

Janaya Rosse Hacias

Life in Your Hands

The way your most unique trait can protect your life at your fingertips



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In 2018, advancements of technology of unlocking phones by the tips of your hands, the fingerprint scanner. The ability to security, has given people an insight to how individuality can secure your personal information on your phone. People began to be concerned about the levels of security and privacy that this Apple characteristic that is embedded on most of their recent products, and how open they are to give away your identity by Touch ID.

The beginning of the fingerprint scanner from Apple was the iPhone 5s towards the end of 2013, the Touch ID feature began an idea to spark brands to use for securing information. Apple's audience was impressed by this and by the huge interest, it began to be included on most smartphone brands and copy Apple. As this progressed, Touch ID was being utilised onto other apps such as banking, Apple Pay, App Store and easy sign-in. Before Touch ID, there was a high error rate on the use of a passcode as a reliable security. Fingerprint scanners are typically built to be small and read sections

of a fingerprint and Touch ID will take 8-10 scans just so at any angle the finger is on, the scanner it can grant access to the user. This option being available to iPhone users are able to unlock their phones, and the success rate of responses were 70%-80% but only to improve to now iOS 12.0 in 2018. When Touch ID was introduced in iOS 7 in 2013, it was becoming known as the "first line of defence" after the 4-6-digit passcode, but only to design a security feature that is one of the most important characteristics to your identity, which is easily accessible by the user himself. Although people are being worried of their privacy by this feature, they should not have to be concerned by Apple's constant improvements of security. The user's fingerprint is scanned and compared to the biometric data is has collected when setting up Touch ID and is saved in the Security Enclave which stores the iPhone's security. The top layer of the fingerprint scanner is made of a quality sapphire crystal, making it scratch resistant. According to Apple, they claim that the chances of another person's fingerprint will 'falsely unlock' your

phone is a 1 of 50,000. Some third-party applications will even ask to use Touch ID to sign in or prove authentication, making it easier to access applications without having to remember login details. A way to make Touch ID safer and secure your personal information by creating a long passcode - when setting it up, your back up when the fingerprint is unidentifiable, you need to have a passcode and it is suggested to make it from 4 digits, but you have a choice of making a longer one. It is built to be a fast sensor, so accessing your phone won't be a hassle to remember your code, or having to type in a password, as well as making it safer so no one near you can easily get in without your fingerprint. Other than your thumb, you can have up to 5 fingerprints registered onto each device, so you can make your fingerprint suit to the different ways you hold your iPhone. This also allows if a device is made for a household or company, multiple people can have access to it when they enter their fingerprint too. Although this was Apple's first creation of biometric security, Face ID has joined the world of security. The iPhone

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Apple. (n.d.). Human Interface Guidelines. Retrieved from URL <https://developer.apple.com/design/human-interface-guidelines/ios/user-interaction/authentication/>

X series consists of a screen with no sign of a home button or fingerprint scanner. Face ID requires your face to be scanned instead of your fingerprint to access your device, which is a more concerning topic. There has also been a low rate in those who are interested in the Face ID biometric authentication system rather than Touch ID, making fingerprint security a favourite of apple users.

The convenience of Touch ID makes Apple's promise consistent with ease of use and personalised to the user, even if it fails, it needs to be backed up with a strong passcode. Apple has revolutionised the security of smartphones and continues to engage with their audiences to new features and continue to use it for third-party applications. Users should not have to be concerned with their details and photos to be taken by TouchID, it is safe to use, convenient and keeps your life locked away into your hands.

