

Cove Apple Club

June 22, 2016

Tonight's Topics

Tonight's Topics

- WWDC Recap-ette

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- WWDC Recap-ette
- A Defense Against Scam Phone Calls

Tonight's Topics

- WWDC Recap-ette
- A Defense Against Scam Phone Calls
- A New Kind of Personal Assistant

WWDC 2016

Hello, WWDC16.

```
/* Apple WWDC16 Keynote Address  
Bill Graham Civic Auditorium, San Francisco */
```

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WWDC 2016

Hello, WWDC16.

/* Apple WWDC16 Keynote Address
Bill Graham Civic

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WWDC 2016

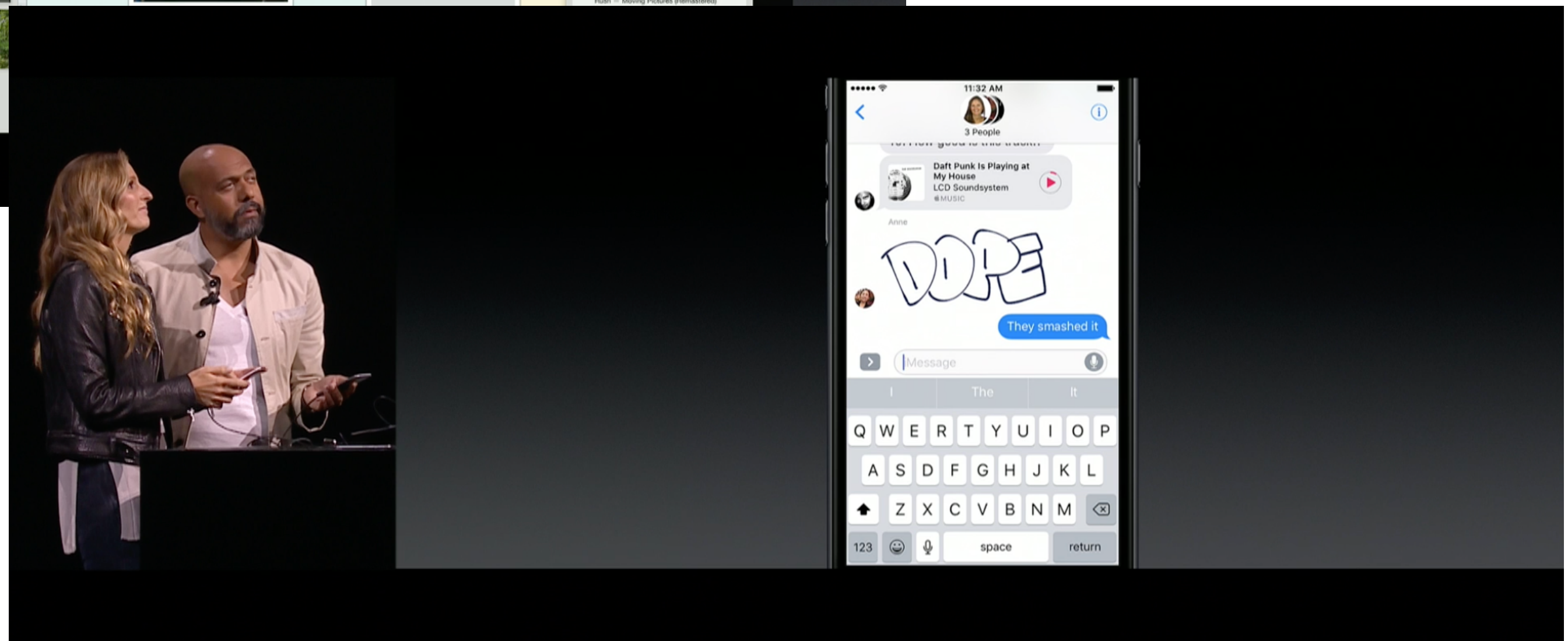


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WWDC 2016



WWDC 2016

WWDC 2016

- **Hundreds** of new features coming to iOS and macOS

WWDC 2016

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- A complete re-imagining of watchOS

WWDC 2016

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- Two hours that ***flew*** by

WWDC 2016

- **Hundreds** of new features coming to iOS and macOS
- A complete re-imagining of watchOS
- Two hours that ***flew*** by
- Watch the whole keynote on Apple TV or apple.com — it was one of the greats (even with no new hardware!)


Top 5: macOS 10.12 Sierra

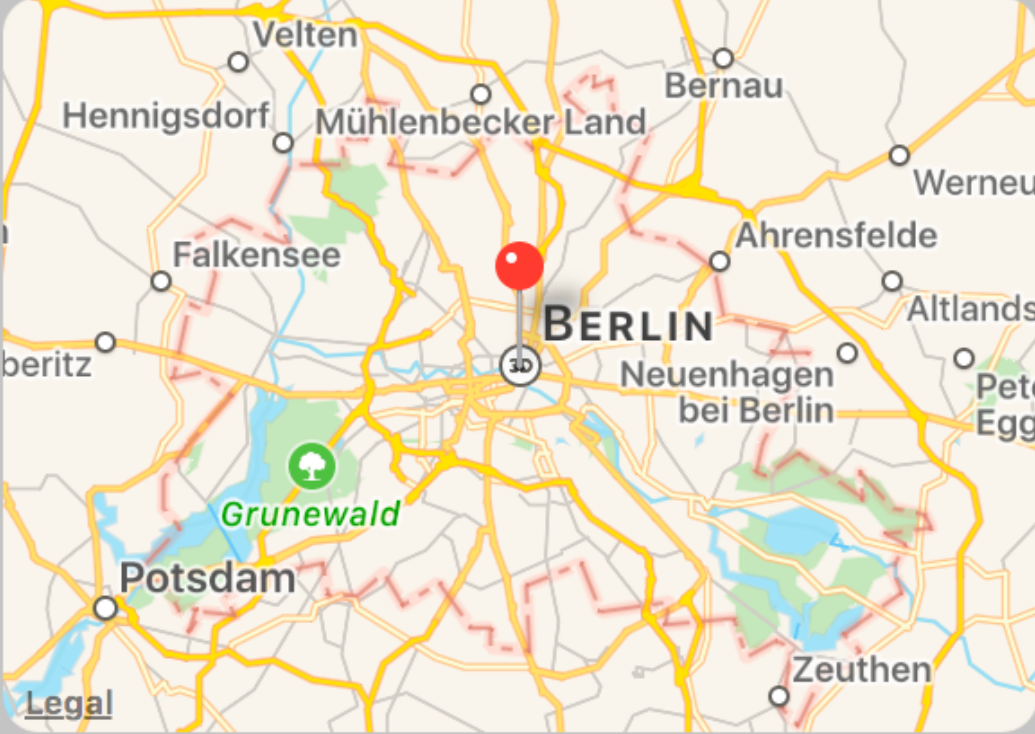


×

" How far is it to Berlin "

It looks like Berlin, Germany is about 4,900 miles away as the crow flies.


 MAPS



A map showing the Berlin region. A red pin is placed in the center of Berlin. Surrounding areas like Potsdam, Grunewald, and various districts are labeled. The map uses a standard color scheme with green for parks and blue for water.

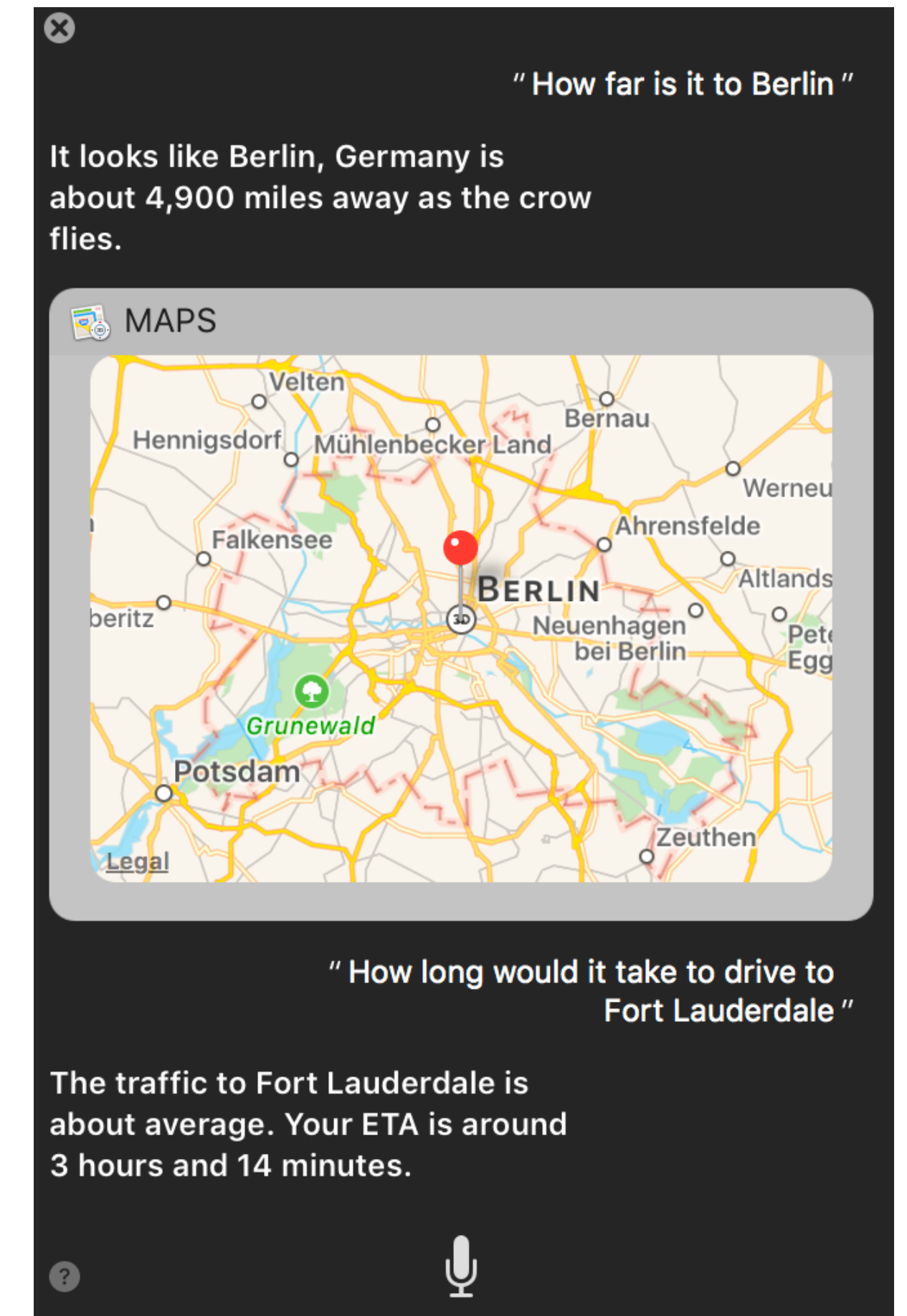
" How long would it take to drive to Fort Lauderdale "

The traffic to Fort Lauderdale is about average. Your ETA is around 3 hours and 14 minutes.

? 

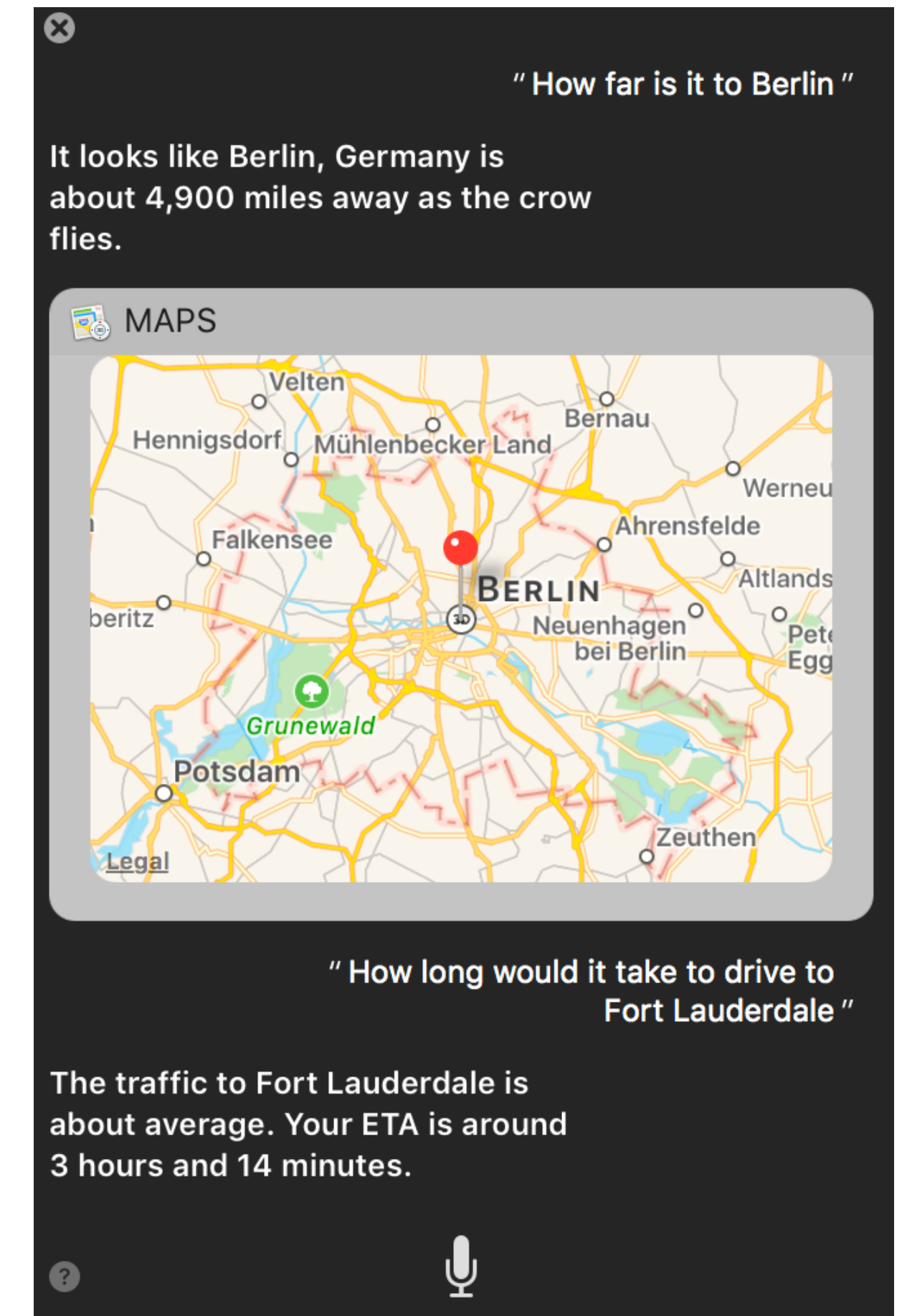
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- Siri on Mac (yay!)



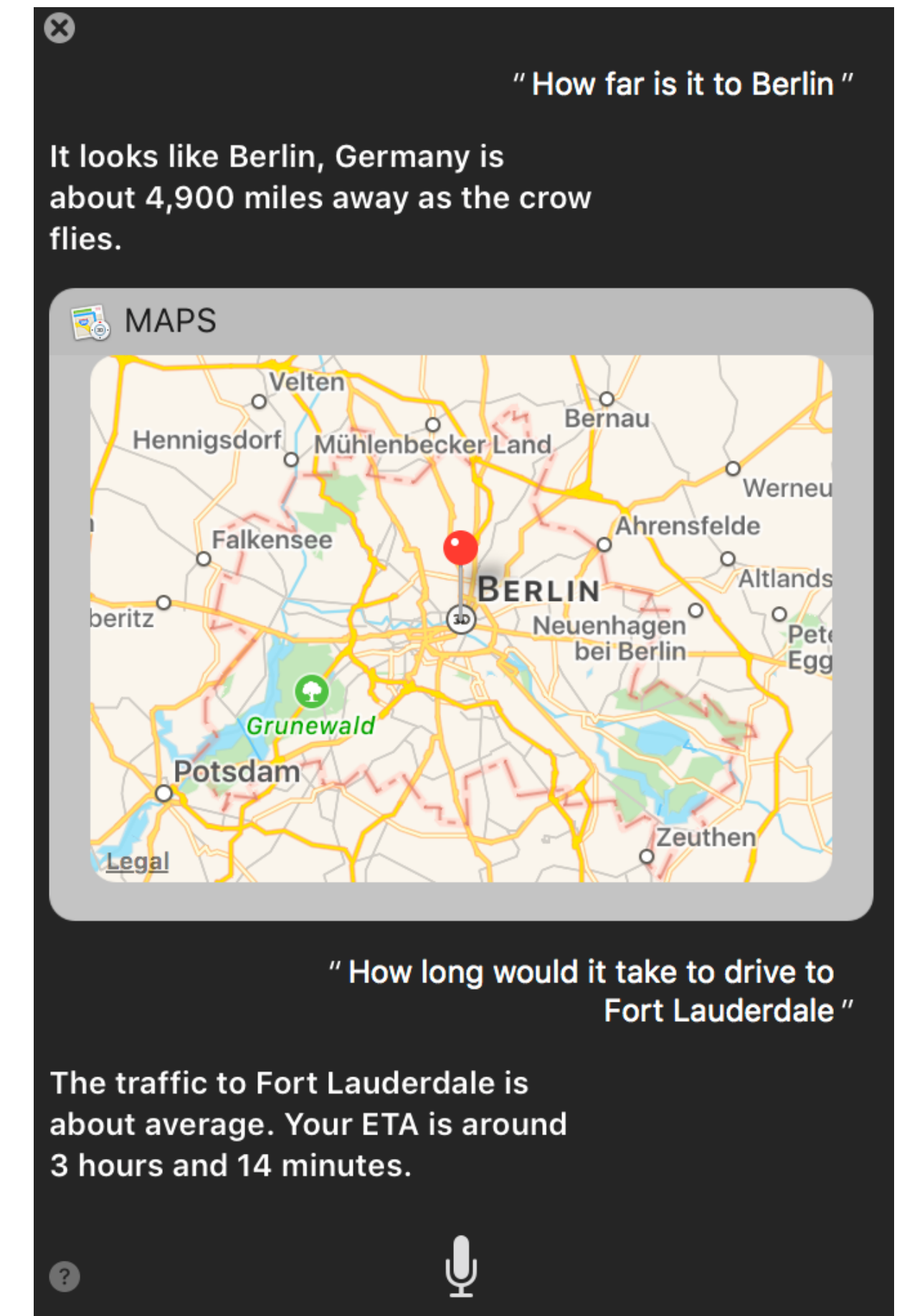
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- AI-enhanced image recognition & categorization in Photos



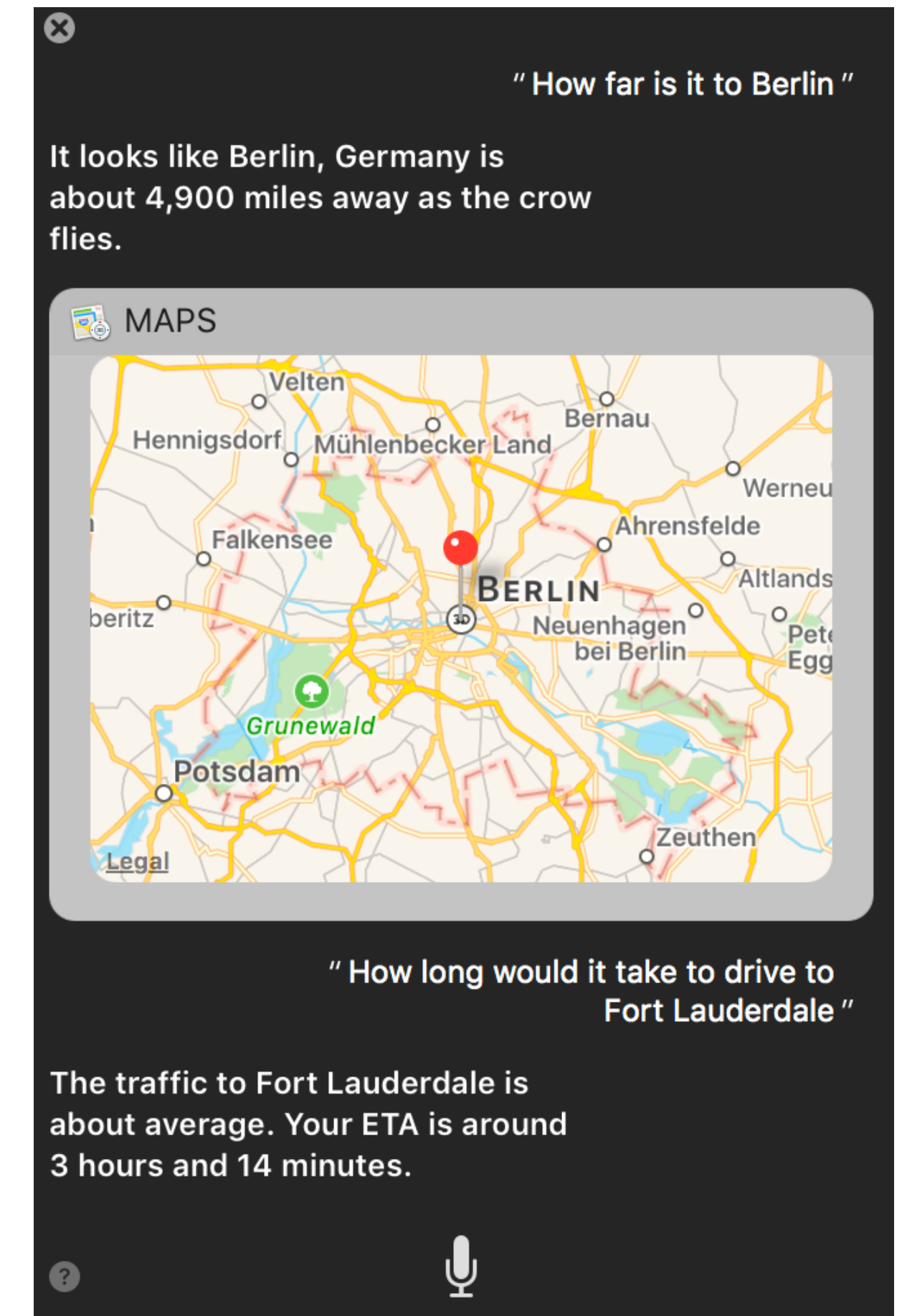
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- Desktop & Documents folder sync through iCloud



