

| 创新办公室 Innovation Office

第五章 View

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创新自我
创造价值

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回顾

- 一．Activity生命周期
- 二．Activity事件处理
- 三．接受来自Activity的信息
- 四．自定义Activity

内容

- View
- 自定义View原理
- 子类

1 View

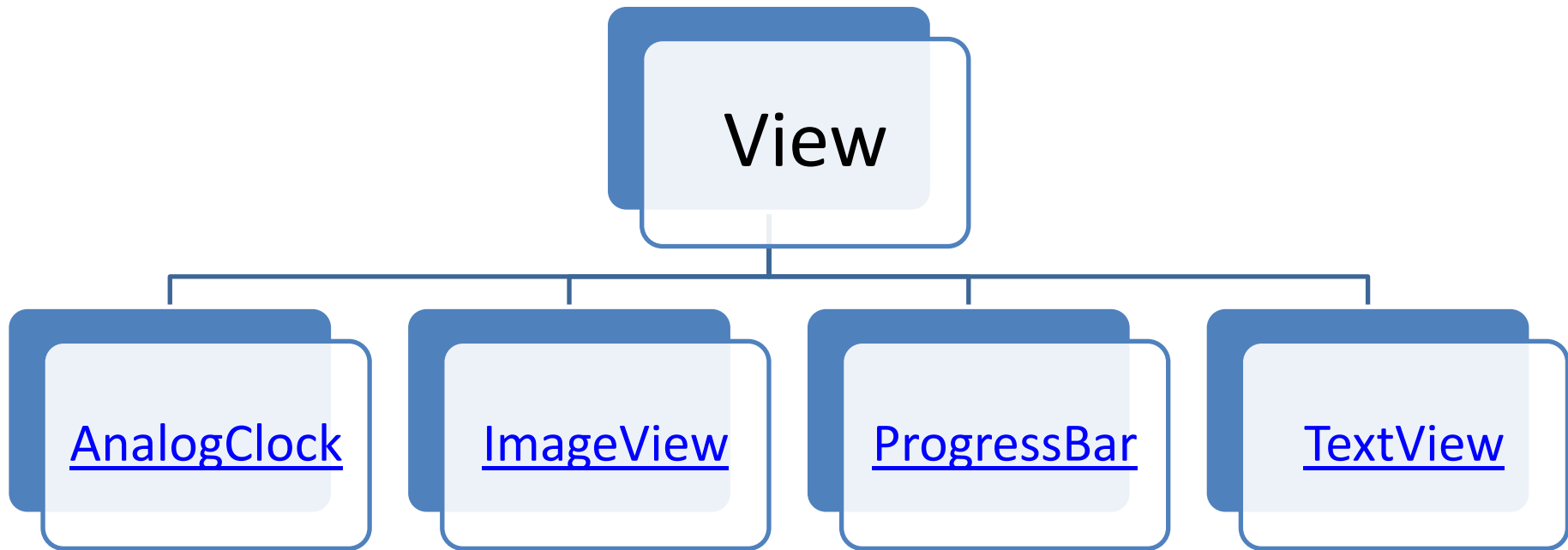
- 在Android图形系统中，一切用来显示的组件，包括布局等，都是View的子类。
- 图形组件分为两类：
 - 在界面上显示具体的内容，提供响应事件等
 - 不会显示具体的内容，而是其他组件的集合，或是将单一的组件组合成一个新的组件，主要起到布局作用。