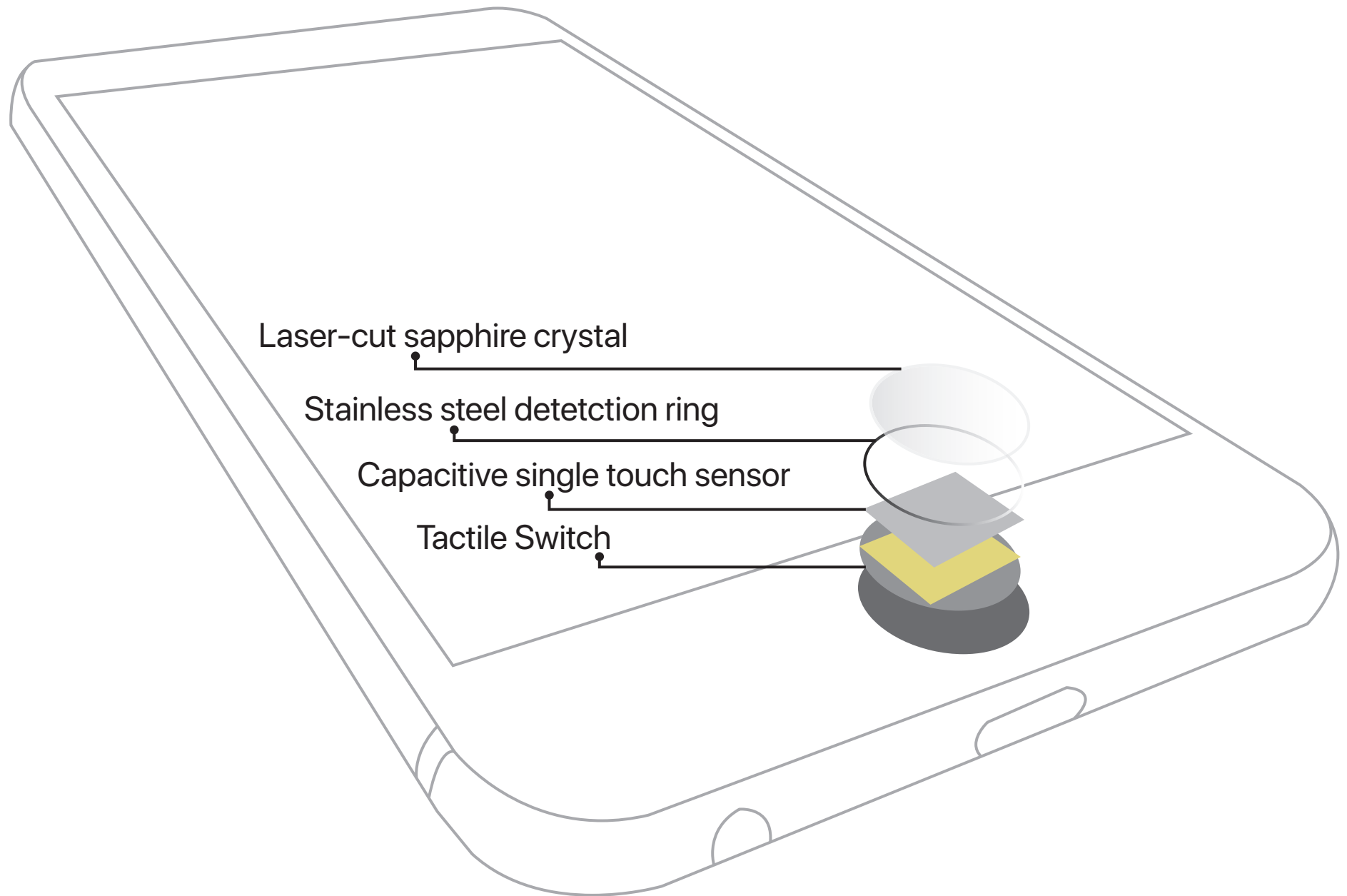
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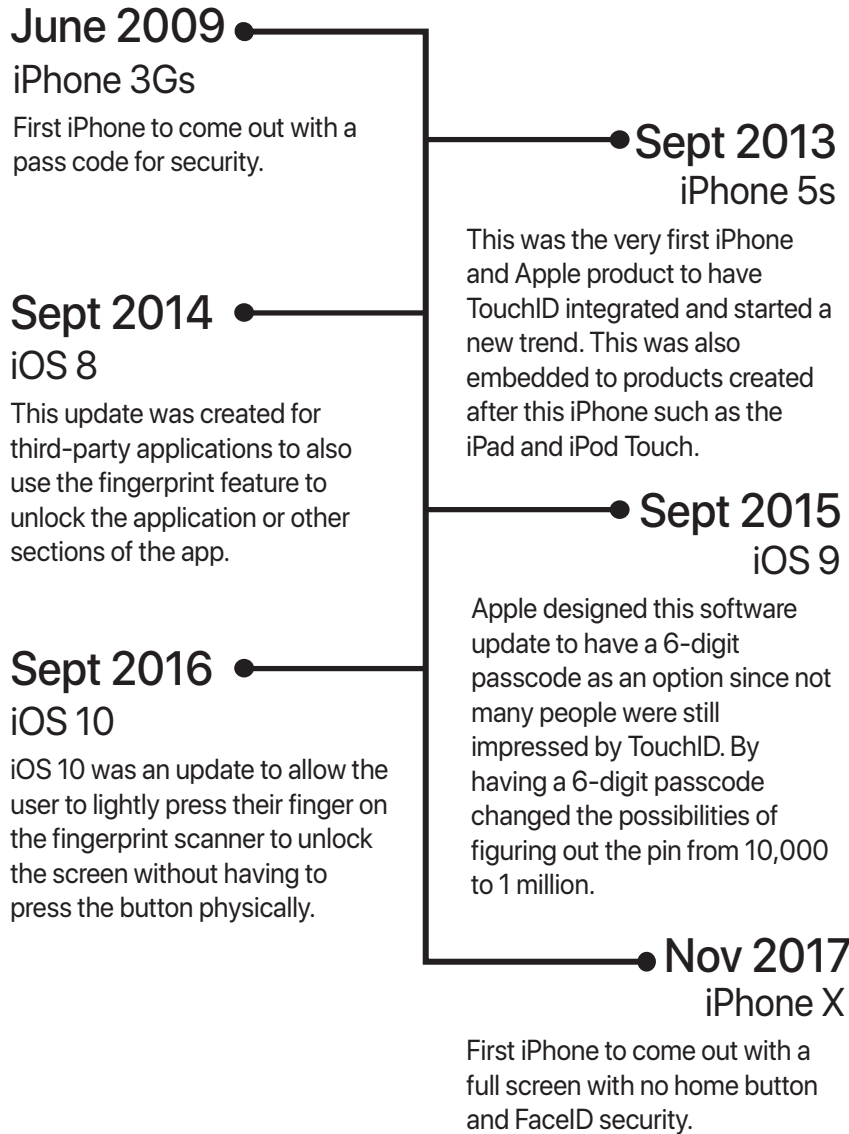
