iOS & Swift

Persistence
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Persistence

- Saving data on device storage
- Pros:
  - Faster access than network call to backend server
  - Convenient
  - Offline mode
- Cons:
  - Syncing data on device with backend server
  - Extra complexity to manage

Persistence

- Types of Persistence
  - UserDefaults
    - Simple Data
    - Easy to use
  - Example:
    - user preference
    - user saw tutorial / training

Persistence

- Types of Persistence
  - CoreData
    - Advanced persistence framework
    - More complex data
    - Relationship between data
    - Support for offline mode (e.g. no network access)
  - Examples:
    - Data about popular movies and relationships between them
    - Data about schools near you

Persistence

- Types of Persistence
  - [Realm](#)
    - Open source
    - OO data model
  - SQLite
    - available on Obj-C
    - SQL database engine

Helpful Resources, References

- External References/Tutorials:
  - [Persisting Data](#)
  - [Bring Core Data concurrency to Swift and SwiftUI](#)
  - [Build apps that share data through CloudKit and Core Data](#)
  - [Realm](#)
  - [UserDefaults](#)