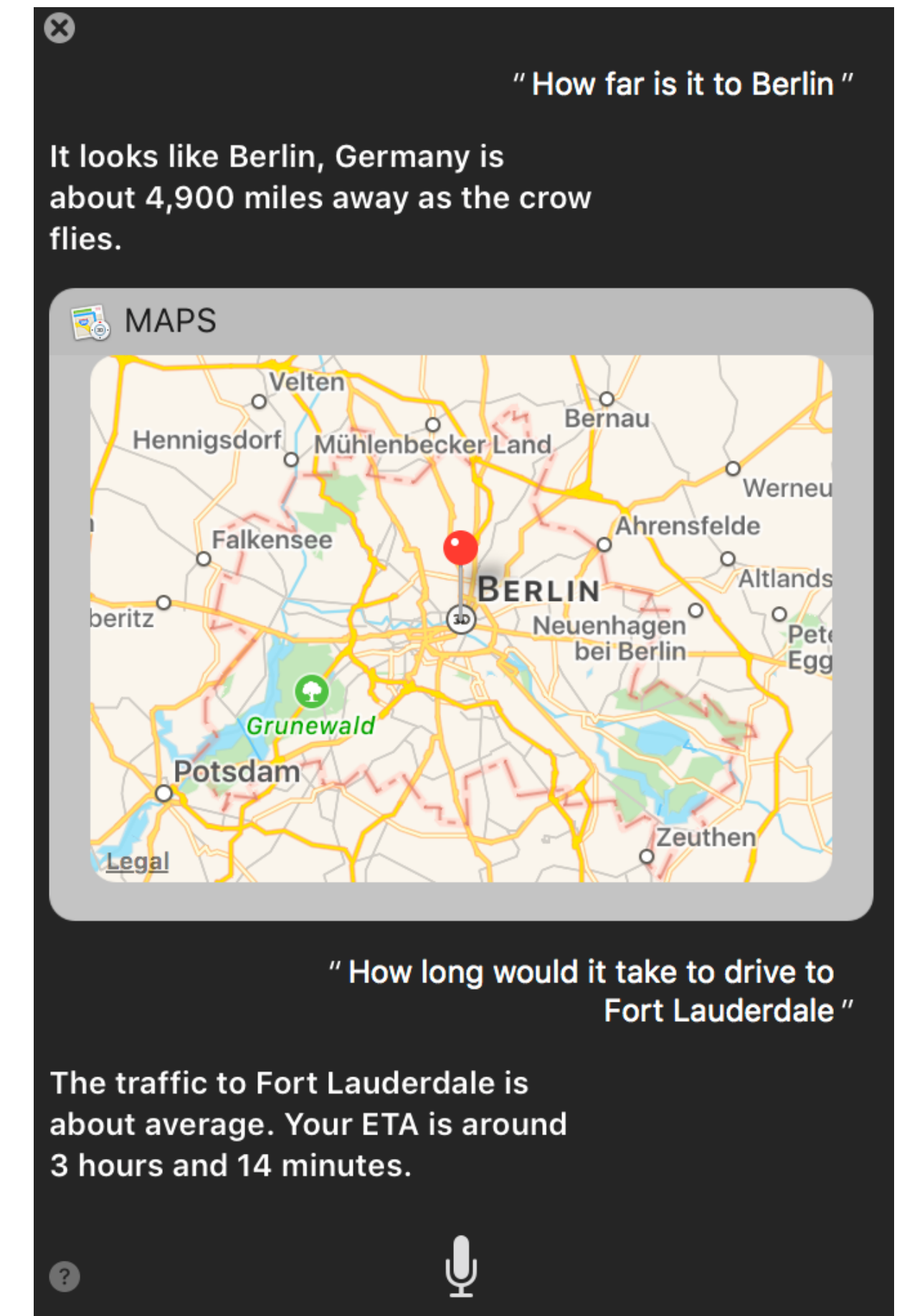
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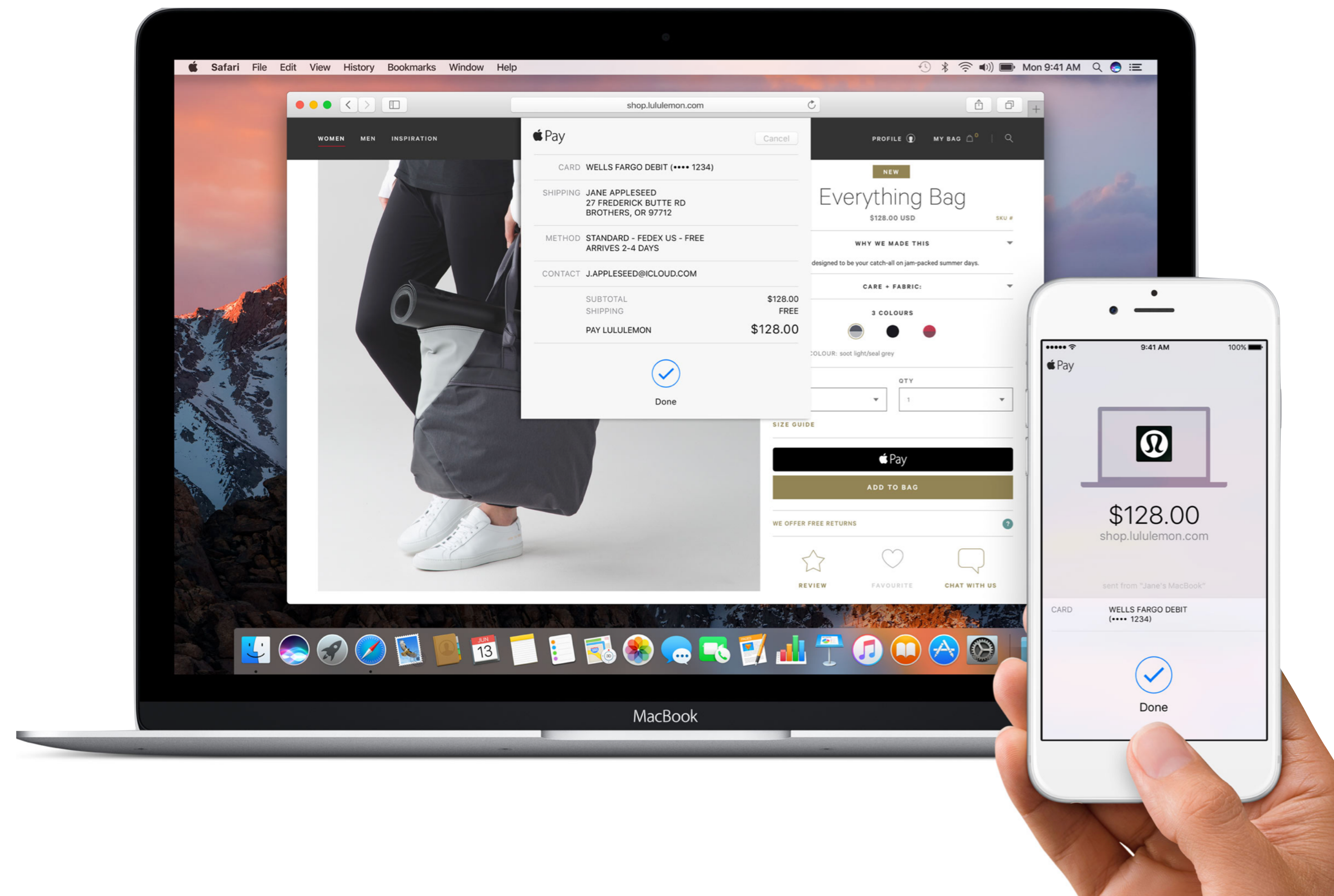


Top 5: macOS 10.12 Sierra

- Siri on Mac (yay!)
- AI-enhanced image recognition & categorization in Photos
- Desktop & Documents folder sync through iCloud
- Apple Pay on the web
- Dozens of enhancements in Messages

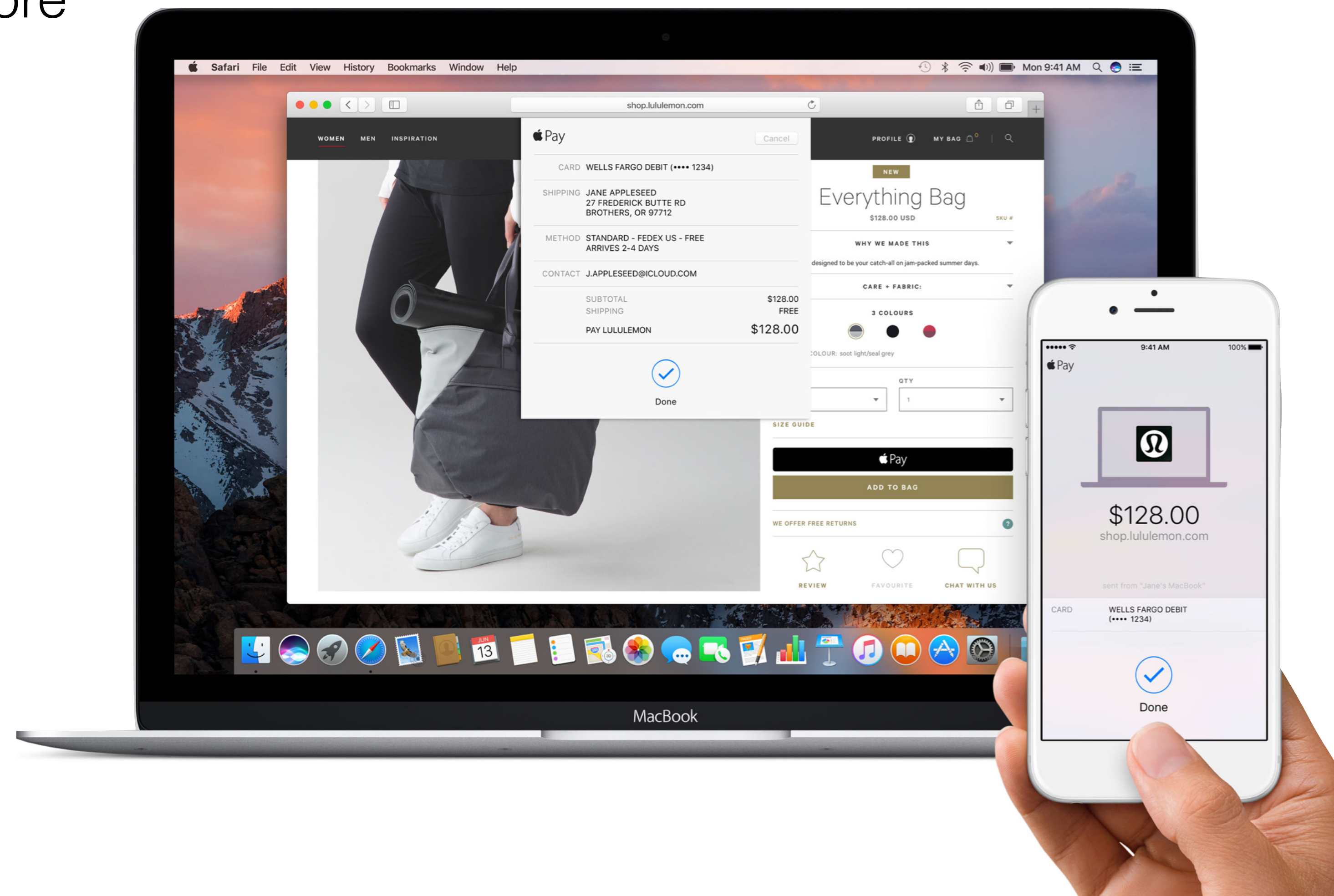


macOS 10.12 Sierra



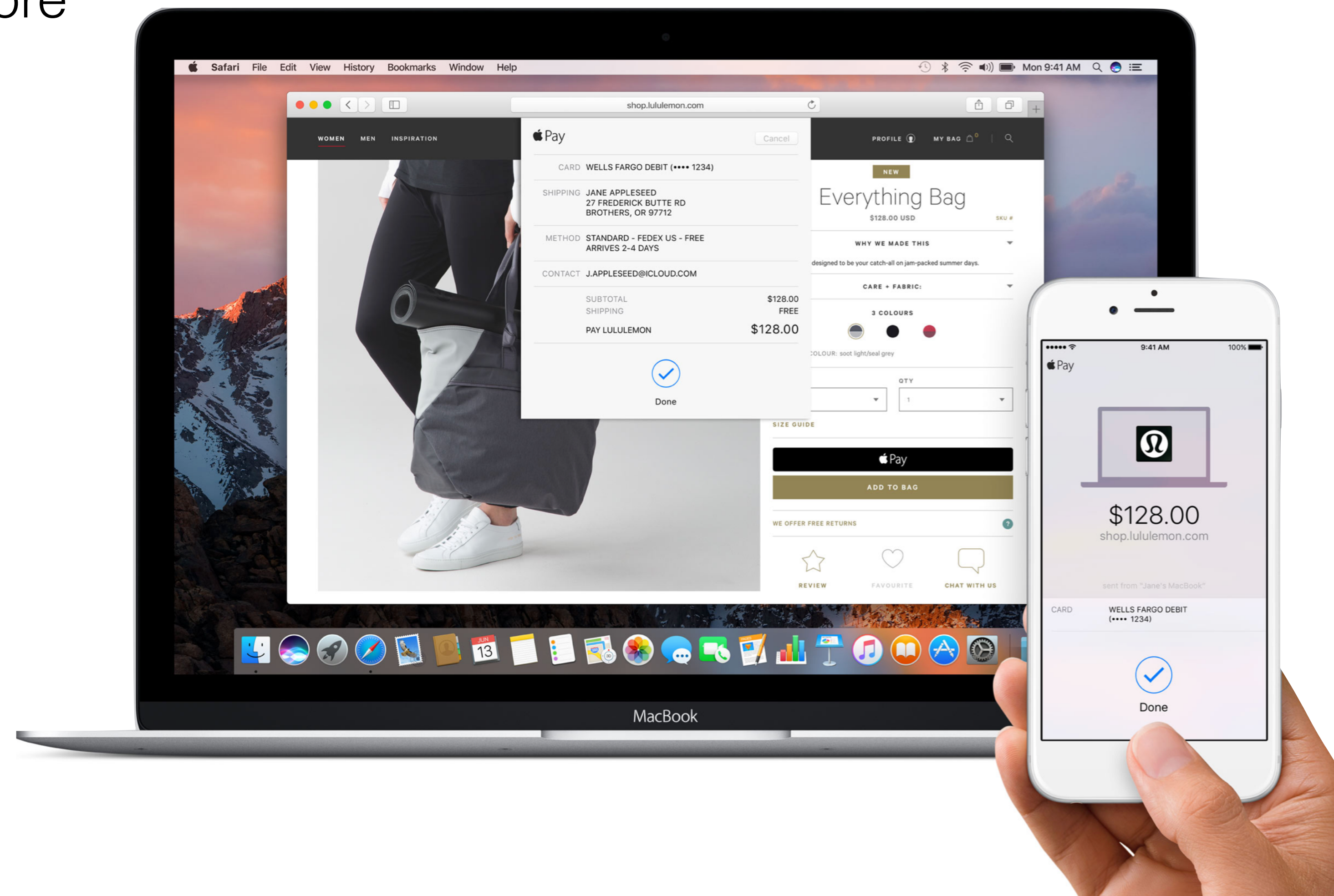
macOS 10.12 Sierra

- Free download from the App Store this fall



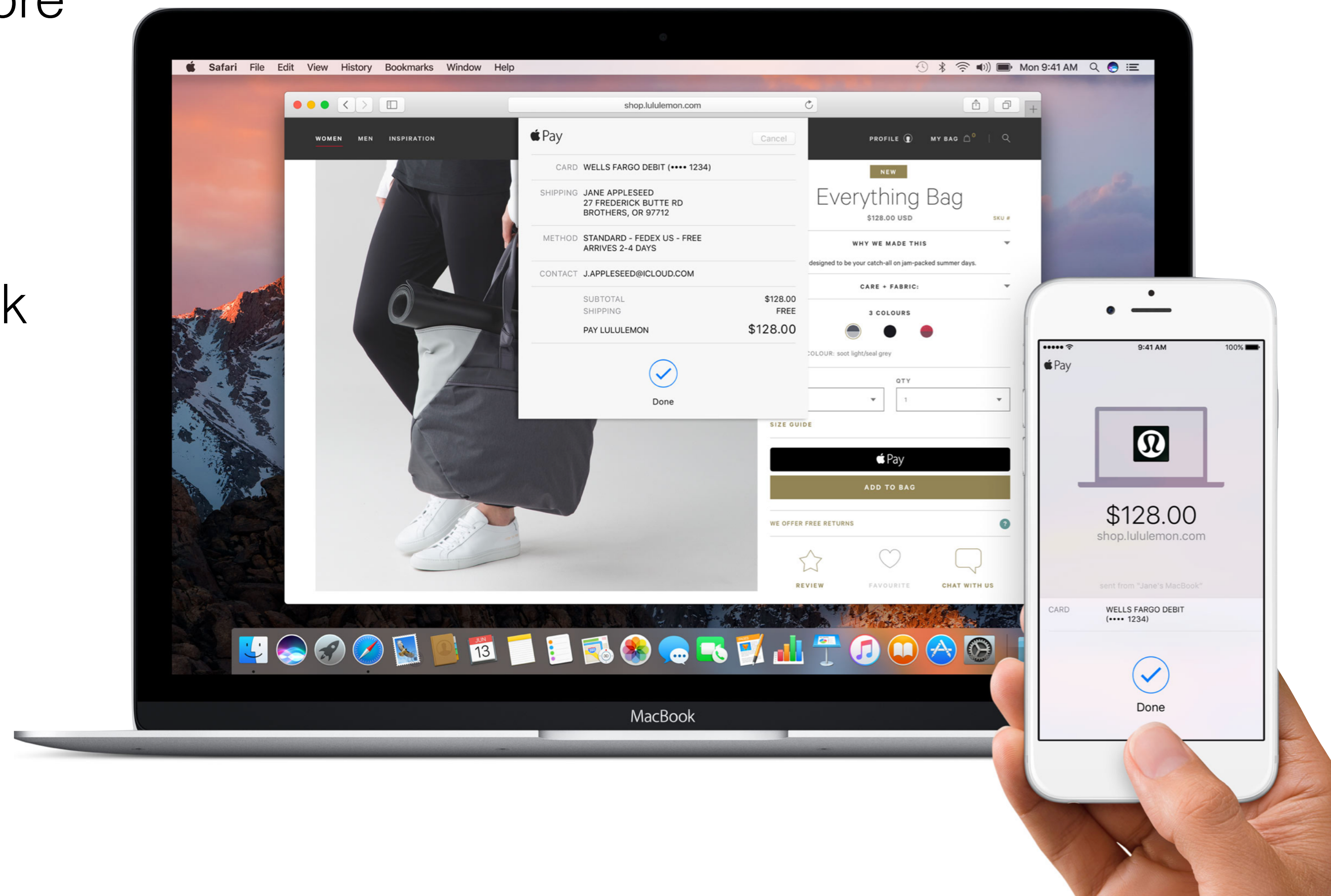
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- Free download from the App Store this fall
- Compatible with:



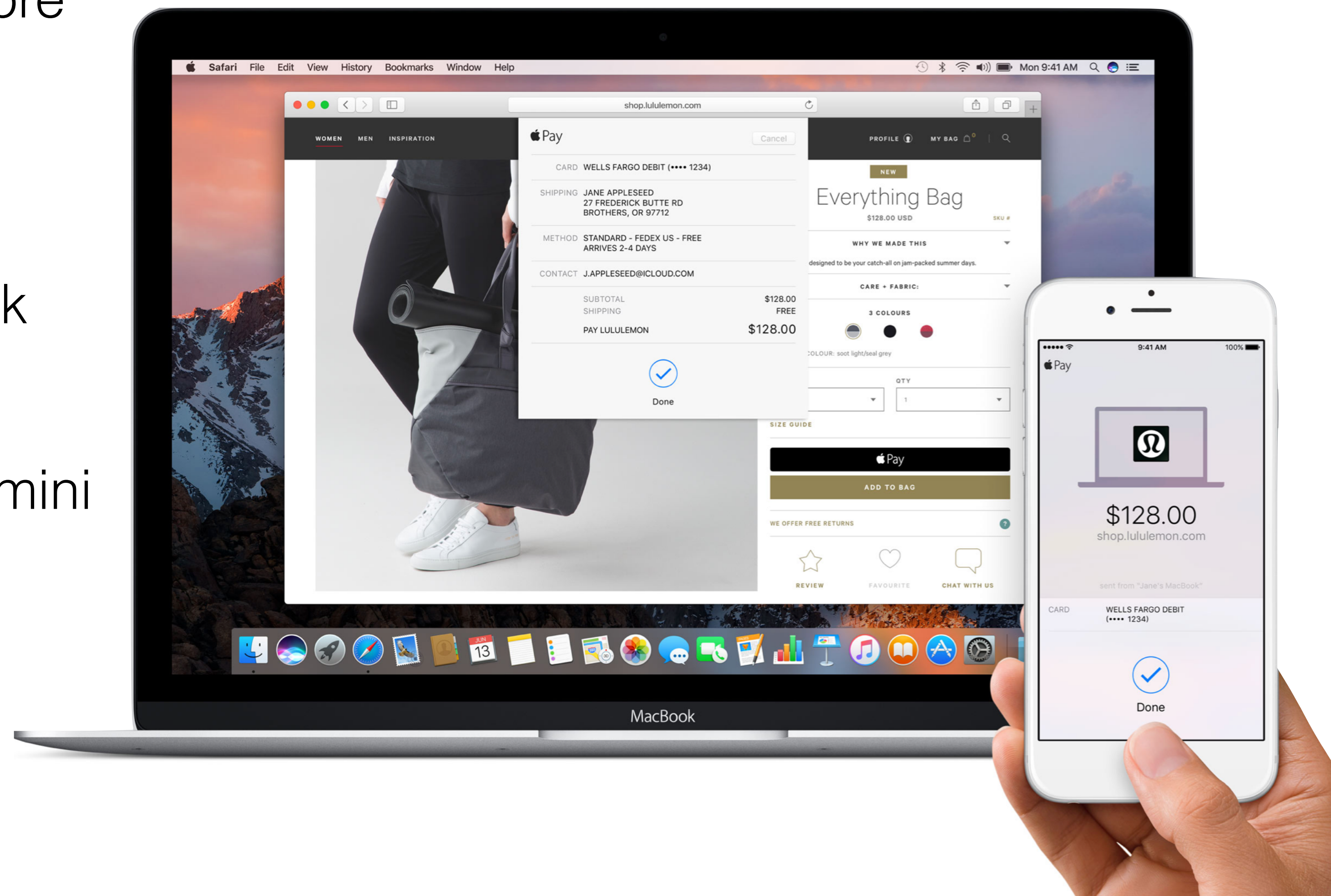
macOS 10.12 Sierra

- Free download from the App Store this fall
- Compatible with:
 - 2009 and later iMac, MacBook



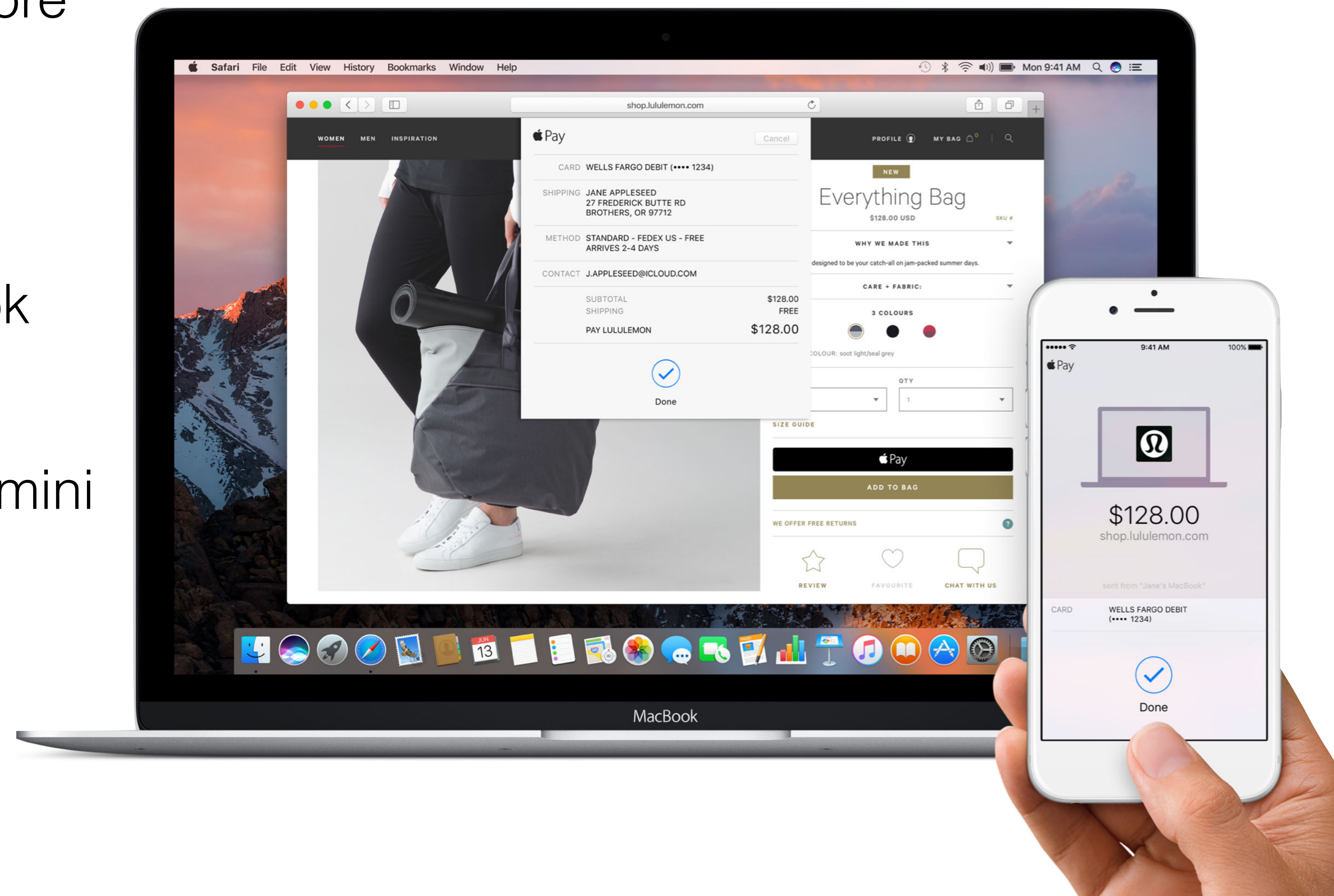
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macOS 10.12 Sierra


- Free download from the App Store this fall
- Compatible with:
 - 2009 and later iMac, MacBook
 - 2010 and later MacBook Air, MacBook Pro, Mac Pro, Mac mini
- Public beta opens soon at beta.apple.com





Install 10.12 Developer Preview

Install 10.12 Developer Preview



10.12 Developer Preview

OS X will be installed on the disk "Macintosh HD".



