

# ButterKnife 一个优雅的注解工具

ButterKnife

注解

## 为什么要使用ButterKnife

- 避免重复写findViewById()来绑定View,使用代码块简洁明了
- 简单的点击, 长按事件, 不需要设置setOnClickListener()

## 如何使用ButterKnife

- Activity中的使用

```
class ExampleActivity extends Activity {  
    @Bind(R.id.title) TextView title;  
    @Bind(R.id.subtitle) TextView subtitle;  
    @Bind(R.id.footer) TextView footer;  
  
    @Override public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.simple_activity);  
        ButterKnife.bind(this);  
        // TODO Use fields...  
    }  
}
```

- Fragment中的使用

```
public class FancyFragment extends Fragment {  
    @Bind(R.id.button1) Button button1;  
    @Bind(R.id.button2) Button button2;  
  
    @Override public View onCreateView(LayoutInflater inflater,  
    ViewGroup container, Bundle savedInstanceState) {  
        View view = inflater.inflate(R.layout.fancy_fragment,  
        container, false);  
        ButterKnife.bind(this, view);  
        // TODO Use fields...  
        return view;  
    }  
    @Override public void onDestroyView() {  
        super.onDestroyView();  
        ButterKnife.unbind(this);  
    }  
}
```

- Adapter中的使用

```
public class MyAdapter extends BaseAdapter {
    @Override public View getView(int position, View view, ViewGroup
parent) {
        ViewHolder holder;
        if (view != null) {
            holder = (ViewHolder) view.getTag();
        } else {
            view = inflater.inflate(R.layout.whatever, parent, false);
            holder = new ViewHolder(view);
            view.setTag(holder);
        }

        holder.name.setText("John Doe");
        // etc...

        return view;
    }

    static class ViewHolder {
        @Bind(R.id.title) TextView name;
        @Bind(R.id.job_title) TextView jobTitle;

        public ViewHolder(View view) {
            ButterKnife.bind(this, view);
        }
    }
}
```

- 自定义View中的使用

```
public class FancyButton extends Button {
    @OnClick
    public void onClick() {
        // TODO do something!
    }
}
```

- 资源绑定RESOURCE BINDING

```
class ExampleActivity extends Activity {  
    @BindString(R.string.title) String title;  
    @BindDrawable(R.drawable.graphic) Drawable graphic;  
    @BindColor(R.color.red) int red; // int or ColorStateList field  
    @BindDimen(R.dimen.spacer) Float spacer; // int (for pixel size)  
    or float (for exact value) field  
    // ...  
}
```

- 其他用法

```
/*  
 *VIEW LISTS  
 *You can group multiple views into a List or array.  
 */  
@Bind({ R.id.first_name, R.id.middle_name, R.id.last_name })  
List< EditText > nameViews;
```

```
/*LISTENER BINDING*/

/*Listeners can also automatically be configured onto methods.*/

@OnClick(R.id.submit)
public void submit(View view) {
    // TODO submit data to server...
}

/*All arguments to the listener method are optional.*/

@OnClick(R.id.submit)
public void submit() {
    // TODO submit data to server...
}

/*Define a specific type and it will automatically be cast.*/

@OnClick(R.id.submit)
public void sayHi(Button button) {
    button.setText("Hello!");
}

/*Specify multiple IDs in a single binding for common event
handling.*/

@OnClick({ R.id.door1, R.id.door2, R.id.door3 })
public void pickDoor(DoorView door) {
    if (door.hasPrizeBehind()) {
        Toast.makeText(this, "You win!", LENGTH_SHORT).show();
    } else {
        Toast.makeText(this, "Try again", LENGTH_SHORT).show();
    }
}
```

## 实现原理

主要用到了Java中的注解。这样可以使代码结构化，更加简洁，不会导致代码杂乱难以阅读，同时注解还可以帮我们并避免年写赘余的部署杂乱文件

ButterKnife ( apt ) 不同于其他注解框架 ( 利用反射机制实现 ) ,它就类似于一个简化代码的工具类。

## Demo

请点击 [ButterKnife](#)

链接<https://github.com/Morcal/sampleCode/tree/master/samplecode/ButterKnifeDemo>