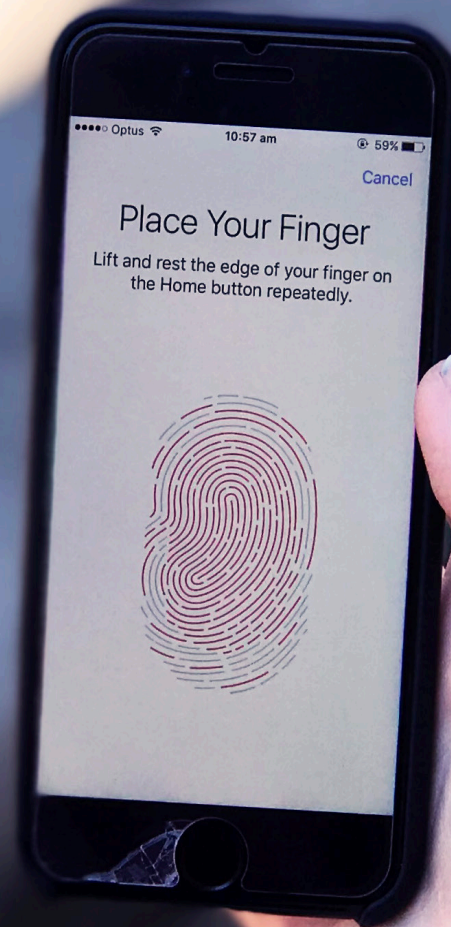


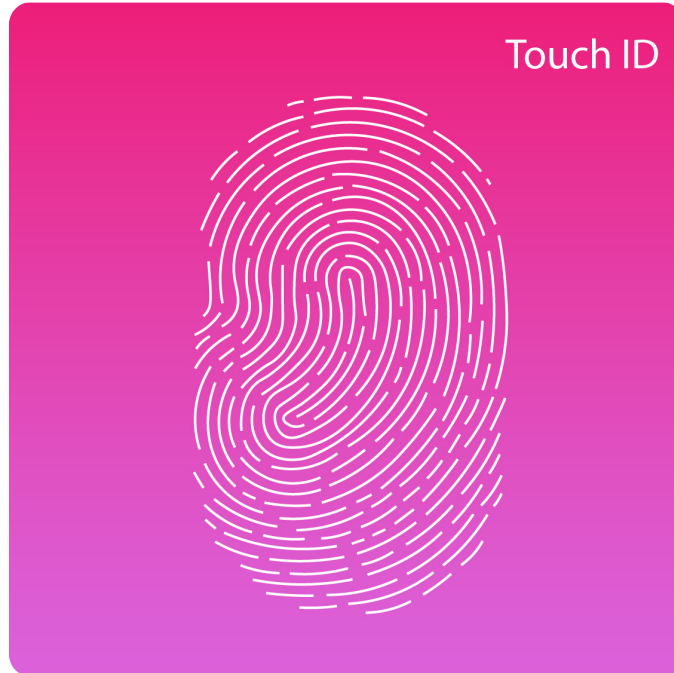
# IDEa after IDEa

Are you convinced that Face ID will be a preferred replacement for Touch ID on the phone?!



# IDEa after IDEa

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With the launch of the iPhone 5s, Apple has been able to create a more fast and efficient way of unlocking an IOS device. Touch ID has become the new name for Apple's fingerprint recognition technology, changing the way in which your IOS device unlocks. Through the implementation of this biometric-based security feature, fingerprint authentication enables users to confirm their identity with a single touch. This product differentiating feature in smartphones, has been proven to be more secure and convenient than passwords. Face ID replaces the the fingerprint-based Touch ID unlock system, on the iPhone X, which has no Home button. Instead of fingerprint identification, Apple's new iPhone (iPhone X) relies on the characteristics of your face to unlock your iPhone. This new technology is able to unlock your iPhone using infrared and visible light scans to uniquely identify your face profile.