Macintosh HD

About 36 seconds remaining

Cancel





Overview

Displays

Storage

Memory

Support

Service



macOS Sierra

Version 10.12 Beta (16A202w)

iMac (Retina 5K, 27-inch, Late 2015)

Processor 3.2 GHz Intel Core i5

Memory 24 GB 1867 MHz DDR3

Startup Disk Macintosh HD

Graphics AMD Radeon R9 M390 2048 MB

Serial Number C02QH6EFGG7L

System Report...

Software Update...

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Top 5: iOS 10

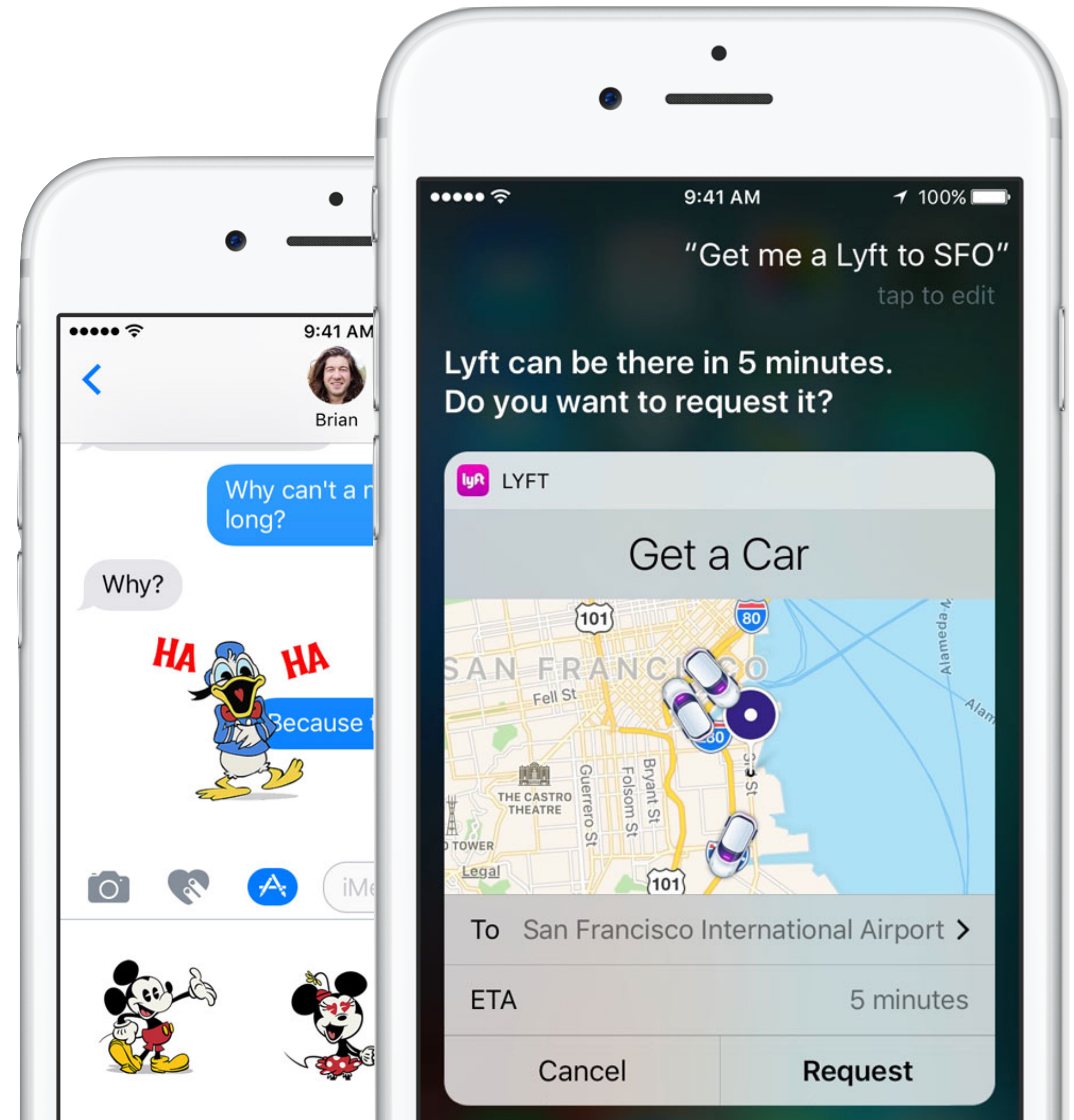
Top 5: iOS 10

- Messages: TapBack, handwrite messages, giant Emoji, Invisible Ink, apps integration, much more



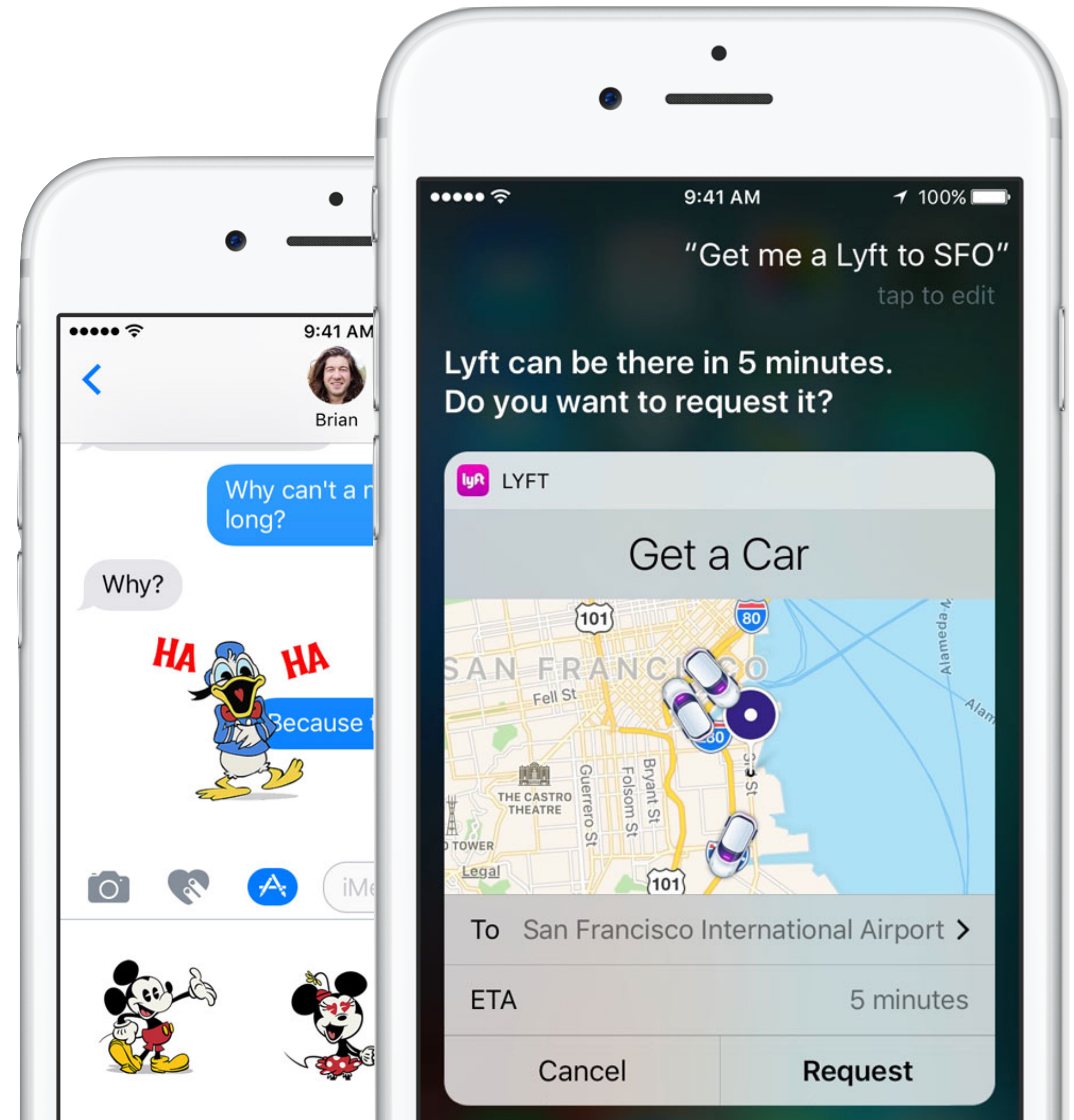
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- Maps: apps integration, AI-backed suggestions & traffic/routing
- New Home app for smart home integration



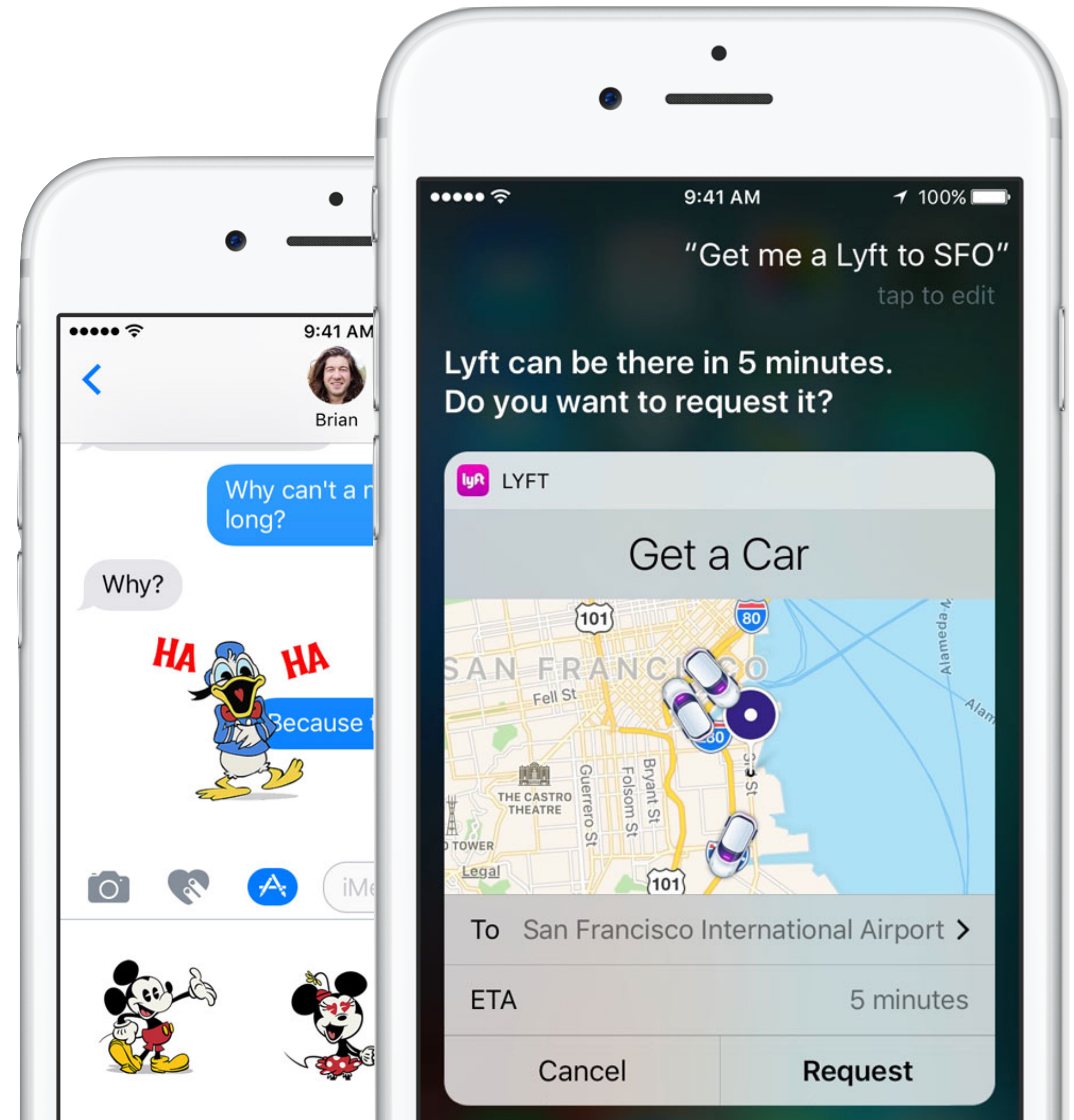
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- AI-enhanced Photos app: Memories, face recognition, organize by location & events
- Apple Pay on the web in Mobile Safari



iOS 10



iOS 10

- Free download this fall



iOS 10

- Free download this fall
- Compatible with:



iOS 10

- Free download this fall
- Compatible with:
 - iPhone 5 and later



iOS 10

- Free download this fall
- Compatible with:
 - iPhone 5 and later
 - iPad mini 2 and later



iOS 10

- Free download this fall
- Compatible with:
 - iPhone 5 and later
 - iPad mini 2 and later
 - iPad 4 and later



iOS 10

- Free download this fall
- Compatible with:
 - iPhone 5 and later
 - iPad mini 2 and later
 - iPad 4 and later
 - iPod touch 6th-gen



iOS 10

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- Public beta opens soon at beta.apple.com



Top 5: watchOS 3



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- Instant app launch, with updated info / navigation



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- Apple Pay integration within apps & unlock your Mac



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- Scribble notes & messages directly on-screen with handwriting recognition



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- Apple Pay integration within apps & unlock your Mac
- Share & compare Activity Rings with friends with Activity Sharing
- Scribble notes & messages directly on-screen with handwriting recognition
- SOS app for emergencies



watchOS 3



watchOS 3

- Free update this fall



watchOS 3

- Free update this fall
- Apple Watch requires iPhone 5 or later running iOS 8.2 or later

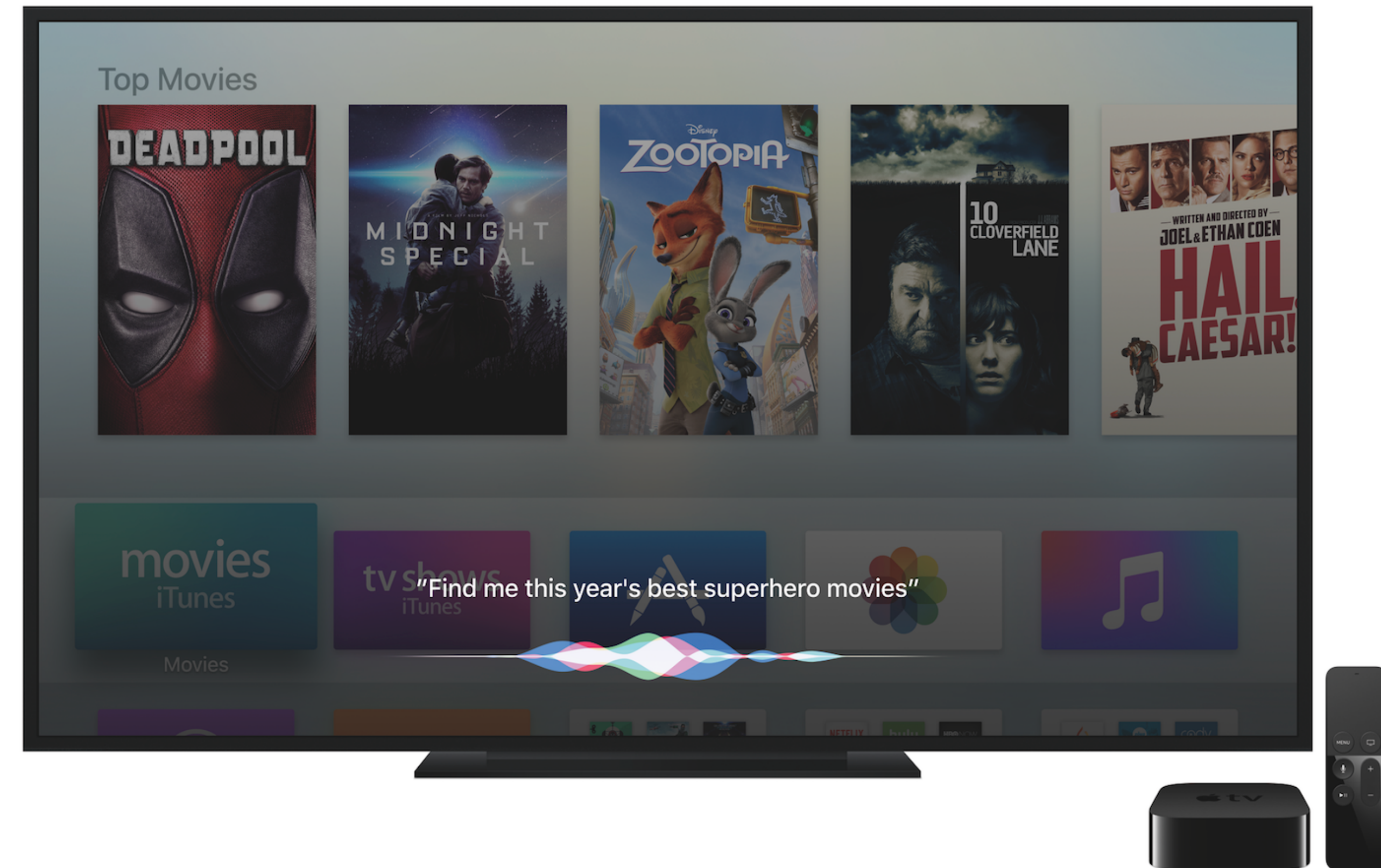


Top 5: Apple TV



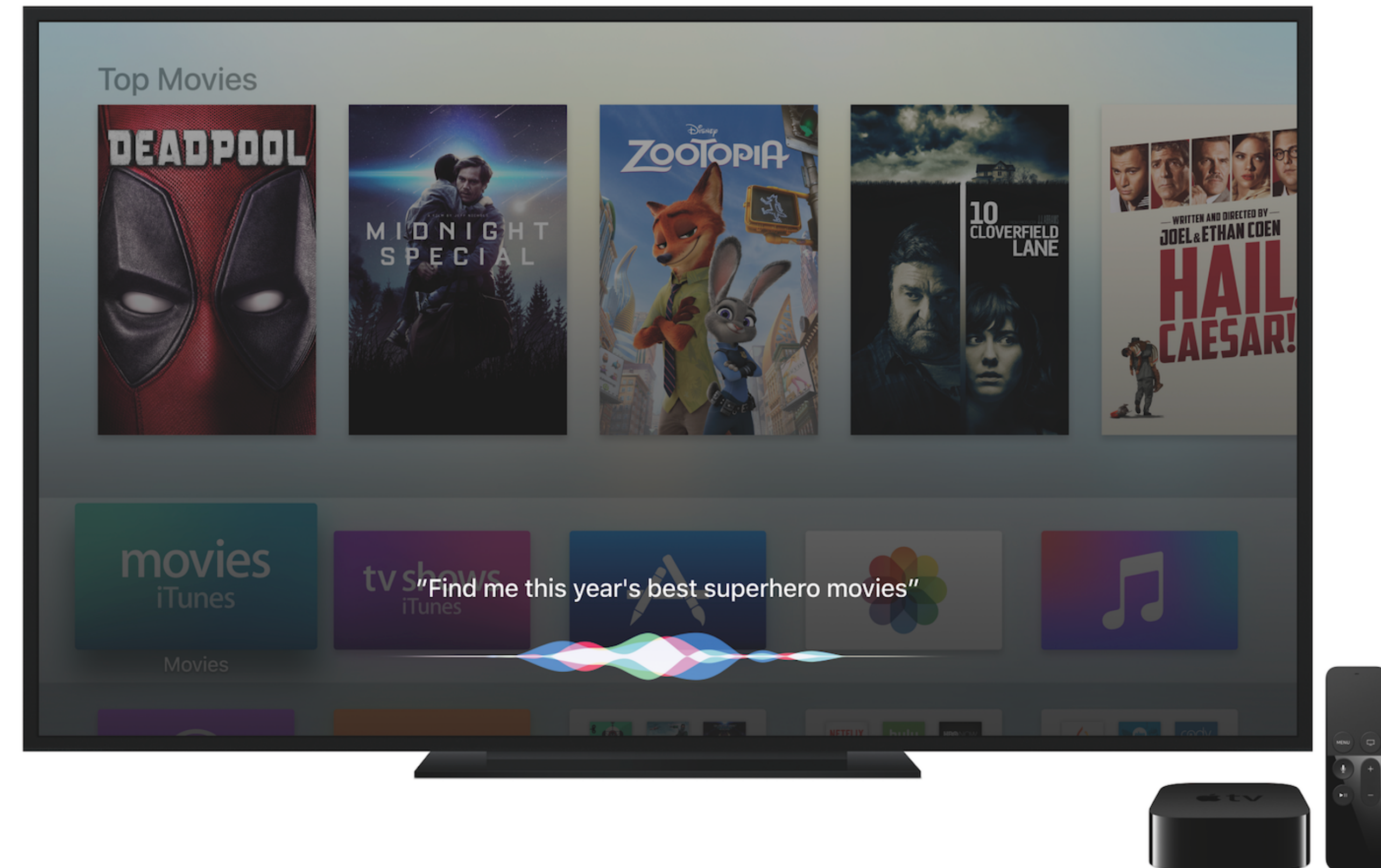
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- Single Sign-in: enter your TV provider credentials once, see and be signed in on all applicable apps