2 实现一个自定义视图

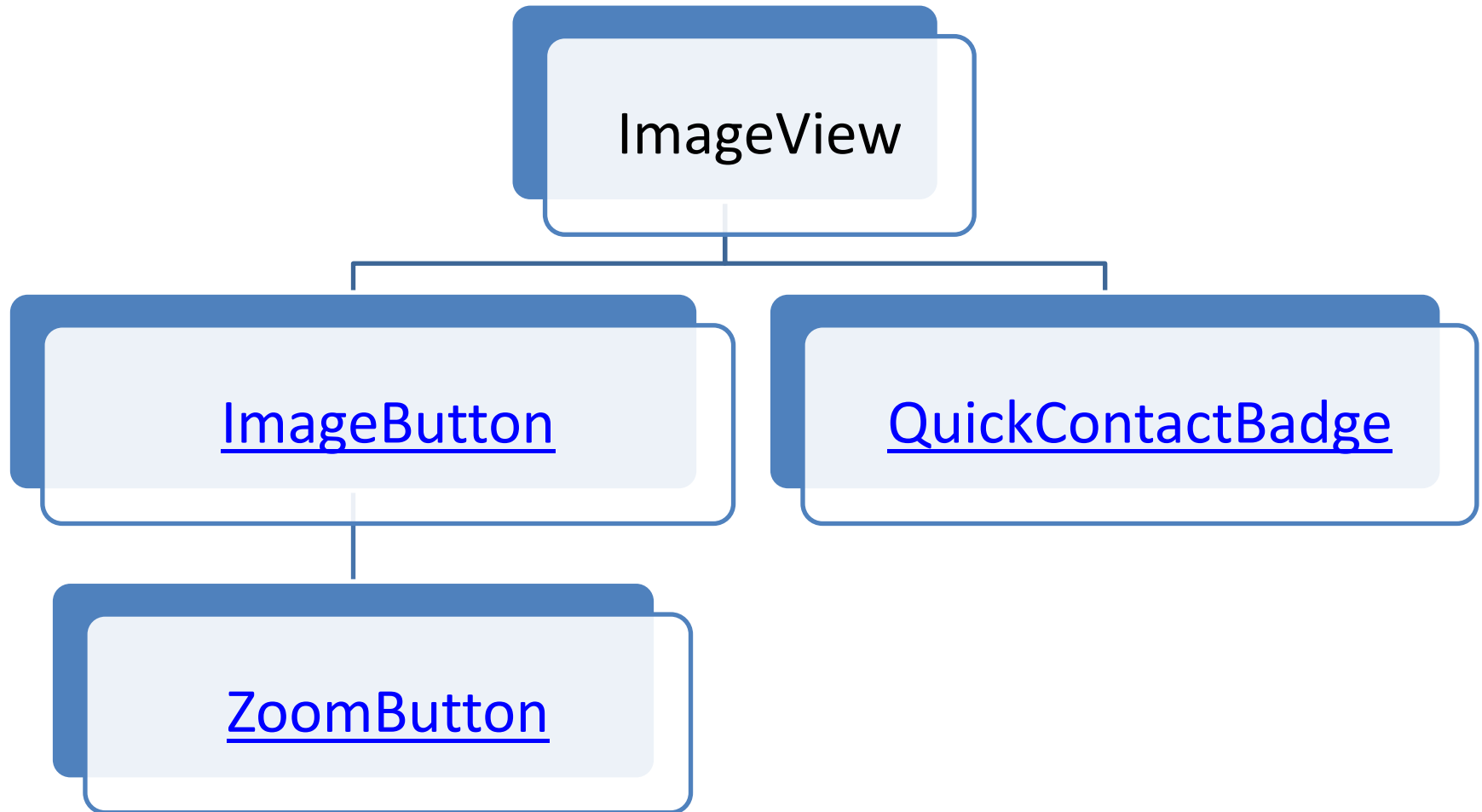
Category	Methods	Description
Creation	Constructors	There is a form of the constructor that are called when the view is created from code and a form that is called when the view is inflated from a layout file. The second form should parse and apply any attributes defined in the layout file.
	<u>onFinishInflate()</u>	Called after a view and all of its children has been inflated from XML.
Layout	<u>onMeasure(int, int)</u>	Called to determine the size requirements for this view and all of its children.
	<u>onLayout(boolean, int, int, int, int)</u>	Called when this view should assign a size and position to all of its children.
	<u>onSizeChanged(int, int, int, int)</u>	Called when the size of this view has changed.
Drawing	<u>onDraw(Canvas)</u>	Called when the view should render its content.
Event processing	<u>onKeyDown(int, KeyEvent)</u>	Called when a new key event occurs.
	<u>onKeyUp(int, KeyEvent)</u>	Called when a key up event occurs.
	<u>onTrackballEvent(MotionEvent)</u>	Called when a trackball motion event occurs.
	<u>onTouchEvent(MotionEvent)</u>	Called when a touch screen motion event occurs.
Focus	<u>onFocusChanged(boolean, int, Rect)</u>	Called when the view gains or loses focus.
	<u>onWindowFocusChanged(boolean)</u>	Called when the window containing the view gains or loses focus.
Attaching	<u>onAttachedToWindow()</u>	Called when the view is attached to a window.
	<u>onDetachedFromWindow()</u>	Called when the view is detached from its window.
	<u>onWindowVisibilityChanged(int)</u>	Called when the visibility of the window containing the view has changed.

