

What's New in MapKit

Session 206

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Agenda

What's New in MapKit

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What's New in MapKit

Improvements to Existing API

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What's New in MapKit

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Transit

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Improvements to Existing API

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Flyover

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Transit

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Demos

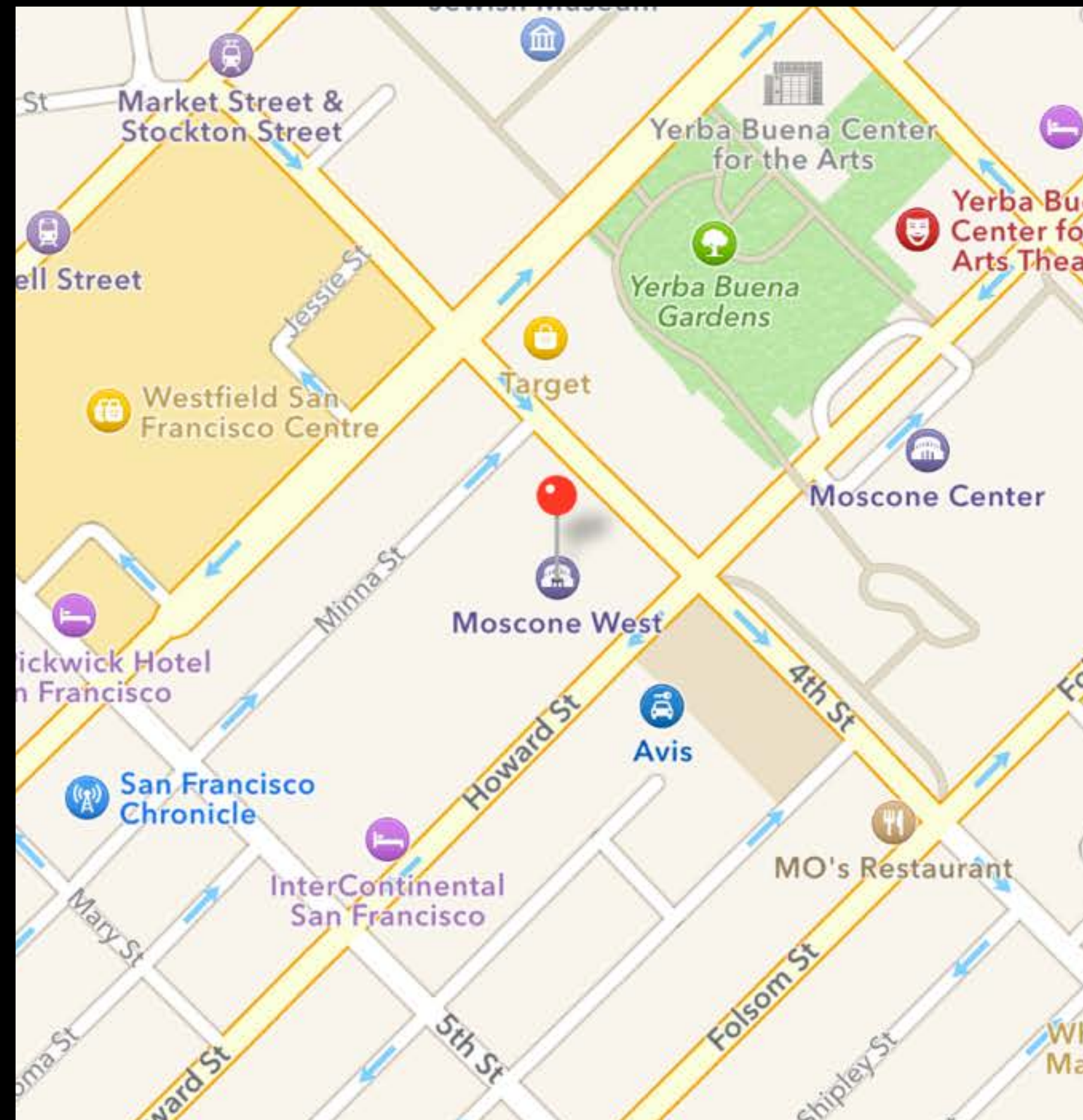
Improvements to Existing API

Pin Color Customizations

Improvements to existing API

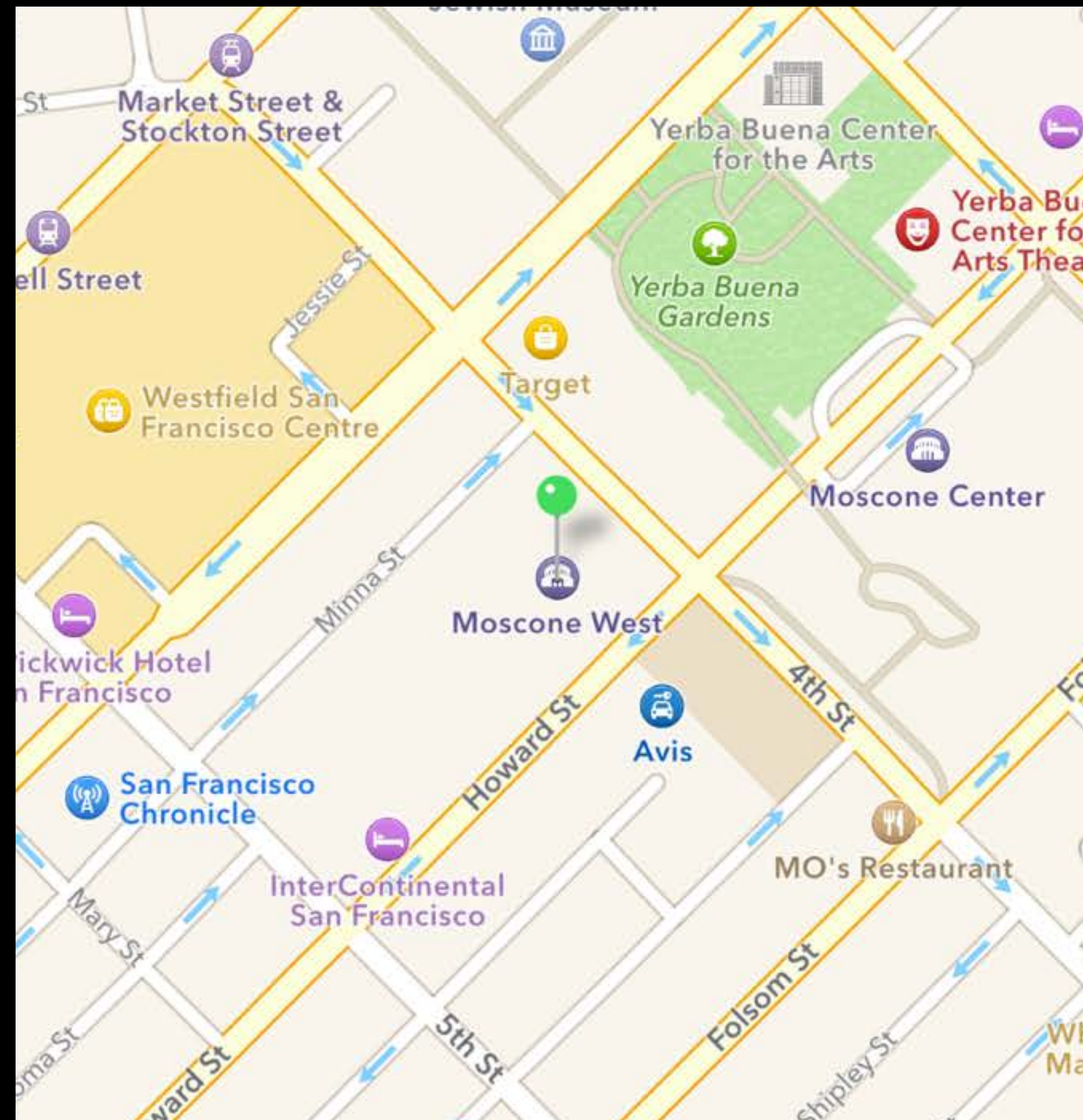
Pin Color Customizations

Improvements to existing API



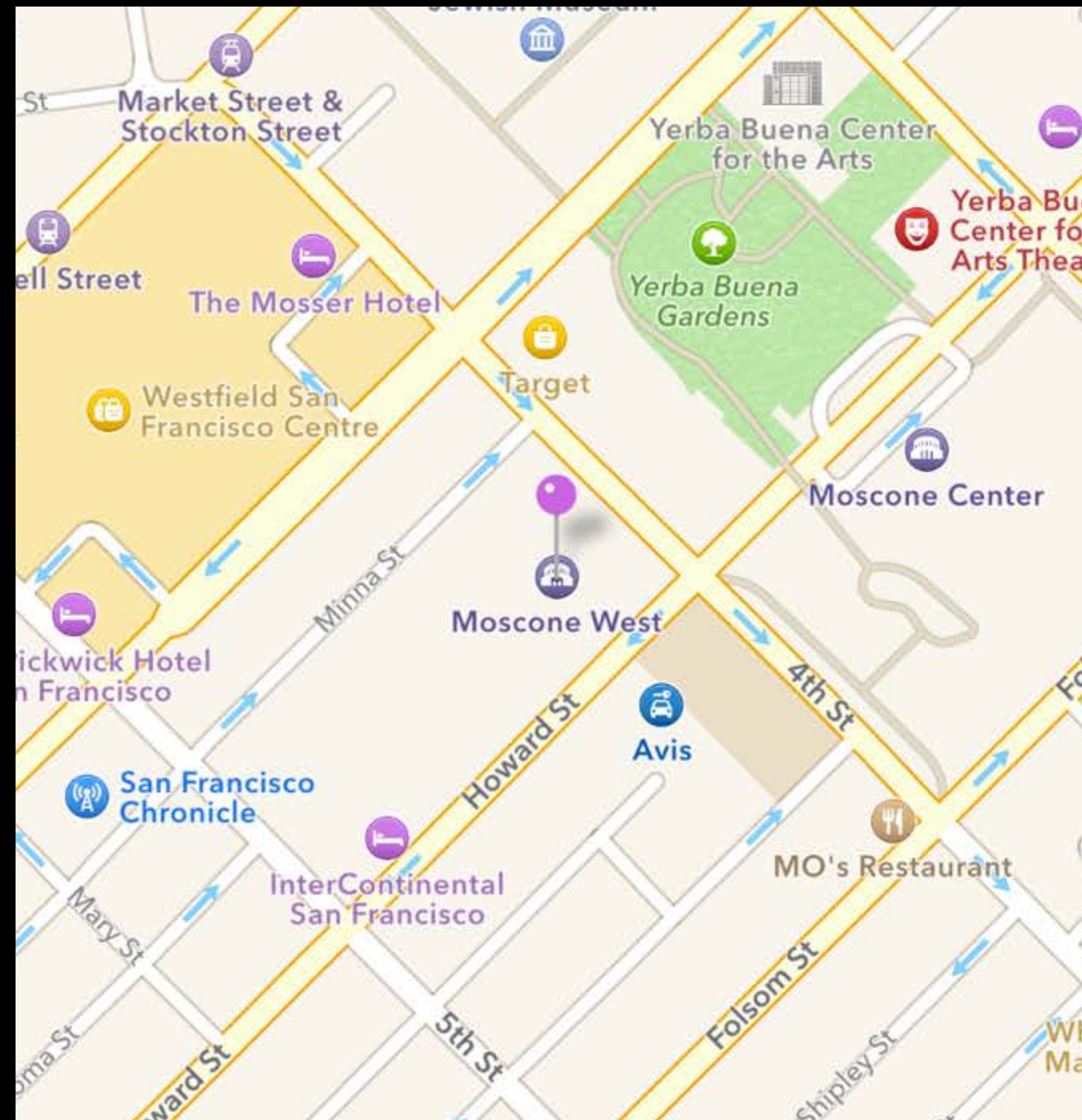
Pin Color Customizations

Improvements to existing API



Pin Color Customizations

Improvements to existing API



Pin Color Customizations

Improvements to existing API

New API to customize pin colors



Pin Color Customizations

Improvements to existing API



New API to customize pin colors

- On iOS — `@availability(iOS 9.0, *) var pinTintColor: UIColor!`

Pin Color Customizations

Improvements to existing API



New API to customize pin colors

- On iOS — `@availability(iOS 9.0, *) var pinTintColor: UIColor!`
- On OSX — `@availability(OSX 10.11, *) var pinTintColor: NSColor!`

Pin Color Customizations

Improvements to existing API

```
var pinColor: MKPinAnnotationColor
```



Callout Customizations

Improvements to existing API

Callout Customizations

Improvements to existing API

Callouts

Callout Customizations

Improvements to existing API

Callouts

Callout Customizations

Improvements to existing API

Callouts

- Title



Callout Customizations

Improvements to existing API

Callouts

- Title
- Subtitle

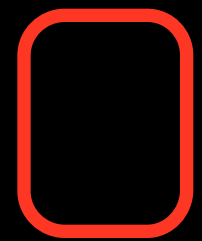


Callout Customizations

Improvements to existing API

Callouts

- Title
- Subtitle
- Right accessory view



Callout Customizations

Improvements to existing API

Callouts

- Title
- Subtitle
- Right accessory view
- Left accessory view



Callout Customizations

Improvements to existing API

Callouts

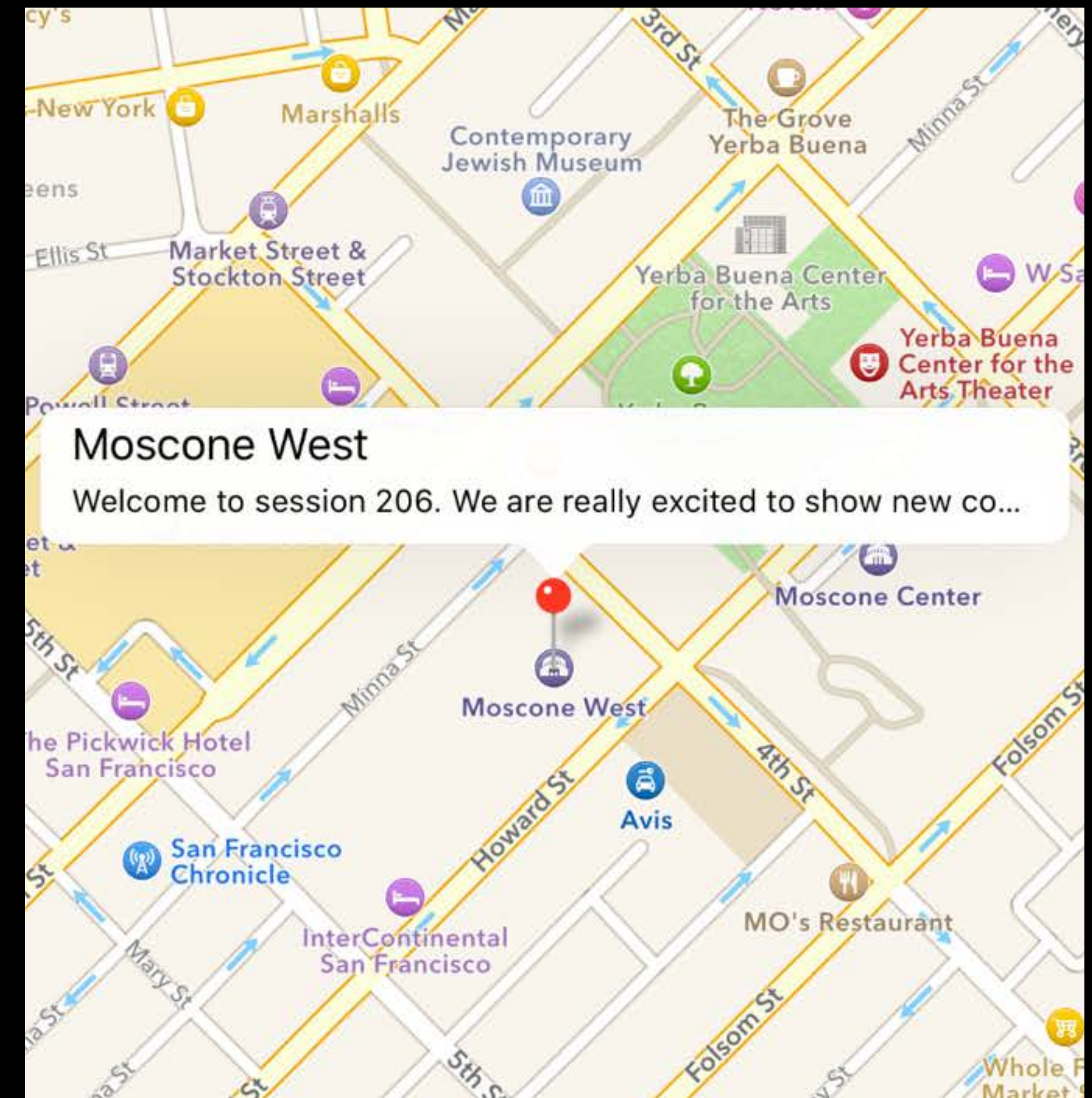
- Title
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Callout Customizations