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- Live tune-in: jump directly to live stream in many popular streaming apps
- Single Sign-in: enter your TV provider credentials once, see and be signed in on all applicable apps
- All-new Photos & Music app
- On-screen keyboard appears on nearby iOS devices on same iCloud account

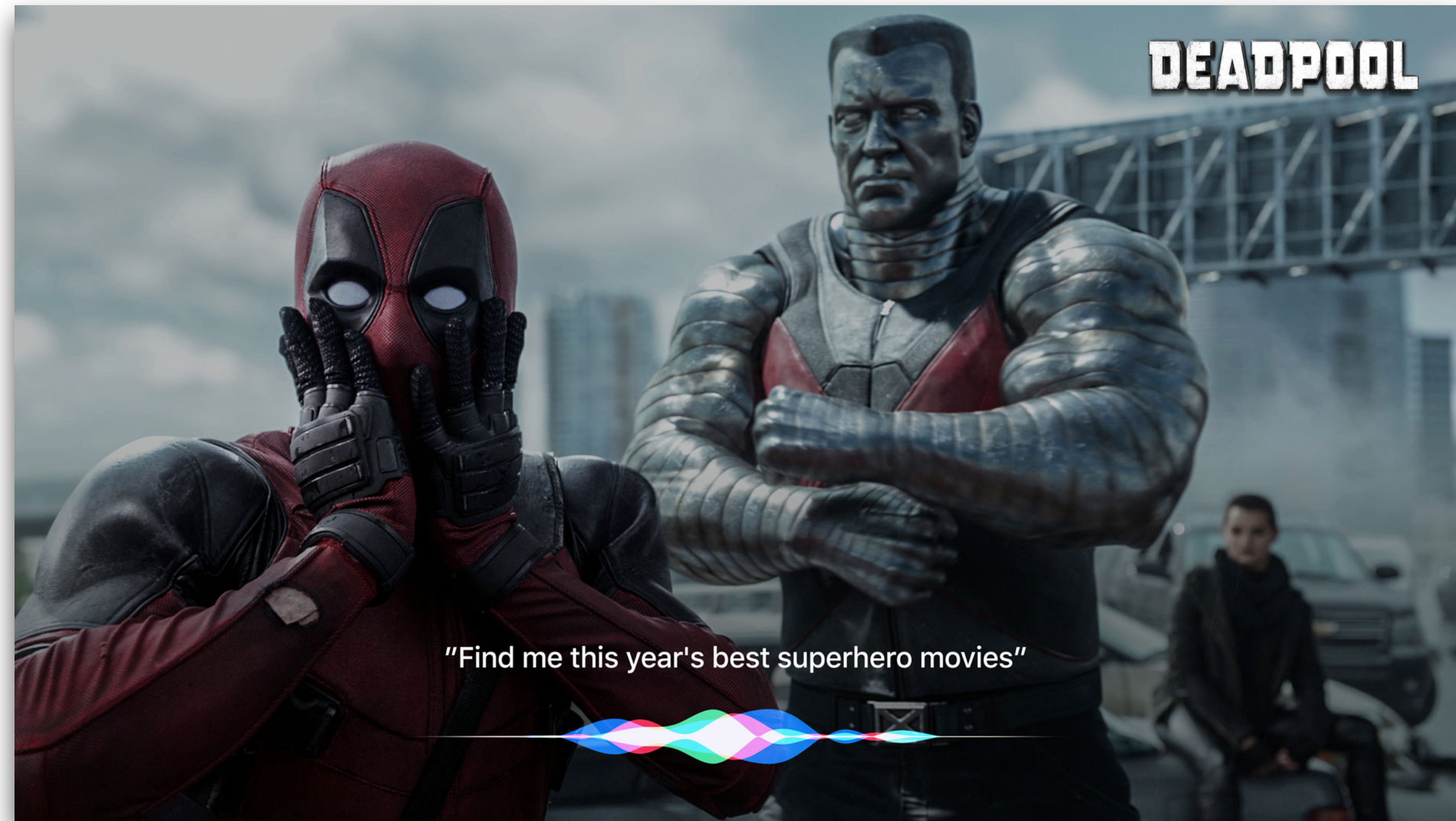


Apple TV



Apple TV

- Free update this fall



Apple TV

- Free update this fall
- YouTube search integration coming this month



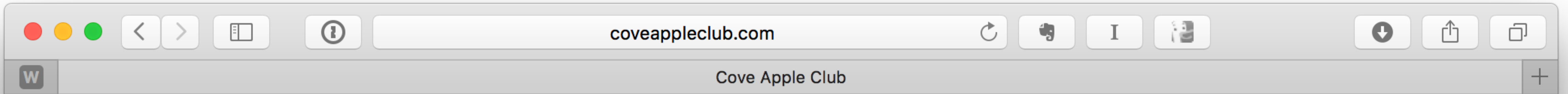
Apple TV

- Free update this fall
- YouTube search integration coming this month
- Requires Apple TV 4th-generation



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COVE APPLE CLUB

Have fun & do more with your Apple gear!

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SHARE. LEARN. LAUGH!

Join **over 100 Cypress Cove residents and members** in the Cove Apple Club, and you'll learn more and get a lot more fun and productivity out of all your Apple gear!

We meet twice a month, year-round. Check our [upcoming meeting schedule](#) and plan to join us at our next meeting!

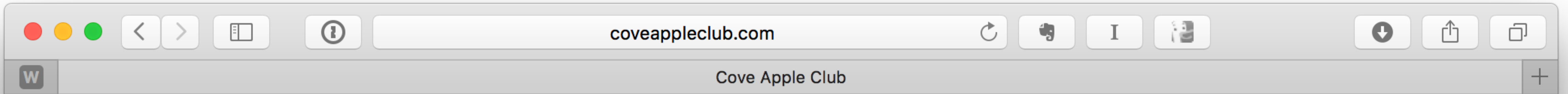
If you're new to the world of Apple, an old Machead from years back, or even a frustrated Windows user, you will find something interesting and entertaining at each of our meetings. Our meetings are fun and informative, with topics presented covering the range from beginner to advanced.

Our focus is on Apple products, but we often also look at other new technologies not specific to the Apple platform, ranging from computer security to Internet telephony to changes in the industry to neat new tech gadgets of interest to everyone.

All Apple products are fair game at our meetings: iPad, iPhone, iPod and Macs of all sizes, as well as the huge world of Apple software, hardware and accessories.

Find out more about the club, our meeting schedule and how you can get in on the fun. Click the links below for details, and be sure to join our [email list](#) for all the latest updates.





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SUPPORT THE COVE APPLE CLUB WHEN YOU SHOP AT AMAZON.COM

The next time you need some new Apple or other tech gear (or anything else from the 20,000,000 items in stock!), start your online shopping session with our link to Amazon.com. Your purchase will earn a little money for the Cove Apple Club, which we save up all year for a big Holiday Party for all members of the club! We update club members on the earnings every month.

So be sure to click the Amazon logo below when you need to shop for Mac products online...and “give back” to the Cove Apple Club -- without costing you an extra cent! Thanks!

THREE EASY WAYS TO USE THE AMAZON SHOPPING LINK

1. Just click here — you'll be sent to the Amazon.com homepage.
 1. Once you arrive at the Amazon homepage, BOOKMARK that page:
 1. In Safari on Mac, type Cmd-D
 2. In Safari on iOS, tap the Share widget, then tap Add to Favorites or Add Bookmark.
2. Drag this link to your Favorites bar in your Web browser. Then it's handy anytime you want to visit Amazon.
3. Just click the Amazon banner ad below.



2016 YTD

Jan 01 2016 - Jun 21 2016 / [This Year](#) ▾ Tracking ID: [All](#) ▾

Last Updated: 00:00 Jun 21 2016 PDT | [Return to Classic Reporting](#)

Summary

\$885.86

Fees

\$885.86

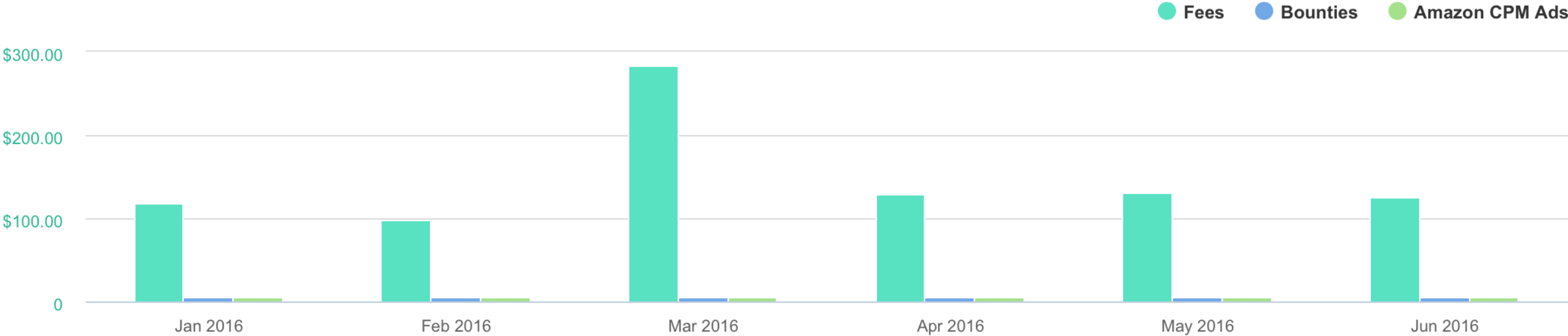
Bounties

\$0.00

Amazon CPM Ads

\$0.00

[Get Started with CPM Ads](#)



The History of Computing Revolutions: A Theoretical Premise

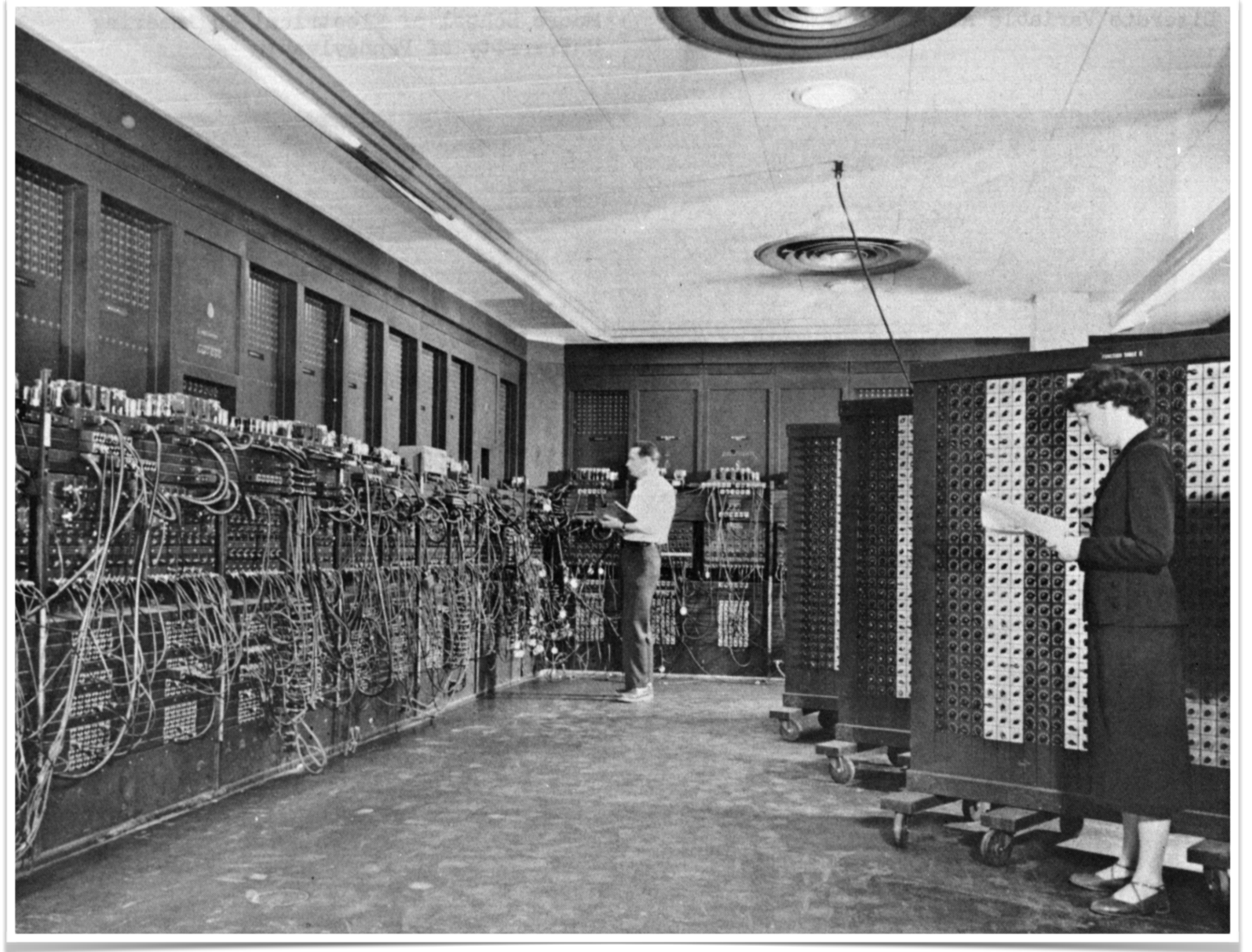
The History of Computing Revolutions: A Theoretical Premise

Each era / epoch / giant leap in the computer
age was ushered in by a new human-interface
breakthrough

1943

ENIAC: First digital
computer

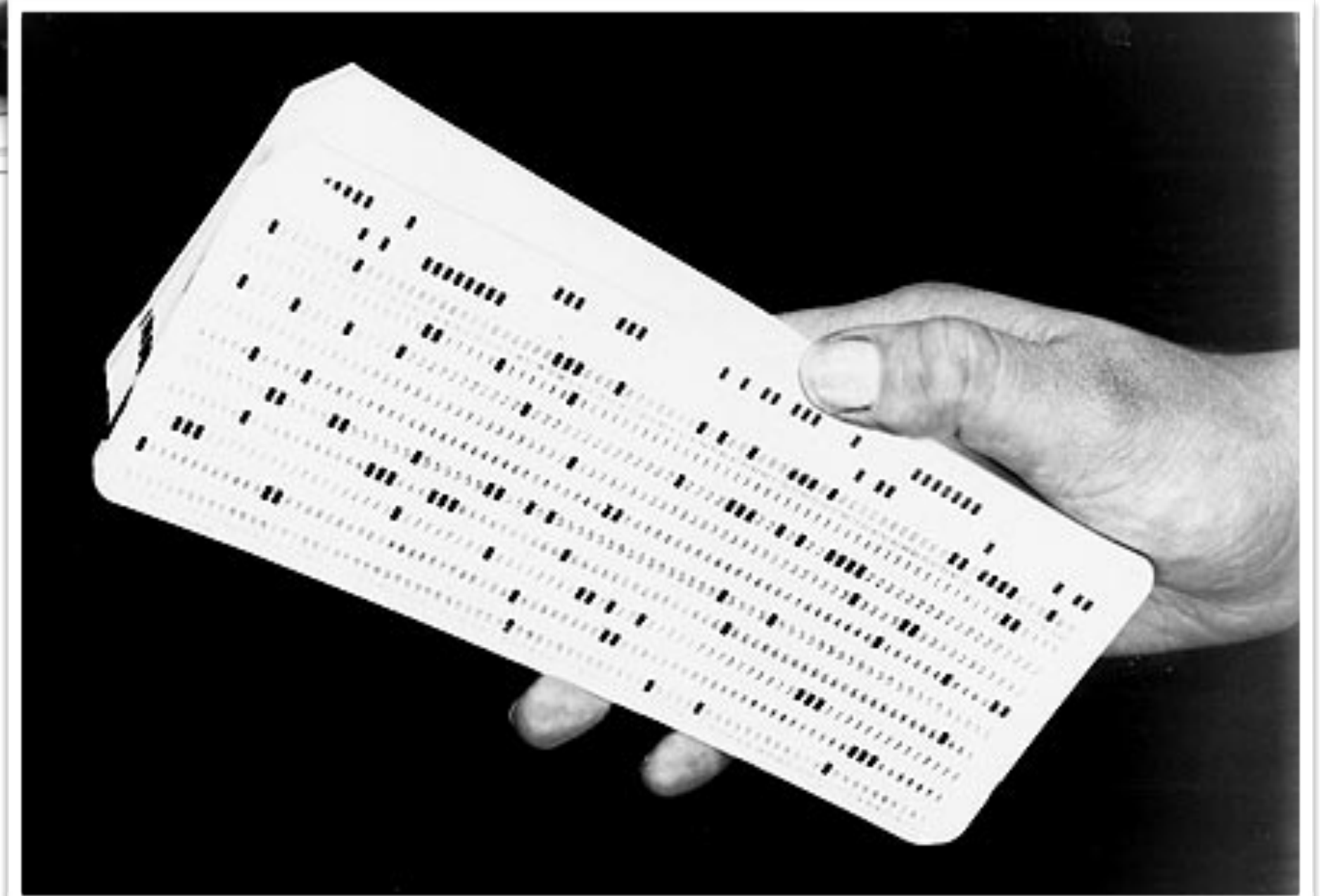
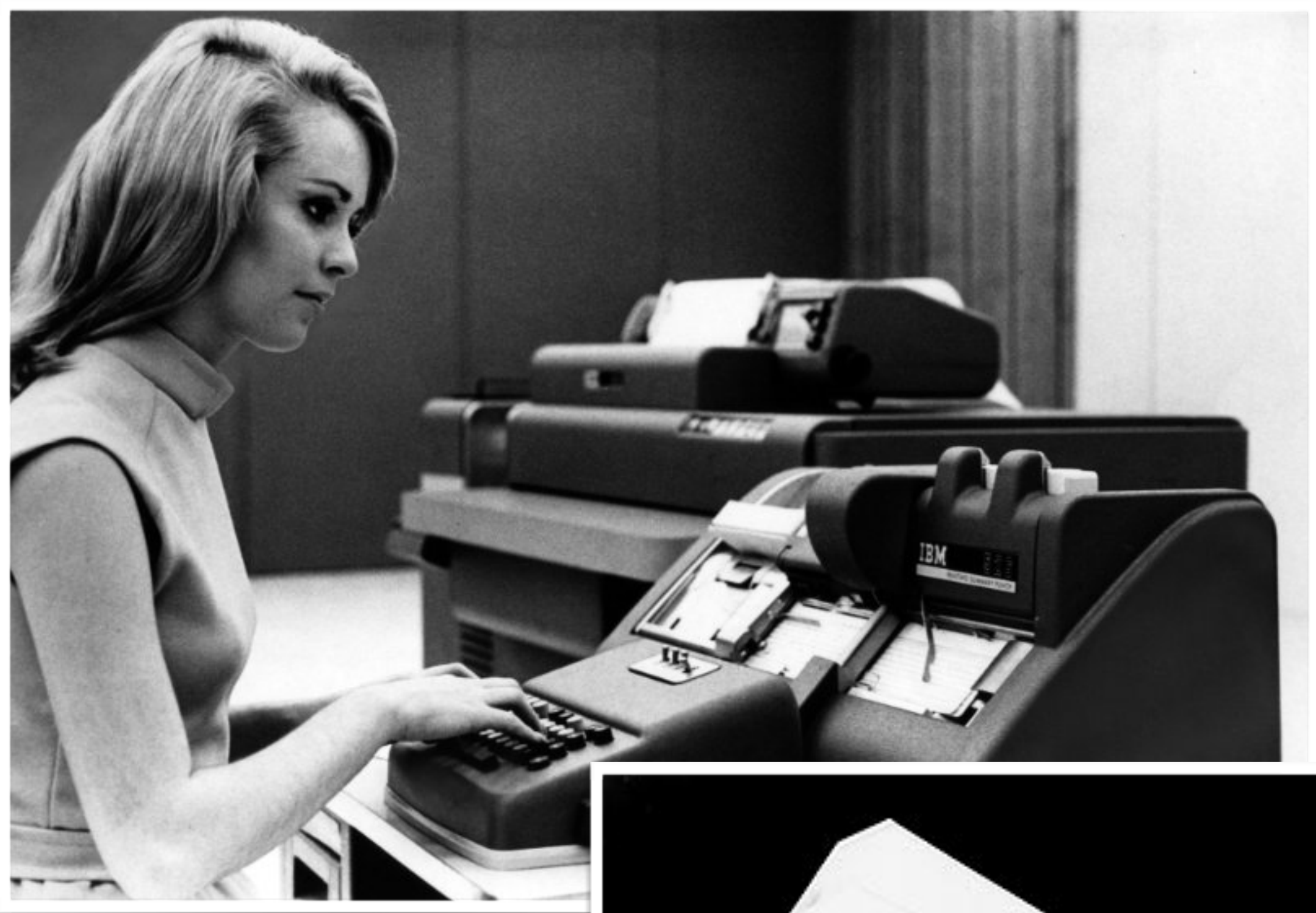
Interface: plugboards



