

ListView & RecyclerView

- Adapter
 - To use ListView, we need extends/override BaseAdapter
 - To use RecyclerView, we need extends/override RecyclerView.Adapter and RecyclerView.ViewHolder
- ViewHolder(ViewModel)
 - ListView has customize ViewHolder and convertView, do null check, if-else
 - RecyclerView ViewHolder is pre-defined
- Layout
 - RecyclerView use LayoutManager for multiple layout appearance (Vertical, Horizontal, Grid*2: uniform/Staggered)
 - ListView has vertical layout only
- Item reuse
 - RecyclerView handled item reuse
 - ListView need manually setTag() and getTag()
- EmptyView
 - ListView has setEmptyView()
 - RecyclerView need manually check null data
- Header and Footer
 - ListView has addHeaderView() and addFooterView()
 - RecyclerView use ViewHolder's Type and View for Header and Footer implementation
- Item refresh
 - ListView has notifyDataSetChanged() for full refresh
 - RecyclerView has notifyItemChanged()/notifyDataInserted()/notifyItemMoved() for partial refresh
- Item animation
 - RecyclerView API: setItemAnimator() + RecyclerView.ItemAnimator
 - ListView implementat item animation in Adapter
- Item Click
 - ListView has onItemClickListener(), onItemLongClickListener(), onItemSelectedListener; but normally use getItemId() for identifier instead of position since HeaderView and FooterView take positions
 - RecyclerView API: addOnItemTouchListener() + Gesture Detector; or use customized item click callback
- Item Touch
 - RecyclerView has ItemTouchHelper for onMove(), onSwiped(): ItemTouchHelper.SimpleCallback() + attachToRecyclerView()
- Nested Scrolling
 - RecyclerView has NestedScrollingChild and NestedScrollingParent
 - ListView framework doesn't support