

TMap

MAP

프로젝트 생성



프로젝트 정보

- ✓ Application Name: GpsTmap01
- ✓ Minimum SDK : API 16
- ✓ Add an activity to Mobile: Blank Activity
- ✓ Activity Name: MainActivity
- ✓ Layout Name: activity_main
- ✓ Title: MainActivity
- ✓ Menu Resource Name: menu_main



activity_main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:id="@+id/linear"  
    android:orientation="vertical"  
    tools:context=".MainActivity">  
  
</LinearLayout>
```



```
1 package com.example.administrator.myapplication;  
2  
3 import android.app.Activity;  
4 import android.graphics.Bitmap;  
5 import android.graphics.BitmapFactory;  
6 import android.graphics.Color;  
7 import android.location.Location;  
8 import android.location.LocationListener;  
9 import android.os.Bundle;  
10 import android.util.Log;  
11 import android.widget.LinearLayout;  
12 import android.widget.Toast;  
13  
14 import com.skp.Tmap.TMapCircle;  
15 import com.skp.Tmap.TMapData;  
16 import com.skp.Tmap.TMapGpsManager;  
17 import com.skp.Tmap.TMapMarkerItem;  
18 import com.skp.Tmap.TMapPOIItem;  
19 import com.skp.Tmap.TMapPoint;  
20 import com.skp.Tmap.TMapPolyLine;  
21 import com.skp.Tmap.TMapView;  
22  
23 import java.util.ArrayList;  
24
```

Import 확인

>MainActivity.java x

```
24  
25  public class MainActivity extends Activity  
26     implements TMapView.OnLongClickListenerCallback,  
27     LocationListener, TMapGpsManager.onLocationChangedCallback {  
28  
29     private TMapView tMapView = null;  
30     TMapGpsManager gps = null;  
31     public static String apiKey = null;  
32     public static String mBizAppID = null;  
33     private static final String TAG = "TestTmap";  
34     Bitmap icon1, icon2;  
35     TMapCircle tCircle;  
36     TMapData tMapData;  
37
```

코딩

변수 정의

```
37
38     @Override
39     protected void onCreate(Bundle savedInstanceState) {
40         super.onCreate(savedInstanceState);
41         setContentView(R.layout.activity_main);
42
43         LinearLayout liner = (LinearLayout) findViewById(R.id.linear);
44         tMapView = new TMapView(this);
45         apiKey = "3fbf4752-cf6c-318b-a1a9-d6067bd88c79";
46         tMapView.setSKPMapApiKey(apiKey);
47         tMapView.setSKPMapBizappId(mBizAppID);
48         liner.addView(tMapView);
49         setContentView(liner);
50
51         gps = new TMapGpsManager(MainActivity.this);
52         gps.setMinTime(1);
53         gps.setMinDistance(1);
54         gps.setProvider(gps.NETWORK_PROVIDER);
55         // gps.setProvider(gps.GPS_PROVIDER);
56         gps.OpenGps();
57
```

코딩

API Key

API Key setting

GPS 설정

```
57  
58     tMapData = new TMapData();  
59  
60     icon1 = BitmapFactory.decodeResource(getResources(), R.drawable.icon1);  
61     icon2 = BitmapFactory.decodeResource(getResources(), R.drawable.icon2);  
62  
63     tMapView.setZoomLevel(16);  
64     tMapView.setIconVisibility(true);  
65     tMapView.setCompassMode(true);  
66     tMapView.setSightVisible(true);  
67     tMapView.setMapPosition(TMapView.POSITION_NAVI);  
68     tMapView.setTrackingMode(true);  
69  
70 }  
71
```

- Zoom
- Icon 보이기
- 나침반 모드
- 시야 뷰
- 맵 중앙 위치
- 트래킹 모드

MainActivity.java

```
71
72     @Override
73     public void onLongPressEvent(ArrayList<TMapMarkerItem> arrayList,
74                               ArrayList<TMapPOIItem> arrayList1, TMapPoint tMapPoint) {
75
76         Toast.makeText(getApplicationContext(), String.valueOf(tMapPoint.getLatitude()) + ", "
77             + String.valueOf(tMapPoint.getLongitude()), Toast.LENGTH_SHORT).show();
78
79     }
80
81
82     @Override
83     public void onStatusChanged(String provider, int status, Bundle extras) {
84         Toast.makeText(getApplicationContext(), "StatusChanged", Toast.LENGTH_SHORT).show();
85     }
86
87
88     @Override
89     public void onProviderEnabled(String provider) {
90         Toast.makeText(getApplicationContext(), "ProviderEnabled", Toast.LENGTH_SHORT).show()
91     }
```

지도 이미지 롱 클릭 이벤트

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C MainActivity.java x

```
91
92     @Override
93     public void onProviderDisabled(String provider) {
94         Toast.makeText(getApplicationContext(), "ProviderDisabled", Toast.LENGTH_SHORT).show()
95     }
96
97     @Override
98     protected void onResume() {
99         super.onResume();
100    }
101
102    @Override
103    protected void onPause() {
104        super.onPause();
105    }
106
107    @Override
108    protected void onDestroy() {
109        super.onDestroy();
110        gps.CloseGps();
111    }
112
```

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MainActivity.java