1950-1970s

Automatic tabulating machines

Interface: punched cards



1970

Commercial mainframe
computers

Interface: online
terminals



1980s

Personal computers

Interface: video
consoles



mid-1980s

Graphical User Interface

Interface: mouse &
high-resolution display



2001

Portable Music Player

Interface: clickwheel



source: Apple

2007

Smartphone

Interface: touchscreen

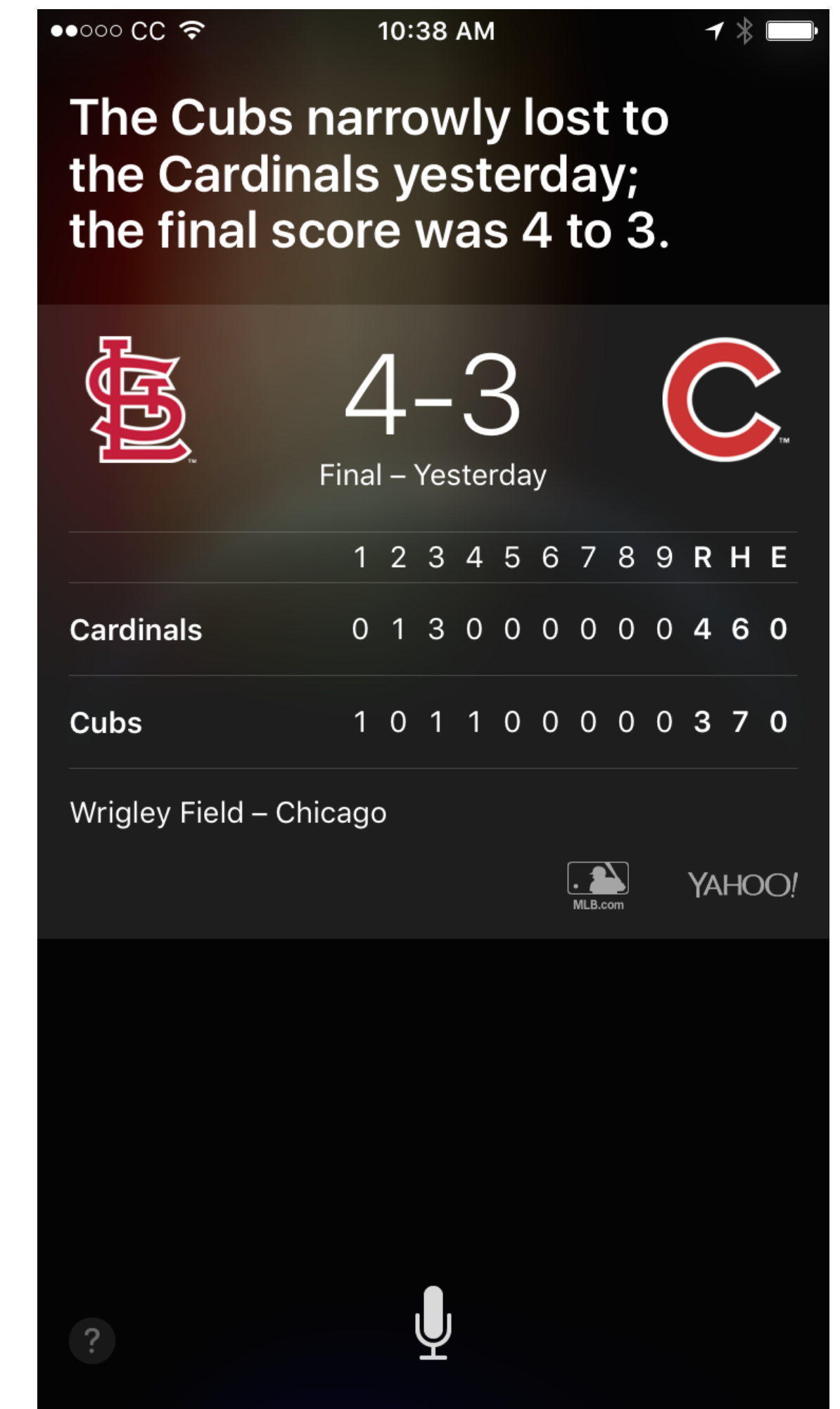


source: Apple

2011

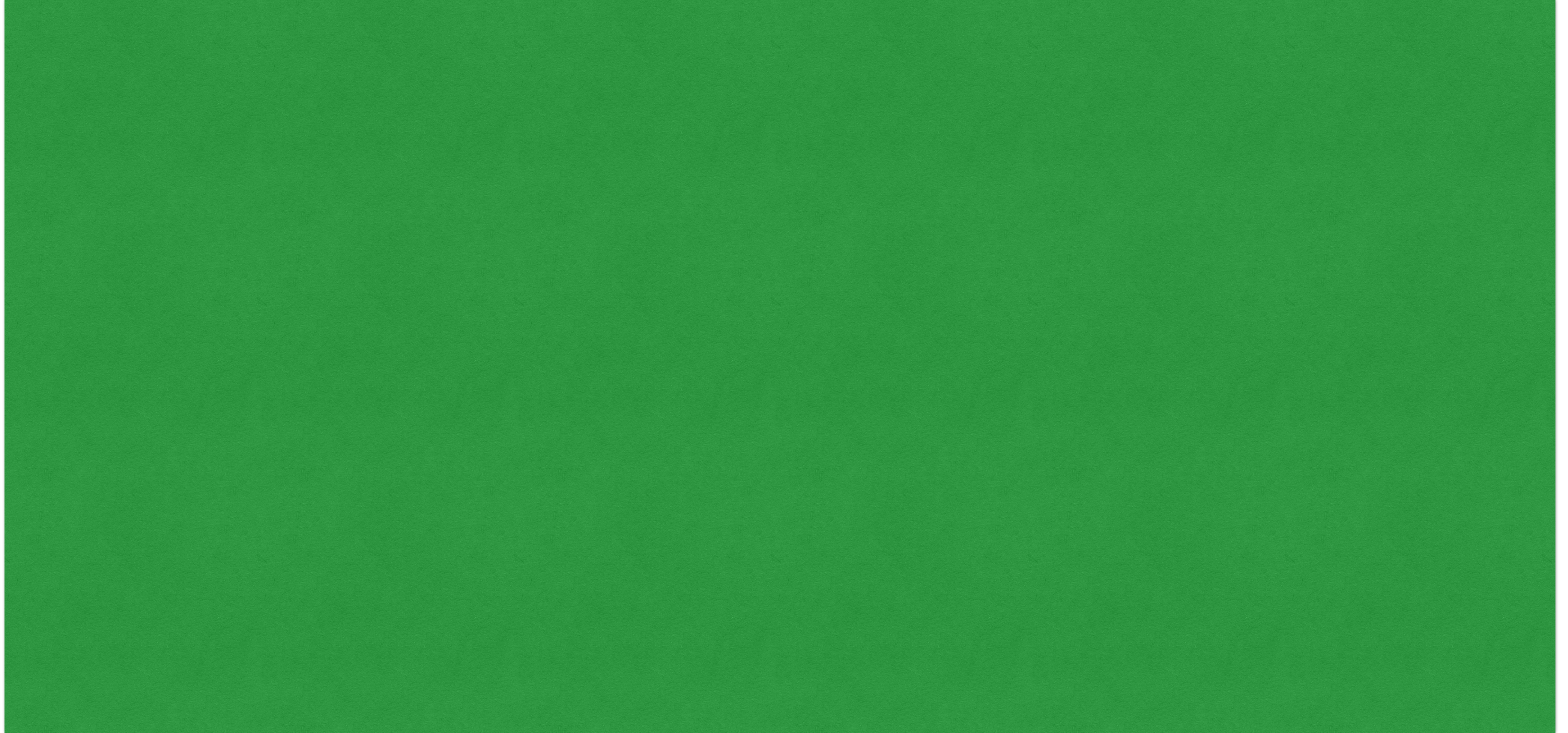
Siri Personal Assistant

Interface: Voice



source: Apple

What Makes Voice AI Possible



What Makes Voice AI Possible

A green chalkboard with a piece of paper pinned to it. The paper has the text "Supercomputing in your pocket" written on it.

Supercomputing
in your pocket

What Makes Voice AI Possible

Supercomputing
in your pocket

An always-on internet
connection

What Makes Voice AI Possible

Supercomputing
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Sensor-rich devices

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Billions of users

An always-on internet
connection

What Makes Voice AI Possible

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in your pocket

Location-awareness

Immense data
sampling sources

Sensor-rich devices

Cloud-based
supercomputing
infrastructure

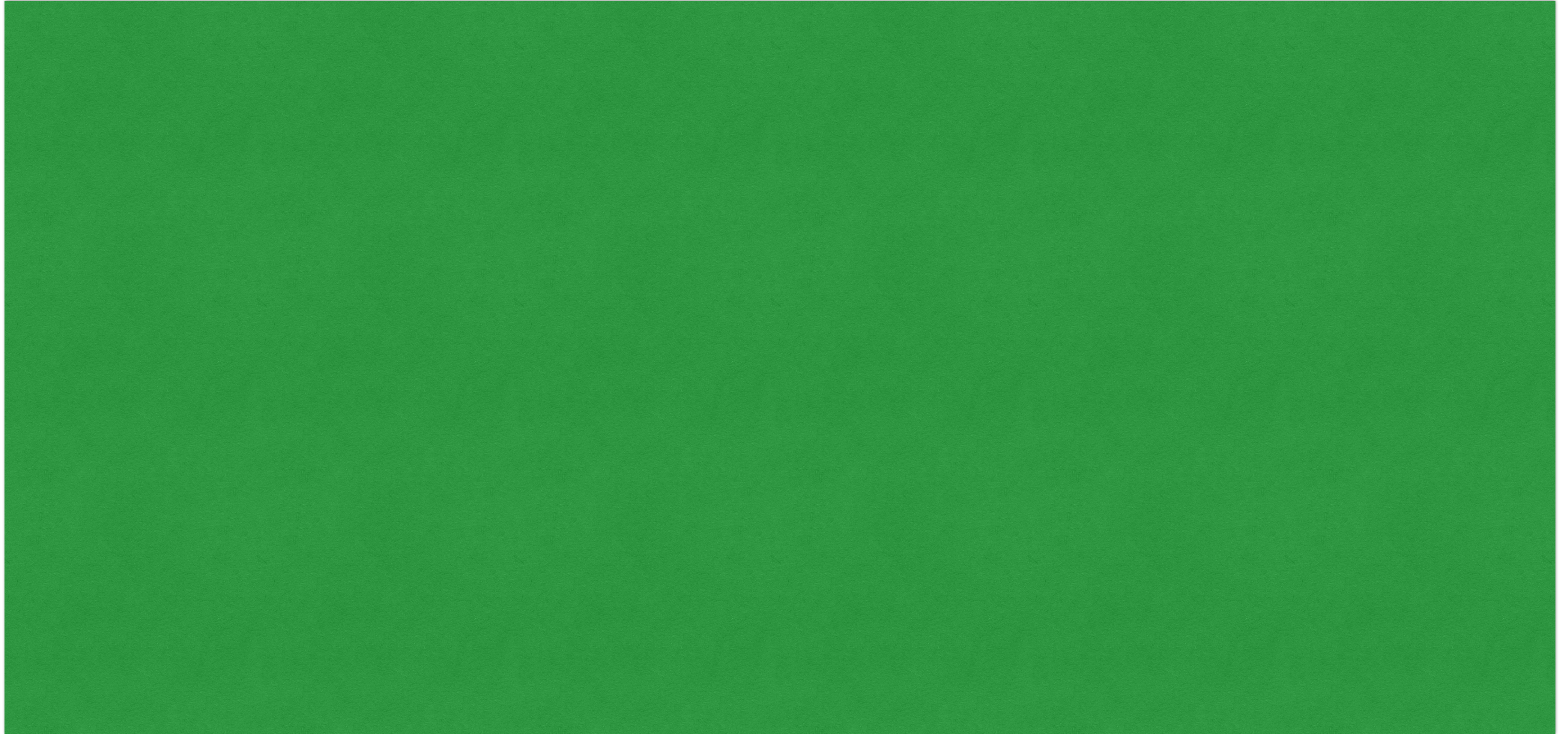
Billions of users

Incredibly
cheap compute
capacity

Advanced
machine
learning

An always-on internet
connection

Siri Architecture



Siri Architecture

Your iPhone, jammed with sensors, multi-gigaflop computing power and an always-on internet connection



Siri Architecture

Your iPhone, jammed with sensors, multi-gigaflop computing power and an always-on internet connection



4G cellular data network or broadband Wi-Fi connection



Siri Architecture

Your iPhone, jammed with sensors, multi-gigaflop computing power and an always-on internet connection



4G cellular data network or broadband Wi-Fi connection



Apple data center, backed by AWS, Wolfram Alpha, hundreds of other data sources



Siri Architecture

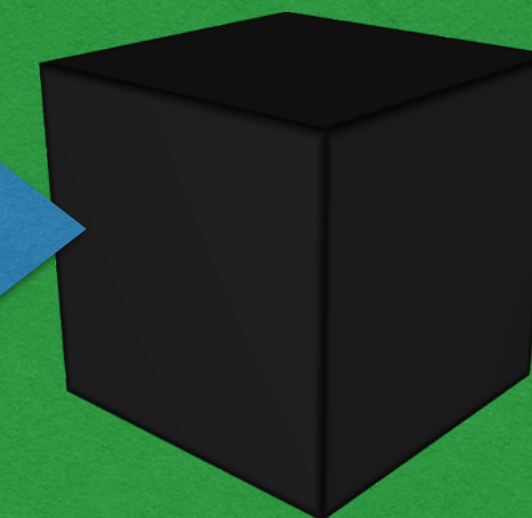
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Lots of very fancy computer stuff happens in a few hundredths of a second

Siri Architecture

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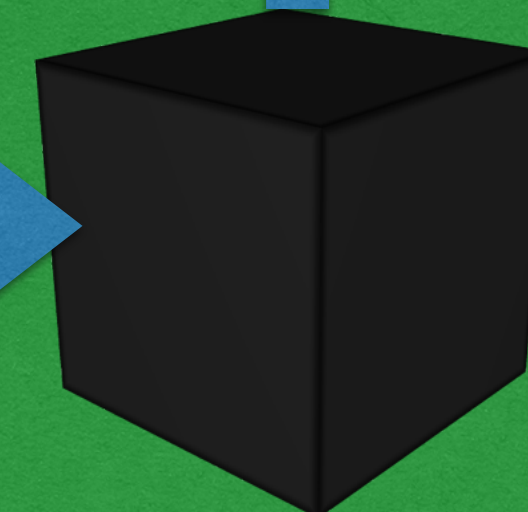
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Apple data center, backed by AWS, Wolfram Alpha, hundreds of other data sources



Billions of computations run across hundreds or thousands of servers, collecting and analyzing data to form your answer



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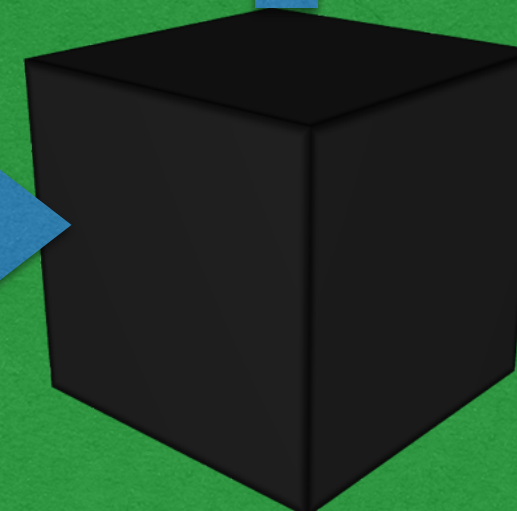
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Apple data center, backed by AWS, Wolfram Alpha, hundreds of other data sources



Billions of computations run across hundreds or thousands of servers, collecting and analyzing data to form your answer



Apple sends your answer back through the internet and it arrives on your iPhone in less than a second



Lots of very fancy computer stuff happens in a few hundredths of a second

Siri: Distributed AI

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- Sensors, location-awareness, contextual awareness, search history, app data, user profile, motion sensing, etc. all reside on the iPhone and help construct the Siri query

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Siri: Distributed AI

- Sensors, location-awareness, contextual awareness, search history, app data, user profile, motion sensing, etc. all reside on the iPhone and help construct the Siri query
- Siri app on iPhone also does a lot of voice analysis, compression, tokenization, etc., to save bandwidth and increase flight time and response time
- Cloud-based supercomputing uses on-device clues plus massive, instant access to internet and machine learning, to create the answer / action

Cloud AI

Cloud AI

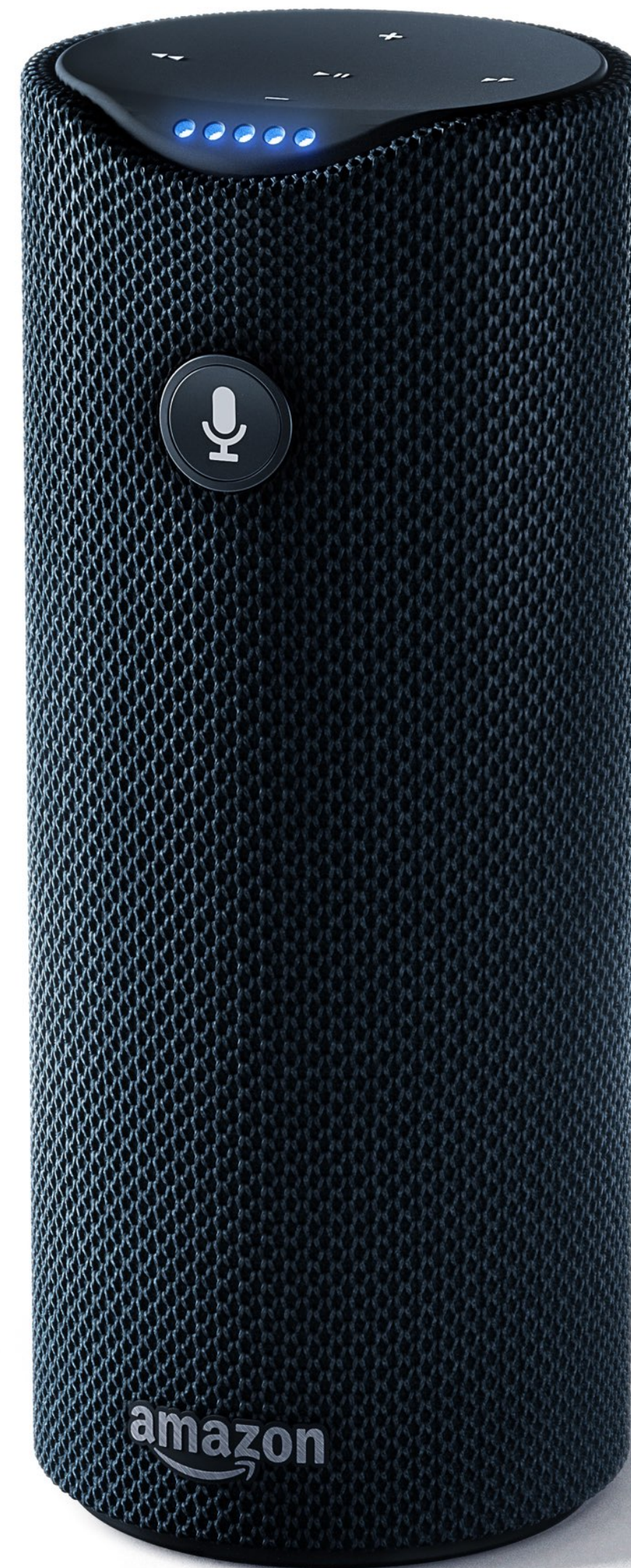
- If an always-on, high-speed internet connection is assumed, then how much of the on-device compute and sensor data can be eliminated/reduced?

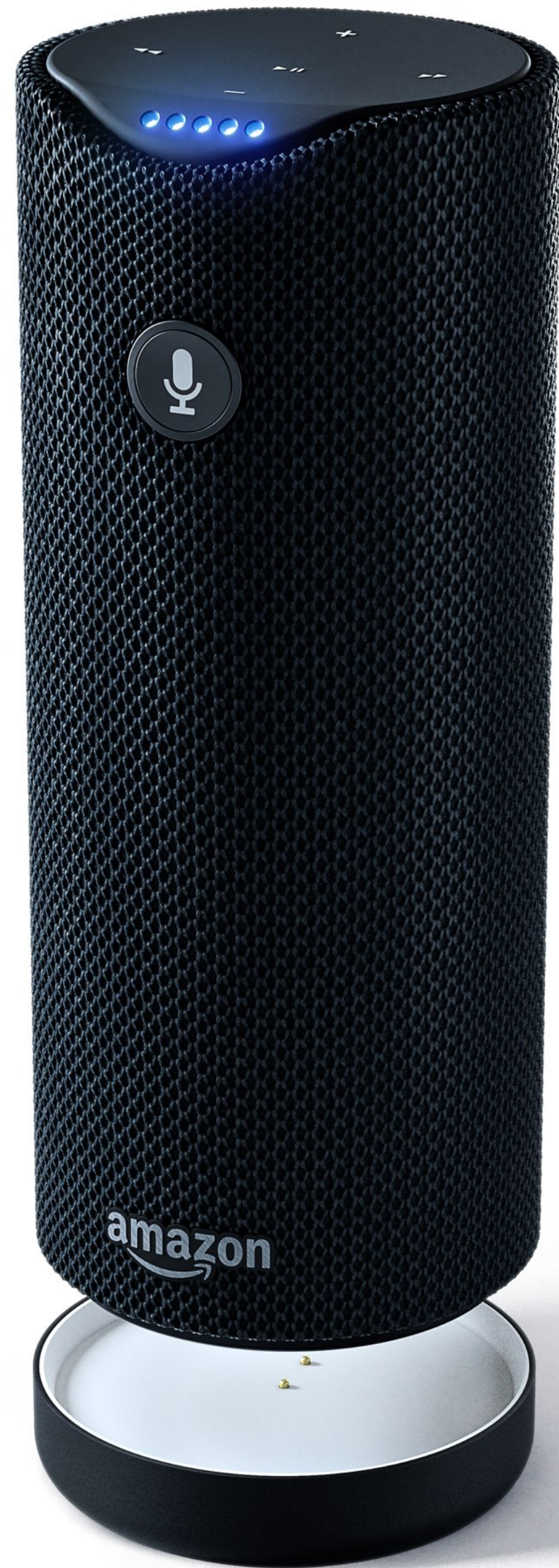
Cloud AI

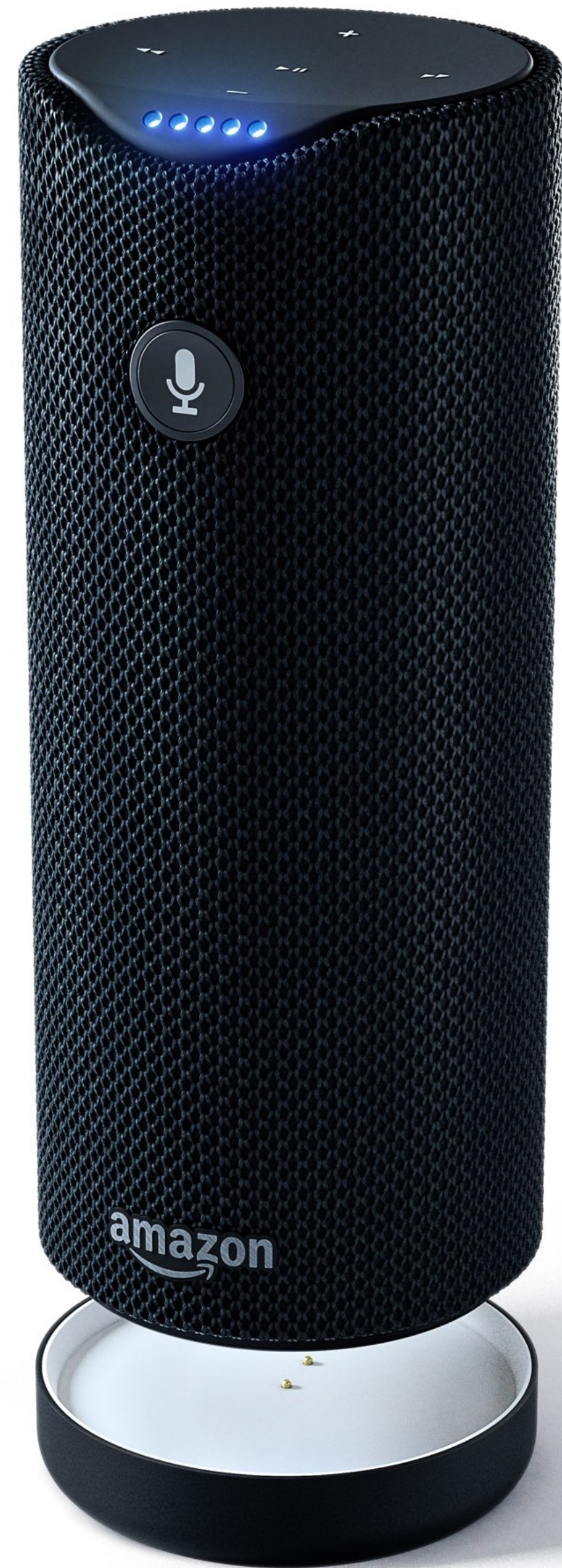
- If an always-on, high-speed internet connection is assumed, then how much of the on-device compute and sensor data can be eliminated/reduced?
- How about if the device was just a speaker, a microphone, a Wi-Fi connection, and a fast, cheap, low-powered CPU?

Cloud AI

- If an always-on, high-speed internet connection is assumed, then how much of the on-device compute and sensor data can be eliminated/reduced?
- How about if the device was just a speaker, a microphone, a Wi-Fi connection, and a fast, cheap, low-powered CPU?
- Could you make a \$100 version of Siri and cram it in a Bluetooth speaker?















SMALL. LOUD.
SMART.



TAP. TALK.
TUNES.



CRISP SOUND.

DOLBY POWERED



MADE TO
MOVE



SAFE &
SOUND



ALWAYS GETTING SMARTER

“Ask Domino’s for my Easy Order.”

