

LEARNING core-bluetooth

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#core-

bluetooth

Table of Contents

About	
Chapter 1: Getting started with core-bluetooth	2
Remarks	2
Examples	2
Installation or Setup	2
Chapter 2: Scan & connect with BLE peripherals (Bluetooth Smart)	3
Introduction	3
Examples	3
Scan all available peripherals	3
Scan available peripherals only with interested services	3
Chapter 3: Setup bluetoooth central manager	4
Introduction	4
Examples	4
Declare and instantiate CBCentralManager	4
Declare and instantiate CBCentralManager with options	4
Credits	5

About

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Chapter 1: Getting started with core- bluetooth

Remarks

This section provides an overview of what core-bluetooth is, and why a developer might want to use it.

It should also mention any large subjects within core-bluetooth, and link out to the related topics. Since the Documentation for core-bluetooth is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Detailed instructions on getting core-bluetooth set up or installed.

Read Getting started with core-bluetooth online: https://riptutorial.com/core-bluetooth/topic/5544/getting-started-with-core-bluetooth

Chapter 2: Scan & connect with BLE peripherals (Bluetooth Smart)

Introduction

This section describes how central (iOS app) can scan available BLE peripherals and connect with one we are interested in.

Examples

Scan all available peripherals

Swift:

```
centralManager.scanForPeripherals(withServices: nil, options: nil)
```

Objective C:

```
[centralManager scanForPeripheralsWithServices:nil options:nil];
```

Scan available peripherals only with interested services

Swift:

```
let services = [CBUUID(string: SERVICE1_UUID), CBUUID(string: SERVICE2_UUID)]
centralManager.scanForPeripherals(withServices: services, options: nil)
```

Objective C:

```
NSArray *services = @[[CBUUID UUIDWithString:SERVICE1_UUID], [CBUUID
UUIDWithString:SERVICE2_UUID]];
[centralManager scanForPeripheralsWithServices:services options:nil];
```

Read Scan & connect with BLE peripherals (Bluetooth Smart) online: https://riptutorial.com/core-bluetooth/topic/9759/scan---connect-with-ble-peripherals--bluetooth-smart-

Chapter 3: Setup bluetoooth central manager

Introduction

CBCentralManager acts as a manager class central side app generally iOS app. which is responsible for bridging communication between peripherals and central.

Examples

Declare and instantiate CBCentralManager

Swift:

```
var centralManager:CBCentralManager!
centralManager = CBCentralManager(delegate: self, queue: nil)
```

Objective C:

```
@property (nonatomic, strong) CBCentralManager *centralManager;
centralManager = [[CBCentralManager alloc] initWithDelegate:self queue:nil];
```

Declare and instantiate CBCentralManager with options

Swift:

```
var centralManager:CBCentralManager!
centralManager = CBCentralManager(delegate: self, queue: nil, options:
[CBCentralManagerOptionRestoreIdentifierKey: "com.companyname.appname.central"])
```

Objective C:

```
@property (nonatomic, strong) CBCentralManager *centralManager;
self.centralManager = [[CBCentralManager alloc] initWithDelegate:self queue:nil
options:@{CBCentralManagerOptionRestoreIdentifierKey: @"com.companyname.appname.central"}];
```

Read Setup bluetoooth central manager online: https://riptutorial.com/core-bluetooth/topic/9760/setup-bluetoooth-central-manager

Credits

S. No	Chapters	Contributors
1	Getting started with core-bluetooth	Community
2	Scan & connect with BLE peripherals (Bluetooth Smart)	BaSha
3	Setup bluetoooth central manager	BaSha