



Data Storage Options for iOS

- Cloud
 - Google One/Drive
 - iCloud
 - Microsoft OneDrive
 - Dropbox
- Local
 - SQLite
 - Property List
 - Core Data

(Cross, 2020)

(Local iOS Data Storage Guidelines for iOS Applications, 2014)



Google One/Drive

- Cloud storage
- 15 GB of free storage
- Drive's tools
- Secure copy of documents
- Easy to access



iCloud

- 5GB of free iCloud
- iCloud Photo Library
- All your files available from all your devices.
- Work together
- Automatically keeps apps
- Automatic backups
- Two-factor authentication



Microsoft OneDrive

- Save files and photos
- Anywhere access
- Offline access
- Protect your files
- Files on demand
- 5 GB of free
- Office apps

(Personal Cloud Storage – Microsoft OneDrive, 2020)



Dropbox

- Save files and photos
- 2GB free
- Multiple devices
- Files Recover

(Durrant, 2019)

(Dropbox and storage, 2020)

The SQLite logo is displayed in a stylized, reddish-orange serif font. It is positioned at the top center of the slide, above the main content area. The background of the slide features a dark blue gradient with wavy, horizontal lines in shades of blue and purple, creating a modern, tech-oriented aesthetic.

SQLite

Advantage

- Lightweight
- It works as part of the app itself
- Better Performance
- No Installation Needed
- Portable
- Database class (select, insert, update, delete)

Disadvantages

- Low to medium traffic
- Database size
- No mechanism or pre-built database management library (About SQLite, 2020)

SQLite Works Well

- Websites
- Data transfer format (Appropriate Uses For SQLite, 2020)

Property List

- Storing small amounts of data
- Hierarchies
- XML file
- Property list is very common in iOS projects

Plist > Plist > Fruit.plist > No Selection		
Key	Type	Value
▼ Root	Array	(6 items)
Item 0	String	Orange
Item 1	String	Pineapple
Item 2	String	Raspberry
Item 3	String	Banana
Item 4	String	Pear
Item 5	String	Apple

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
  <array>
    <string>Orange</string>
    <string>Pineapple</string>
    <string>Raspberry</string>
    <string>Banana</string>
    <string>Pear</string>
    <string>Apple</string>
  </array>
</plist>
```




Core Data

- Persistence framework

„The Core Data stack handles all of the interactions with the external data store and consists of three primary tools: the Managed Object Model, the Persistent Store Coordinator and the Managed Object Context.” (Martins, 2017)

References

- Apple (United Kingdom). 2020. iCloud. [online] Available at: <<https://www.apple.com/uk/icloud/>> [Accessed 6 May 2020].
- Information Technology Blog. 2014. Local Ios Data Storage Guidelines For Ios Applications. [online] Available at: <<https://www.brihaspatitech.com/blog/local-ios-data-storage-guidelines-for-ios-applications/>> [Accessed 5 May 2020].
- Cross, J., 2020. The Best Cloud Storage Services For Apple Users. [online] Macworld. Available at: <<https://www.macworld.com/article/3273416/the-best-cloud-storage-services-for-apple-users.html>> [Accessed 6 May 2020].
- Dropbox, W. and storage, C., 2020. Cloud Storage Service And Online File Storage. [online] Dropbox.com. Available at: <https://www.dropbox.com/en_GB/features/cloud-storage> [Accessed 6 May 2020].
- Durrant, N., 2019. Free Online Storage. [online] MoneySavingExpert.com. Available at: <<https://www.moneysavingexpert.com/shopping/free-online-storage/>> [Accessed 6 May 2020].

- Jacobs, B., 2016. What Is The Core Data Stack. [online] Cocoacasts.com. Available at: <<https://cocoacasts.com/what-is-the-core-data-stack>> [Accessed 7 May 2020].
- Martins, F., 2017. Core Data On Ios 10, A Brief Overview With An Example. [online] Medium. Available at: <<https://revs.runtime-revolution.com/core-data-on-ios-10-a-brief-overview-with-an-example-dc6e0ce844a5>> [Accessed 5 May 2020].
- Microsoft.com. 2020. Personal Cloud Storage – Microsoft Onedrive. [online] Available at: <<https://www.microsoft.com/en-gb/microsoft-365/onedrive/online-cloud-storage>> [Accessed 6 May 2020].
- Sqlite.org. 2020. About Sqlite. [online] Available at: <<https://www.sqlite.org/about.html>> [Accessed 5 May 2020].
- Sqlite.org. 2020. Appropriate Uses For Sqlite. [online] Available at: <<https://www.sqlite.org/whentouse.html>> [Accessed 5 May 2020].
- Vries, R., 2018. How To: Working With Plist In Swift – Learnappmaking. [online] LearnAppMaking. Available at: <<https://learnappmaking.com/plist-property-list-swift-how-to/>> [Accessed 5 May 2020].