“Ask Uber to request a ride.”

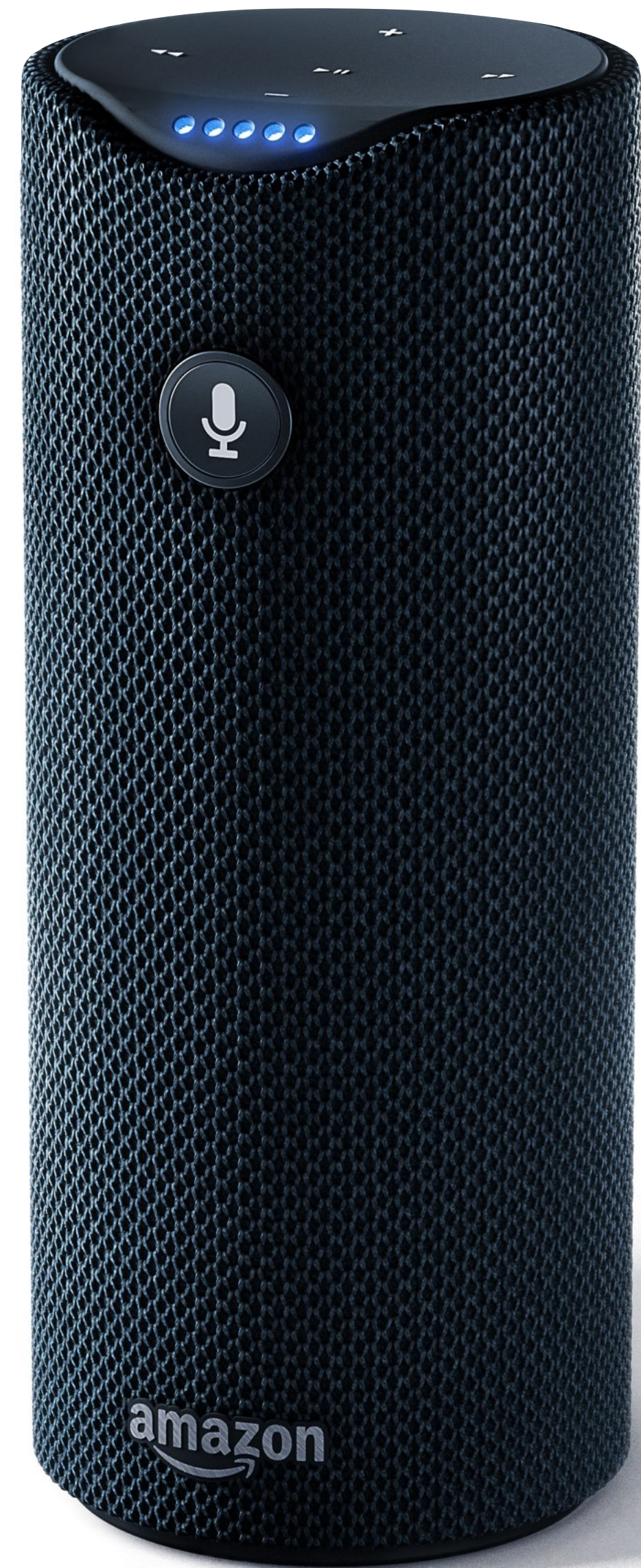
“What’s the weather in Los Angeles?”

“Ask HuffPost for headlines.”

“When do the Seattle Mariners play next?”

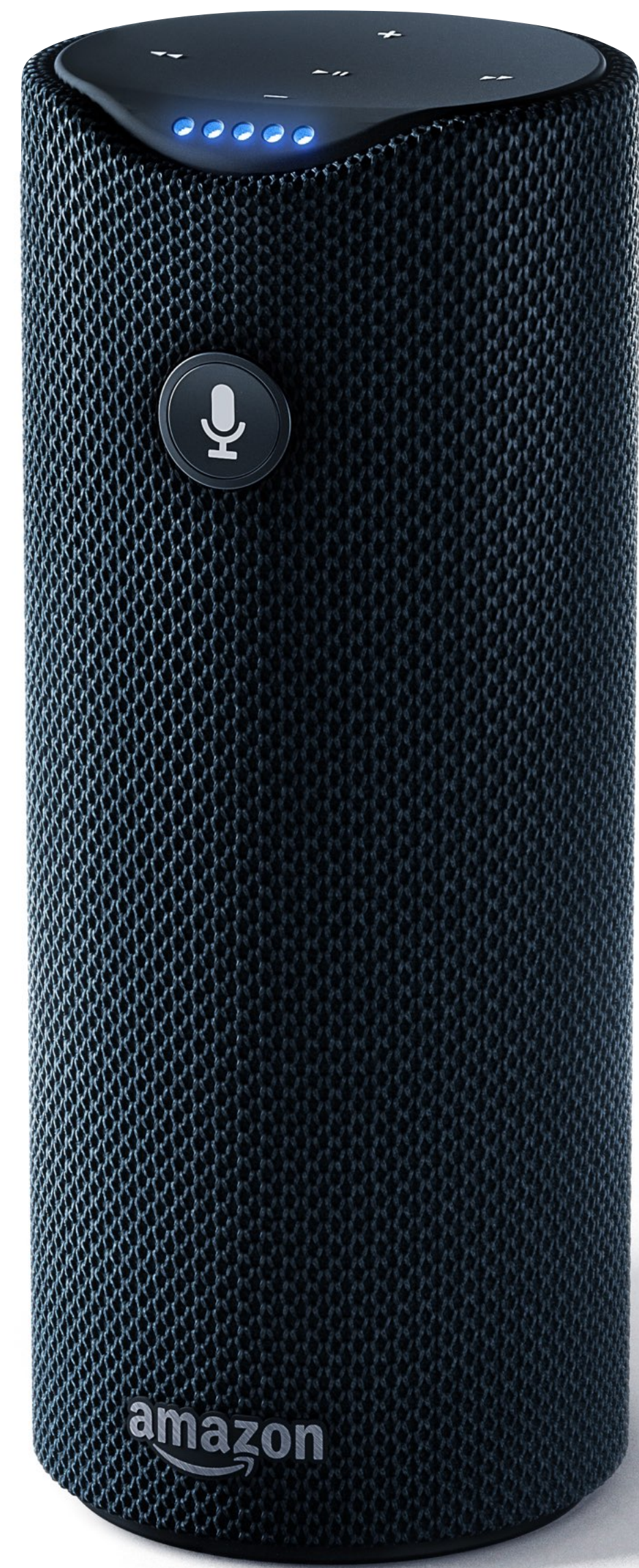
“Ask Automatic if I need gas.”

Amazon Tap



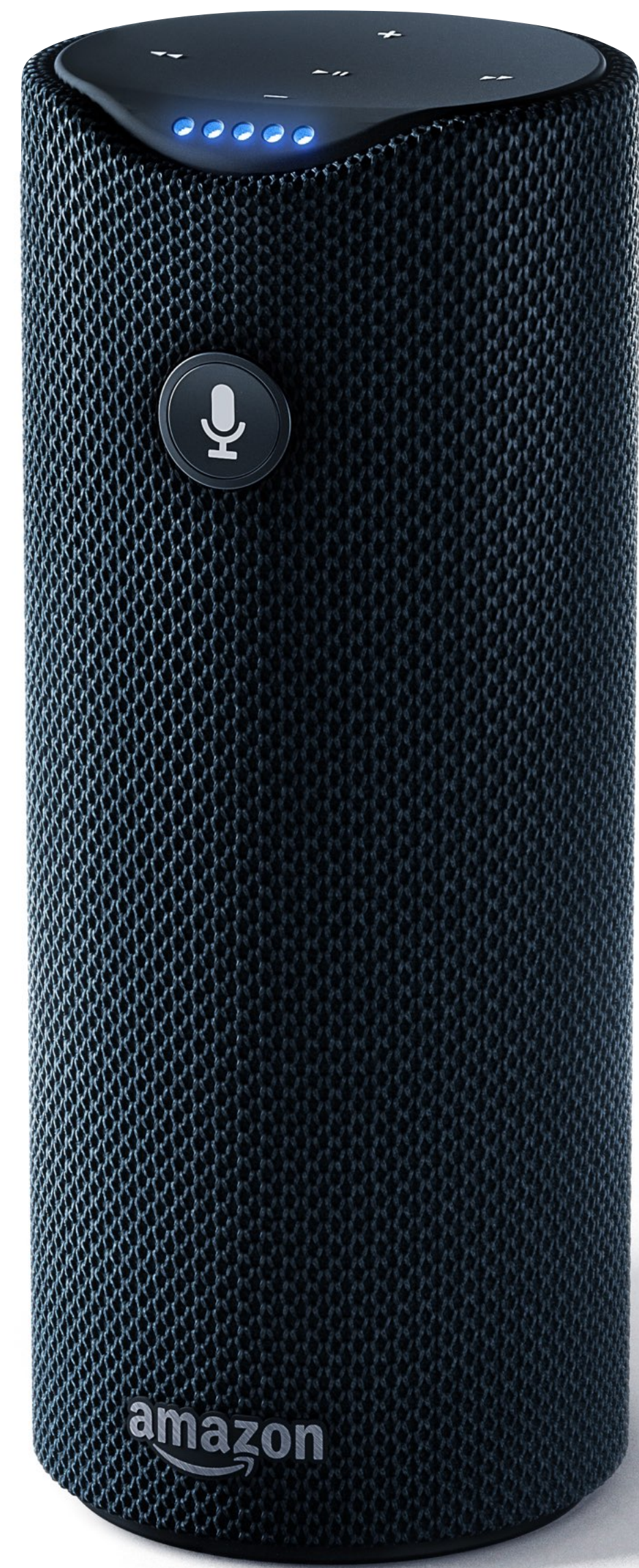
Amazon Tap

- Battery-powered portable speaker; 9-hour battery life



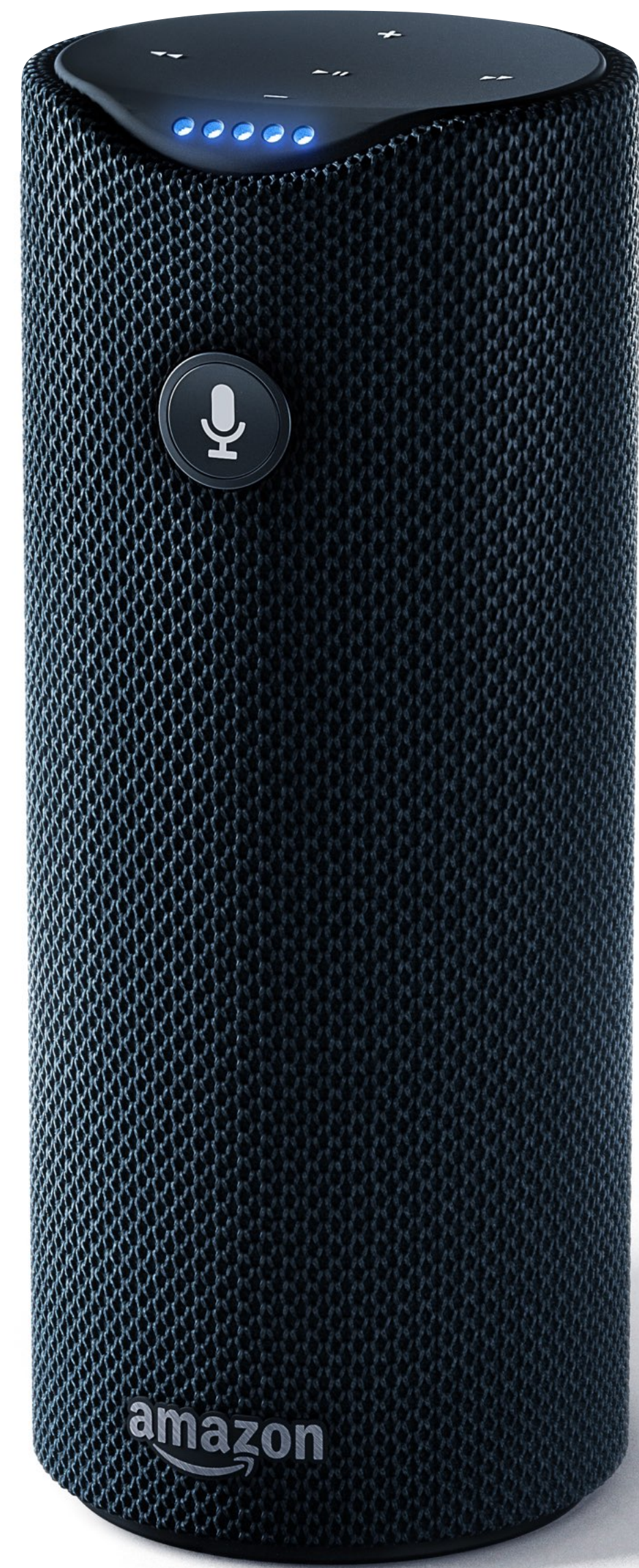
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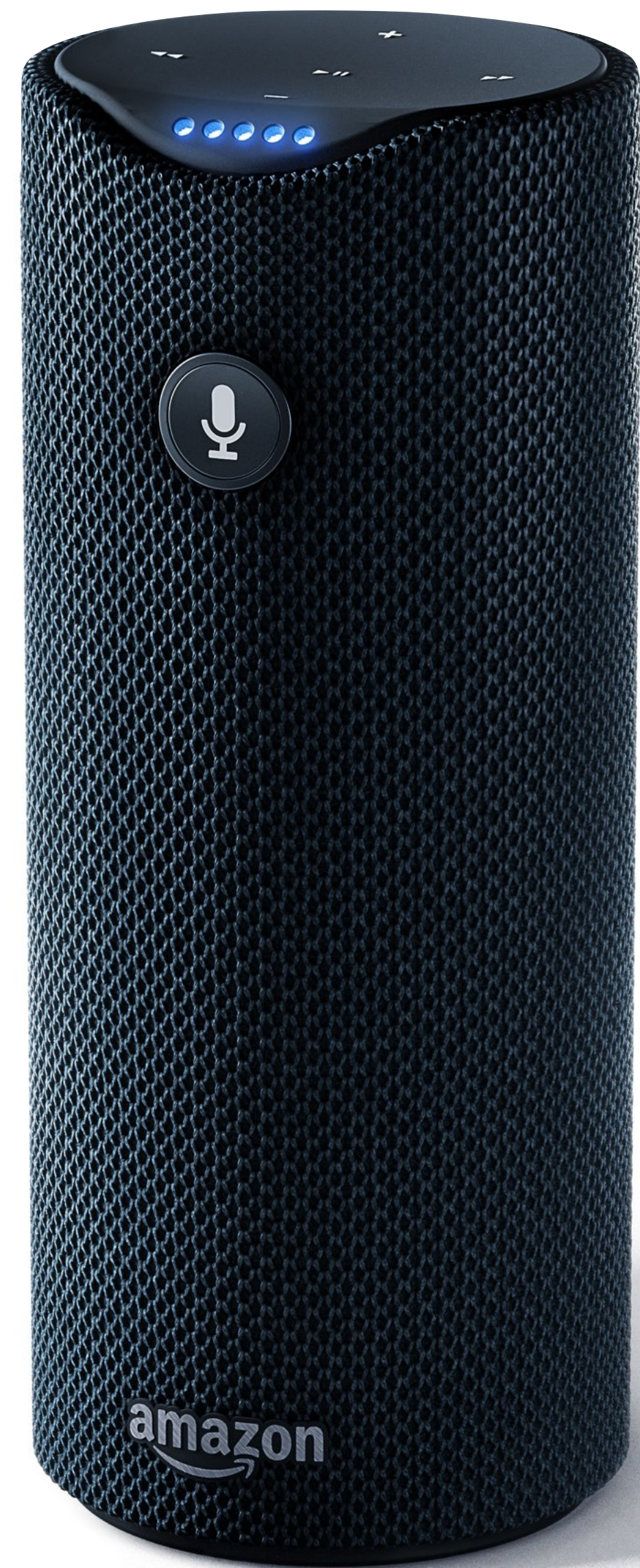
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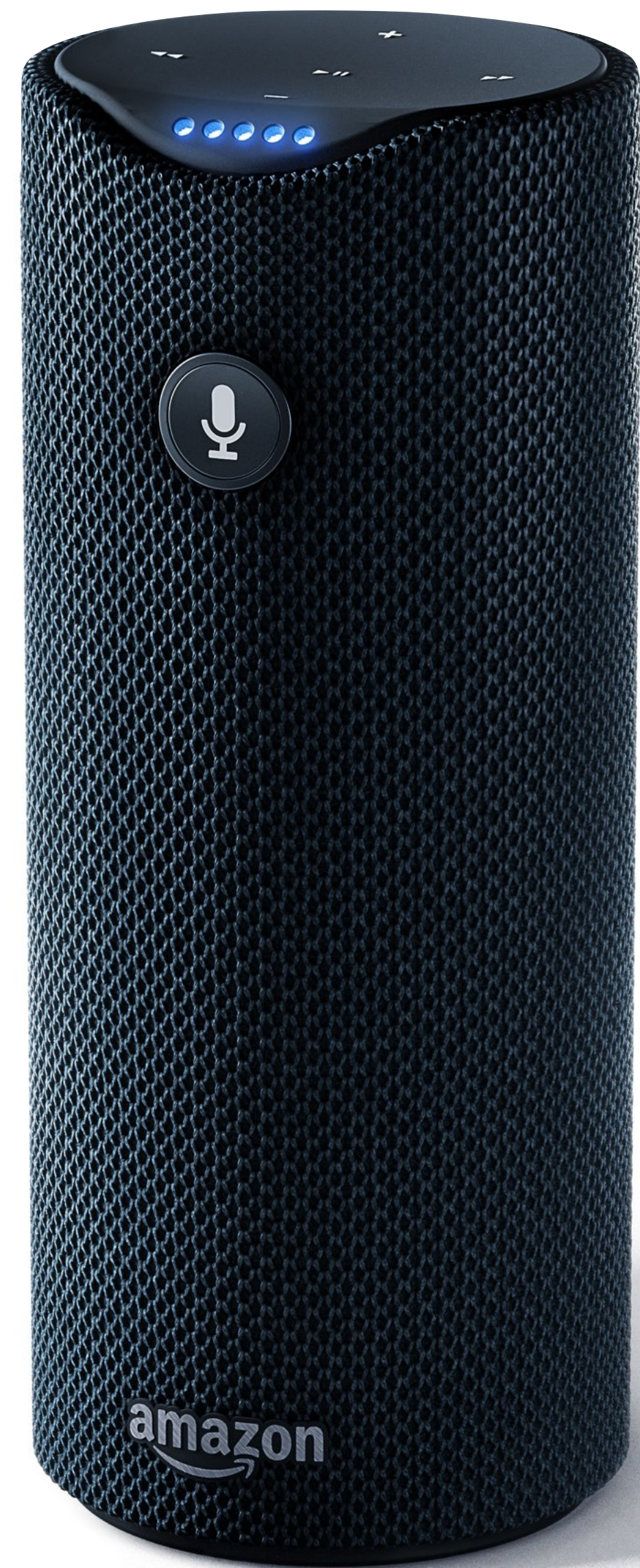
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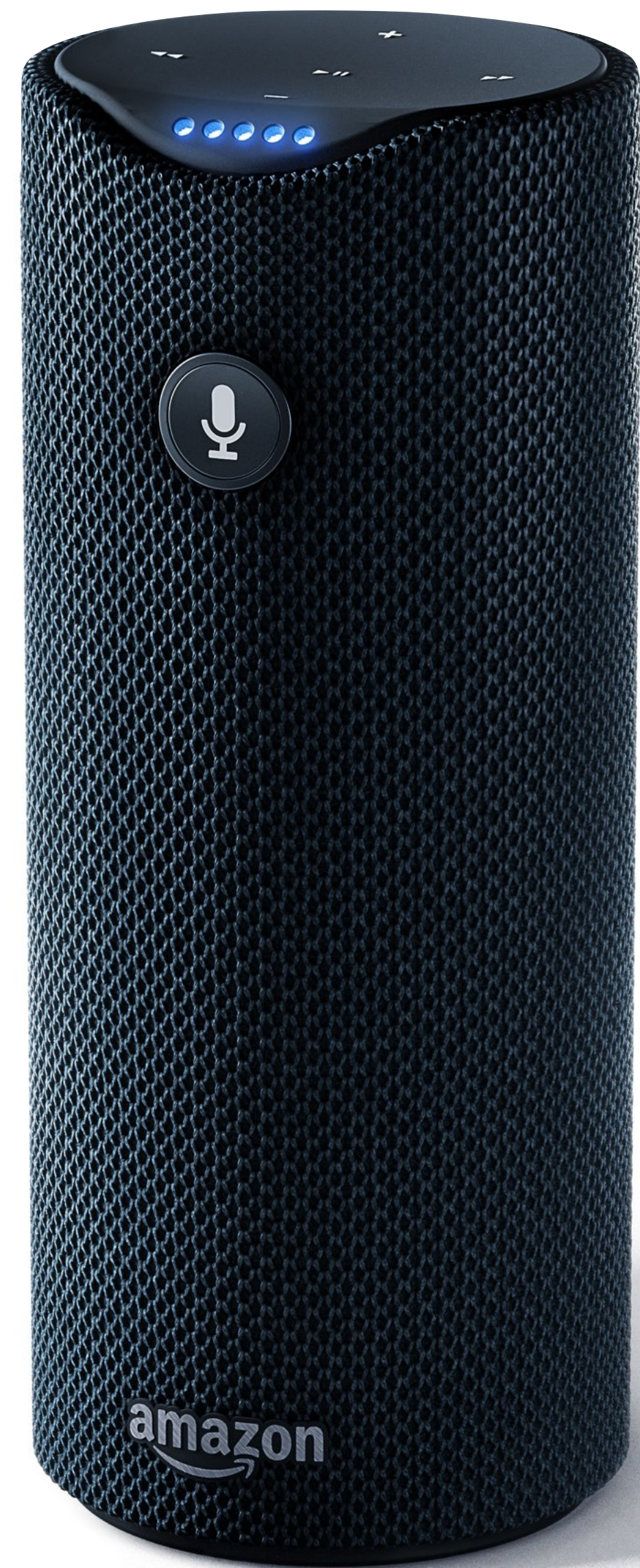
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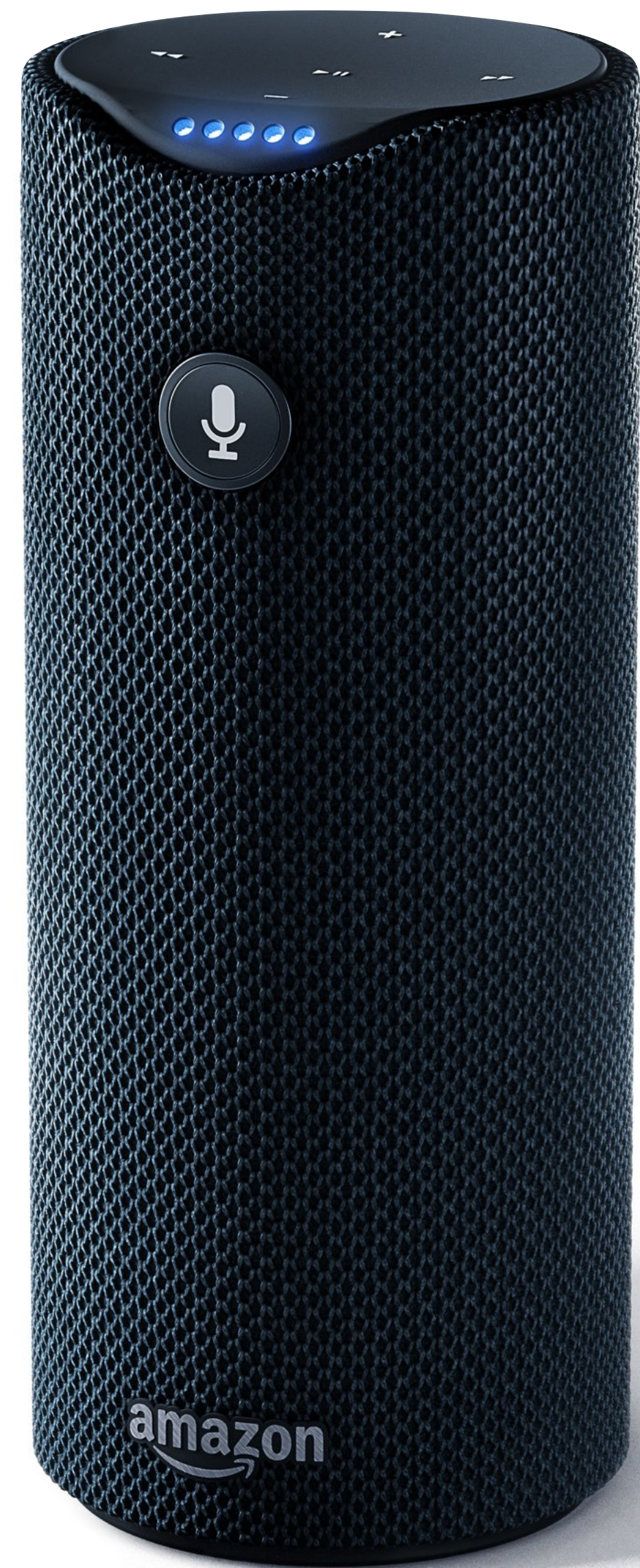
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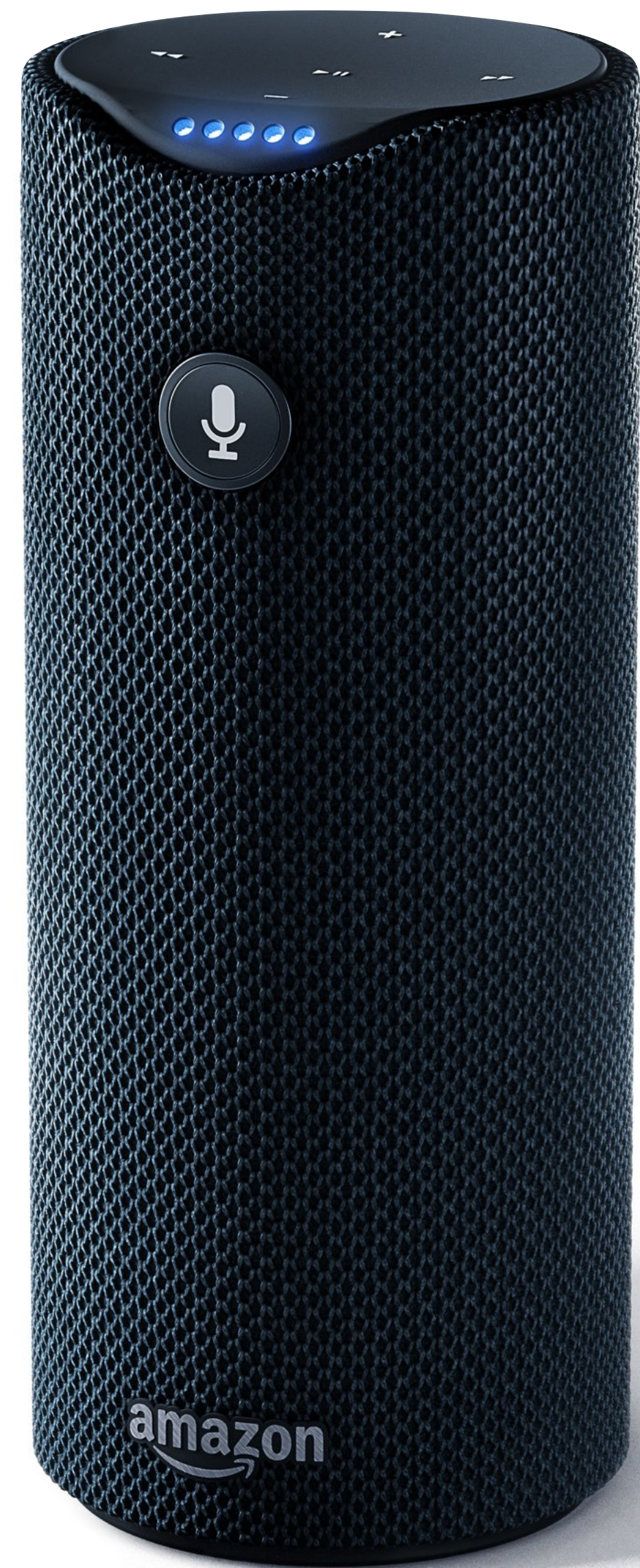
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- Also connects via Bluetooth or audio-in jack for use without Wi-Fi connection