Improvements to existing API

Callouts

Content



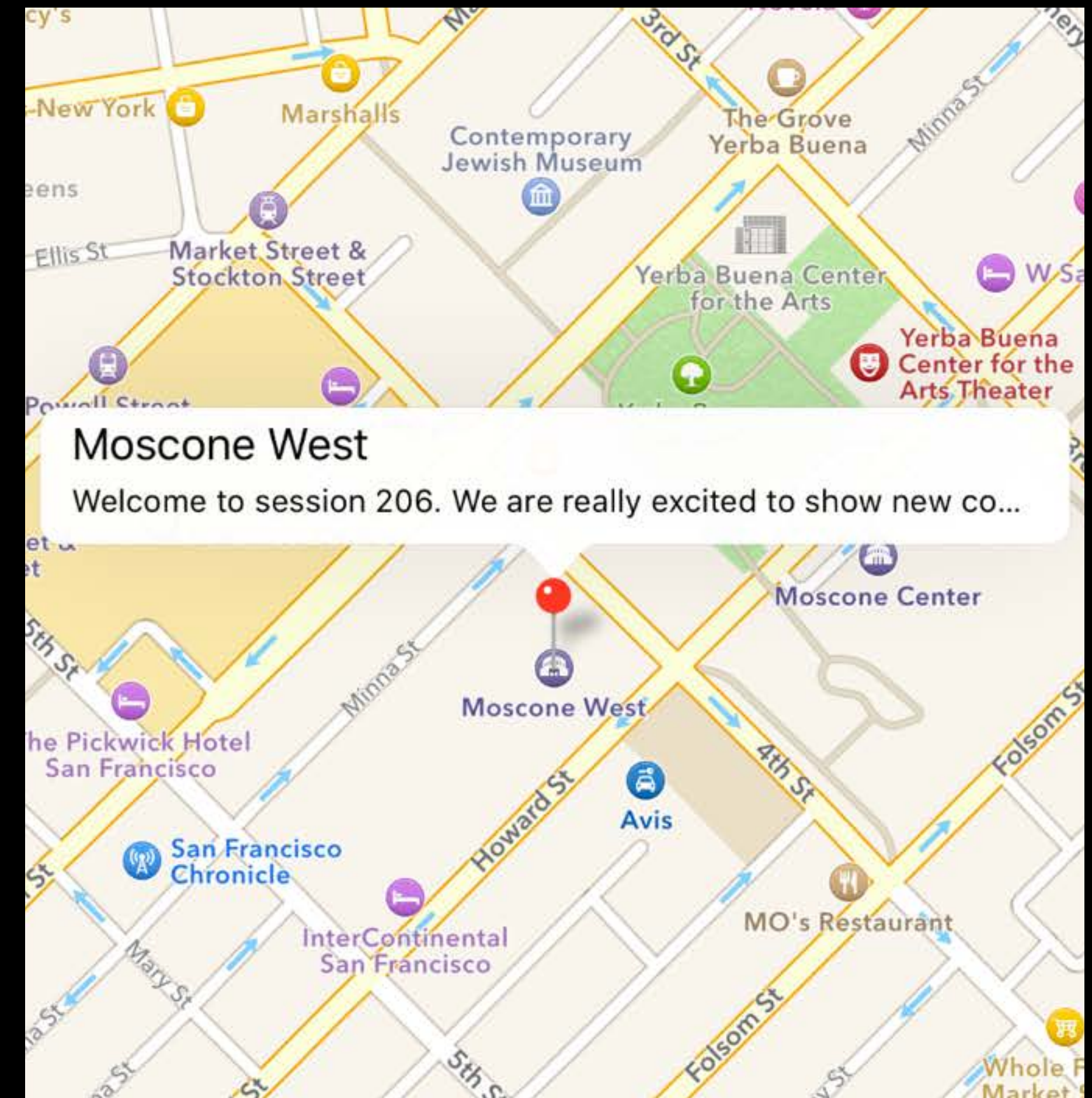
Callout Customizations

Improvements to existing API

Callouts

Content

Customize to fit your apps need



Callout Customizations

Improvements to existing API

Callout Customizations

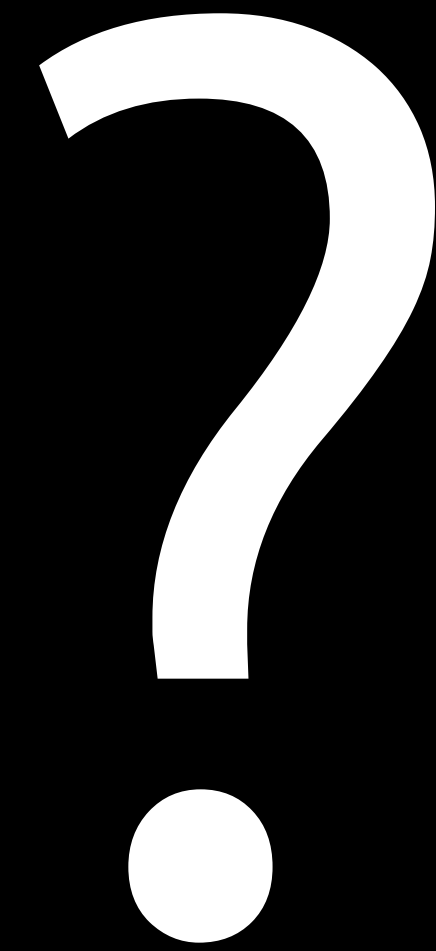
Improvements to existing API

Callout Customizations

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Callout Customizations

Improvements to existing API

New API to customize callouts



Callout Customizations

Improvements to existing API



New API to customize callouts

- On iOS

```
@availability(iOS 9.0, *) var detailCalloutAccessoryView: UIView?
```


Callout Customizations

Improvements to existing API



New API to customize callouts

- On iOS

```
@availability(iOS 9.0, *) var detailCalloutAccessoryView: UIView?
```

- On OSX

```
@availability(OSX 10.11, *) var detailCalloutAccessoryView: NSView?
```


Callout Customizations

Improvements to existing API



Sample Code

Callout Customizations

Improvements to existing API



Sample Code

```
func mapView(mapView: MKMapView, viewForAnnotation annotation: MKAnnotation) ->
MKAnnotationView? {
    ...
    view = MKPinAnnotationView(annotation: annotation, reuseIdentifier: identifier)
    view.canShowCallout = true
    view.detailCalloutAccessoryView = UIImageView(image: UIImage(named: "tajMahal"))
    ...
}
```

Callout Customizations

Improvements to existing API



Sample Code

```
func mapView(mapView: MKMapView, viewForAnnotation annotation: MKAnnotation) ->
MKAnnotationView? {
    ...
    view = MKPinAnnotationView(annotation: annotation, reuseIdentifier: identifier)
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Callout Customizations

Improvements to existing API



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```

Map Customizations

Improvements to existing API

Map Customizations

Improvements to existing API

New API to customize your Map View



Map Customizations

Improvements to existing API



New API to customize your Map View

- Show / Hide Traffic

```
mapView.showsTraffic = true
```

Map Customizations

Improvements to existing API



New API to customize your Map View

- Show / Hide Traffic

```
mapView.showsTraffic = true
```

- Show / Hide Scale

```
mapView.showsScale = true
```


Map Customizations

Improvements to existing API



New API to customize your Map View

- Show / Hide Traffic

```
mapView.showsTraffic = true
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- Show / Hide Scale

```
mapView.showsScale = true
```

- Show / Hide Compass

```
mapView.showsCompass = true
```



Map Customizations

Improvements to existing API



New API to customize your Map View

- Show / Hide Traffic

```
mapView.showsTraffic = true
```

- Show / Hide Scale

```
mapView.showsScale = true
```

- Show / Hide Compass

```
mapView.showsCompass = true
```

- Similar to existing API

```
var showsPointsOfInterest: Bool
```

```
var showsBuildings: Bool
```

Miscellaneous

Improvements to MapKit

Miscellaneous

Improvements to MapKit

Time zone support

Miscellaneous

Improvements to MapKit

Time zone support

CLGeocoder

Miscellaneous

Improvements to MapKit

Time zone support

CLGeocoder

MKLocalSearch

Miscellaneous

Improvements to MapKit

Time zone support

CLGeocoder

MKLocalSearch

Swift improvements



Miscellaneous

Improvements to MapKit

Time zone support

`CLGeocoder`

`MKLocalSearch`

Swift improvements

WatchKit support



Transit

What Transit Means to MapKit

Transit

What Transit Means to MapKit

Maps Transit features

Transit in Maps App

What Transit Means to MapKit

Maps Transit features

Transit in Maps App

User experience is critical

What Transit Means to MapKit

Maps Transit features

Transit in Maps App

User experience is critical

Leverage Maps to provide transit direction
in your app

Transit ETA Requests

Transit

Transit ETA Requests

Transit

MKDirectionsTransportType

...

```
static var Automobile: MKDirectionsTransportType { get }  
static var Walking: MKDirectionsTransportType { get }  
static var Any: MKDirectionsTransportType { get }
```

...

Transit ETA Requests



Transit

MKDirectionsTransportType

...

```
static var Automobile: MKDirectionsTransportType { get }
static var Walking: MKDirectionsTransportType { get }
static var Transit: MKDirectionsTransportType { get }
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...

Transit ETA Requests



Transit

MKDirectionsTransportType

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static var Automobile: MKDirectionsTransportType { get }
static var Walking: MKDirectionsTransportType { get }
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static var Any: MKDirectionsTransportType { get }
```

...

Note — New type is only available for ETA Requests

Transit ETA Requests

Transit



MKDirectionsTransportType

In addition to ETA you will get

Transit ETA Requests

Transit



MKDirectionsTransportType

In addition to ETA you will get

- Expected Arrival Time

Transit ETA Requests

Transit



MKDirectionsTransportType

In addition to ETA you will get

- Expected Arrival Time
- Expected Departure Time

Transit ETA Requests

Transit

Sample Code

Transit ETA Requests

Transit

Sample Code

```
func getTransitETA(){
    let request = MKDirectionsRequest()
    /*          Set Source          */
    /*          Set Destination     */

    //Set Transport Type to be Transit
    request.transportType = MKDirectionsTransportType.Transit
    let directions = MKDirections(request: request)
    directions.calculateETAWithCompletionHandler { response, error in
        // Handle Response
    }
}
```

Transit ETA Requests

Transit

Sample Code

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func getTransitETA(){
    let request = MKDirectionsRequest()
    /*          Set Source          */
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    request.transportType = MKDirectionsTransportType.Transit
    let directions = MKDirections(request: request)
    directions.calculateETAWithCompletionHandler { response, error in
        // Handle Response
    }
}
```

Launch Maps into Transit Mode

Transit

Launch Maps into Transit Mode

Transit

MKLaunchOptionsDirectionsModeKey

Launch Maps into Transit Mode

Transit

```
MKLaunchOptionsDirectionsModeKey
```

```
@availability(iOS 6.0, *)
```

```
let MKLaunchOptionsDirectionsModeDriving: String
```

```
@availability(iOS 6.0, *)
```

```
let MKLaunchOptionsDirectionsModeWalking: String
```

Launch Maps into Transit Mode



Transit

```
MKLaunchOptionsDirectionsModeKey
```

```
@availability(iOS 6.0, *)
```

```
let MKLaunchOptionsDirectionsModeDriving: String
```

```
@availability(iOS 6.0, *)
```

```
let MKLaunchOptionsDirectionsModeWalking: String
```

```
@availability(iOS 9.0, *)
```

```
let MKLaunchOptionsDirectionsModeTransit: String
```

Launch Maps into Transit Mode

Transit

`MKLaunchOptionsDirectionsMode`

Sample code

Launch Maps into Transit Mode

Transit

MKLaunchOptionsDirectionsMode

Sample code

```
func openInMapsTransit(coord:CLLocationCoordinate2D) {  
    var placemark = MKPlacemark(coordinate:coord, addressDictionary: nil)  
    var mapItem = MKMapItem(placemark: placemark)  
    let launchOptions = [MKLaunchOptionsDirectionsModeKey:  
MKLaunchOptionsDirectionsModeTransit]  
    mapItem.openInMapsWithLaunchOptions(launchOptions)  
}
```

Launch Maps into Transit Mode

Transit

MKLaunchOptionsDirectionsMode

Sample code

```
func openInMapsTransit(coord:CLLocationCoordinate2D) {  
    var placemark = MKPlacemark(coordinate:coord, addressDictionary: nil)  
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Launch Maps into Transit Mode

Transit

MKLaunchOptionsDirectionsMode

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Launch Maps into Transit Mode

Transit

MKLaunchOptionsDirectionsMode

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Launch Maps into Transit Mode

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MKLaunchOptionsDirectionsMode

