

13. DataBinding

- include layout DataBinding
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include layout DataBinding

- FrameLayout 등 layout 내용이 복잡해 질 경우 include layout으로 정리할 수 있다.

따로 binding variable을 적용하지 않으면 include layout 내용이 ViewModel과 binding 안될 수 있으니 참고하자. (Include session 참고.)

- Layouts and binding expressions

The expression language allows you to write expressions that handle events dispatched by the views. The Data Binding Library automatically generates the classes required to bind the views in the layout with your data objects.

Data binding layout files are slightly different and start with a root tag of `layout` followed by a `data` element and a `view` root element. This view element is what your root would be in a non-binding layout file. The following code shows a sample layout file:

```
<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android">
  <data>
    <variable name="user" type="com.example.User"/>
  </data>
  <LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="@{user.firstName}"/>
    <TextView android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="@{user.lastName}"/>
  </LinearLayout>
</layout>
```

The `user` variable within `data` describes a property that may be used within this layout.

```
<variable name="user" type="com.example.User" />
```

Expressions within the layout are written in the attribute properties using the `"@{"}` syntax. Here, the `TextView` text is set to the `firstName` property of the `user` variable:

```
<TextView android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="@{user.firstName}" />
```

Note: Layout expressions should be kept small and simple, as they can't be unit tested and have limited IDE support. In order to simplify layout expressions, you can use custom [binding adapters](#).

- Includes

Variables may be passed into an included layout's binding from the containing layout by using the app namespace and the variable name in an attribute. The following example shows included `user` variables from the `name.xml` and `contact.xml` layout files:

```
<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:bind="http://schemas.android.com/apk/res-auto">
  <data>
    <variable name="user" type="com.example.User"/>
  </data>
  <LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <include layout="@layout/name"
      bind:user="@{user}"/>
    <include layout="@layout/contact"
      bind:user="@{user}"/>
  </LinearLayout>
</layout>
```

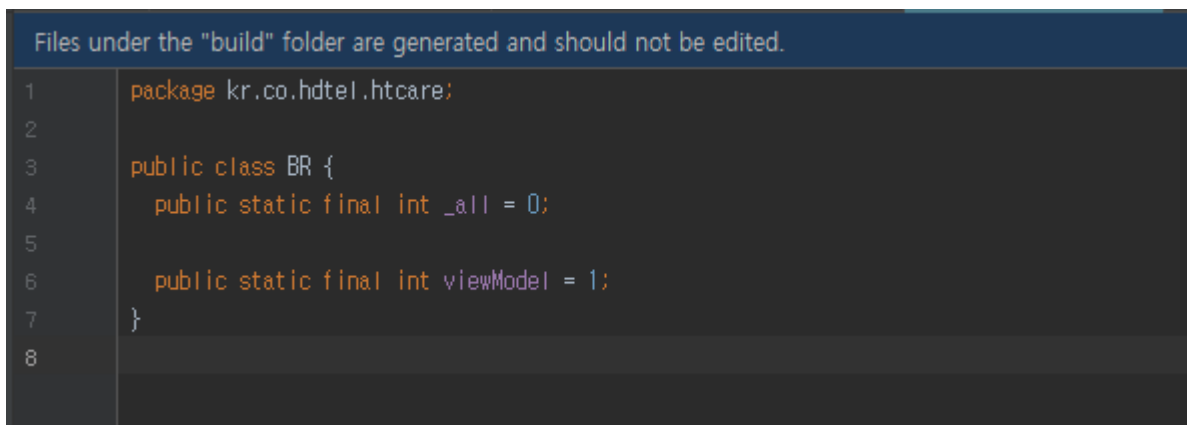
Data binding doesn't support include as a direct child of a merge element. For example, *the following layout isn't supported*:

```
<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:bind="http://schemas.android.com/apk/res-auto">
    <data>
        <variable name="user" type="com.example.User"/>
    </data>
    <merge><!-- Doesn't work -->
        <include layout="@layout/name"
            bind:user="@{user}" />
        <include layout="@layout/contact"
            bind:user="@{user}" />
    </merge>
</layout>
```

- 참고 자료

- <http://blog.unsignedusb.com/2017/08/android-databinding-4-viewstub-binding.html>
- <https://developer.android.com/topic/libraries/data-binding/expressions>
- <https://stackoverflow.com/questions/45205003/data-binding-error-trying-to-pass-viewmodel-into-include-layout-with-abstract-va>

BR Data



- Build time에 생성됨
- xml 파일에서 variable name이 추가되는 내용임.
- 참고 자료
 - <https://developer.android.com/topic/libraries/data-binding>

Glide image & recycler view (확인 중)

- <https://androidwave.com/loading-images-using-data-binding/>