



# Exoplayer + Compose




By Moro




Could you help Mr.  
Wick?



Yes sir!

A man with glasses, wearing a white dress shirt and a blue patterned tie, stands in a room with a wall of guns. He is holding a small red object in his right hand. On a table in front of him are several stacks of red objects and a long black object.

ExoPlayer + media3  
library. The best fire  
power you can have to  
play videos.

A man with long dark hair, wearing a dark suit, stands in profile, looking towards the man on the left. The background is a dimly lit room with ornate furniture.

Nice...

```
[versions]
```

```
media3 = "1.1.0"
```

```
...
```

```
[libraries]
```

```
media3_base = { group = "androidx.media3", name = "media3-exoplayer", version.ref = "media3" }
```

```
media3_ui = { group = "androidx.media3", name = "media3-ui", version.ref = "media3" }
```

```
...
```

```
[bundles]
```

```
media3 = [ "media3_base", "media3_ui" ]
```

- **libs.versions.toml**

First, we need to  
add the  
dependency...

```
dependencies {
```

```
    implementation(libs.bundles.media3)
```

```
}
```

- **build.gradle.kts (app module)**

Second, we need to prepare the ExoPlayer object...

- **PlayerComponent (UI layer)**

**@Composable**

```
fun PlayerComponent(url: String) {
```

```
    val context = LocalContext.current
```

```
    val exoplayer = remember {  
        val mediaItem = MediaItem.Builder()  
            .setUri(url)  
            .build()
```

Convert url to a *mediaItem* object

```
        ExoPlayer.Builder(context).build().apply {  
            setMediaItem(mediaItem)  
            prepare()
```

```
            playWhenReady = true
```

If you want to play the video as soon the player is ready

```
        }
```

```
    }
```

```
...  
}
```

We can also add a listener if we desire to build a custom player

- **PlayerComponent (UI layer)**

**@Composable**

```
fun PlayerComponent(url: String) {  
    ...  
    val exoplayer = remember {  
        ...  
        ExoPlayer.Builder(context).build().apply {  
            ...  
            addListener(...)  
        }  
    }  
    ...  
}
```

Now, let's call the **PlayerView**.  
Currently, *ExoPlayer* doesn't  
provide us a Composable component  
:((


- **PlayerComponent (UI layer)**

**@Composable**

```
fun PlayerComponent(url: String) {  
    ...  
    val exoplayer = ...  
  
    AndroidView(  
        modifier = Modifier  
            .fillMaxWidth()  
            .height(200.dp)  
            .align(Alignment.TopCenter),  
        factory = {  
            PlayerView(it).apply {  
                player = exoplayer  
                useController = true  
            }  
        }  
    )  
}
```

If you want to build a custom  
player using your own widgets,  
you need to disable the  
**useController**



A cinematic still from the movie John Wick: Chapter 2. Mr. Wick, played by Keanu Reeves, is shown from the chest up, wearing a dark suit and glasses. He is holding a black smartphone in his hands and looking down at it with a focused expression. The background is a dimly lit bar with warm, golden light. A martini glass with a green olive is visible on the bar to the left. A speech bubble with a blue border is positioned to the right of Mr. Wick's head, containing text about a video player app.

Mr. Wick... wow  
In three seconds, he built a video  
player app using ExoPlayer.  
Fascinating!