Sample code

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}
```


Demo

New MapKit API

Lesson Learned

New MapKit API

Lesson Learned

New MapKit API

Customize pin annotations

Lesson Learned

New MapKit API

Customize pin annotations

Customize callouts

Lesson Learned

New MapKit API

Customize pin annotations

Customize callouts

Request ETA for Transit

Lesson Learned

New MapKit API

Customize pin annotations

Customize callouts

Request ETA for Transit

Open Maps to provide transit directions

Flyover in MapKit

Elisabeth Lindkvist Software Engineer Maps Team

Flyover in MapKit

Flyover in MapKit

What is Flyover?

Flyover in MapKit

What is Flyover?

How will Flyover work in your app?

Flyover in MapKit

What is Flyover?

How will Flyover work in your app?

Showing the right region

Flyover in MapKit

What is Flyover?

How will Flyover work in your app?

Showing the right region

Using Flyover with existing API

What is Flyover?

What is Flyover?



What is Flyover?



What is Flyover?

Photorealistic 3D models of cities
and landmarks



What is Flyover?

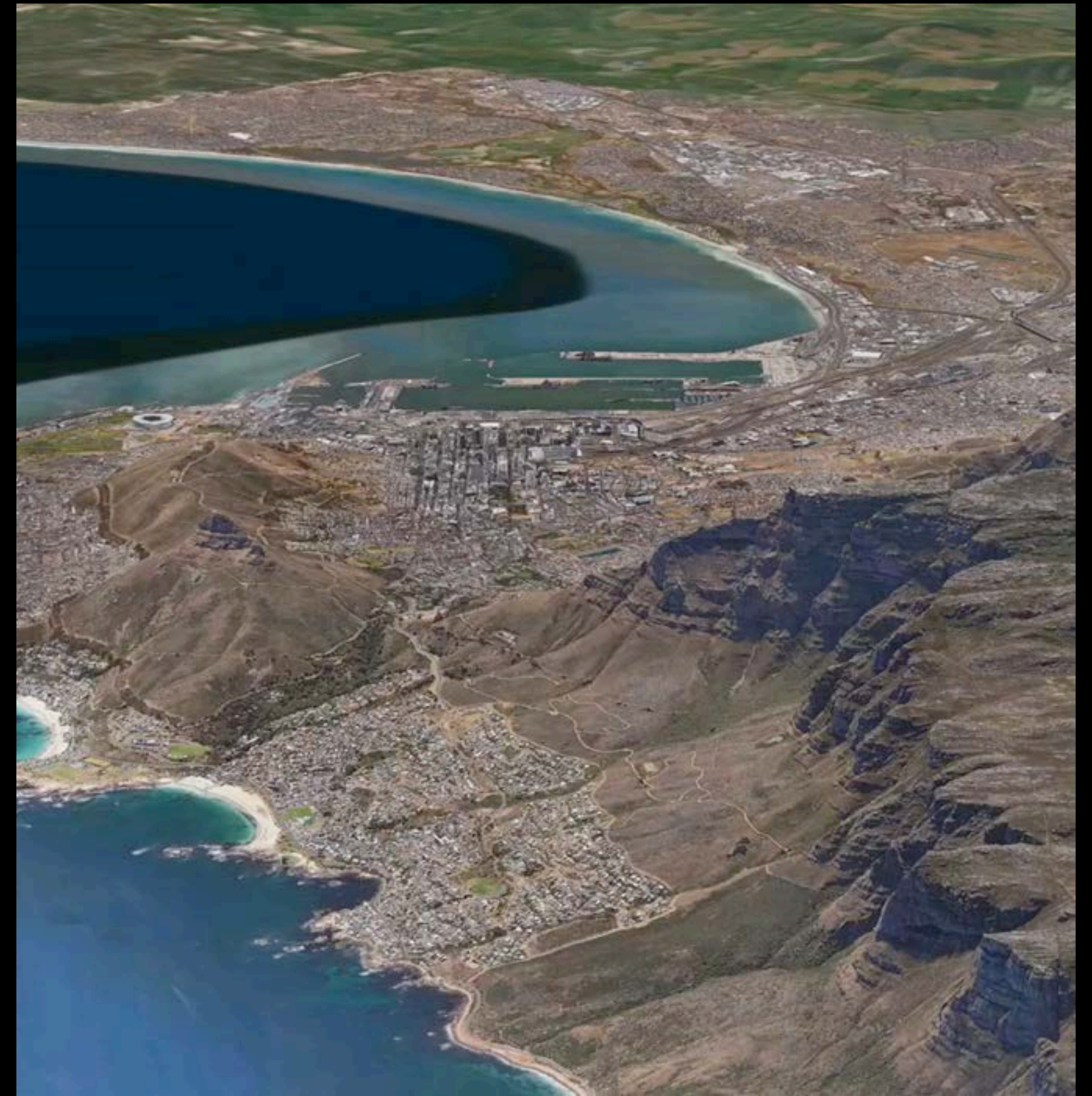
Photorealistic 3D models of cities
and landmarks



What is Flyover?

Photorealistic 3D models of cities
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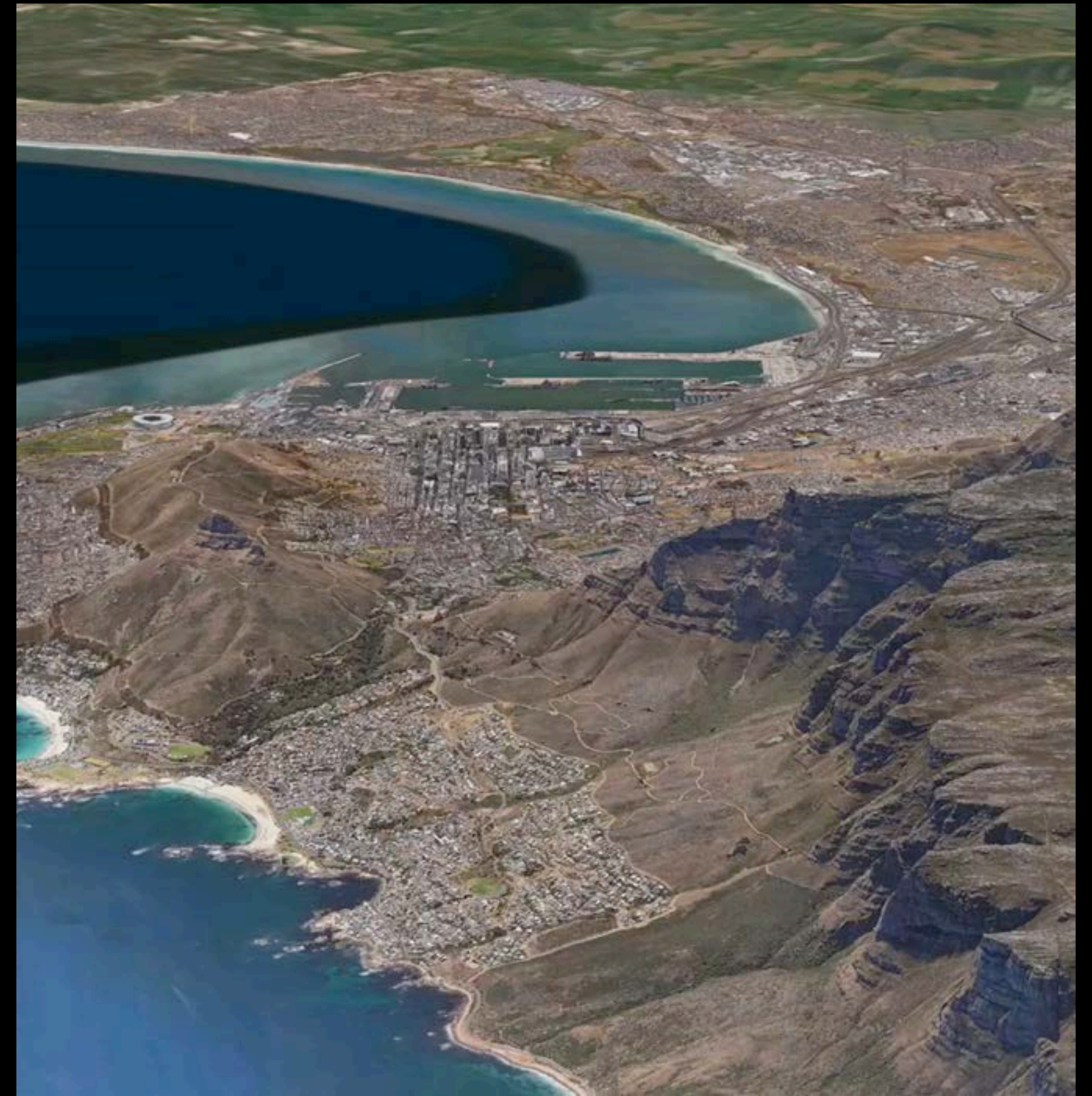
Available in Maps since iOS 6.0



What is Flyover?

Photorealistic 3D models of cities
and landmarks

Available in Maps since iOS 6.0



What is Flyover?



What is Flyover?

Satellite imagery over a 3D terrain model shown where Flyover is not available



What is Flyover?



What is Flyover?

Flyover and satellite imagery is displayed on a globe



What is Flyover?

Flyover and satellite imagery is displayed on a globe

Affects region setting and camera handling



Flyover in Your App

Displaying a Flyover view

Flyover in Your App

Displaying a Flyover view

```
enum MKMapType : UInt {  
    case Standard  
    case Satellite  
    case Hybrid  
}
```

Flyover in Your App

Displaying a Flyover view

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}
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Flyover in Your App

Displaying a Flyover view



```
enum MKMapType : UInt {  
    case Standard  
    case Satellite  
    case Hybrid  
    case SatelliteFlyover  
    case HybridFlyover  
}
```


Flyover in Your App

Displaying a Flyover view



Flyover in Your App

Displaying a Flyover view

Use the SatelliteFlyover map type to display Flyover and satellite imagery on terrain



Flyover in Your App

Displaying a Flyover view

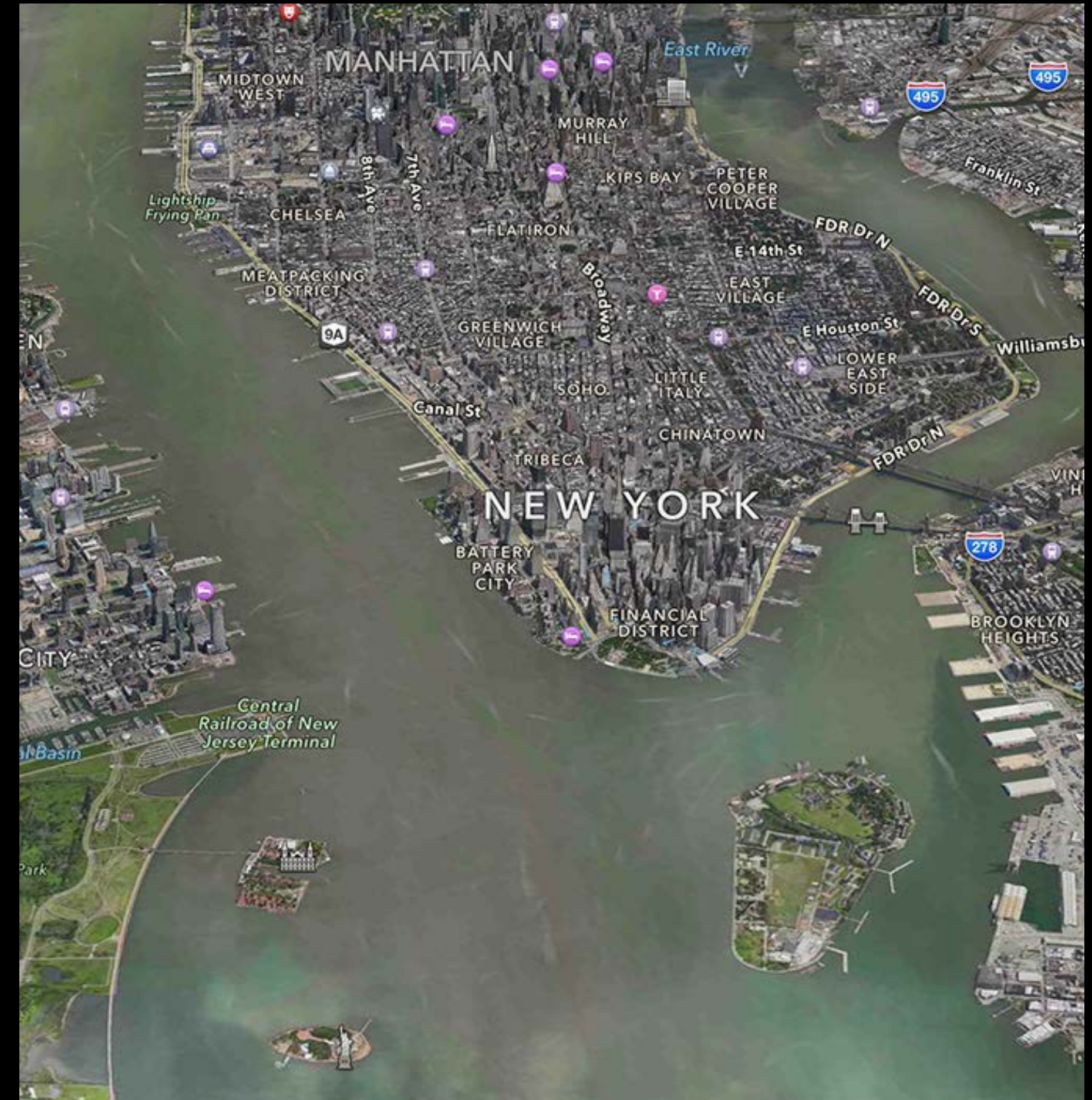
Use the SatelliteFlyover map type to display Flyover and satellite imagery on terrain

```
mapView.mapType = .SatelliteFlyover
```



Flyover in Your App

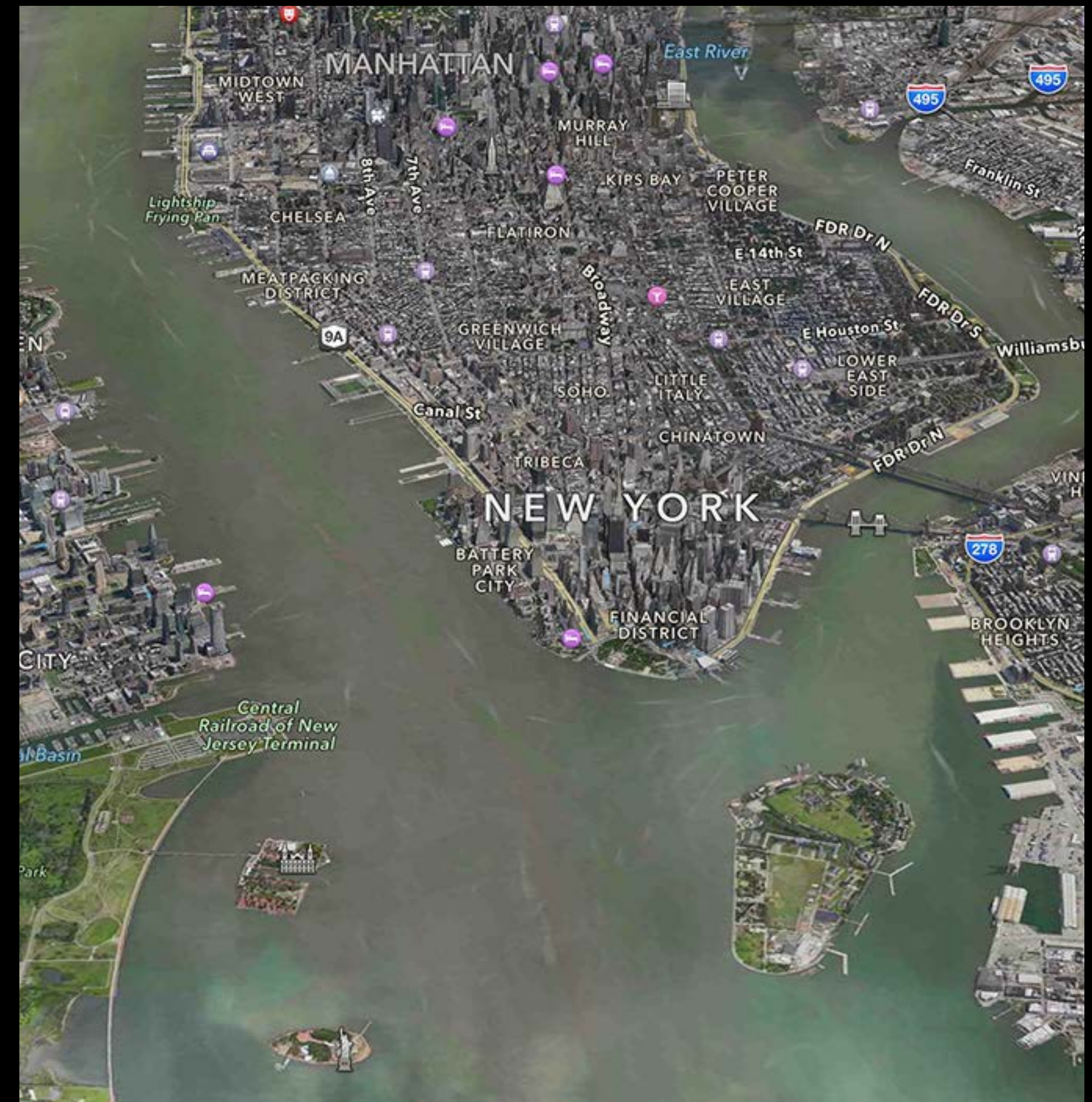
Displaying a Flyover view



Flyover in Your App

Displaying a Flyover view

HybridFlyover adds labels, points of interest, roads and borders

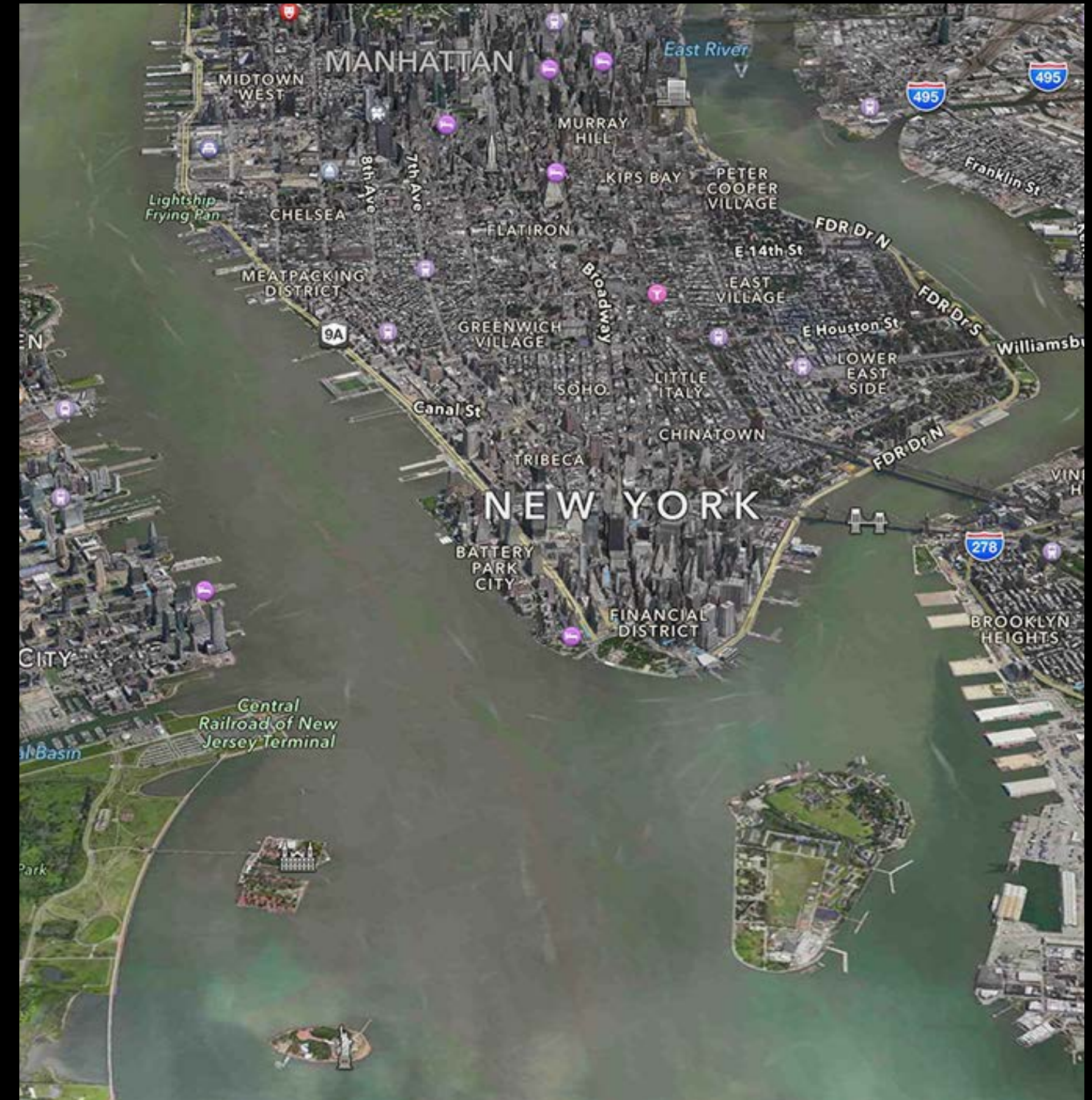


Flyover in Your App

Displaying a Flyover view

HybridFlyover adds labels, points of interest, roads and borders

