

Diana Zola & Param Kinot

Is your wallet yours?

The clarity you didn't know you needed



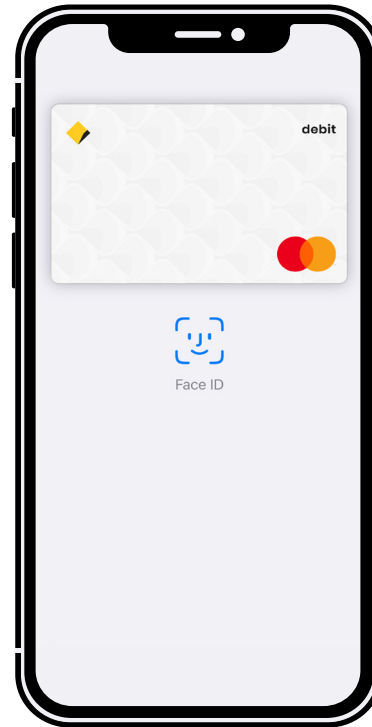
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Apple Wallet

The Apple Wallet is a program built into Apple devices, such as their phones and watches, that enables people to store different types of information and logistical tools with convenience and safety.

Through this app, the apple wallet allows users to store credit/debit cards, transport passes, vaccination identification, boarding passes and car keys amongst other important things. So, why is this useful? By enabling the use of the wallet app, you essentially are able to now store a wealth of important information in a compact and secure place that you almost never leave the house without. Convenience and functionality are what makes this product revolutionary. The apple wallet does this by creating digital copies of different forms of identification and passes that can be easily selected by double tapping the power button on your device. The digital copy can then be scanned through the wireless components within the device, similar to what's inside bank cards and opal cards by payWave machines, opal readers and other



scanning devices. There are two distinctly different ways Apple seeks to protect from the improper use of this program. One, is physical measures, meaning to access this digital wallet you must either input a code, scan your thumbprint or use the devices inbuilt facial recognition. Without passing these barriers, the wallet will not open and therefore cannot be scanned or used by others who are not privy to your passcodes. Furthermore, Apple also encrypts each individual digital component that enters the wallet before sending the information to secure apple servers. This means that the information, for example your digital bank card, cannot be accessed online by anyone other than you.

Thus, this product is very safe, secure and appropriately equipped to store your sensitive and private information. The apple wallet is an extremely convenient, user friendly and safe program, that ensures it's users are always able to access their important information on the go. With this program there is no need for a plethora of cards that take up space and are easy to lose. The apple wallet is a fantastic product.

Face ID

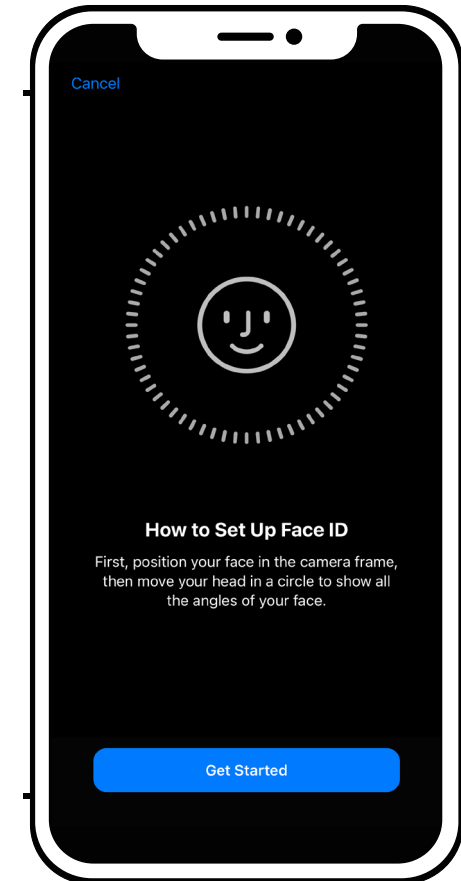
Although not a relatively new concept but now an Apple phones' go-to security feature for their iPhone, Face ID is claimed to be the most advanced hardware and software Apple have ever created.

