# Kotlin Synthetic Deprecated. Oh No!

# Someday on Google Blog

#### The future of Kotlin Android Extensions

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The Android Kotlin Extensions Gradle plugin (not to be confused with Android KTX) was released in 2017 and brought two new conveniences to Android development in Kotlin:

- **Synthetics** let you replace calls to findViewById with kotlinx.android.synthetic bindings.
- Parcelize allows you to remove boilerplate and easily create Parcelables through the @Parcelize annotation.

## Ah... Google did it again...

What are our options?

- Back to use findViewByld
- Use third party library, for example ButterKnife
- Use recommendation from Google that might be deprecated again in the future?

# Back to findViewByld

Why would we want to back to that? It's:

- Not elegant!
- More codes to write!
- Prone to NullPointerException!

#### ButterKnife is Better!

So, we check their github page

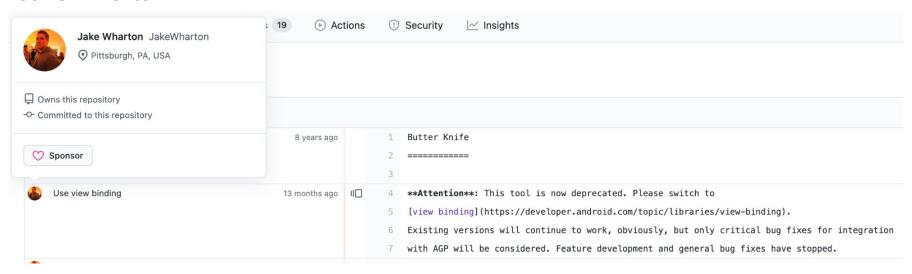
## **Butter Knife**

**Attention**: This tool is now deprecated. Please switch to view binding. Existing versions will continue to work, obviously, but only critical bug fixes for integration with AGP will be considered. Feature development and general bug fixes have stopped.

What!!!??? It's also deprecated :(

## We Don't Follow Google, We Follow Jake!

Looks like we don't have any other choices right? We follow our Android God, Jake Wharton!



# Hmm... ViewBinding, sounds familiar. Is it DataBinding?

#### Nope

DataBinding	ViewBinding	
Binding data to views + binding views to code	Only binding views to code	
Layouts need a <layout> tags</layout>	Layouts don't need a <layout> tags</layout>	
Longer build time	Shorter build time	
Slower than ViewBinding	Faster than DataBinding	
Has type and null safety	Has type and null safety	
Larger apk size (50kb)	Smaller apk size (50kb)	

## How to use ViewBinding then?

Let's code! (Check the project included and follow the TODO)

# Why is ViewBinding the Best choice?

Method	Elegance	Compile Type Safety	Build Speed
findViewByld	X	X	<b>√</b>
Data Binding	<b>√</b>	<b>√</b>	X
Butterknife	<b>√</b>	X	X
Kotlin Synthethic	<b>✓</b>	X	<b>√</b>
View Binding	<b>√</b>	<b>√</b>	<b>√</b>

# Q & A Session

## Learn More

- <a href="https://android-developers.googleblog.com/2020/11/the-future-of-kotlin-android-extensions.html">https://android-developers.googleblog.com/2020/11/the-future-of-kotlin-android-extensions.html</a>
- <a href="https://www.raywenderlich.com/6430697-view-binding-tutorial-for-android-getting-st">https://www.raywenderlich.com/6430697-view-binding-tutorial-for-android-getting-st</a> arted
- https://www.youtube.com/watch?v=til5T17AD54&ab\_channel=RahulPandey
- https://github.com/JakeWharton/butterknife
- https://developer.android.com/topic/libraries/view-binding
- https://developer.android.com/topic/libraries/view-binding/migration
- https://medium.com/@hardianbobby/databinding-vs-viewbinding-simple-comparison
   -792fa8d72e8
- https://www.just-fucking-google.it/