```
mapView.mapType = .HybridFlyover
```



Region Setting in Flyover

Region Setting in Flyover

Rectangular regions

```
...  
var region: MKCoordinateRegion  
var visibleMapRect: MKMapRect  
  
func setRegion(region: MKCoordinateRegion, animated: Bool)  
func setVisibleMapRect(mapRect: MKMapRect, animated animate: Bool)  
...
```


Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

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Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

Visible region defined as enclosing
rectangle

Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

Visible region defined as enclosing
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Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

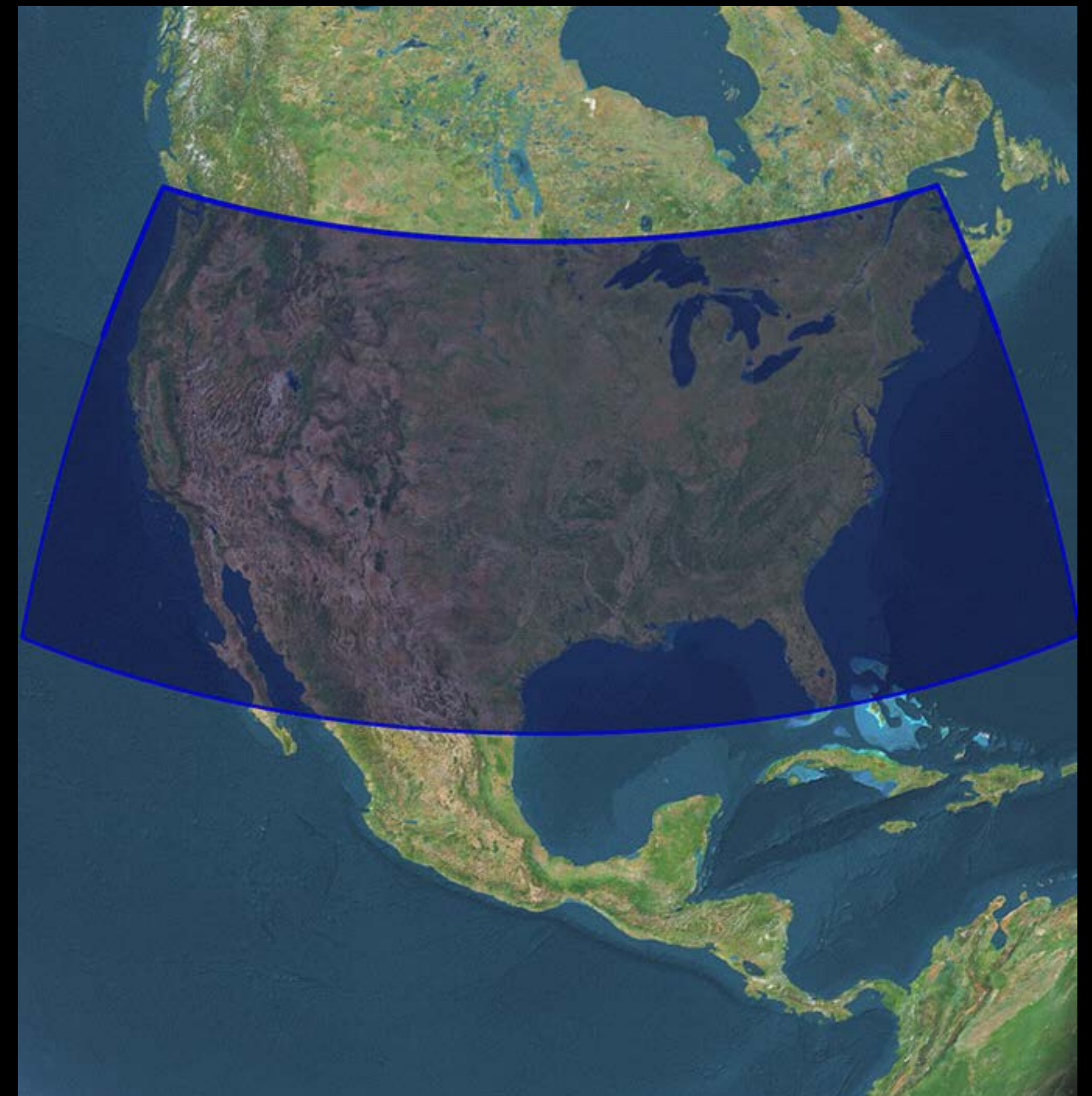
Visible region defined as enclosing
rectangle

Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

Visible region defined as enclosing
rectangle



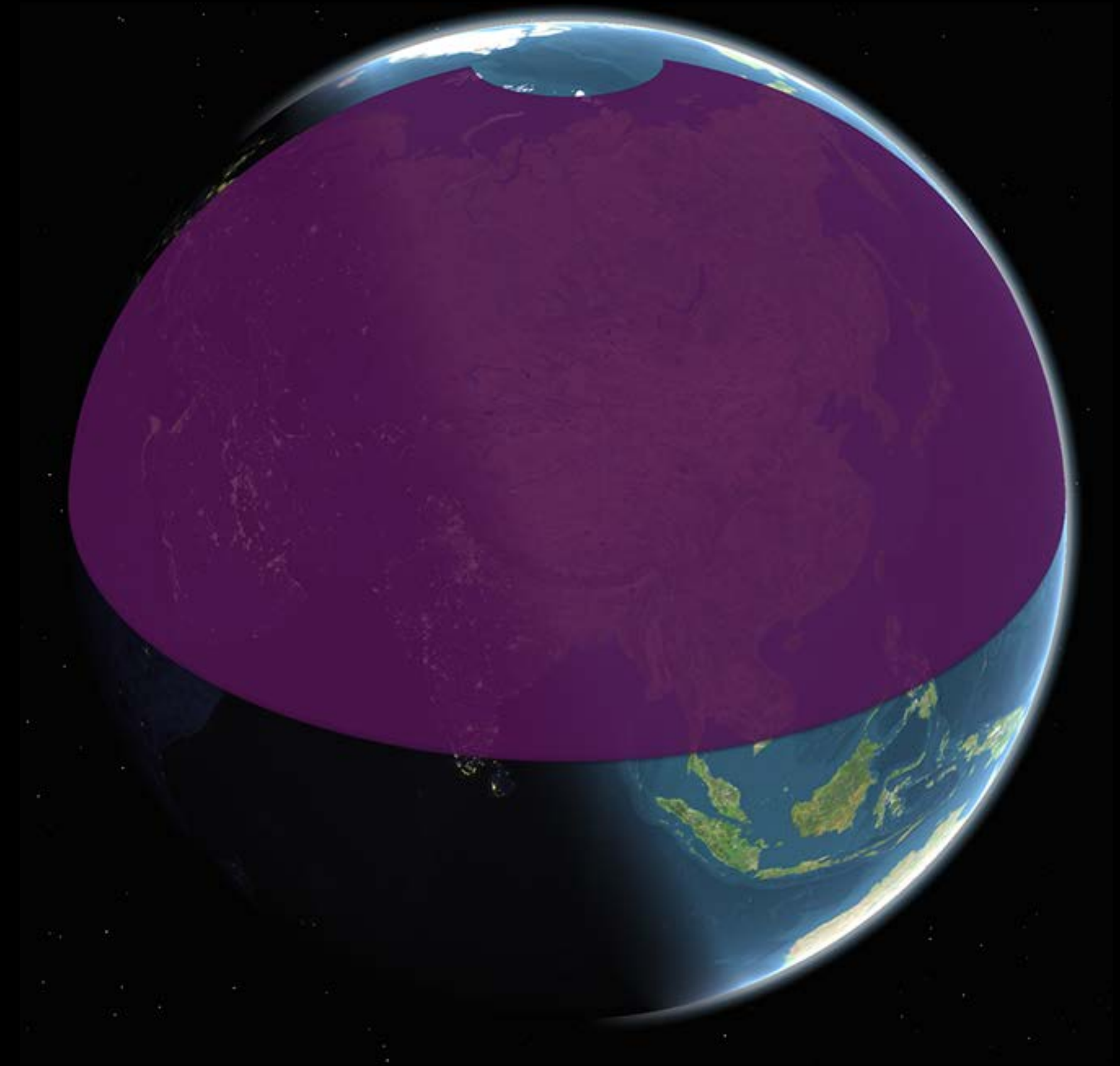
Region Setting in Flyover

Rectangular regions

Visible area is not always rectangular

Visible region defined as enclosing rectangle

Larger regions may be wrapped around the globe



Region Setting in Flyover

Using MKMapCamera

Region Setting in Flyover

Using MKMapCamera

Region Setting in Flyover

Using MKMapCamera

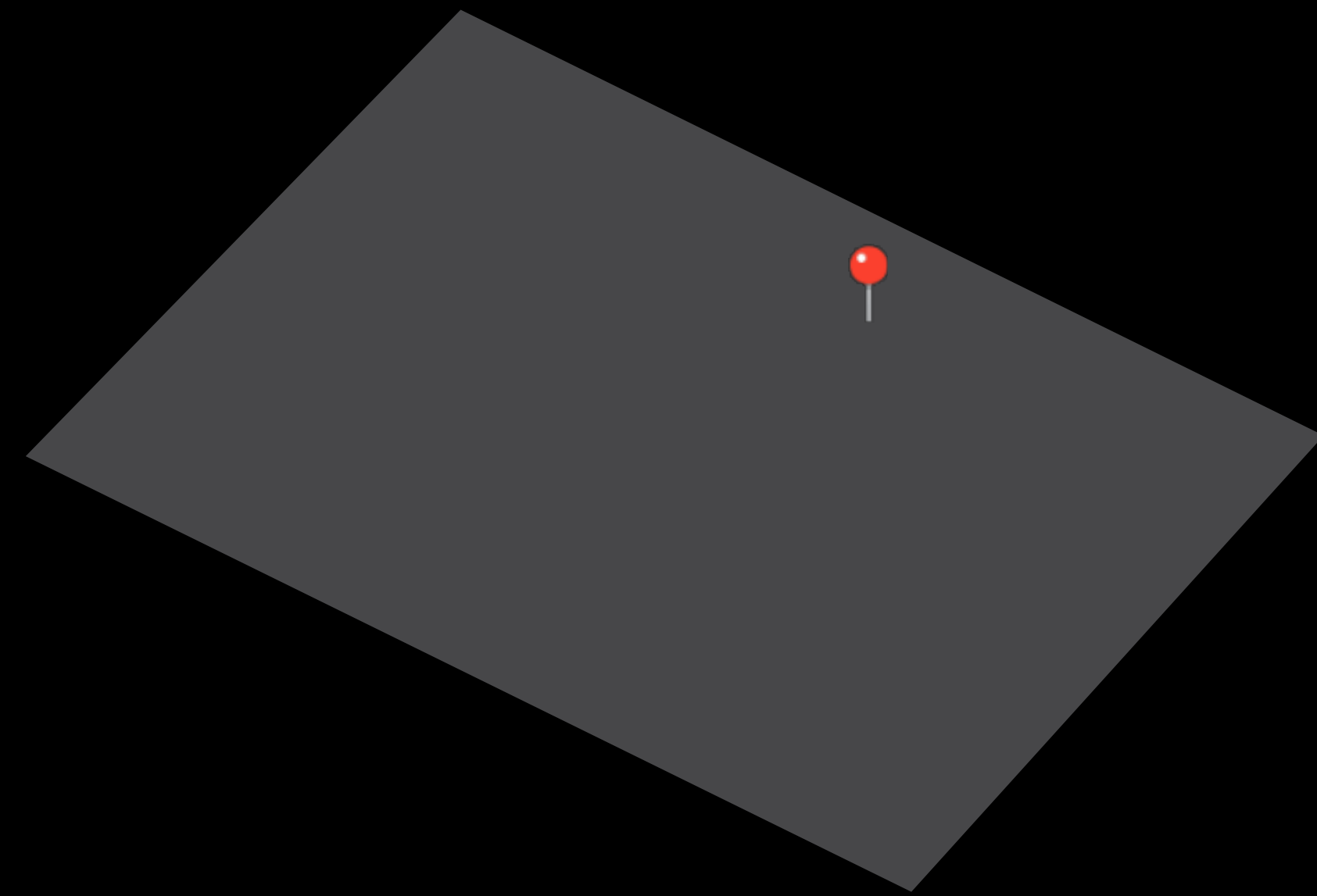
Four basic properties

Region Setting in Flyover

Using MKMapCamera

Four basic properties