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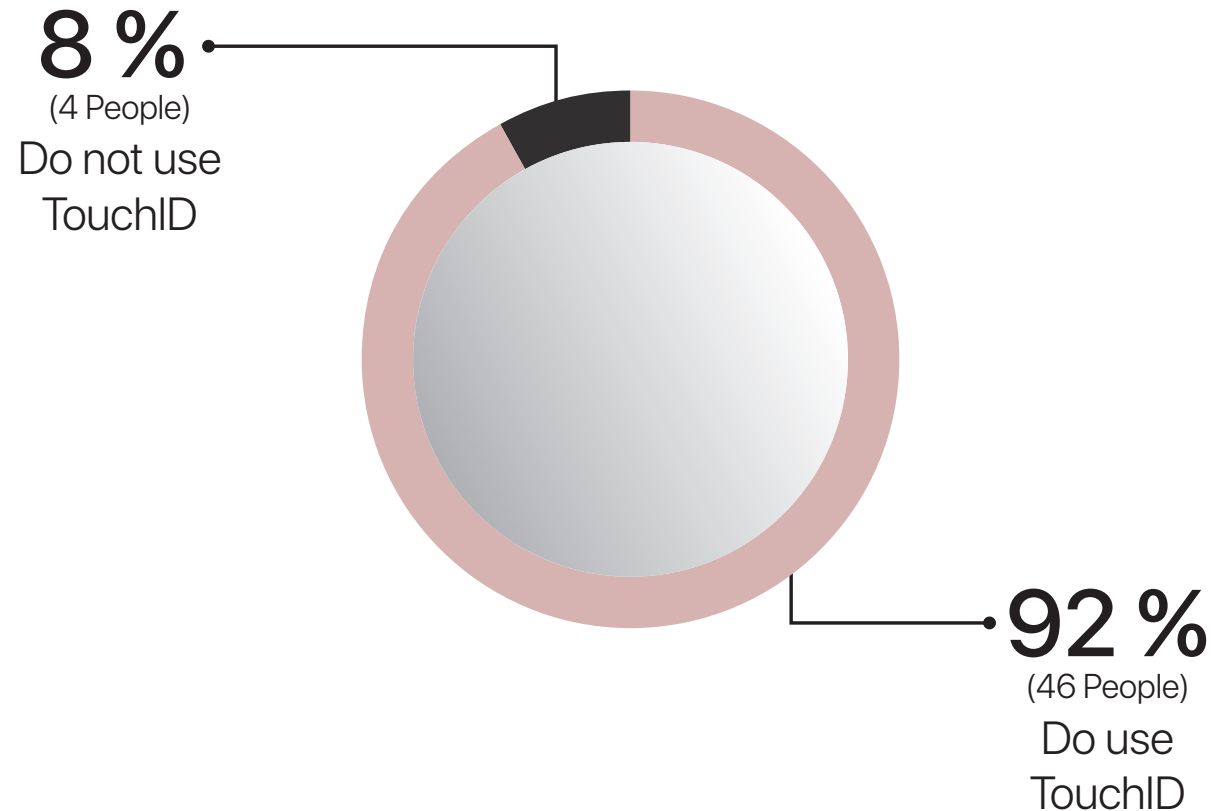
Touch ID Schematics



