PMA Power of Art Hackathon
March 11—13, 2016
pmaToolkit Documentation

Requirements

- **iOS 8.0+**
- **Xcode 7.2+**
- **CocoaPods**

Getting started

Install CocoaPods (if not already installed)

```
$ gem install cocoapods
```

Add to your Podfile:

```
platform :ios, '8.0'
use_frameworks!

pod 'SwiftyJSON', :git => 'https://github.com/SwiftyJSON/SwiftyJSON.git'

pod 'pmaToolkit', :git => 'https://github.com/philamuseum/pmaToolkit.git'
```

Then run pod install

```
$ pod install
```

Configuration

In order for the framework to work, the following information has to be supplied:

- **iBeacon UUID**
  pmaToolkit.settings.iBeaconUUID = "`f7826da6-4fa2-4e98-8024-bc5b71e0893e`**"**

- **Remote Location & iBeacon definitions**
  pmaToolkit.settings.cacheSettings.
      hostProtocol = "`https`**"**
      hostname = ""
      urlBeacons = ""
      urlLocations = ""

Features

Heading

The framework outputs the current heading in 10 degree steps as a NSNotification (`didUpdateHeading`). There are two values that come along with the notification for an updated heading: `actualHeadingDegrees` and `calculatedHeadingRadians`, with the latter already converted for the actual orientation of the building.

Ranging beacons

The following NSNotification-based notifications are being sent:
`locationChanged` with `currentLocation as pmaLocation`
This event will only be sent in case a location change happened, in other words, it will not fire while a user stays in the same space in a gallery (except if that location happens to be at the intersection of two galleries, so the signal could bounce)

`locationUnknown` with `lastKnownLocation as pmaLocation` (optional, can be nil)
This notification is only sent every 30s in case no location can be determined. Since we placed our beacons at the entrance ways of a gallery, it can certainly happen that the device looses its signal.
This event should be treated with care for this reason.

Logging

The framework has four log levels with 4 being the most verbose. By default, it is set to 3. If you want to make changes, use `pmaToolkit.settings.logLevel = X`.

To use the supplied logger, simply call

```
pmaToolkit.logDebug("")
pmaToolkit.logInfo("")
pmaToolkit.logError("")
```