Amazon Tap, Echo & Dot



Amazon Echo

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- The Echo is not battery-powered, but has always-on far-field microphone and is always listening
- Also available: Echo Dot (\$89) - no battery, but all other Echo features in a tiny coaster-sized “puck”



Amazon Echo

Simple to Set Up & Use



1. Turn on Amazon Tap



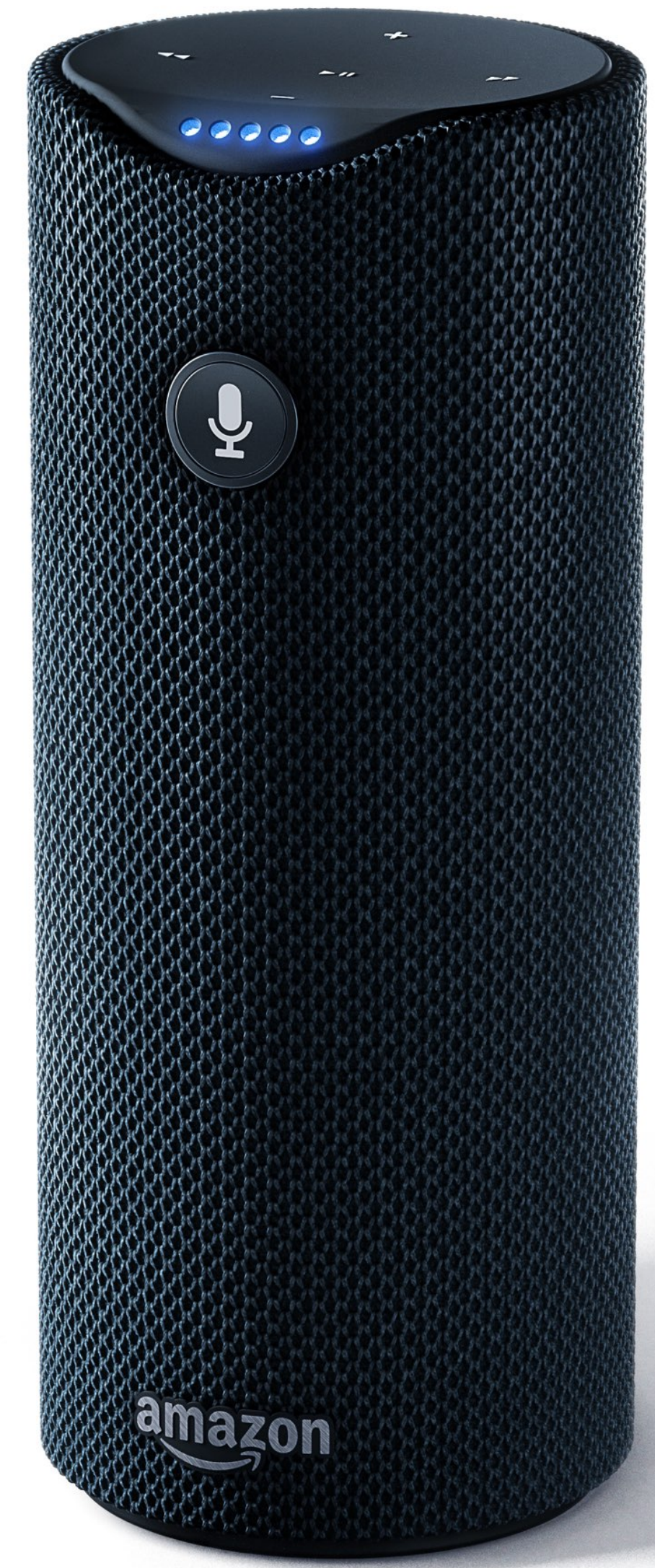
**2. Connect to internet with the
Alexa App (on mobile or web browser)**



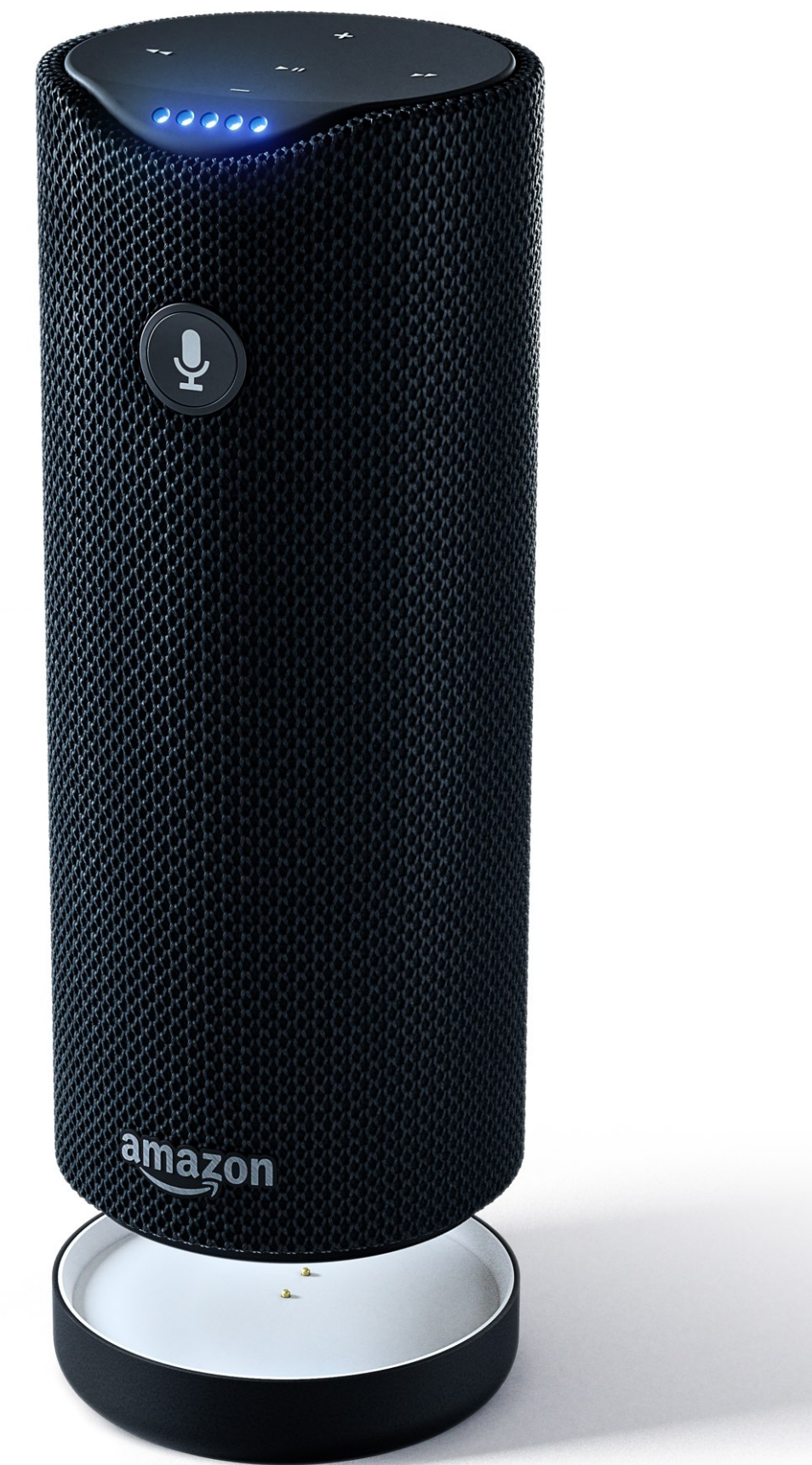
**3. Tap and ask for
music, weather, news, and more**

Amazon Tap can connect to your home Wi-Fi or a mobile hotspot. Alexa App is available for Android, iOS, and Fire devices.

Demo!

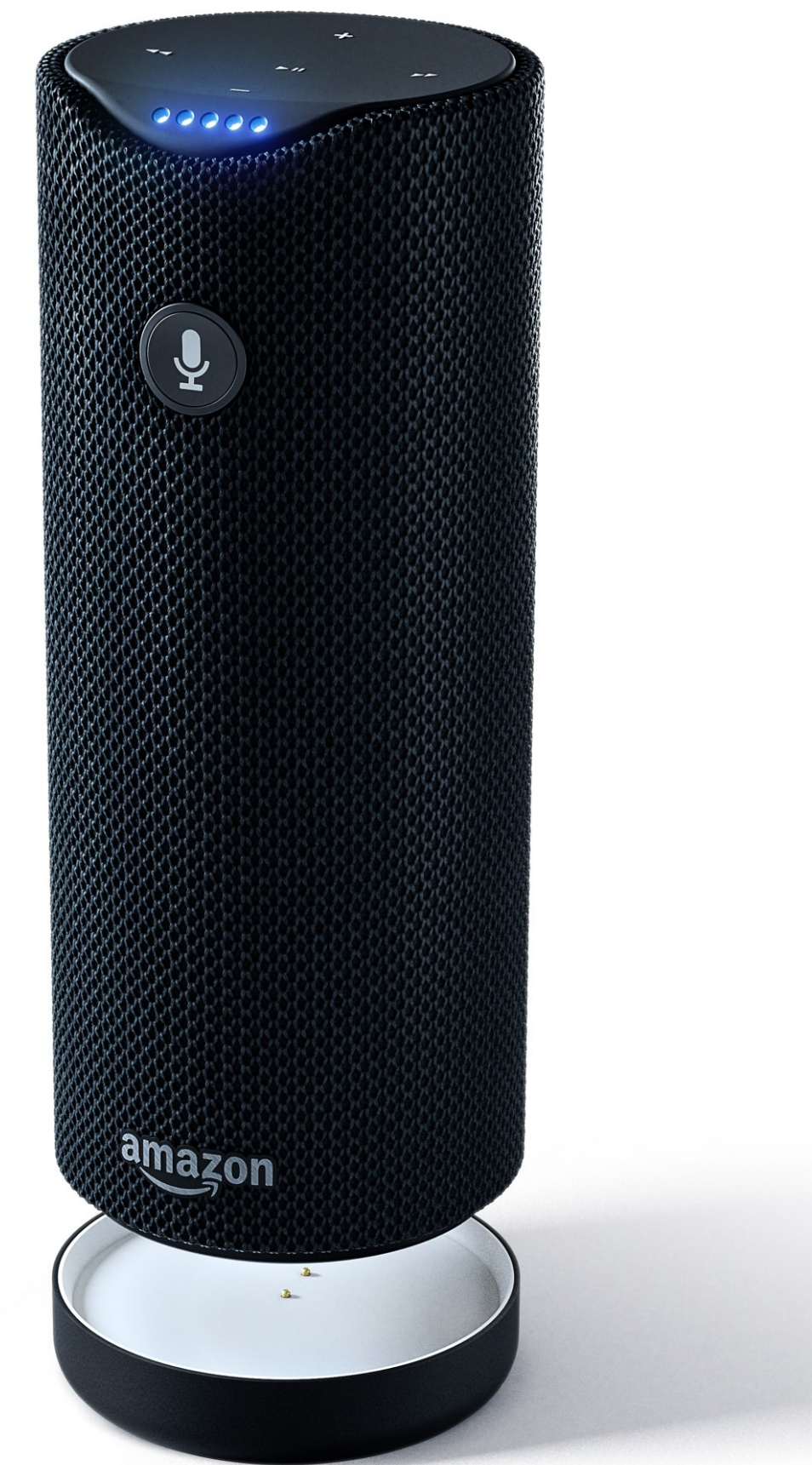


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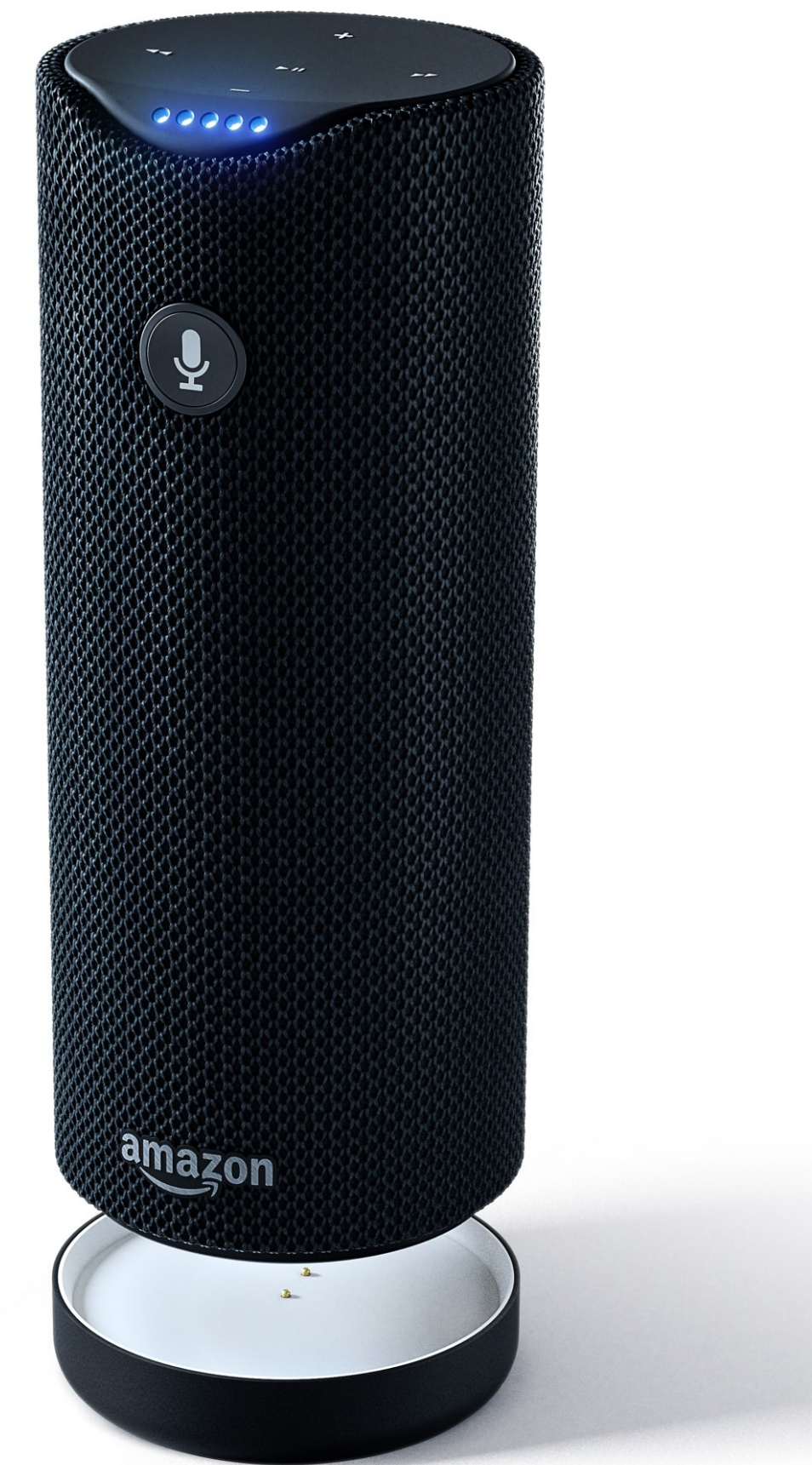
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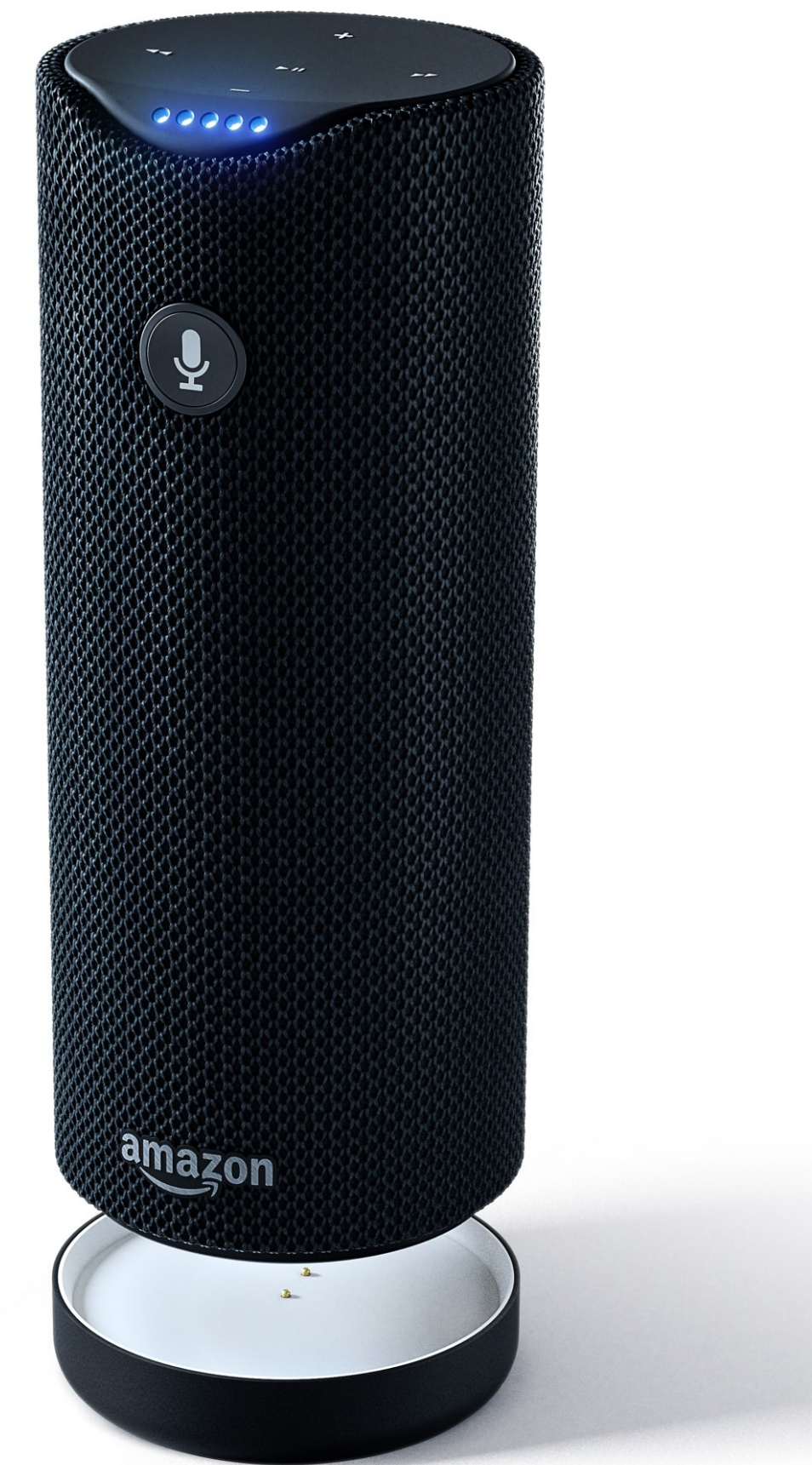
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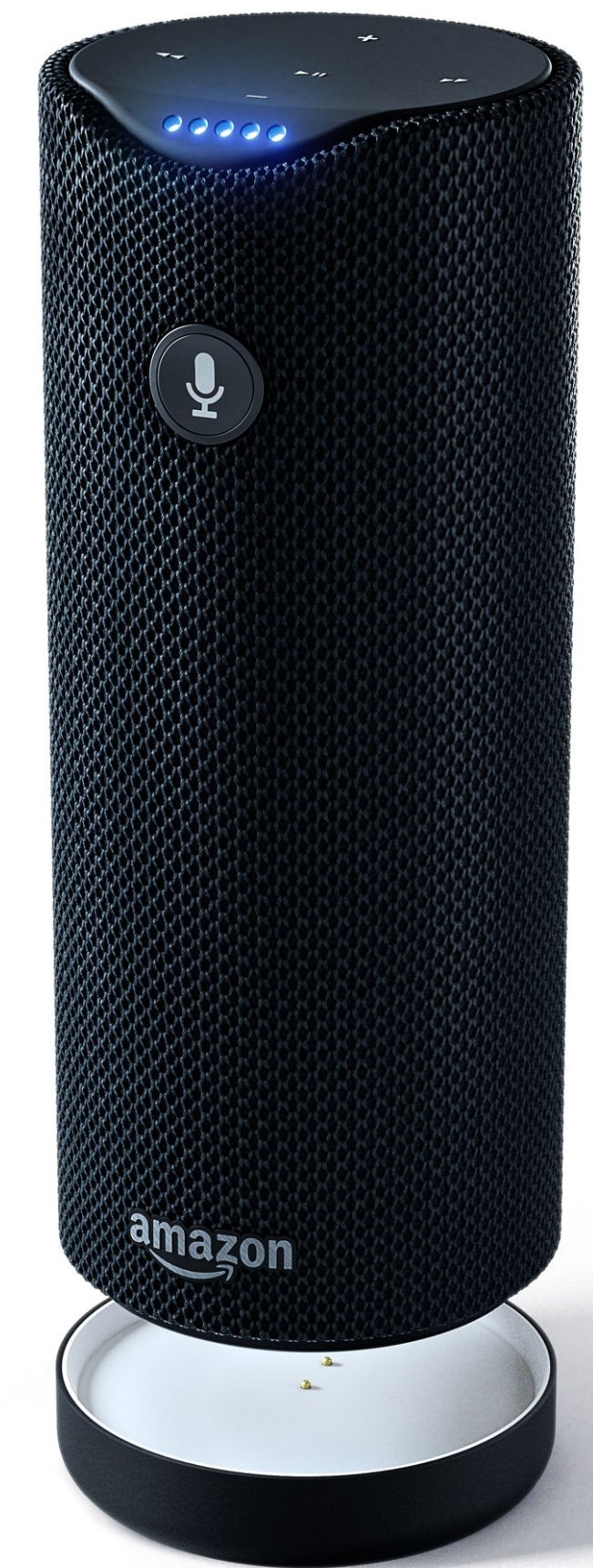
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- ASK - Alexa Skills Kit & AVS - Alexa Voice Service - massive voice & AI resources available free



Why?