```
var centerCoordinate:  
CLLocationCoordinate2D
```



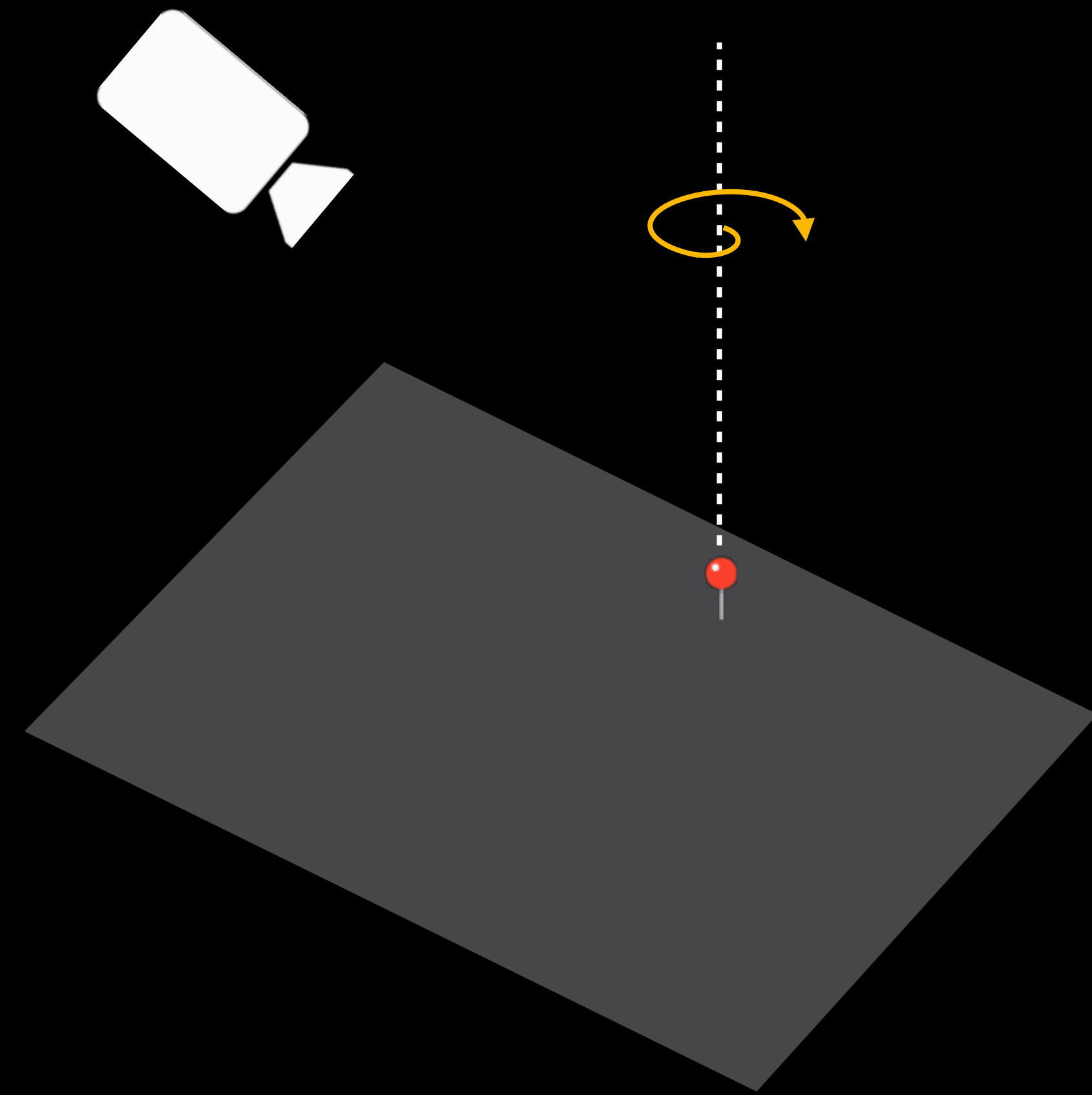
Region Setting in Flyover

Using MKMapCamera

Four basic properties

```
var centerCoordinate:  
CLLocationCoordinate2D
```

```
var heading: CLLocationDirection
```



Region Setting in Flyover

Using MKMapCamera

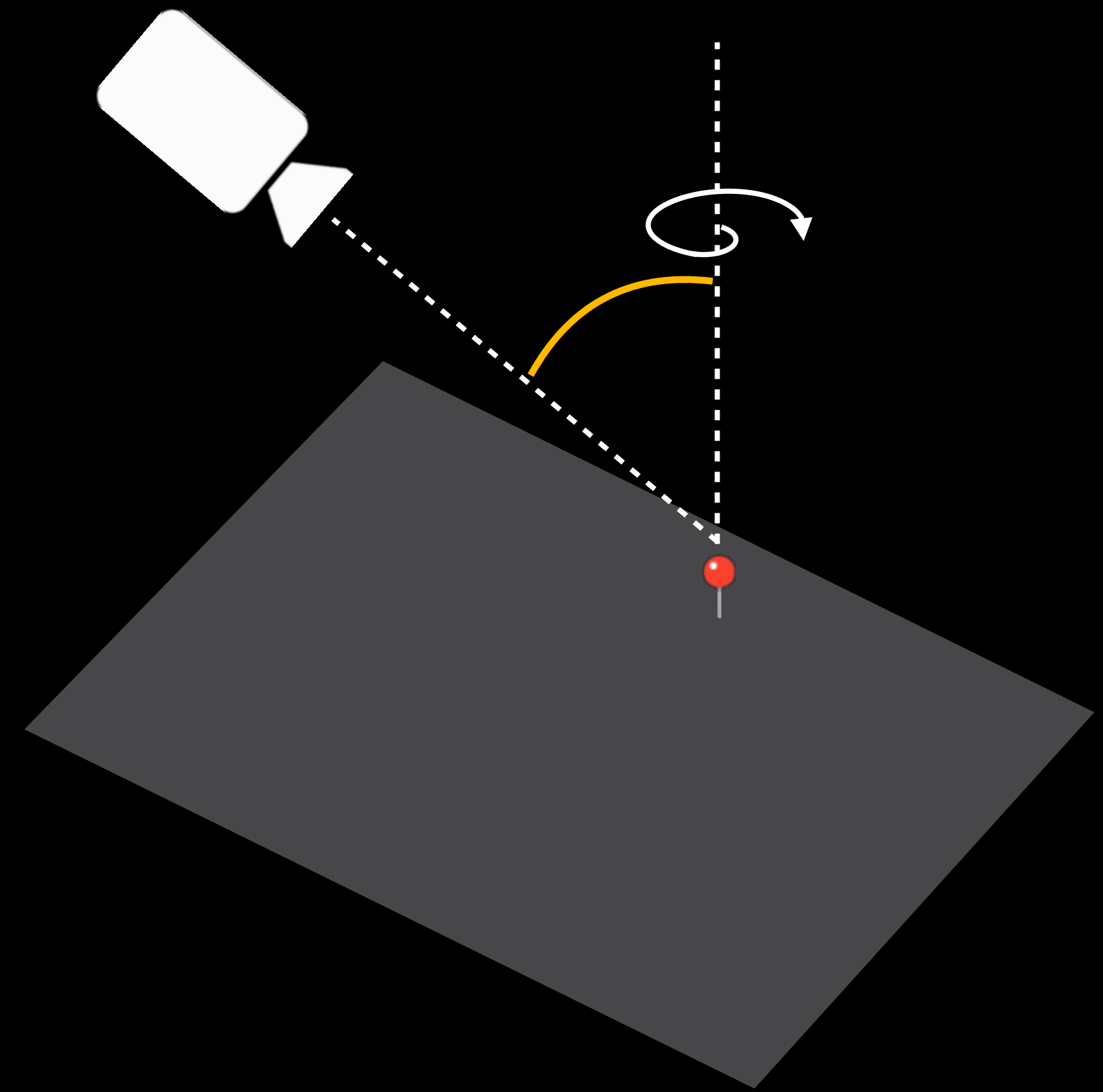
Four basic properties

```
var centerCoordinate:
```

```
CLLocationCoordinate2D
```

```
var heading: CLLocationDirection
```

```
var pitch: CGFloat
```

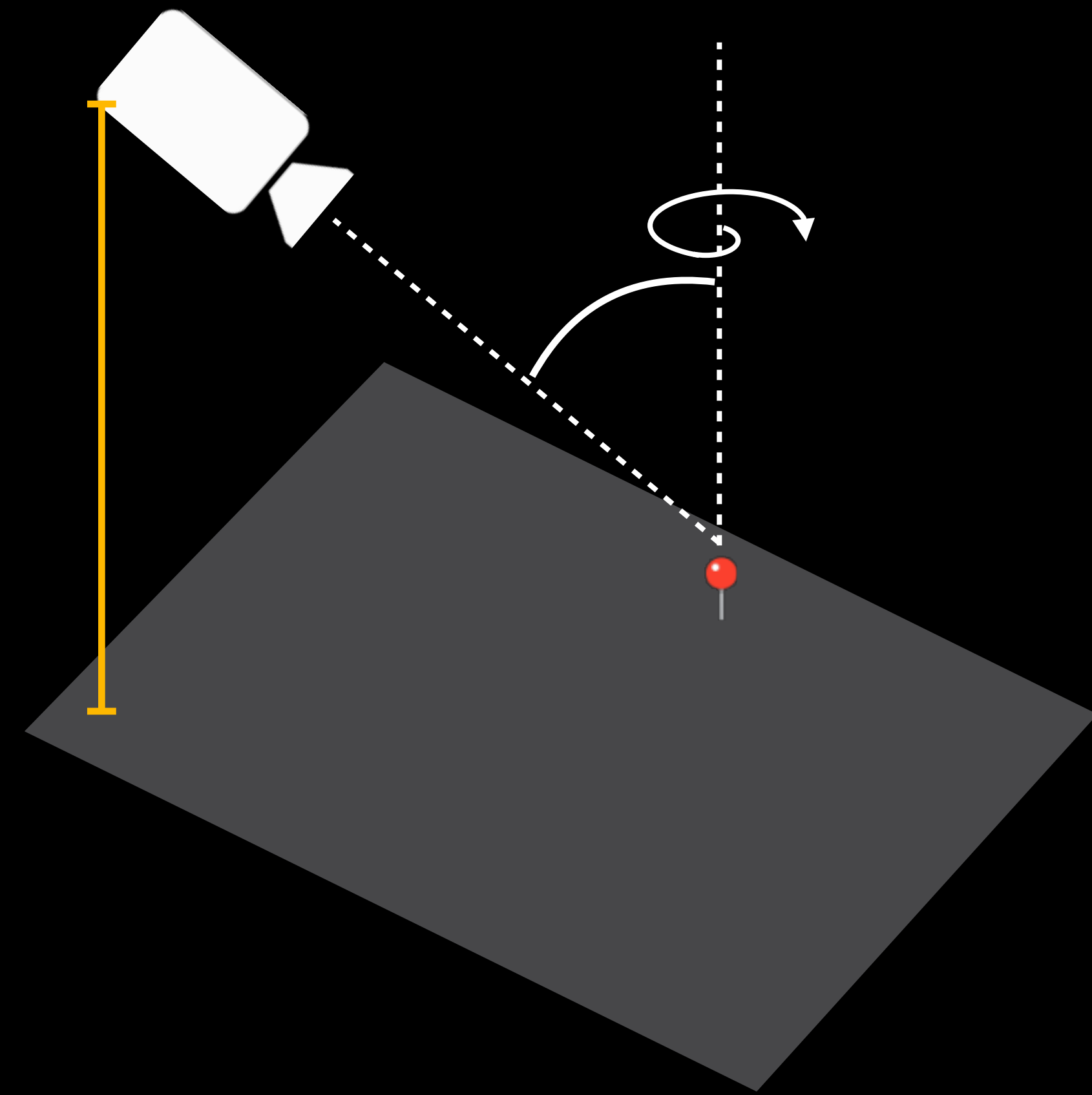


Region Setting in Flyover

Using MKMapCamera

Four basic properties

```
var centerCoordinate:  
CLLocationCoordinate2D  
var heading: CLLocationDirection  
var pitch: CGFloat  
var altitude: CLLocationDistance
```



Region Setting in Flyover

Using MKMapCamera

```
convenience init(lookingAtCenterCoordinate  
    centerCoordinate: CLLocationCoordinate2D,  
    fromEyeCoordinate eyeCoordinate: CLLocationCoordinate2D,  
    eyeAltitude: CLLocationDistance)
```

Region Setting in Flyover

Using MKMapCamera

```
convenience init(lookingAtCenterCoordinate  
    centerCoordinate: CLLocationCoordinate2D,  
    fromEyeCoordinate eyeCoordinate: CLLocationCoordinate2D,  
    eyeAltitude: CLLocationDistance)
```

Region Setting in Flyover

Using MKMapCamera

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convenience init(lookingAtCenterCoordinate  
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```

Region Setting in Flyover

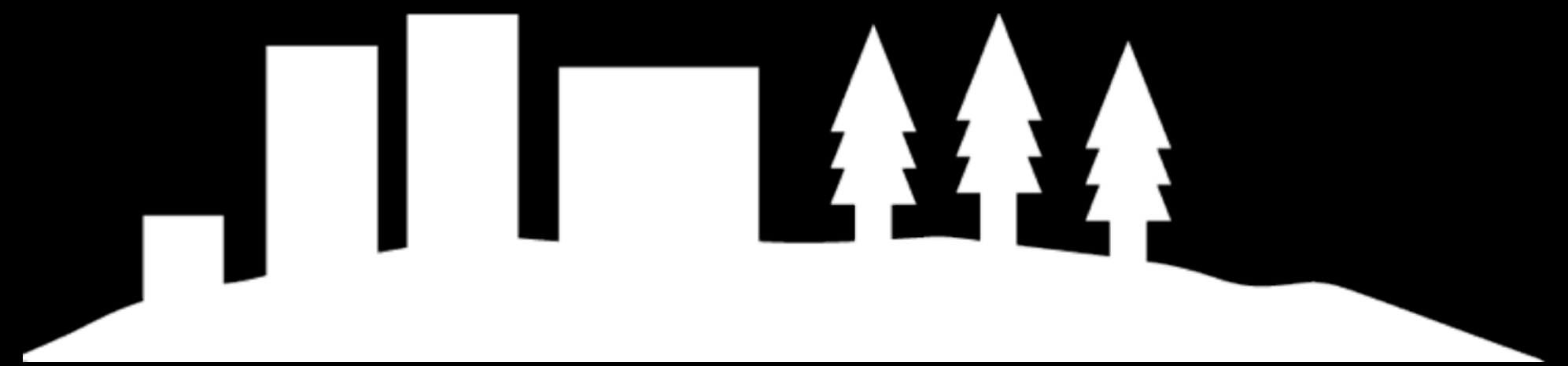
Using MKMapCamera

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```


Region Setting in Flyover

Using MKMapCamera

Terrain and buildings in Flyover makes **distance** between the camera and center coordinate a better measure than altitude



Region Setting in Flyover

Using MKMapCamera



```
convenience init(lookingAtCenterCoordinate  
    centerCoordinate: CLLocationCoordinate2D,  
    fromDistance distance: CLLocationDistance,  
    pitch: CGFloat,  
    heading: CLLocationDirection)
```

Region Setting in Flyover

Using MKMapCamera



convenience