iPhone Security Timeline

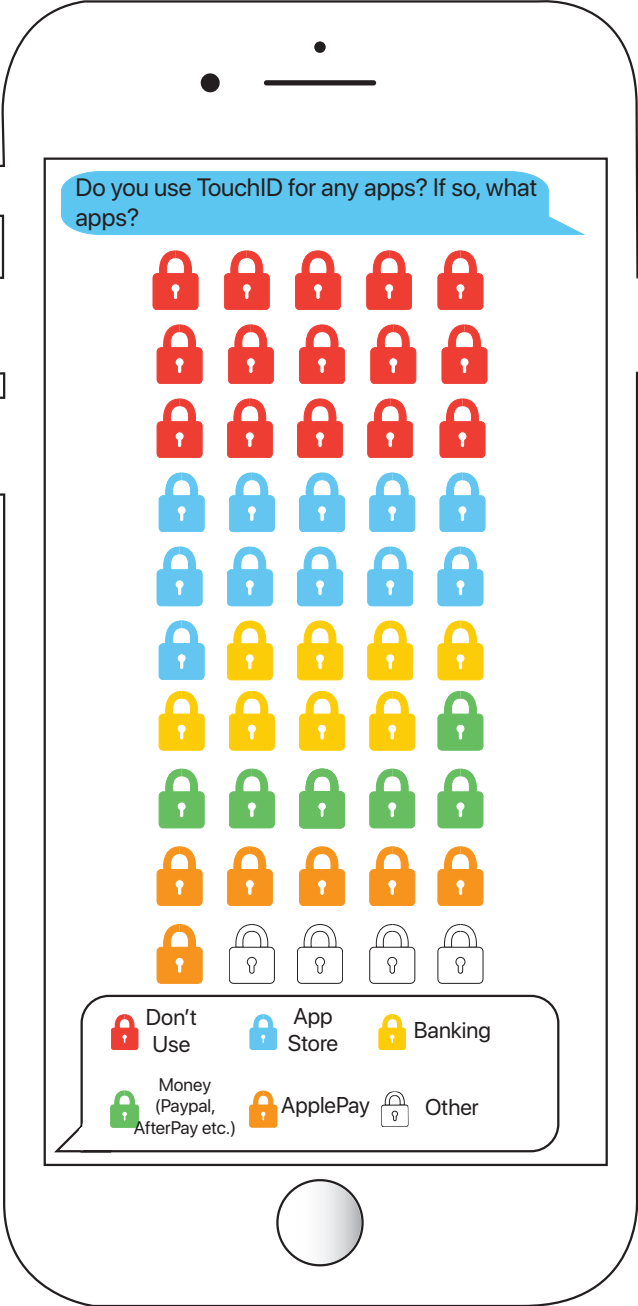


Do you use TouchID?



Survey of 50 people

Use of TouchID for Applications



Survey of 50 people