Biometric security devices play a crucial role in verifying an individual's identity by enforcing access control methods through their unique biological traits. A person's fingerprints and face are a measurable

biological characteristic. The benefit of having this security, avoids the risk of having a thief hack into your phone as it is secure, therefore, having less incentive to steal. Phones are valuable, not only because of the cost, but the priceless data it contains, like irreplaceable photos, private messages and email addresses. Hence the desirable feature of secure authentication.

"There's no need for a passcode, you just put your finger or face in front of the mobile phone and it will unlock it."

Face ID is a facial scanning system that Apple implemented into the iPhone X as a biometric identity replacement for Touch ID. Thanks to the use of seven different sensors attached to the front-facing camera, Apple has made it highly impossible for another person's face to unlock your iPhone. It will automatically scan and confirm your identity without you even having to press a button.

Face ID works by using multiple projectors and sensors that capture several images of your unique facial features. Setting up Face ID, consists of on-screen

instructions, simply moving your head in a circle while a camera takes multiple shots of your face for a 3D map. Infrared lights are used, to illuminate your face while capturing images in order for Face ID to work at both day and night, and indoors and outdoors.

The change of an individual's profile, such as facial hair or makeup, will not necessarily affect the facial recognition feature when unlocking the phone. This is because Face ID can use a temporary representation of your face if it was a good enough match to unlock the device. It also captures another facial image when it fails to recognize the owner but the match still reaches a "certain threshold" and they immediately type the correct passcode.

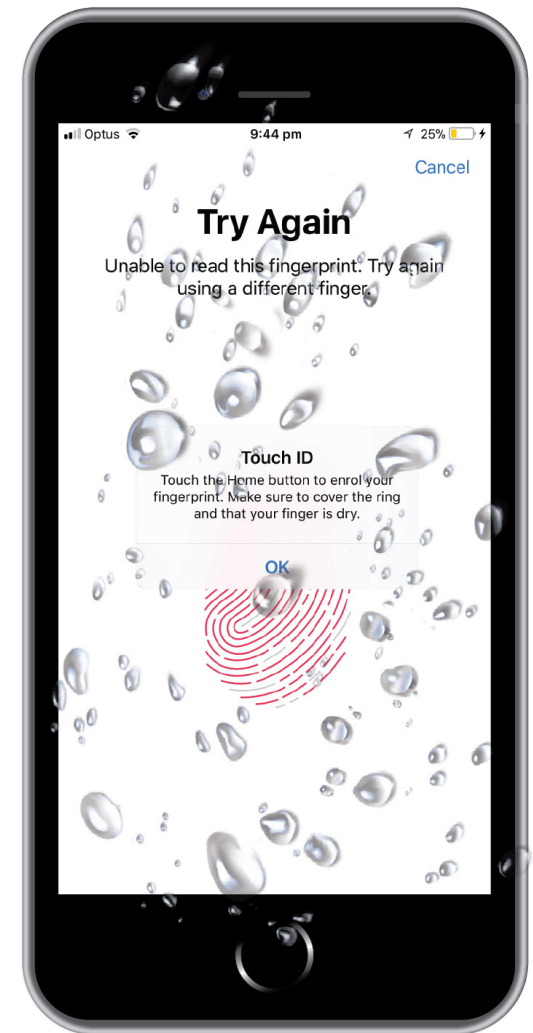
On the other hand, there is Touch ID, a fingerprint recognition feature, designed and released by Apple. It is a form of personal identification for electronic devices that reads your fingerprint to unlock your iPhone and provides an added level of security and verification for app purchases.

A system for quick authentication, fingerprint readers offer secure, convenient security because they rely on something

extremely difficult to hack that you have with you at all times. Faster yet more secure than a 4 digit passcode, fingerprint sensors are rightly gaining traction as a new proof of identity.

