



# Geolocation in iOS: Mobile Positioning and Mapping on iPhone and iPad

*Alasdair Allan*

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## Geolocation in iOS: Mobile Positioning and Mapping on iPhone and iPad Alasdair Allan

Take advantage of iPhone and iPad sensors and advanced geolocation technologies to build state-of-the-art location applications. In this concise hands-on guide, author Alasdair Allan (*Learning iOS Programming*) takes you deep inside Apple's Core Location framework, Map Kit, and other iOS tools, using illustrative examples and sample Objective-C code. Learn how to build location-aware apps for both iPhones and iPads, using code that detects hardware features and then adjusts your app's behavior.

If you're a programmer with iOS experience, or a Mac developer familiar with Objective-C, this book helps you get off to a solid start in location-based app development.

You'll learn about:

- **Core Location:** Understand the significant-change location service and geo-fencing capabilities
- **Map Kit:** Embed maps into your application's views
- **Magnetometer:** Use the on-board sensor as a digital compass
- **Geocoding capabilities:** Translate geographic coordinates into place names, and vice versa
- **Heat maps:** Get a code walkthrough for displaying these maps on top of a standard MapKit view
- **Third-party SDKs:** Add unique geo-location capabilities to your app from SkyHook Wireless, MapBox, and other providers

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