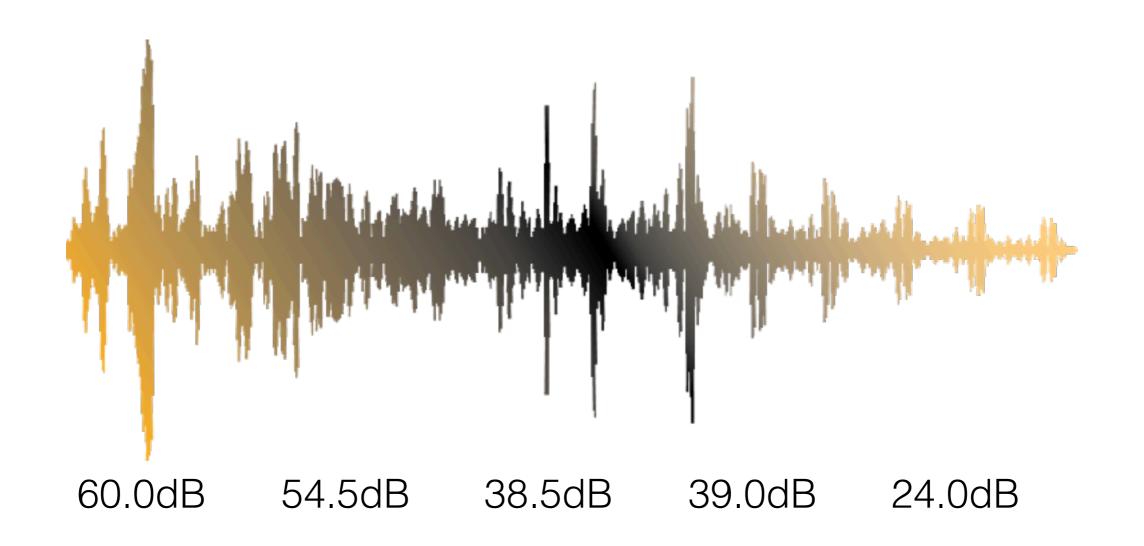
Android API Walkthrough

Running Example

Suppose developing a sleep monitor. The task is to get audio loudness every 10 minutes.



Android Permissions

To record audio, you will need RECORD_AUDIO permission.

Handle runtime permission.

```
if (ContextCompat.checkSelfPermission(this.context, Manifest.permission.RECORD_AUDIO)
    != PackageManager.PERMISSION_GRANTED) {
    Log.d("Task0", "Permission denied.");
    // TODO Bonus: request permission at runtime.
    return;
}
```

 In the study, you can manually turn on permissions in Settings app on the device.

Initializing AudioRecord

Other types of data

- Location: LocationManager
- Contact: ContentProvider, ContentResolver, ...
- Incoming SMS: Intent, BroadcastReceiver, ...
- Motion: SensorManager

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Android Resources

- Android Developers: https://developer.android.com/
- StackOverflow: https://stackoverflow.com/
- Google: https://www.google.com/