

Consuming Web Services and Using Local Storage on iOS

Using NSUserDefaults

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Using UserDefaults

- **What UserDefaults is and when to use it**
- **How to read and write simple values**
- **How to define default values if user has not specified a preference**
- **Update our app to allow user to specify sort order preference**

What is UserDefaults? It's like...

It's like...a property list.

- It only stores property list types
- You can create a set of defaults using the Xcode property list editor

It's like...a dictionary.

- Consists of key/value pairs
- Methods for reading and writing resemble NSMutableDictionary methods

It's like...a user data file.

- File saved in /Library/Preferences
- File saves itself automatically
- File backed up by iTunes

Reading and Writing Defaults

```
NSUserDefaults *userDefaults = [NSUserDefaults standardUserDefaults];
```

Reading

- boolForKey:
- integerForKey:
- objectForKey:
- stringForKey:

Writing

- setBool: forKey:
- setInteger: forKey:
- setObject: forKey:
- setDouble: forKey:

Register Defaults at App Startup

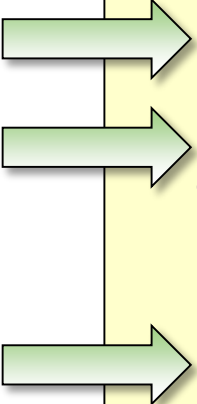
```
- (BOOL)application:(UIApplication *)application
    didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    // Override point for customization after application launch.

    // register defaults
    NSMutableDictionary *appDefaults = [NSMutableDictionary dictionary];

    [appDefaults setObject:[NSNumber numberWithInt:14]
        forKey:@"FontSize"];
    [appDefaults setObject:@"Blue" forKey:@"BackgroundColor"];
    [appDefaults setObject:[NSDate date] forKey:@"StartDate"];

    [[NSUserDefaults standardUserDefaults] registerDefaults:appDefaults];

    return YES;
}
```



Summary

- **When to use UserDefaults**
- **How to read and write values**
- **Define default values**
- **Added a feature to our app to allow user to specify sort order preference**