```
112
113     @Override
114     public void onLocationChanged(Location location) {
115
116     }
117
118     @Override
119     public void onLocationChange(Location location) {
120         tMapView.setCenterPoint(location.getLongitude(), location.getLatitude());
121         tMapView.setLocationPoint(location.getLongitude(), location.getLatitude());
122
123         TMapPoint point1 = tMapView.getCenterPoint();
124         TMapPoint point2 = new TMapPoint(point1.getLatitude() + 0.1, point1.getLongitude() + 0.1);
125
126         tMapData.findPathDataWithType(TMapData.TMapPathType.CAR_PATH,
127             point1, point2, new TMapData.FindPathDataListenerCallback() {
128                 @Override
129                 public void onFindPathData(TMapPolyLine polyLine) {
130                     polyLine.setLineWidth(20);
131                     polyLine.setOutLineColor(Color.LTGRAY);
132                     tMapView.addTMapPath(polyLine);
133                 }
134             });
135 }
```

코딩

맵 중앙 위치

맵 중앙 위치 받기

임의 맵 위치 받기

Point1과 point2 위치 경로 표시(자동차/자전거/도보)

```
135  
136     tMapData.setResponseCodeInfoCallBack(new TMapData.OnResponseCodeInfoCallback() {  
137         @Override  
138         public void responseCodeInfo(String s, int i, String s1) {  
139             Log.d(TAG, Thread.currentThread().getStackTrace()[2].getFileName() + " / " +  
140                 Thread.currentThread().getStackTrace()[2].getMethodName() + " / " +  
141                 Thread.currentThread().getStackTrace()[2].getLineNumber() +  
142                 " : API is " + s + " ResponseCode is " + i);  
143         }  
144     });  
145     CircleTmap();  
146 }  
147 }
```

Map 서버로 부터
응답 대응 메소드)

MainActivity.java

```
143 }  
144 }  
145 CircleTmap();  
146 }  
147  
148 private void CircleTmap() {  
149     tCircle = new TMapCircle();  
150     tCircle.setRadius(100);  
151     tCircle.latitude = tMapView.getLatitude();  
152     tCircle.longitude = tMapView.getLongitude();  
153  
154     tCircle.setAreaColor(Color.RED);  
155     tCircle.setLineColor(Color.RED);  
156     tCircle.setCircleWidth(5);  
157     tCircle.setLineAlpha(50);  
158     tCircle.setAreaAlpha(50);  
159     tCircle.setRadiusVisible(true);  
160     tMapView.addTMapCircle("TestCircle", tCircle);  
161 }  
162 }  
163 }
```

코딩

원 그리기(중앙 설정)

영역 및 선 색상

선두께/투명도/ 원 보이기

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.administrator.myapplication">

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
    <uses-permission android:name="android.permission.WRITE_OWNER_DATA"/>
    <uses-permission android:name="android.permission.READ_OWNER_DATA"/>
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="gpostmap"
        android:theme="@style/AppTheme">
        <activity
            android:name=".MainActivity"
            android:label="gpostmap">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

코딩



포지션 목적지



```
>MainActivity.java
```

```
31  public static String mApiKey = null;
32  public static String mBizAppID = null;
33  private static final String TAG = "TestTmap";
34  Bitmap icon1, icon2;
35  TMapCircle tCircle;
36  TMapData tMapData;
37  TMapPoint point2;
38
39  @Override
40  protected void onCreate(Bundle savedInstanceState) {
41      super.onCreate(savedInstanceState);
```

추가



```
 MainActivity.java x

61 icon1 = BitmapFactory.decodeResource(getResources(), R.drawable.icon1);
62 icon2 = BitmapFactory.decodeResource(getResources(), R.drawable.icon2);
63
64 point2 = new TMapPoint(tMapView.getLatitude(), tMapView.getLongitude());
65
66 tMapView.setZoomLevel(16);
67 tMapView.setIconVisibility(true);
68 tMapView.setCompassMode(true);
69 tMapView.setSightVisible(true);
70 tMapView.setMapPosition(TMapView.POSITION_NAVI);
71 tMapView.setTrackingMode(true);
72
73 }
```

추가

MainActivity.java x

```
73     }
74
75     @Override
76     public void onLongPressEvent(ArrayList<TMapMarkerItem> arrayList,
77                               ArrayList<TMapPOIItem> arrayList1, TMapPoint tMapPoint) {
78
79         Toast.makeText(getApplicationContext(), String.valueOf(tMapPoint.getLatitude()) + ", "
80             + String.valueOf(tMapPoint.getLongitude()), Toast.LENGTH_SHORT).show();
81
82         point2 = new TMapPoint(tMapPoint.getLatitude(), tMapPoint.getLongitude());
83
84         Toast.makeText(getApplicationContext(), "목적지 등록 되었어요!", Toast.LENGTH_SHORT);
85
86     }
```

추가

