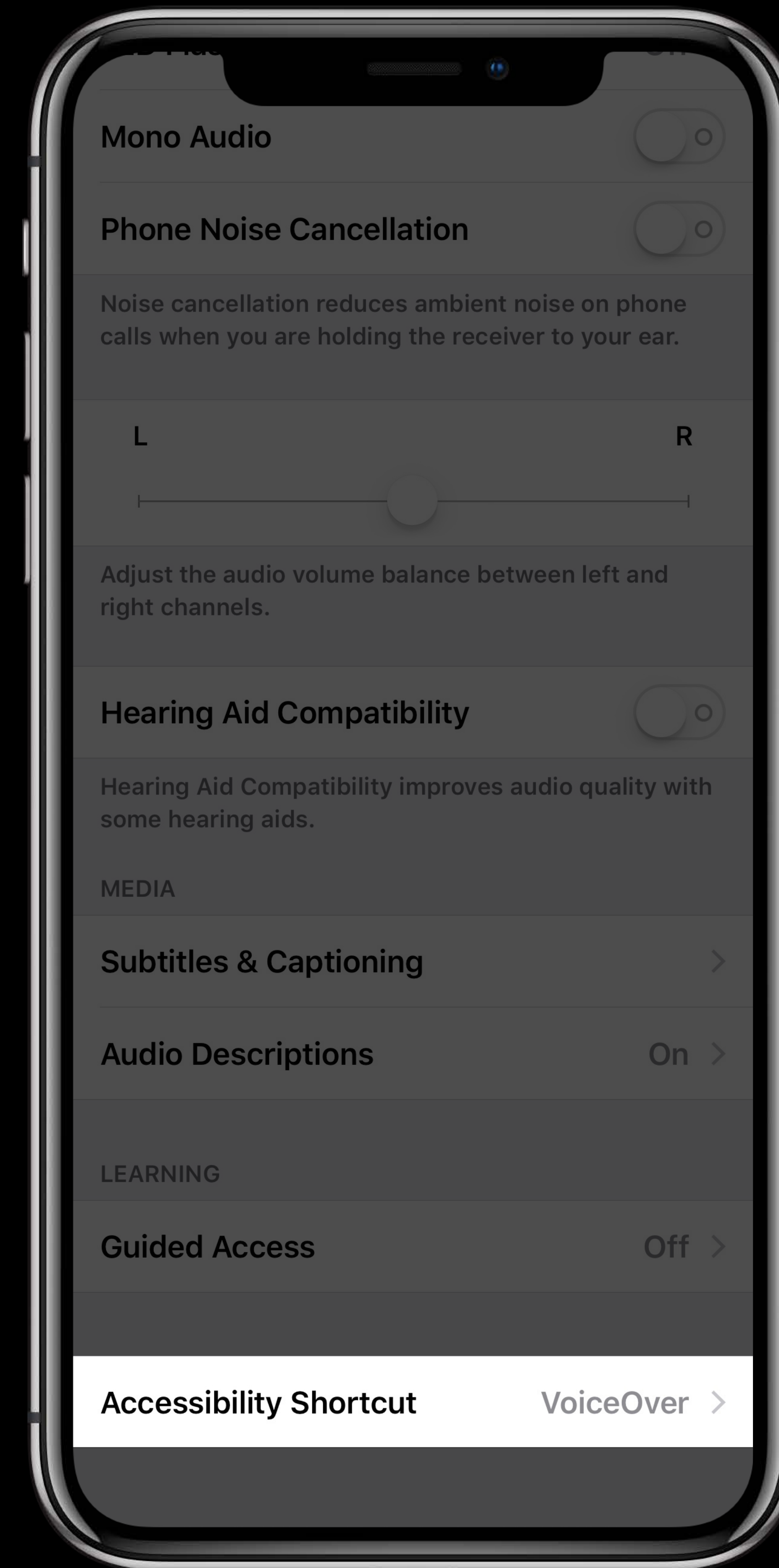
Enabling VoiceOver in Settings



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Enabling VoiceOver in Settings



In Review

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VoiceOver is an alternative way of using your app

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VoiceOver is an alternative way of using your app

You can navigate and activate elements based on how they are labeled

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VoiceOver is an alternative way of using your app

You can navigate and activate elements based on how they are labeled

You can explore other apps to learn expected behavior

In Review

VoiceOver is an alternative way of using your app

You can navigate and activate elements based on how they are labeled

You can explore other apps to learn expected behavior

And rediscover your app by hearing it to help identify issues

Steps After You Leave

Steps After You Leave

Close your eyes and test your app

Steps After You Leave

Close your eyes and test your app

Open your eyes and confirm the experience

Steps After You Leave

Close your eyes and test your app

Open your eyes and confirm the experience

Make VoiceOver apart of your regular testing

Steps After You Leave

Close your eyes and test your app

Open your eyes and confirm the experience

Make VoiceOver apart of your regular testing

Teach others what you know

Resources

apple.com/accessibility

developer.apple.com/accessibility/ios/

More Information

<https://developer.apple.com/wwdc18/226>

Accessibility Design By Appointment Lab

UI Design Lab 2

Friday 9:00AM

Deliver an Exceptional Accessibility Experience

Executive Ballroom

Friday 10:00AM

Accessibility Lab

Technology Lab 9

Friday 11:00AM

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