Touch ID relies on a range of factors in order to successfully work. It is designed from a steel capacitive ring, sapphire lens, image sensor and a secure enclave, which is developed to protect your passcode and fingerprint data. Images of your fingerprint are not stored anywhere on Touch ID, instead, it relies on a mathematical representation, making it impossible for someone to reverse engineer the image of your fingerprint.

After further research, it has become evident that Touch ID may still function when one's hand is somewhat only moist or damp. Although if your hand is submerged completely under water, attempting to unlock your iPhone using Touch ID will be unsuccessful.



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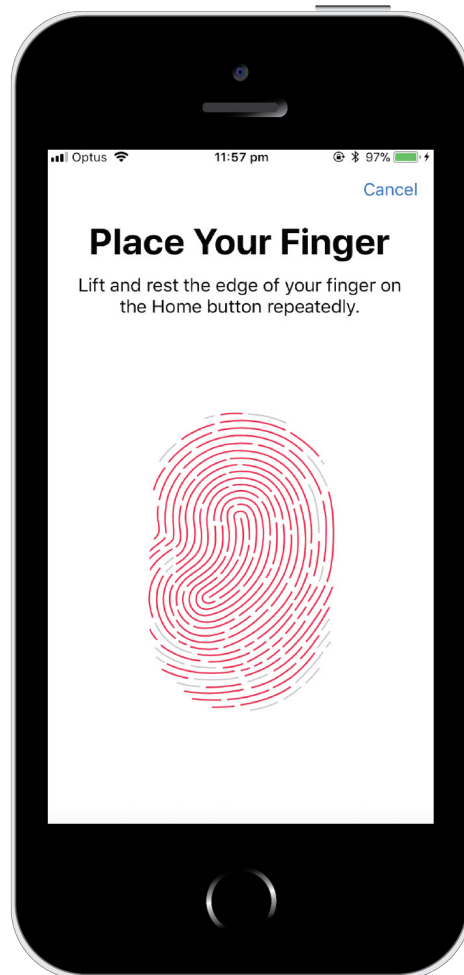
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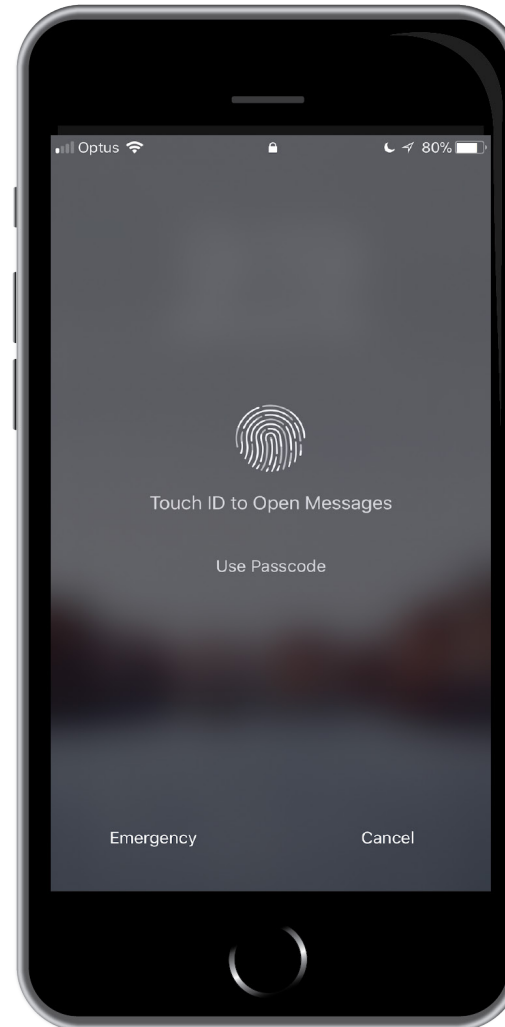
# Evolution of Touch ID and Face ID