```
init(lookingAtCenterCoordinate  
centerCoordinate:  
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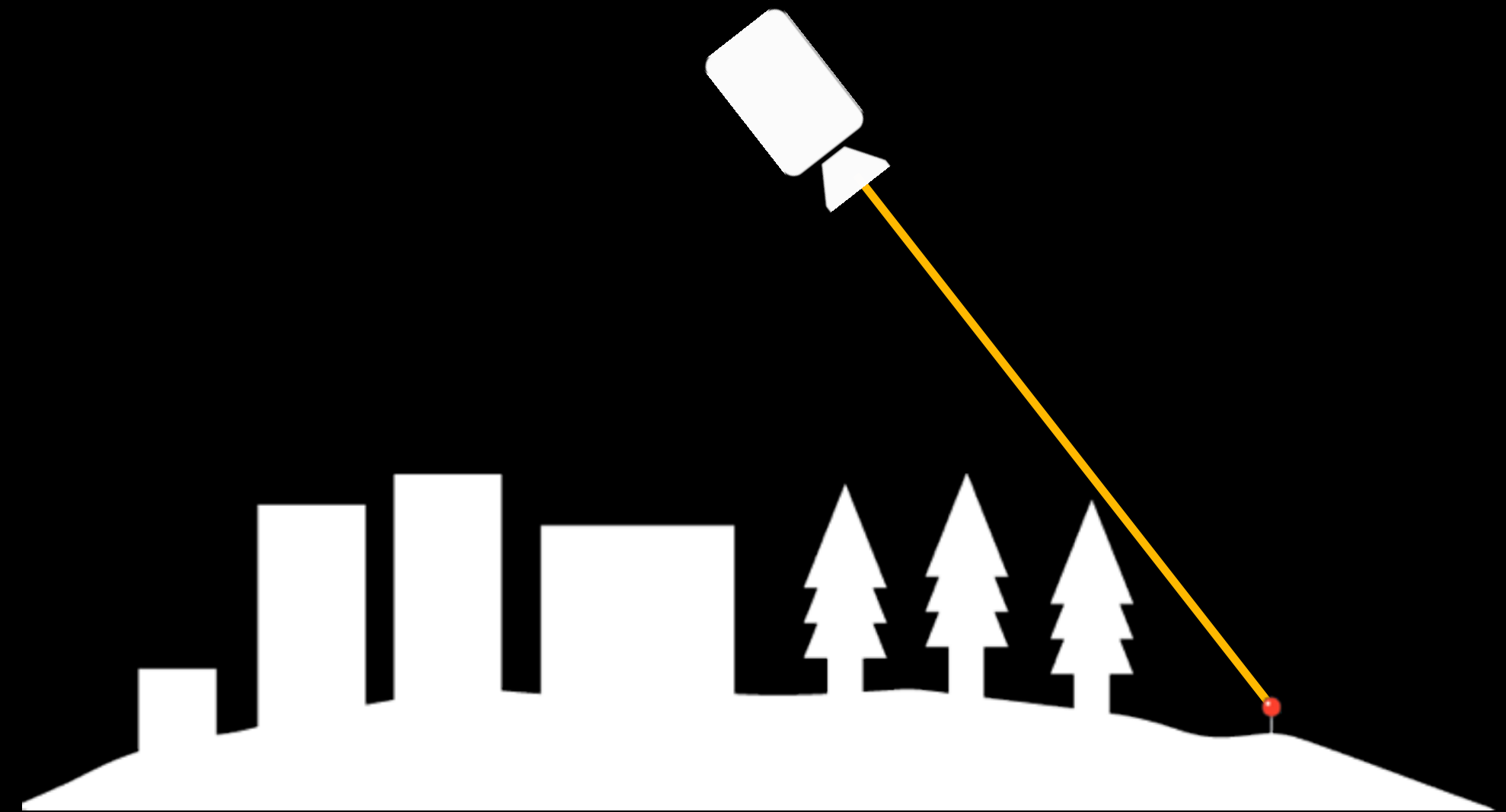
Region Setting in Flyover

Using MKMapCamera



convenience

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```



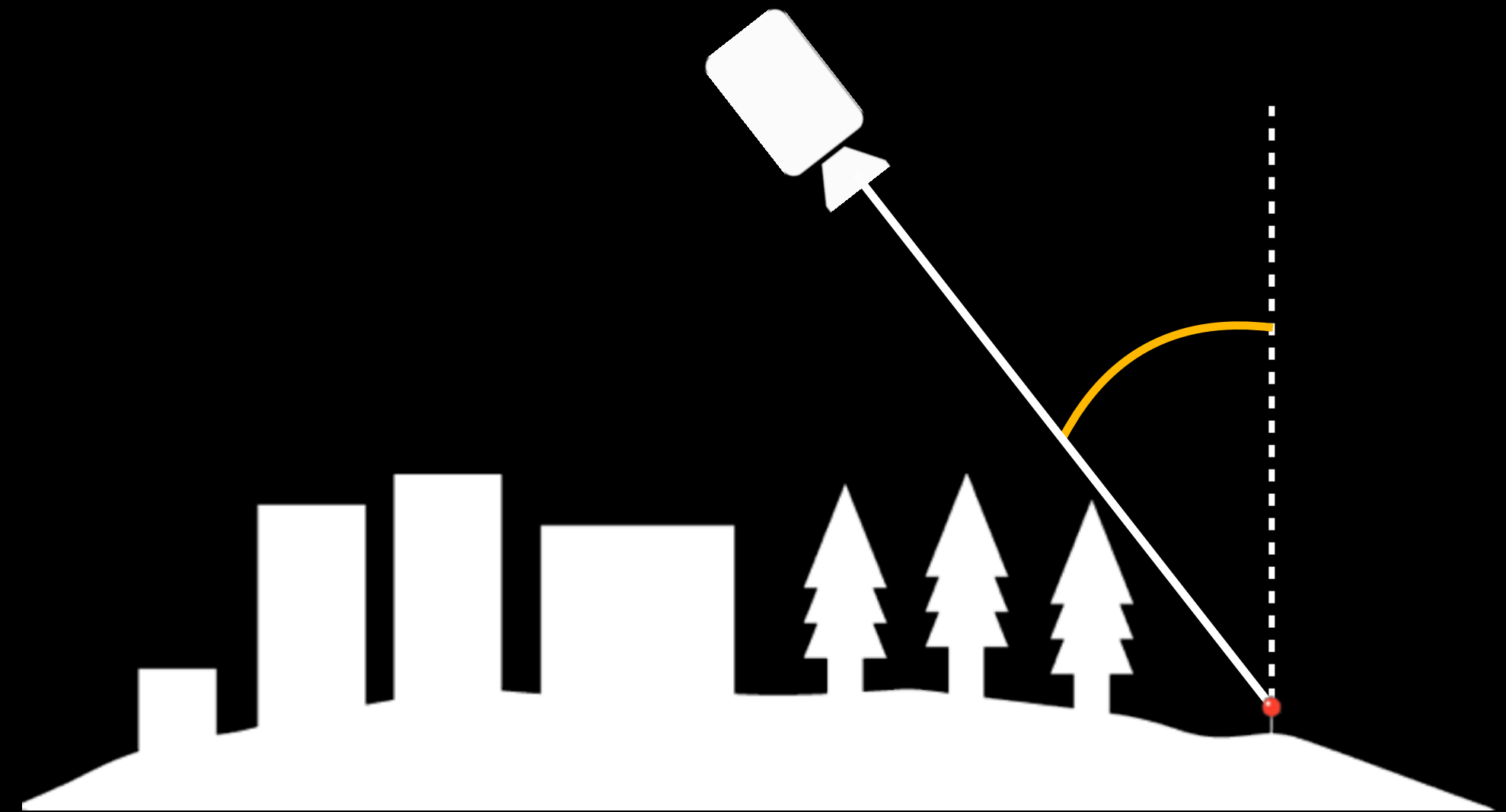
Region Setting in Flyover

Using MKMapCamera



convenience

```
init(lookingAtCenterCoordinate:  
centerCoordinate:  
CLLocationCoordinate2D,  
fromDistance distance:  
CLLocationDistance,  
pitch: CGFloat,  
heading: CLLocationDirection)
```



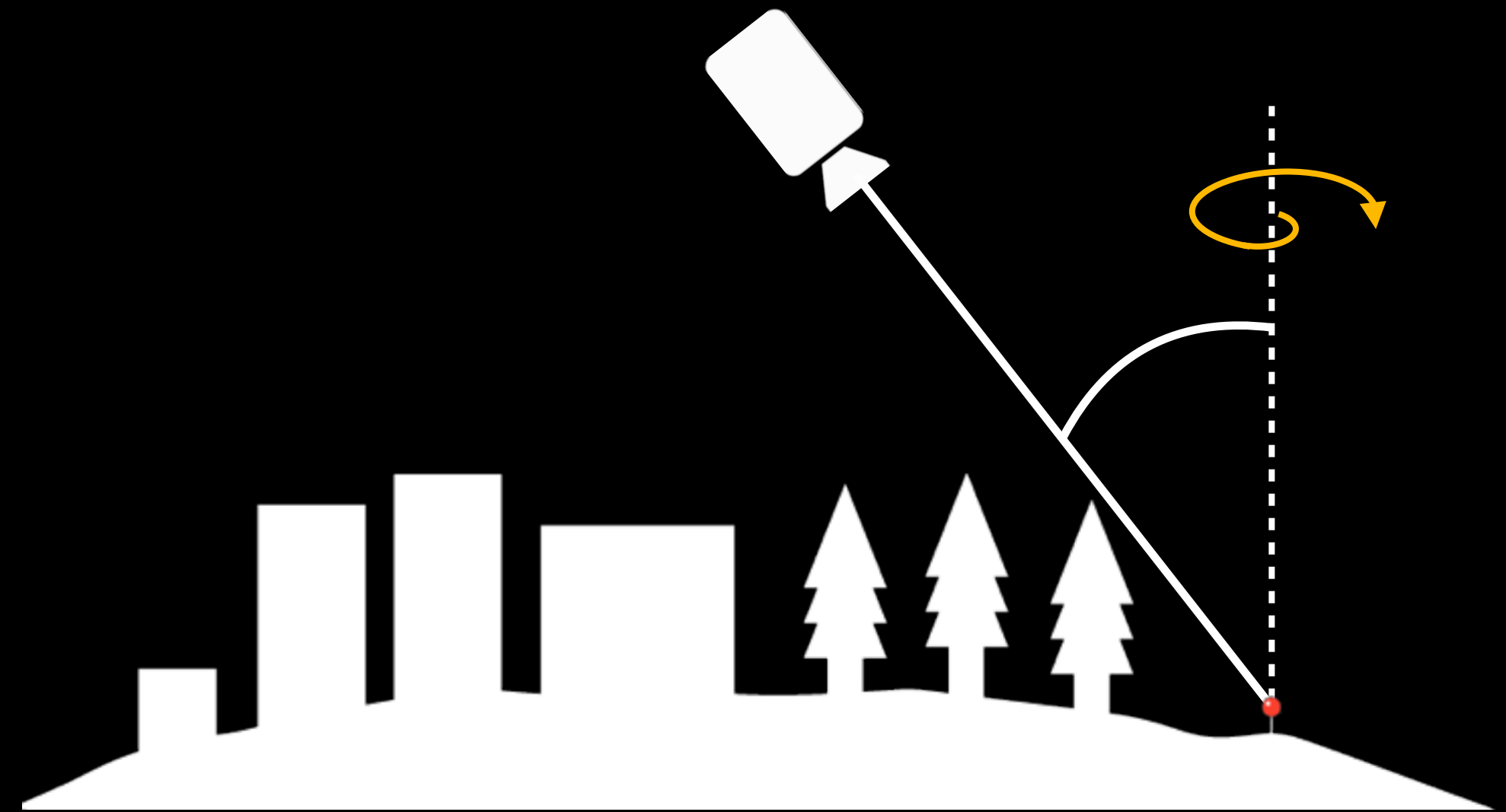
Region Setting in Flyover

Using MKMapCamera



convenience

```
init(lookingAtCenterCoordinate:  
centerCoordinate:  
CLLocationCoordinate2D,  
fromDistance distance:  
CLLocationDistance,  
pitch: CGFloat,  
heading: CLLocationDirection)
```



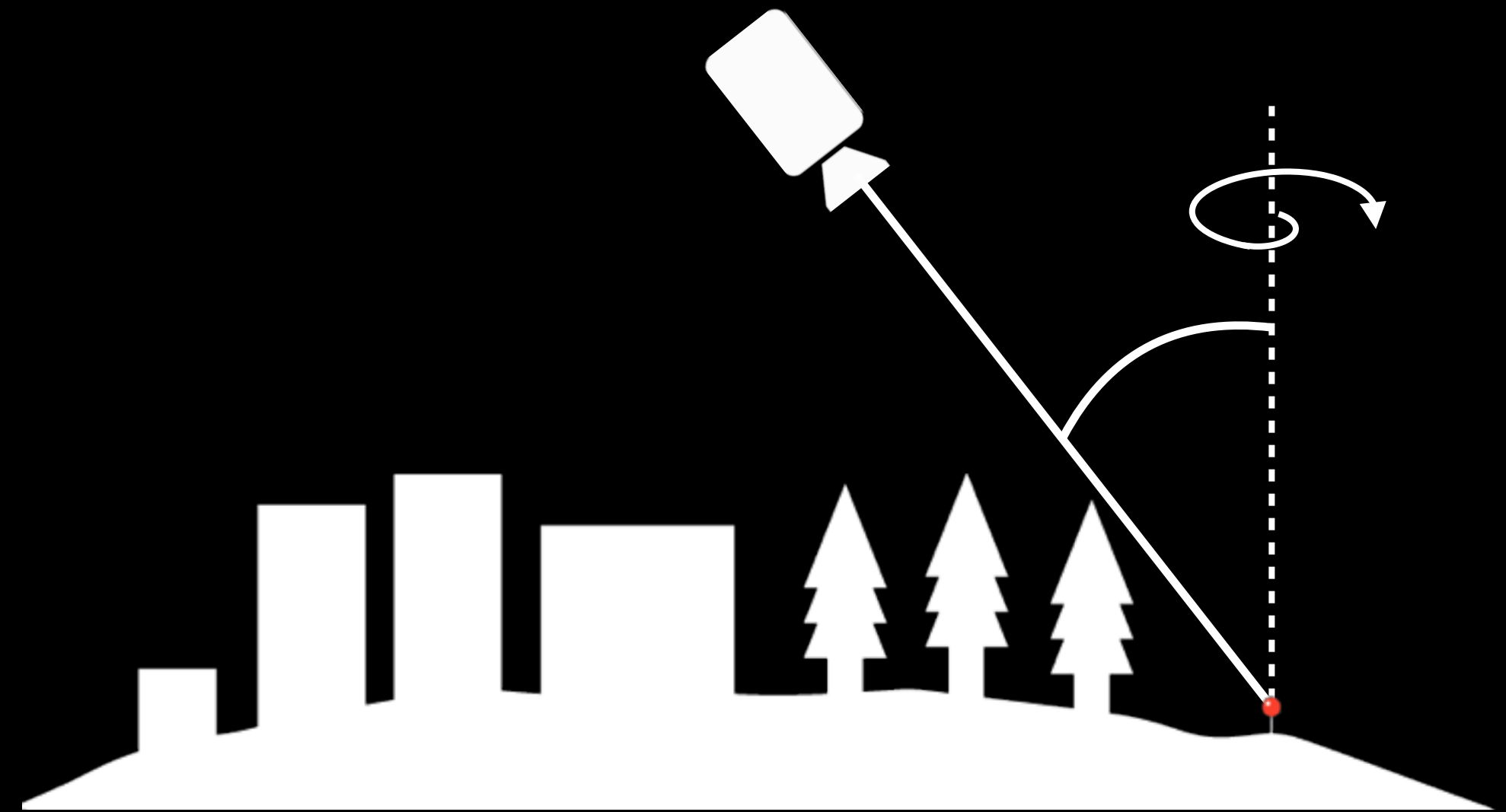
Region Setting in Flyover

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convenience

```
init(lookingAtCenterCoordinate:  
centerCoordinate:  
CLLocationCoordinate2D,  
fromDistance distance:  
CLLocationDistance,  
pitch: CGFloat,  
heading: CLLocationDirection)
```



Demo

Looking around in Flyover

Flyover and Existing API

Flyover and Existing API

MKAnnotation

Flyover and Existing API

MKAnnotation

Use to annotate single coordinate

Flyover and Existing API

MKAnnotation

Use to annotate single coordinate

- Placed on top of 3D buildings on Standard map type

Flyover and Existing API

MKAnnotation

Use to annotate single coordinate

- Placed on top of 3D buildings on Standard map type

Flyover and Existing API

MKAnnotation

Use to annotate single coordinate

- Placed on top of 3D buildings on Standard map type
- Placed on top of buildings and terrain on SatelliteFlyover and HybridFlyover map types