They have claimed to master the use of TrueDepth technology that captures the user's face in real time and stores its data after analysing thousands of invisible dots on a face. This is said to be perfected via Apple's bionic chipset as seen in the recent years over the course of many flagships such as the iPhone X till the latest iPhone 13. Furthermore, Face ID is programmed to adapt to different variations of your face, such as cosmetics or change in facial hair to prevent issues with operating your smartphone, all due to the use of an infrared image captured & stored in a small segment of the neural engine.

Any user concerns such as accessorising the face with hats, glasses, scarves, or contacts have been eased as it can recognise your face immediately, designed

to work in indoor and even dark outdoor settings. Security is obviously a major aspect of this feature and users can rest easy knowing the steps Apple have taken to safeguard their information.

The mathematical representations of your face provided via TrueDepth have said to be so accurate that the probability of a random person unlocking your phone is 1 in 1 million. The privacy aspect of this feature and Apple's users' information in general is encrypted by the 'Secure Enclave'. Rest assured, Apple does NOT keep track of any transactions which occur via the wallet or apple pay feature or any information for that matter. When it comes to other information such as apple pay, your credit and debit numbers are all hidden from apple, it's what makes your phone, yours.



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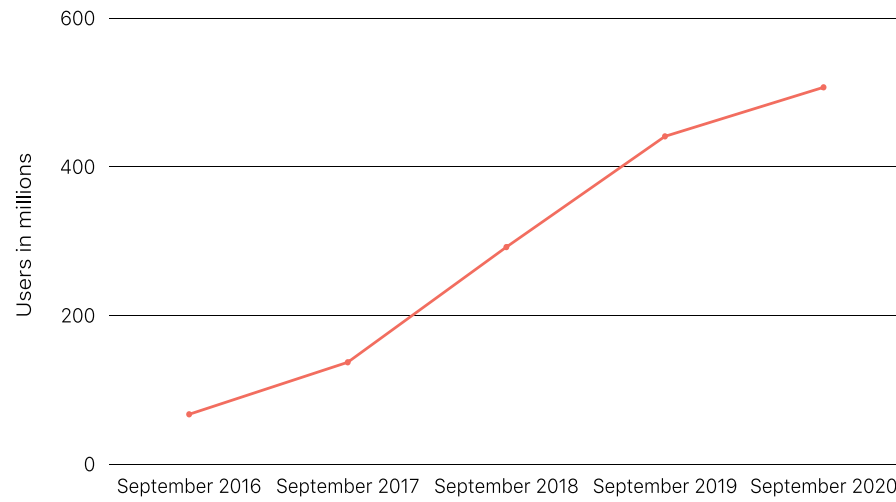
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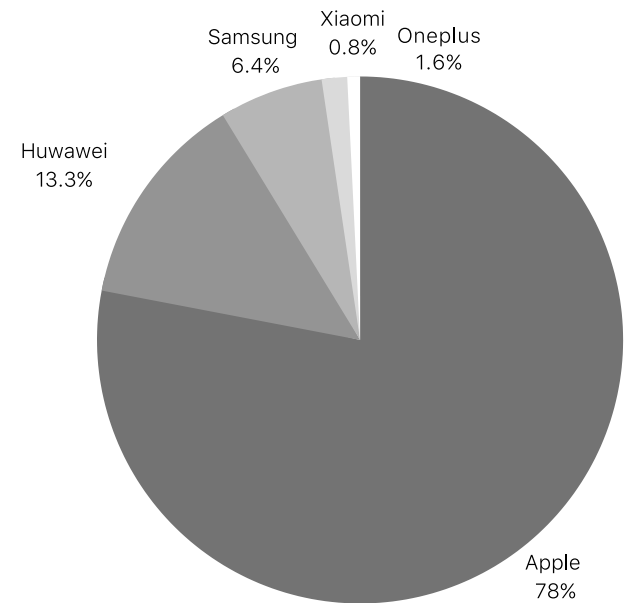
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Number of Apple Pay users worldwide as of September 2020



Consumer Usage of Phones with Facial Recognition worldwide



What is behind the screen?

Infrared Camera

An infrared camera reads the dot pattern, captures an infrared image, then sends the data to the Secure Enclave in the A11 Bionic chip to confirm a match.

Flood Illuminator

Invisible infrared light helps identify your face even when it's dark.

Dot Projector

More than 30,000 invisible dots are projected onto your face to build your unique facial map.