```
122
123     @Override
124     public void onLocationChange(Location location) {
125         tMapView.setCenterPoint(location.getLongitude(), location.getLatitude());
126         tMapView.setLocationPoint(location.getLongitude(), location.getLatitude());
127
128         TMapPoint point1 = tMapView.getCenterPoint();
129         //TMapPoint point2 = new TMapPoint(point1.getLatitude() + 0.1, point1.getLongitude() + 0.1);
130
131         tMapData.findPathDataWithType(TMapData.TMapPathType.CAR_PATH,
132             point1, point2, new TMapData.FindPathDataListenerCallback() {
133                 @Override
134                 public void onFindPathData(TMapPolyLine polyline) {
135                     polyline.setLineWidth(20);
```

주석 처리

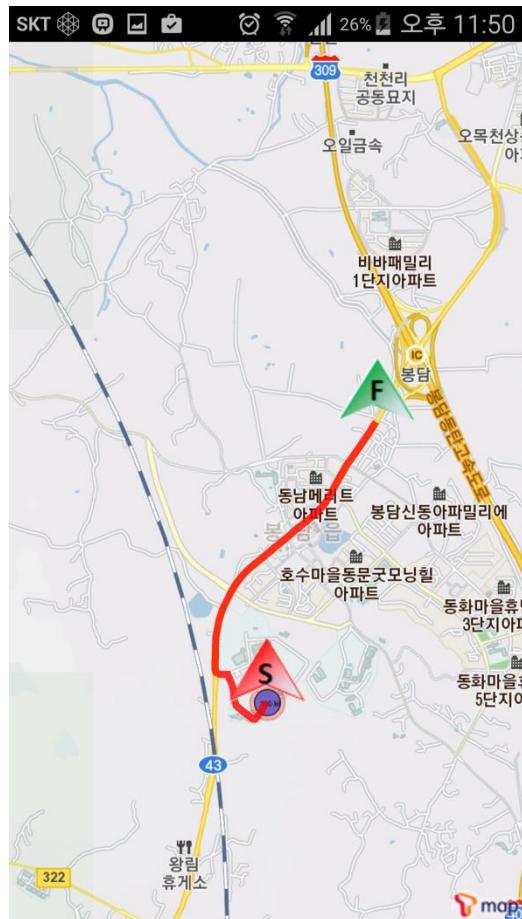
롱 클릭



```
>MainActivity.java x

123
124  @Override
125  public void onLocationChange(Location location) {
126      tMapView.setCenterPoint(location.getLongitude(), location.getLatitude());
127      tMapView.setLocationPoint(location.getLongitude(), location.getLatitude());
128
129      TMapPoint point1 = tMapView.getCenterPoint();
130      tMapView.setTMapPathIcon(icon1, icon2); 추가
131      //TMapPoint point2 = new TMapPoint(point1.getLatitude() + 0.1, point1.getLongitude() + 0.1);
132
133      tMapData.findPathDataWithType(TMapData.TMapPathType.CAR_PATH,
134          point1, point2, new TMapData.FindPathDataListenerCallback() {
135          @Override
136          public void onFindPathData(TMapPolyLine polyLine) {
137              polyLine.setLineWidth(20);
138              polyLine.setOutLineColor(Color.LTGRAY);
139              tMapView.addTMapPath(polyLine);
140          }
141      });

```



MainActivity.java

```
129     tMapView.setLocationPoint(location.getLongitude(), location.getLatitude());  
130  
131     TMapPoint point1 = tMapView.getCenterPoint();  
132     tMapView.setTMapPathIcon(icon1, icon2);  
133     //TMapPoint point2 = new TMapPoint(point1.getLatitude() + 0.1, point1.getLongitude() + 0.1);  
134  
135     tMapData.findPathDataWithType(TMapData.TMapPathType.BICYCLE_PATH,  
136         point1, point2, new TMapData.FindPathDataListenerCallback() {  
137             @Override  
138             public void onFindPathData(TMapPolyLine polyLine) {  
139                 polyLine.setLineWidth(20);  
140                 polyLine.setOutlineColor(Color.LTGRAY);  
141                 tMapView.addTMapPath(polyLine);  
142             }  
143         });
```

자전거 경로

```
>MainActivity.java x

129     tMapView.setLocationPoint(location.getLongitude(), location.getLatitude());
130
131     TMapPoint point1 = tMapView.getCenterPoint();
132     tMapView.setTMapPathIcon(icon1, icon2);
133     //TMapPoint point2 = new TMapPoint(point1.getLatitude() + 0.1, point1.getLongitude() + 0.1);
134
135     tMapData.findPathDataWithType(TMapData.TMapPathType.PEDESTRIAN_PATH,
136         point1, point2, new TMapData.FindPathDataListenerCallback() {
137             @Override
138             public void onFindPathData(TMapPolyLine polyline) {
139                 polyline.setLineWidth(20);
140                 polyline.setOutLineColor(Color.LTGRAY);
141                 tMapView.addTMapPath(polyline);
142             }
143         });

```

보행자 경로