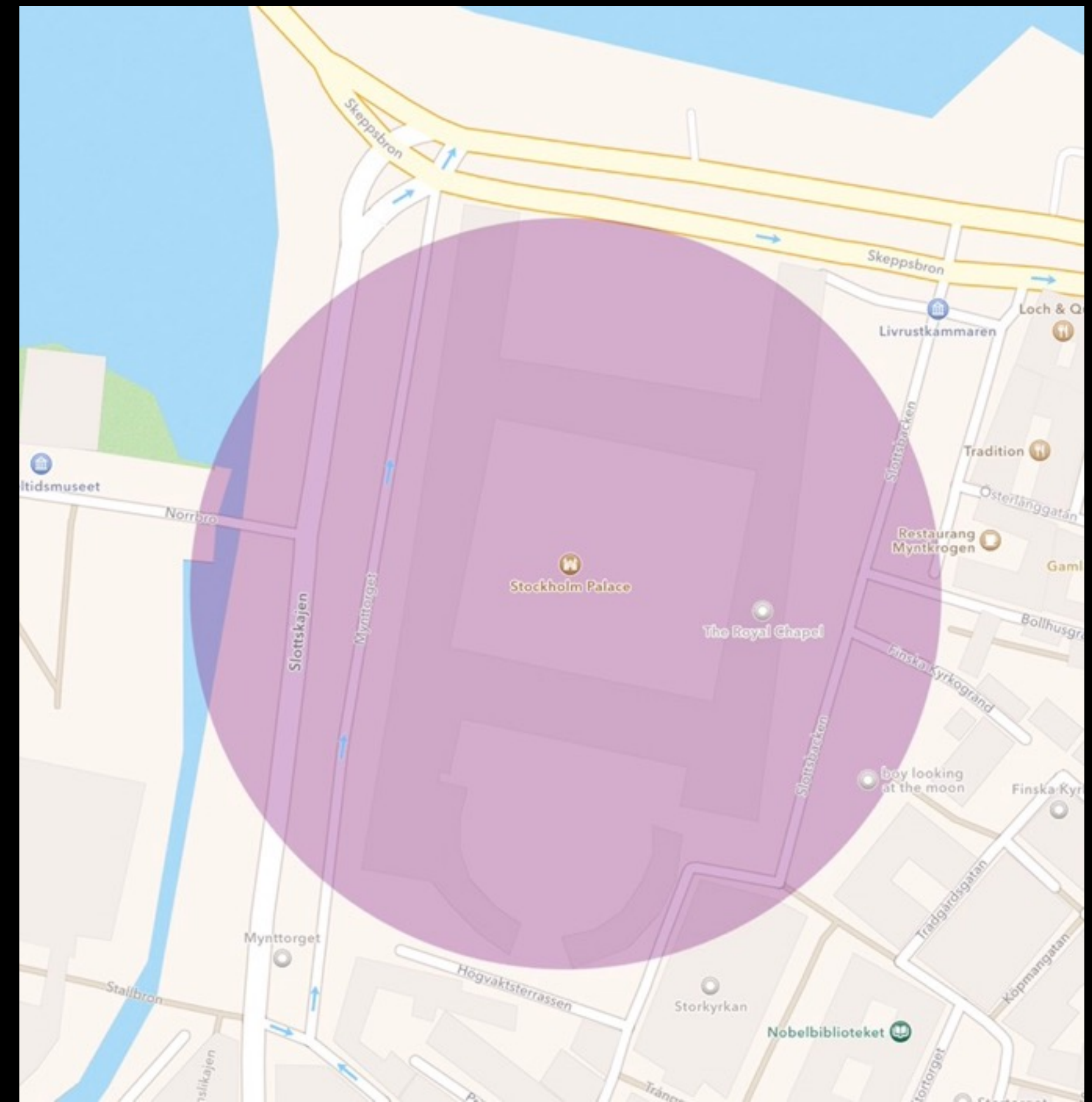
Flyover and Existing API

MKOverlay

Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

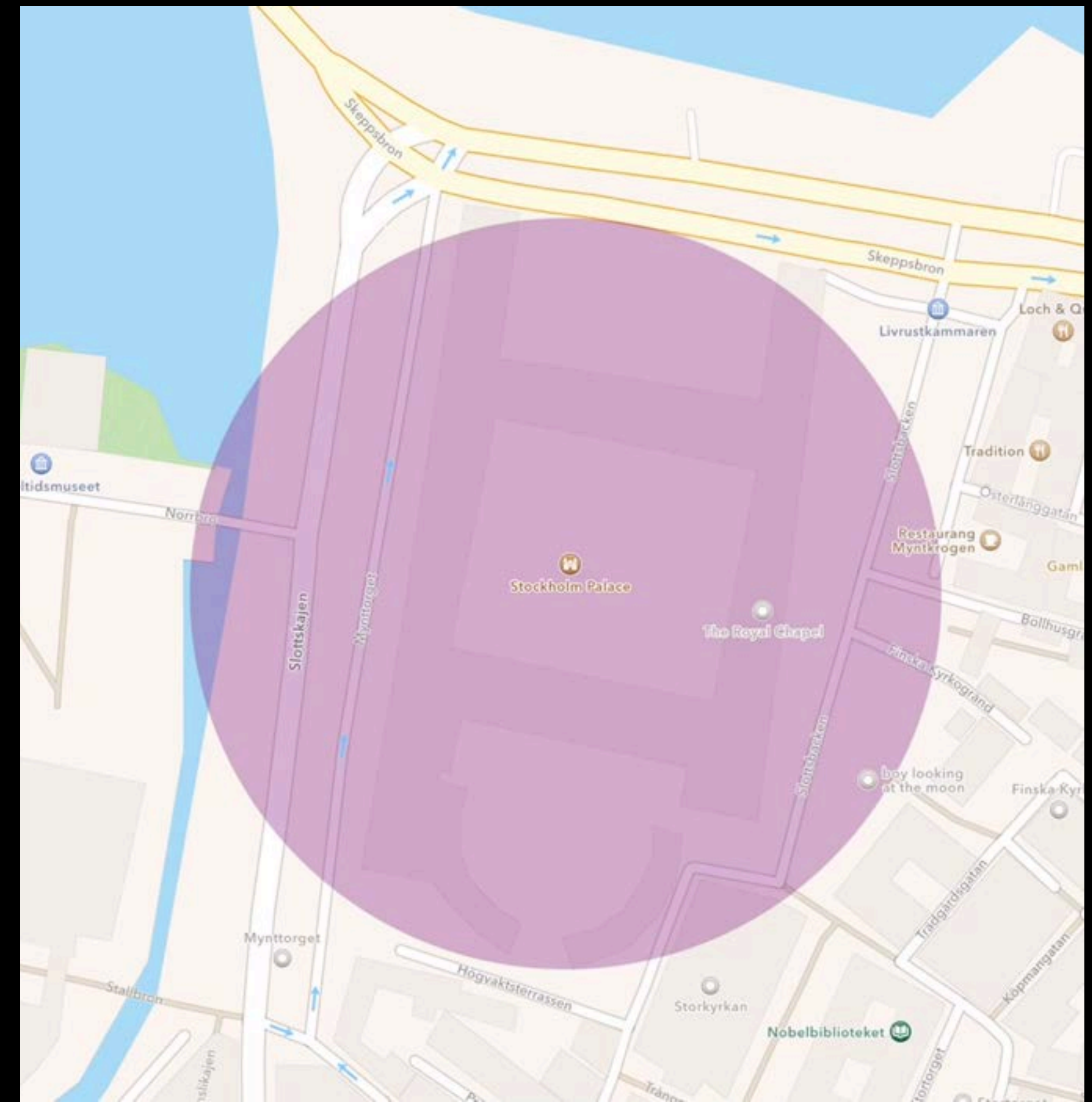


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type

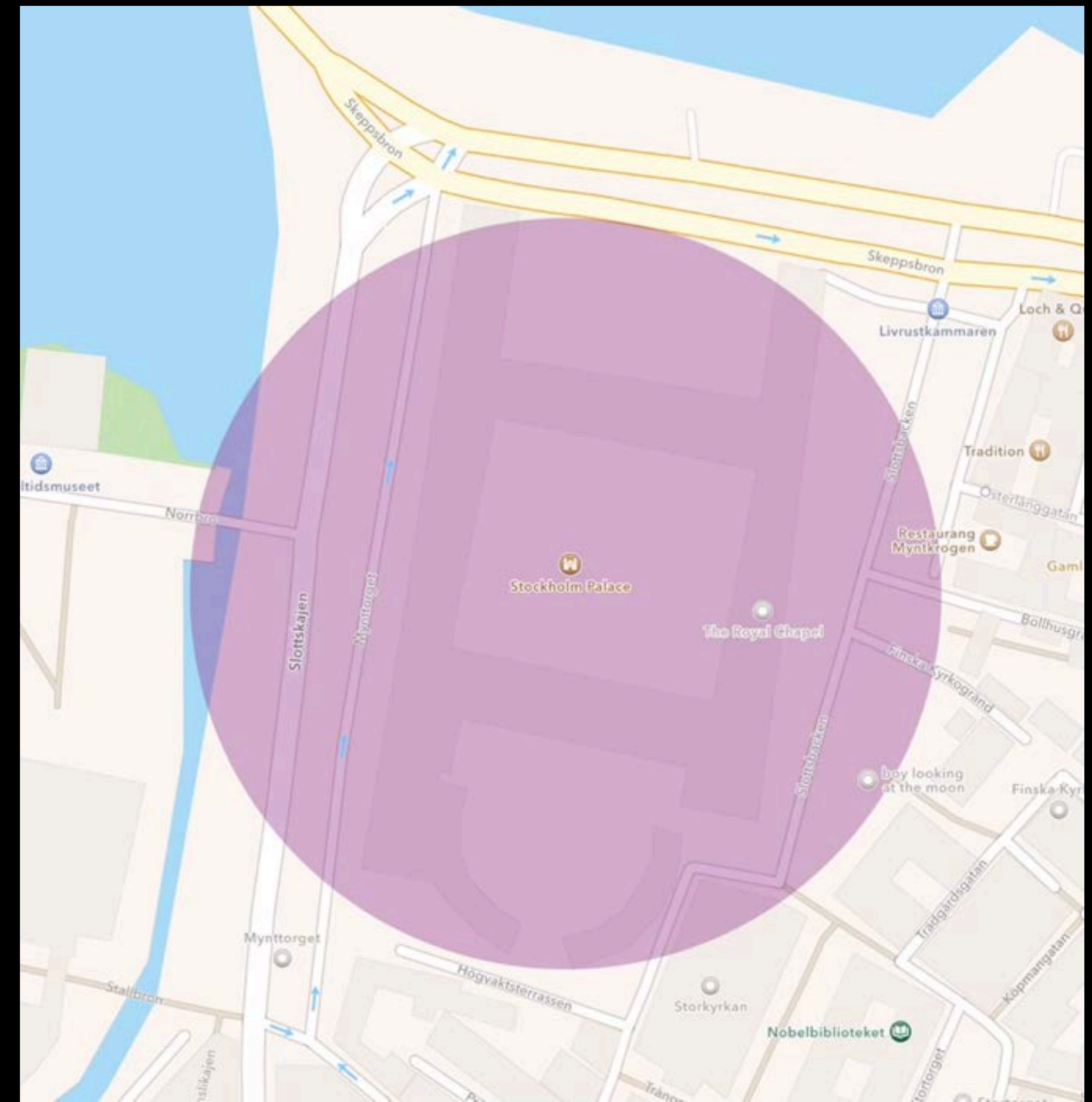


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type

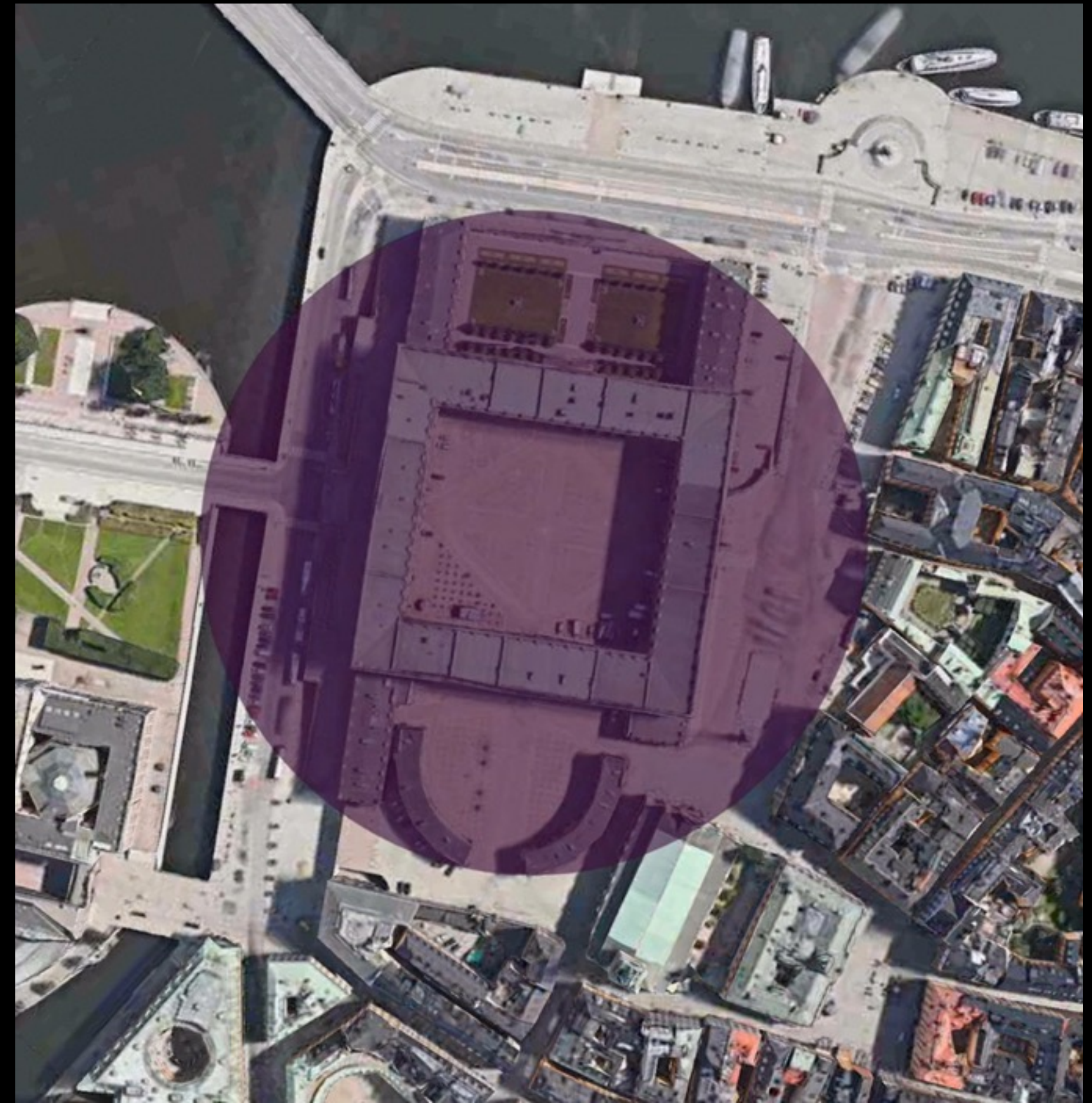


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type
- Occluded by Flyover buildings and trees