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- Hundreds of developers are adding "skills" to Alexa to make it the voice AI interface to their apps and devices
- Amazon will be able to collect a "tax" on Alexa services used by developers

Ubiquitous applications



Ubiquitous applications

- Shopping. Duh!



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- Control TVs, computers, phones, carts, home automation, appliances, countless other everyday uses



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- Commercial applications: emergency, medical, industry, research, polling, customer service
- Unimaginable uses. Just like the smartphone.



Fight Phone Scammers



DETECTS SPAM
AND SCAM CALLS

SAMSUNG

12:30

Incoming call

(602) 555-0123

Arizona



Scam or fraud
Identity theft
Phoenix, AZ

hiya



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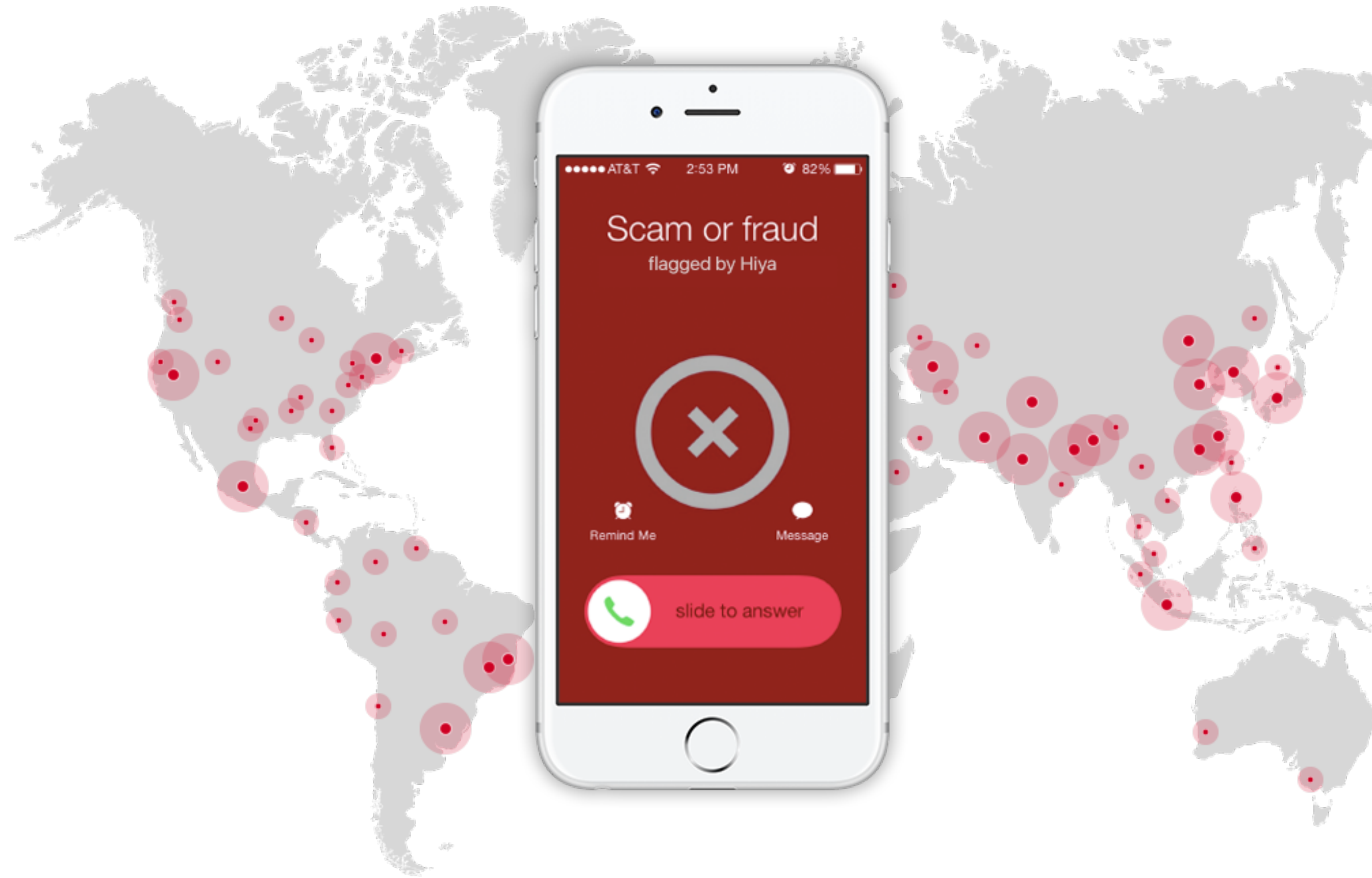
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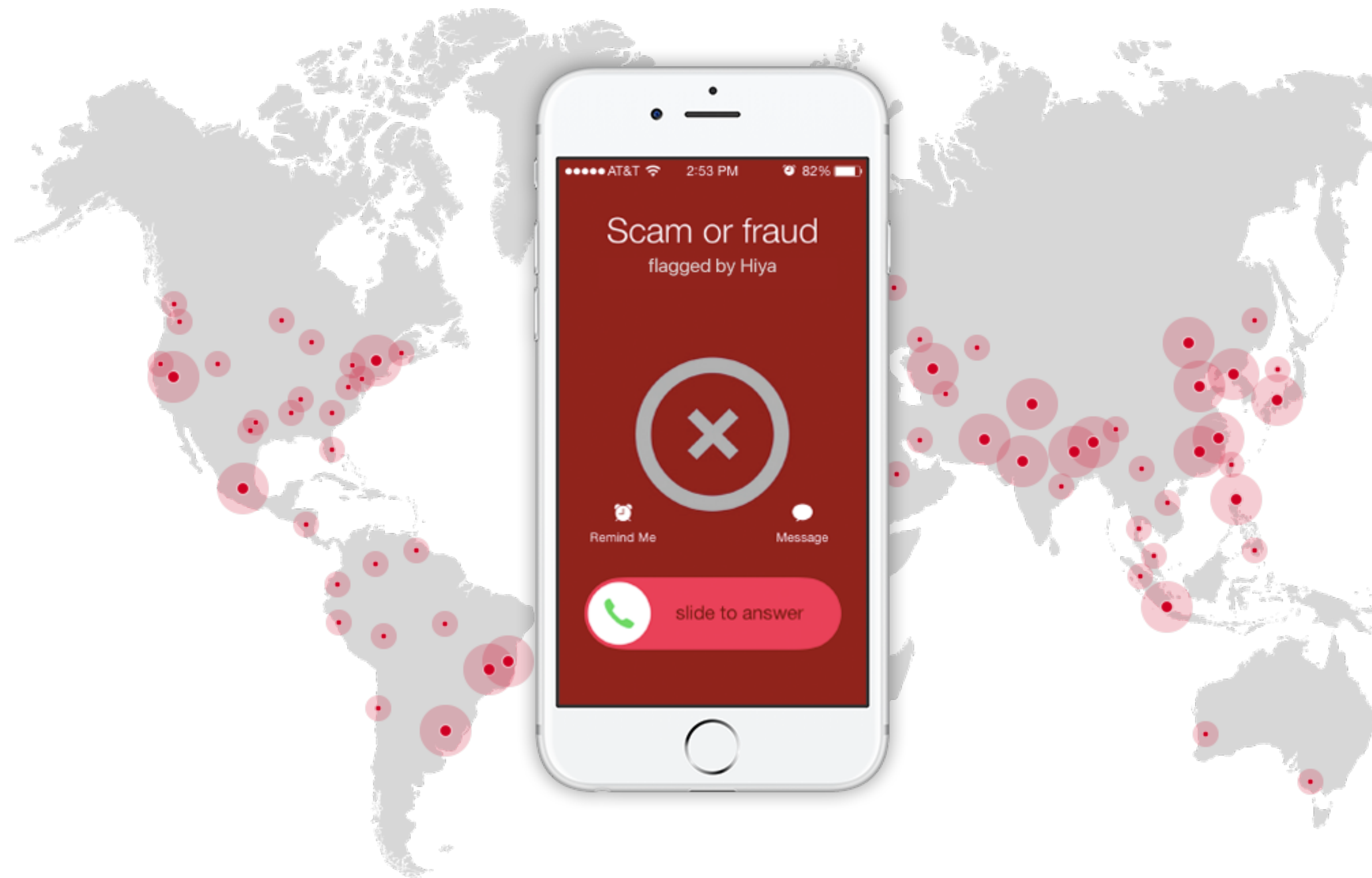
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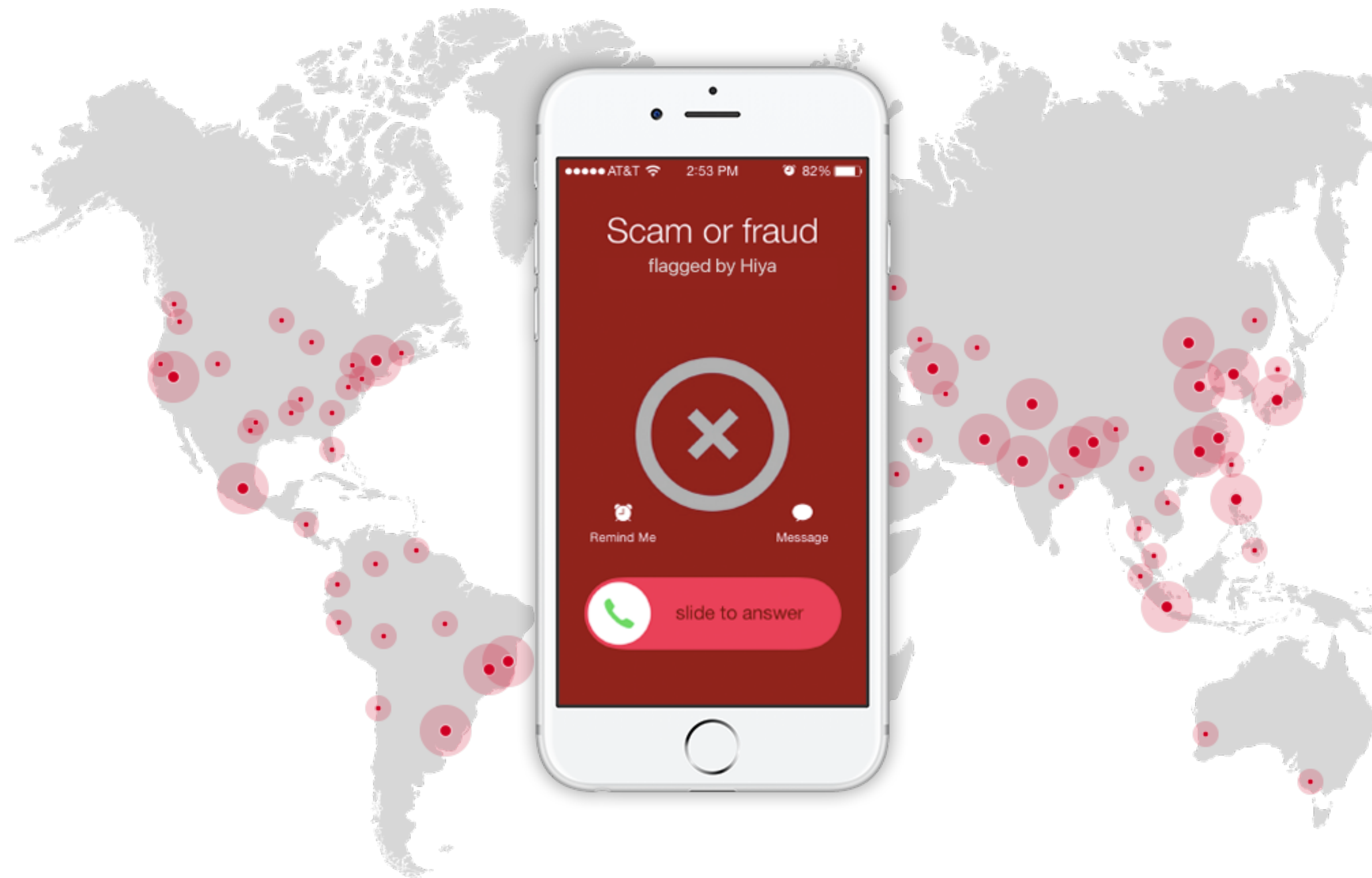
Hiya

- Free call-protection app for iPhone, Android



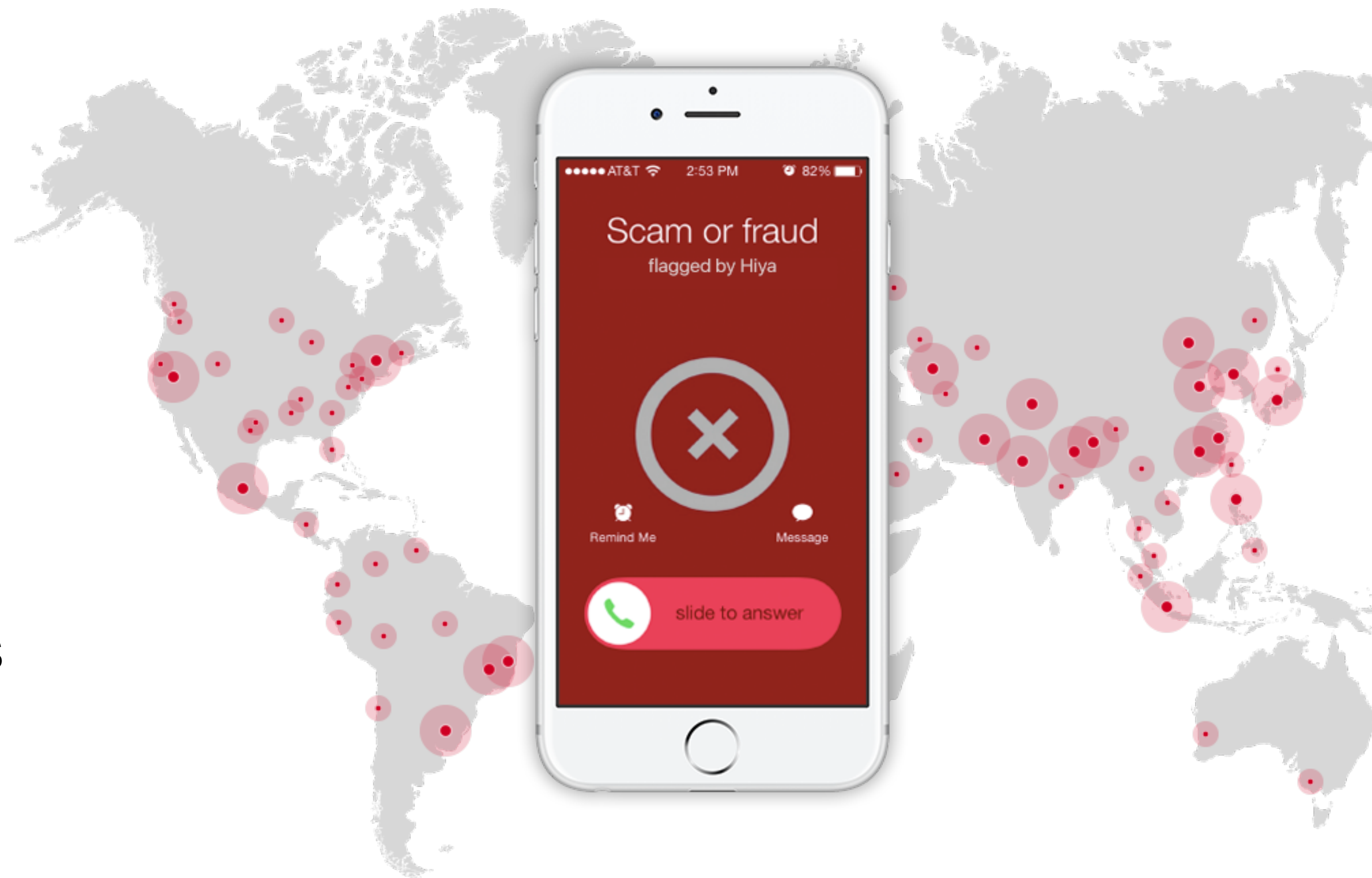
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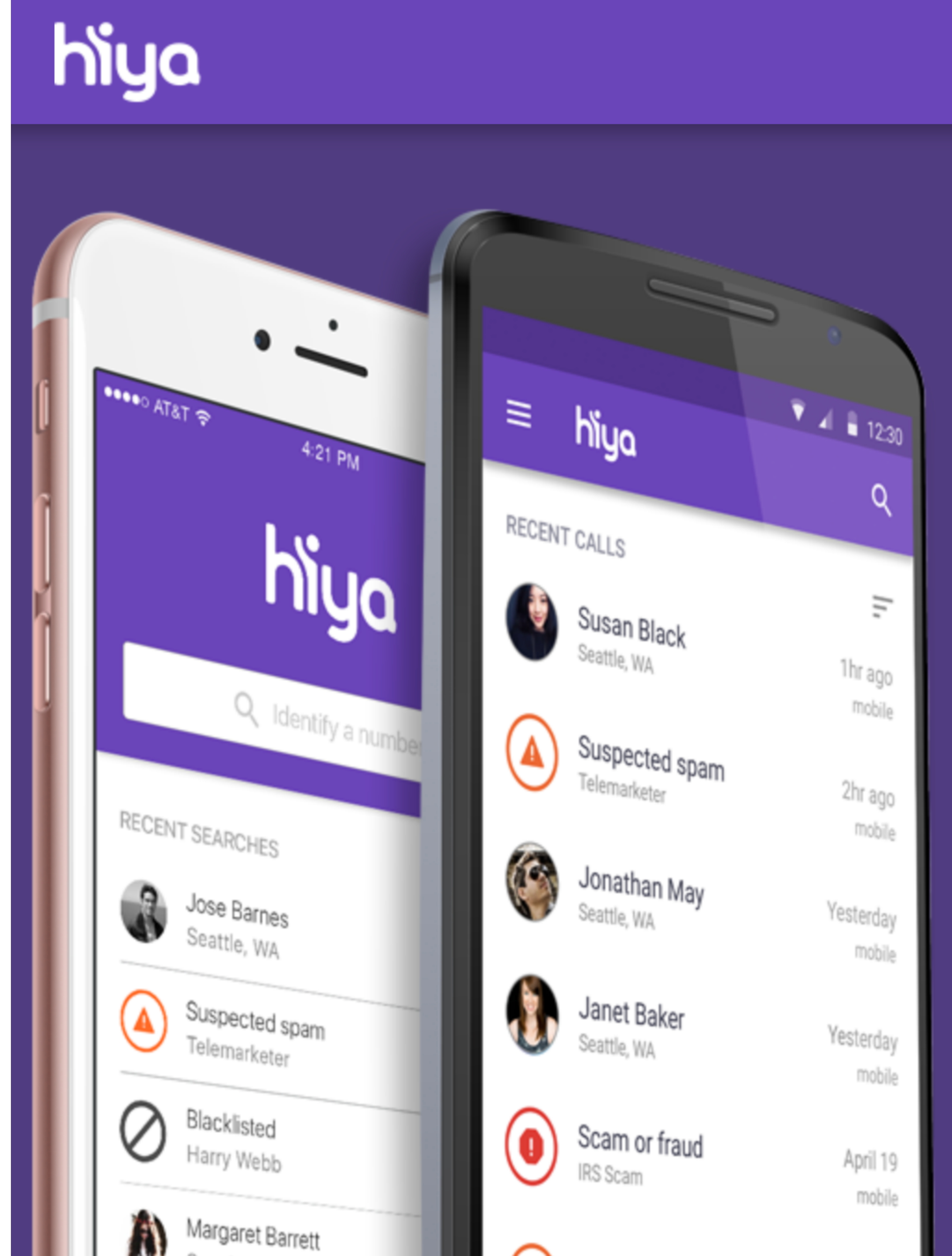


Hiya

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- Provides reporting and blocking for users to add new numbers to database



Demo



Our Next Meeting

JUL

13

Cove Apple Club
7:00 PM - 8:15 PM

July

July

July 2016							<	Today	>
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
26	27	28	29	30	Jul 1	2			
3	4	5	6	7	8	9			
10	11	12	13	14	15	16			
17	18	19	20	21	22	23			
24	25	26	27	28	29	30			
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Let's go to Cheeks!

