

iOSdevelopment usingSwift

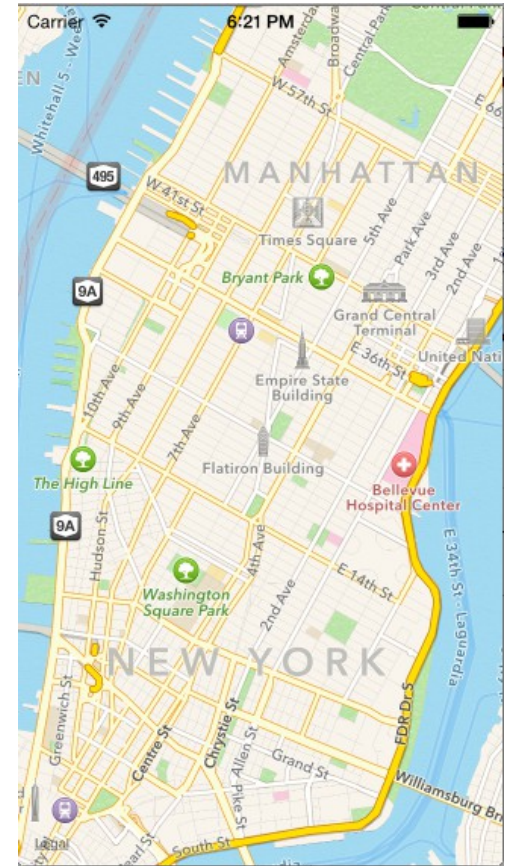
Class 13

MKMapView, MKAnnotation, CLGeocoder,
CLPlacemark, MKPointAnnotation

MKMapView

Embeddable map interface

- centers on a given Coordinate
- displays an area of a specific size
- can have annotations added to it



MKMapViewDelegate Protocol

defines a set of optional methods
that you can use to receive map-
related update messages

CLPlacemark

Stores placemark data for a given latitude and longitude.

e.g. country, state, city, and street address associated with the specified coordinate.

CLLocationCoordinate2D

A structure that contains a geographical coordinate

1.Latitude

2.Longitude

MKCoordinateSpanMake

1.-LatitudeDelta

- ▯ -The amount of north-to-south distance (measured in degrees) to use for the span

2.LongitudeDelta

- ▯ -The amount of east-to-west distance (measured in degrees) to use for the span

MKCoordinateRegion

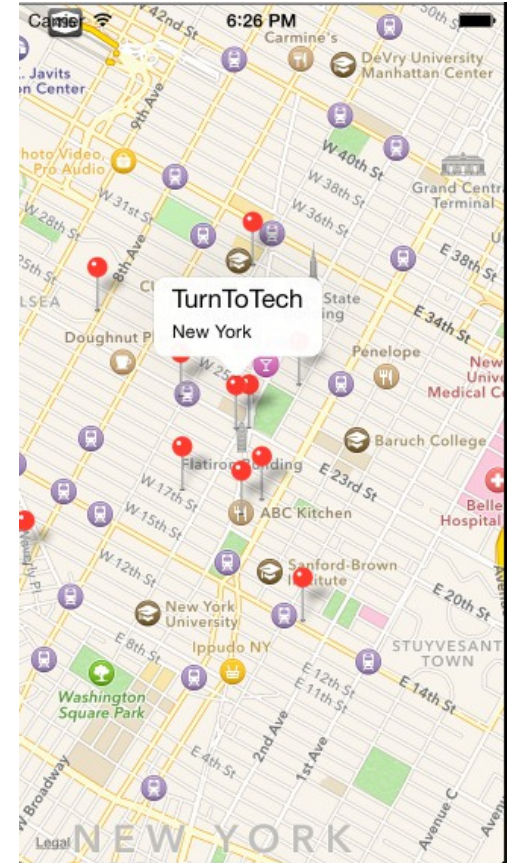
Defines region visible on the screen

- CLLocationCoordinate2D center
- MKCoordinateSpan span

MKPointAnnotation

Defines a concrete annotation object located at a specified point

- coordinate
- title
- subtitle



CLGeocoder

provides services for converting between a coordinate and an address

- makes an async request
- too many requests in a short period of time may cause some of the requests to fail
- takes:
 - address string
 - CLGeocodeCompletionHandler

CLGeocodeCompletionHandler

A block to be called when a geocoding request is complete.

Takes:

- placemark
 - an array of CLPlacemark objects
- error

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CLPlacemark

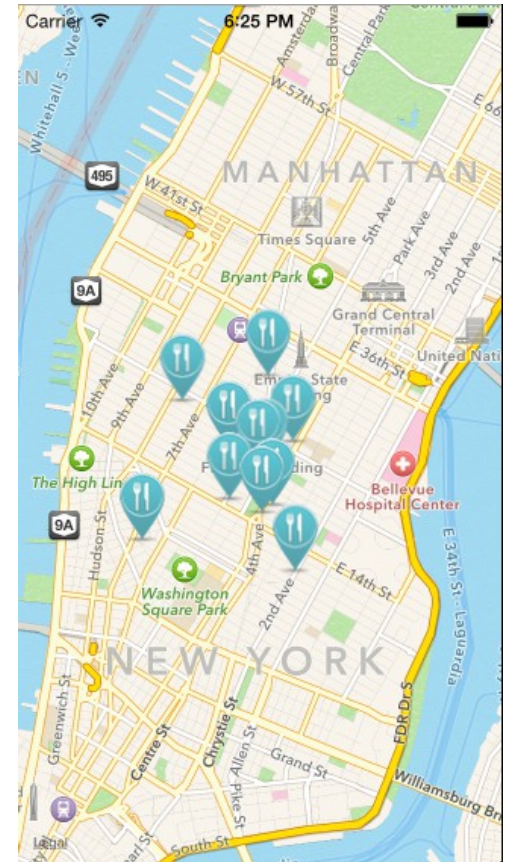
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MKAnnotationView

responsible for presenting
annotations visually in a
map view

-requires MKAnnotation protocol



Assignment

Add an image icon to your annotation similar to the example below