View提供了大量的钩子方法，其子类之需要覆盖这些方法就可以实现具体的效果

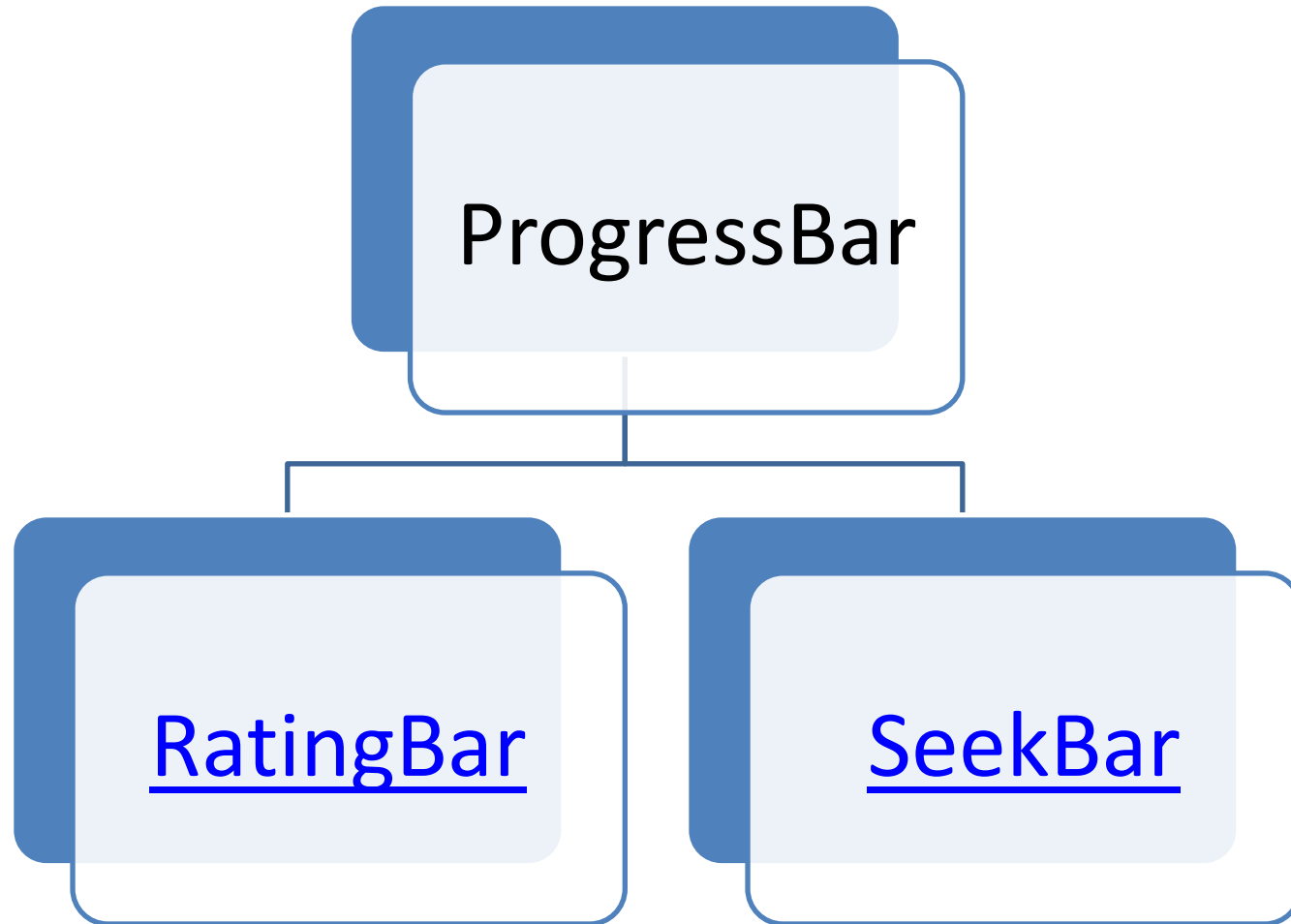
3 View的直接子类



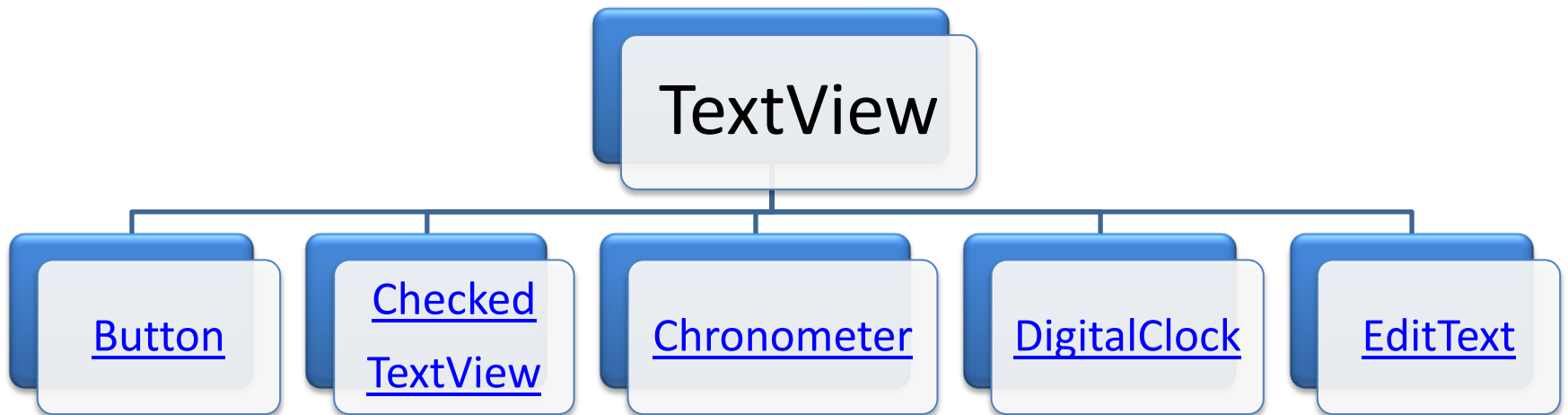