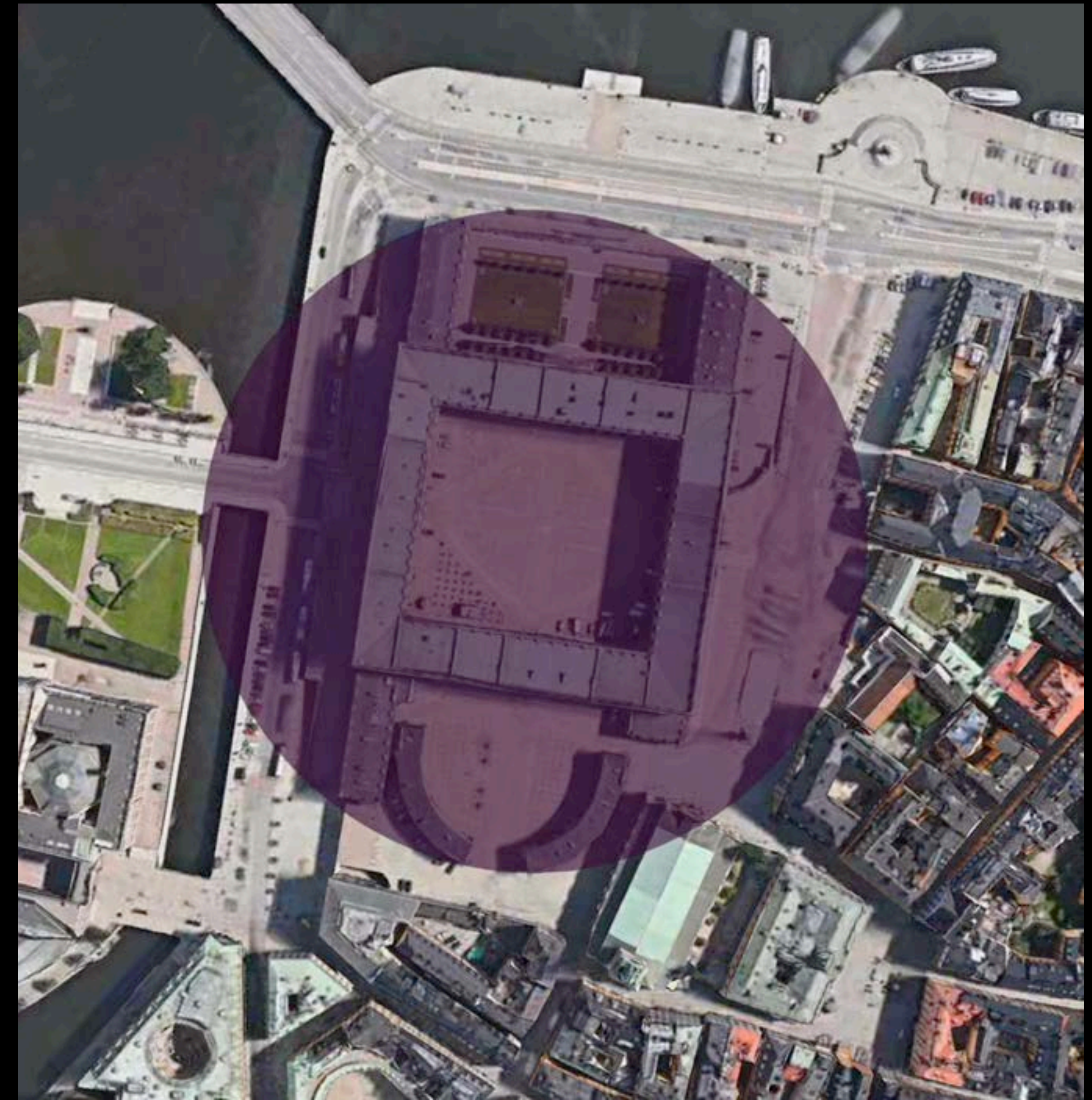


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type
- Occluded by Flyover buildings and trees

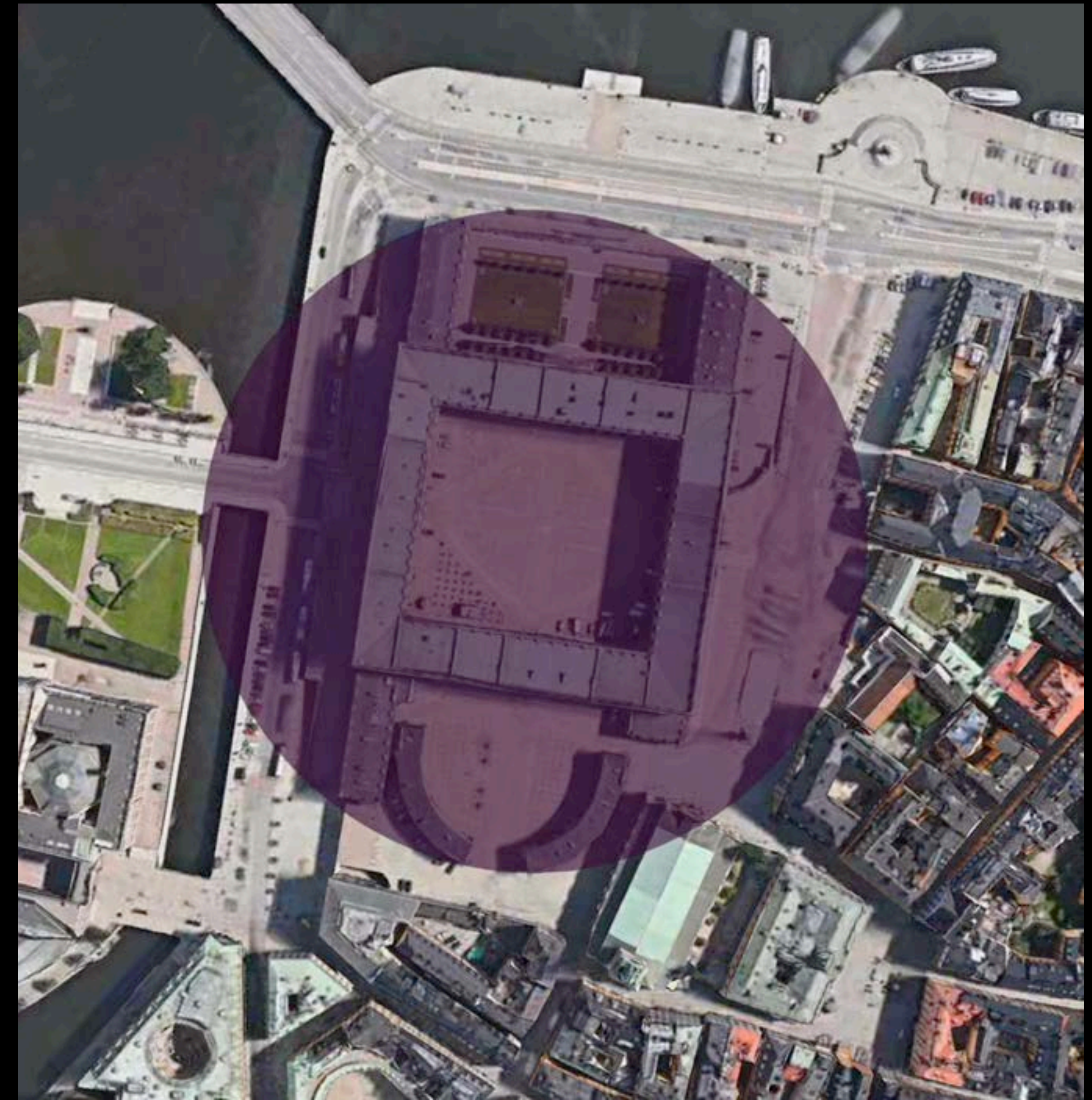


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type
- Occluded by Flyover buildings and trees

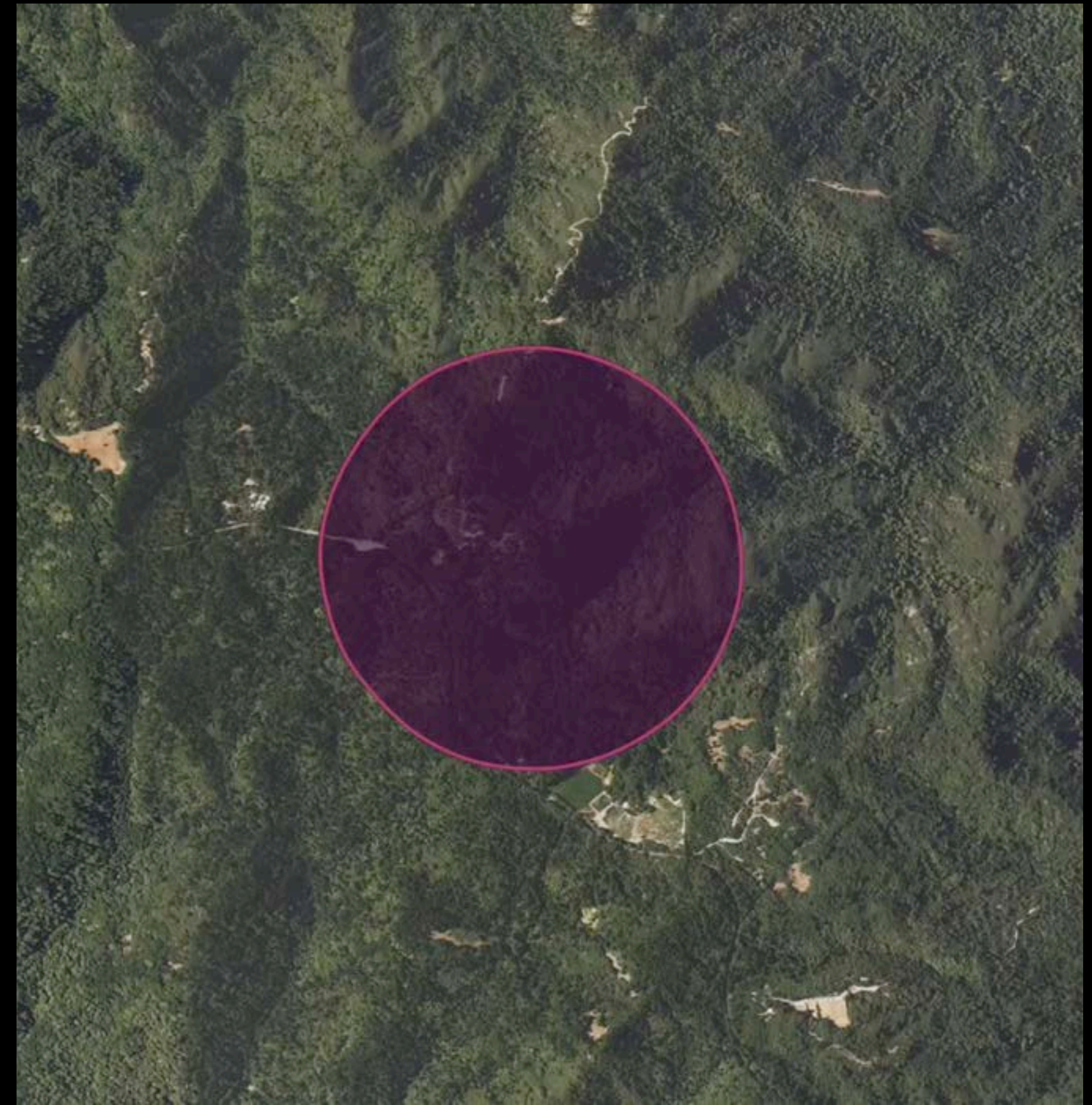


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type
- Occluded by Flyover buildings and trees
- Drawn on top of terrain

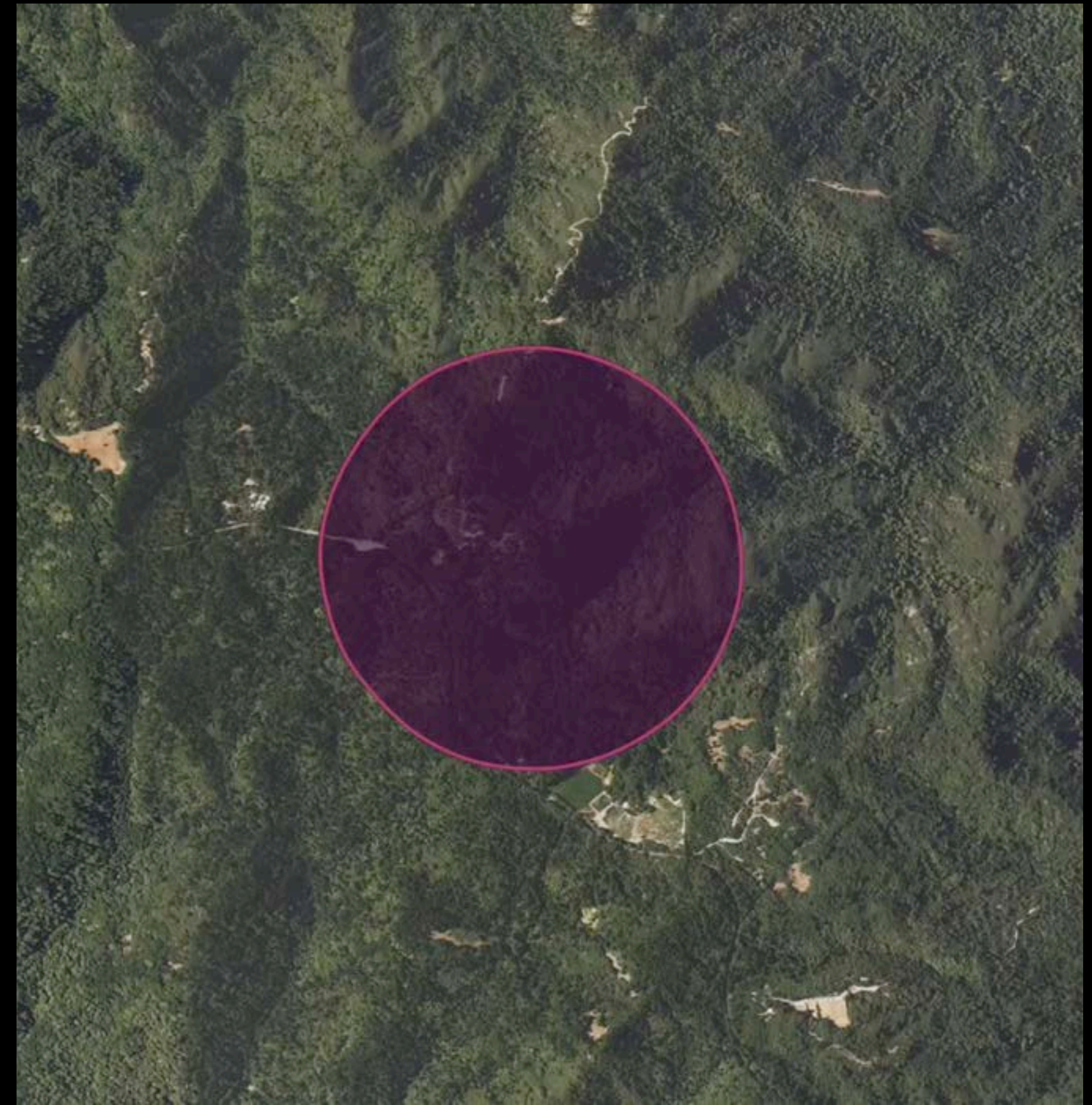


Flyover and Existing API

MKOverlay

Use overlays to highlight areas of the map

- Occluded by 3D buildings on Standard map type
- Occluded by Flyover buildings and trees
- Drawn on top of terrain



Summary

Summary

New ways to customize pins, callouts and map display

Summary

New ways to customize pins, callouts and map display

Transit ETA requests and Maps launch option

Summary

New ways to customize pins, callouts, and map display

Transit ETA requests and Maps launch option

Use SatelliteFlyover and HybridFlyover map types to show photorealistic 3D models and satellite imagery on terrain

More Information

Documentation

MapKit

<http://developer.apple.com/maps>

General Inquiries

Craig Keithley, Technology Evangelist

keithly@apple.com

Technical Support

Apple Developer Forum

<http://developer.apple.com/forums>

Related Sessions

What's New in Core Location

Pacific Heights

Thursday 1:30PM

What's New in Core Audio

Nob Hill

Wednesday 4:30PM

Labs

MapKit Lab

Frameworks Lab E Wednesday 11:00AM

 WWDC 15

 WWDC 15

 WWDC 15

 WWDC 15