

# Solicitar atualizações de localização – GPS - Kotlin

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# Permissão de acesso

```
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />  
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
```

# Layout

## <LinearLayout

```
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical"  
    tools:layout_editor_absoluteX="245dp"  
    tools:layout_editor_absoluteY="165dp">
```

## <TextView

```
    android:id="@+id/lblLocalizacao"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="TextView" />
```

# Atributos

```
private var locationManager : LocationManager? = null  
private val PERMISSION_CODE = 1000;
```

# Método onCreate

## Permita o uso de gps.

```
@SuppressWarnings("MissingPermission")
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)

    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M){
        if (checkSelfPermission(Manifest.permission.ACCESS_COARSE_LOCATION)
            == PackageManager.PERMISSION_DENIED ||
            checkSelfPermission(Manifest.permission.ACCESS_FINE_LOCATION)
            == PackageManager.PERMISSION_DENIED){
            val permission = arrayOf(Manifest.permission.ACCESS_COARSE_LOCATION, Manifest.permission.ACCESS_FINE_LOCATION)
            requestPermissions(permission, PERMISSION_CODE)
        }else{
            this.locationManager = getSystemService(LOCATION_SERVICE) as LocationManager?
            locationManager?.requestLocationUpdates(LocationManager.NETWORK_PROVIDER, 0L, 0f, locationListener)
        }
    }else{ //system os is < marshmallow
        this.locationManager = getSystemService(LOCATION_SERVICE) as LocationManager?
        locationManager?.requestLocationUpdates(LocationManager.NETWORK_PROVIDER, 0L, 0f, locationListener)
    }
}
```

# Ouvidor de posicionamento do pgs.

```
private val locationListener: LocationListener = object : LocationListener {
    override fun onLocationChanged(location: Location) {
        val latitude = location.Latitude
        val longitude = location.Longitude

        val lblLocalizacao: TextView = findViewById(R.id.lblLocalizacao)
        lblLocalizacao.text = ("" + latitude + ":" + longitude)
    }
    override fun onStatusChanged(provider: String, status: Int, extras: Bundle) {

    }
    override fun onProviderEnabled(provider: String) {

    }
    override fun onProviderDisabled(provider: String) {

    }
}
```

# ATIVIDADE PRÁTICA

- Crie um aplicativo que armazene no firebase a localização do usuário caso ocorra modificação de posicionamento em 10%.
- Crie um aplicativo que armazene no mysql a localização do usuário caso ocorra modificação de posicionamento em 10%.