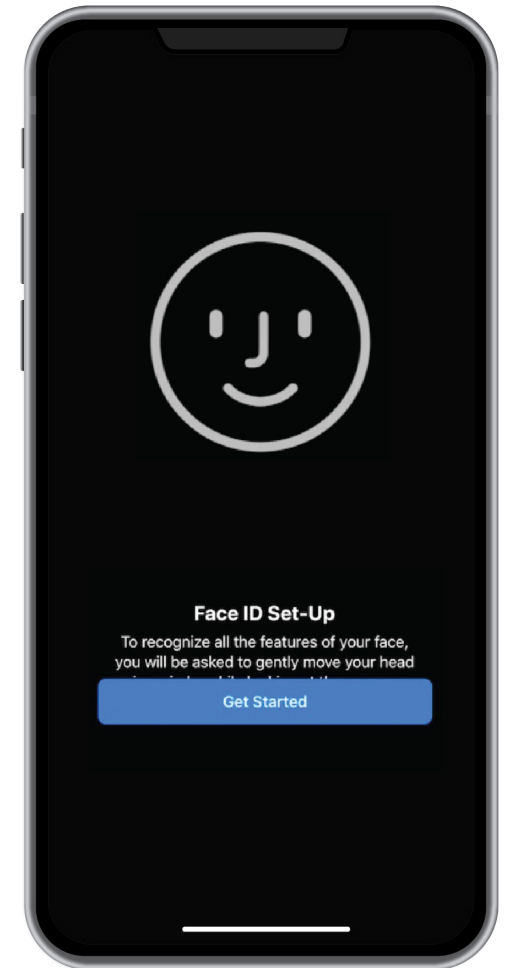
iPhone 4



iPhone 5s



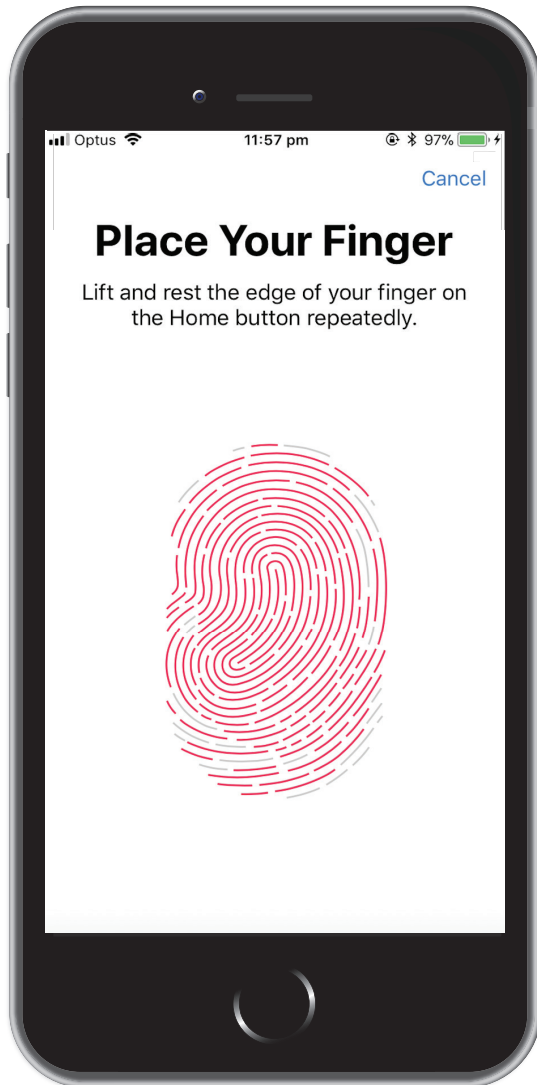
iPhone 6 plus



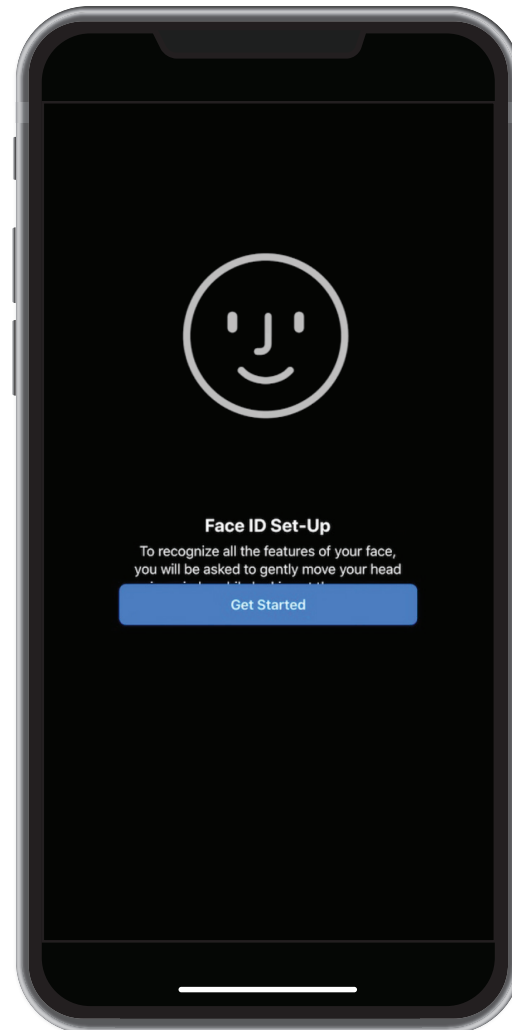
iPhone X plus

# Touch ID and Face ID set up pages

Touch ID setup page.



Face ID setup page.



## *Set up Touch ID*

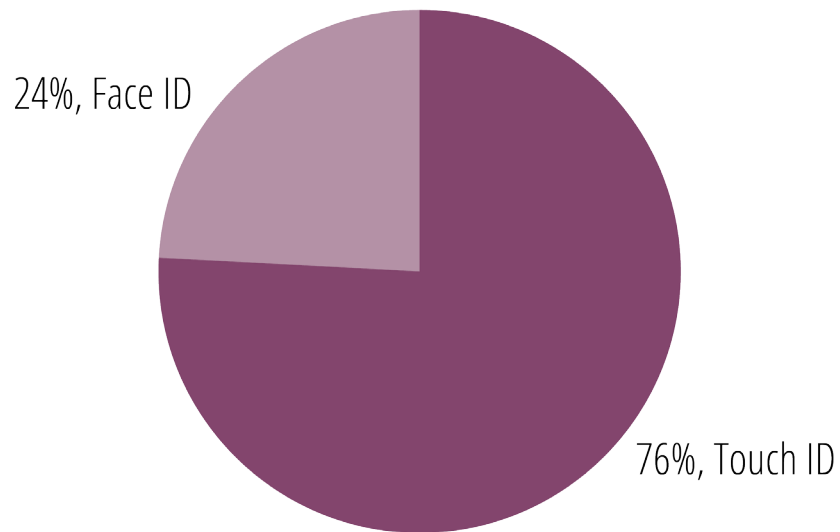
1. Ensure that the Home button and your finger is completely clean and dry
2. Go to Touch ID & Passcode in Settings and enter your passcode
3. Tap add a Fingerprint and hold your device as you normally would when touching the Home button
4. Touch the Home button with your finger—but don't press. Hold it there until you feel a quick vibration, or until you're asked to lift your finger.

## *How to set up Face ID*

1. Go to Passcode & Face ID in Settings, this is where you enroll your face, manage the features Face ID will be used for and more
2. Tap Enroll Face underneath the Face ID heading
3. Tap Get Started and follow onscreen instructions to complete enrollment
4. To help Face ID recognize the unique features of your face, position your face within the onscreen frame then gently move your head while looking at the screen to complete the circle.

# Touch ID vs. Face ID

Do you rather Touch ID or Face ID



Are you convinced that Face ID is a suitable replacement for Touch ID?

