





MediaPlayer & MediaRecorder

A cartoon illustration of Fred Flintstone hanging upside down by his arms, holding a brown rectangular object. He has a yellow tuft of hair and a wide, toothy grin. The background is a plain tan color.

Fred,
what is new?

A cartoon illustration of Wilma Flintstone lying on a stone couch. She is wearing an orange dress with black spots and a blue collar. She has a frustrated expression with furrowed brows and a slightly open mouth. The couch is made of large, light-colored stones. In the background, there is a green palm tree and a pinkish structure.

Same old problem, Wilma
don't want I sign in
the house.
My voice is loud.



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Fred, let's build a
recorder app on
Android, you can
control the volume
of your singing

I say **build**,
it is not
ready yet



Let's build!



Fred, first we need to
make sure we have the
RECORD_AUDIO permission

Second, we need to call
MediaRecorder

```
_recorder = if (Build.VERSION.SDK_INT ≥ Build.VERSION_CODES.S) {  
    MediaRecorder(context)  
} else {  
    MediaRecorder()  
}
```

Third, we need to define some properties:

```
_recorder.setAudioSource(MediaRecorder.AudioSource.MIC)  
_recorder.setOutputFormat(MediaRecorder.OutputFormat.THREE_GPP)  
_recorder.setAudioEncoder(MediaRecorder.AudioEncoder.AMR_WB)  
  
val outputFile = context.externalCacheDir!!.absolutePath +  
    File.separator +  
    "audiorecordtest.3gp"  
_recorder.setOutputFile(outputFile)
```




Fourth, we just call:

```
_recorder.prepare()  
_recorder.start()
```



Barney, I can't play
what I recorded. Your
app is not working!



We just created the
recorder part!


```
val player = MediaPlayer()  
player.setDataSource(outputFile)  
player.prepare()  
player.start()
```

Fred, you can play the
record calling for
MediaPlayer:



Wilma is complaining
again about my voice.
The app is recording
well, but my voice
continuing loud.