3.1 ImageView



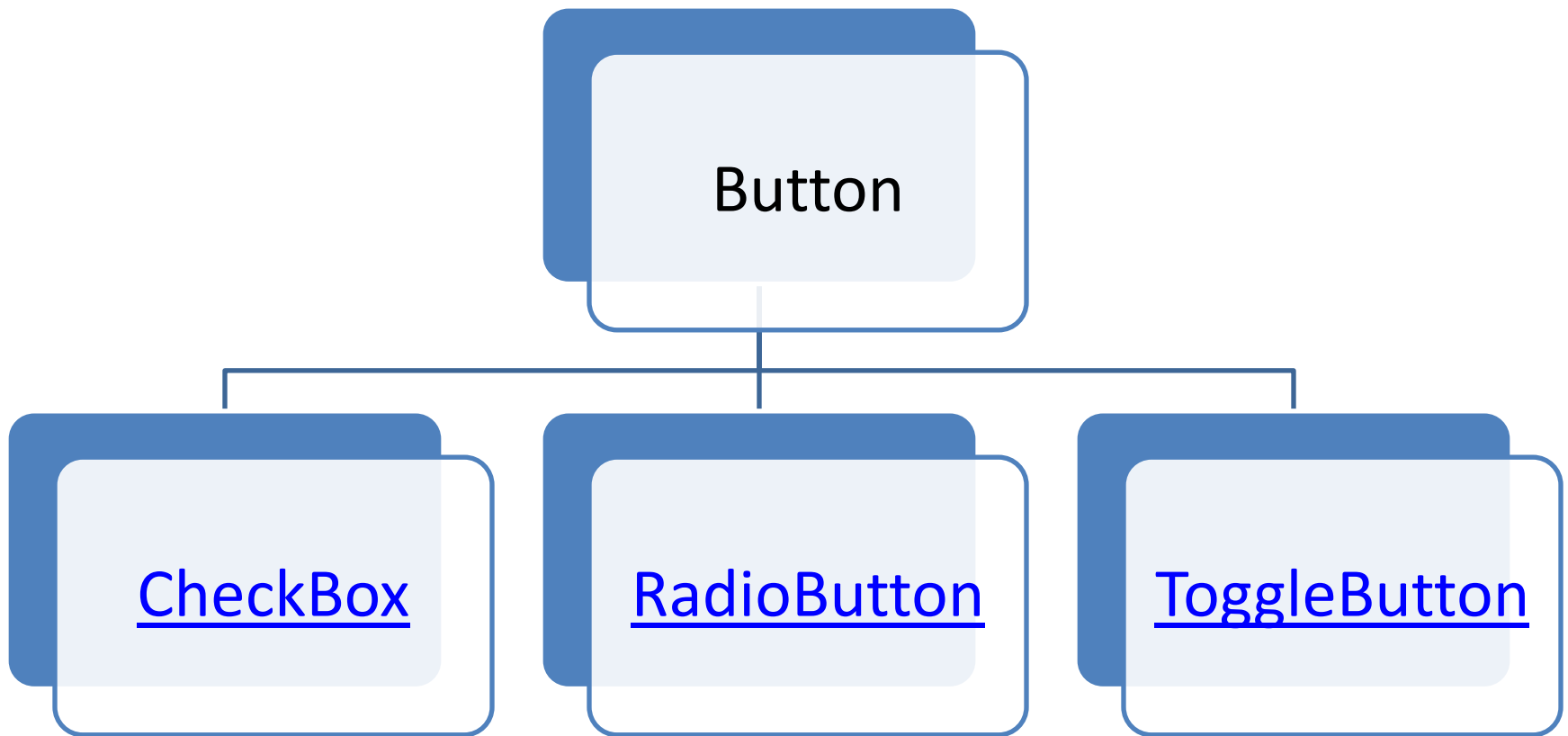
3.2 ProgressBar



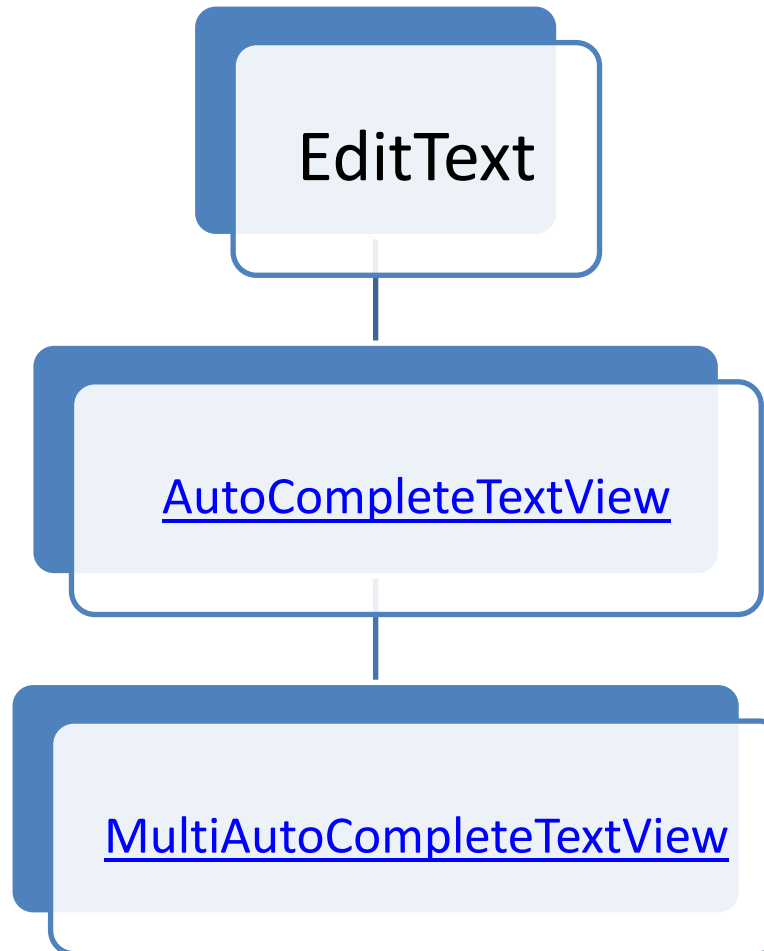
3.3 TextView



3.4 Button



3.5 EditText



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