Recycle View

**public class** MainActivity **extends** AppCompatActivity {  
  
 List<String> **allItemList** = **new** ArrayList<>();  
 List<Integer> **allPicList** = **new** ArrayList<>();  
 List<String> **allDirList** = **new** ArrayList<>();  
  
 List<String> **movieList** = **new** ArrayList<>();  
 List<Integer> **moviePicList** = **new** ArrayList<>();  
 List<String> **movieDirList** = **new** ArrayList<>();  
  
 List<String> **tvList** = **new** ArrayList<>();  
 List<Integer> **tvPicList** = **new** ArrayList<>();  
 List<String> **tvDirList** = **new** ArrayList<>();  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 *//Declare* **final** TabLayout myTabLayout = (TabLayout)findViewById(R.id.***tabLayout***);  
 **final** RecyclerView myCyclerView = (RecyclerView)findViewById(R.id.***recyclerViewTab***);  
  
 LinearLayoutManager layoutManager = **new** LinearLayoutManager(**this**);  
 myCyclerView.setLayoutManager(layoutManager);  
  
 *//Create Data* addAllItems();  
  
 *//Create Adapter íntance* **final** CustomRecyclerAdapter myAdapter = **new** CustomRecyclerAdapter(**allItemList**, **allPicList**, **allDirList**);  
  
 *//set adapter to RecyclerView* myCyclerView.setAdapter(myAdapter);  
  
 myTabLayout.addOnTabSelectedListener(**new** TabLayout.OnTabSelectedListener() {  
  
 @Override  
 **public void** onTabSelected(TabLayout.Tab tab) {  
 **switch**(myTabLayout.getSelectedTabPosition())  
 {  
 **case** 0:  
 Toast.*makeText*(MainActivity.**this**, **"Clicked on all Tab"**, Toast.***LENGTH\_SHORT***).show();  
 myAdapter.changeItemList(**allItemList**, **allPicList**, **allDirList**);  
 **break**;  
 **case** 1:  
 myAdapter.changeItemList(**movieList**, **moviePicList**, **movieDirList**);  
 **break**;  
 **case** 2:  
 myAdapter.changeItemList(**tvList**, **tvPicList**, **tvDirList**);  
 **break**;  
 **default**:  
 myAdapter.changeItemList(**allItemList**, **allPicList**, **allDirList**);  
 }  
  
 myAdapter.notifyDataSetChanged();  
 }  
  
 @Override  
 **public void** onTabUnselected(TabLayout.Tab tab) {  
  
 }  
  
 @Override  
 **public void** onTabReselected(TabLayout.Tab tab) {  
 Toast.*makeText*(MainActivity.**this**,**"Clicked again"**, Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 }  
  
 **private void** addAllItems()  
 {  
 *// All items* **allItemList**.add(**"Big Short"**);  
 **allItemList**.add(**"Game of Thrones"**);  
 **allItemList**.add(**"Star Wars"**);  
  
 **allDirList**.add(**"Adam McKay"**);  
 **allDirList**.add(**"Alan Taylor"**);  
 **allDirList**.add(**"Rian Johnson"**);  
  
 **allPicList**.add(R.drawable.***bigshort***);  
 **allPicList**.add(R.drawable.***gameofthrones***);  
 **allPicList**.add(R.drawable.***starwars***);  
  
 *// Movie* **movieList**.add(**"Big Short"**);  
 **movieList**.add(**"Star Wars"**);  
 **moviePicList**.add(R.drawable.***starwars***);  
 **moviePicList**.add(R.drawable.***bigshort***);  
 **movieDirList**.add(**"Adam McKay"**);  
 **movieDirList**.add(**"Rian Johnson"**);  
  
 *//TV* **tvList**.add(**"Game of Thrones"**);  
 **tvPicList**.add(R.drawable.***gameofthrones***);  
 **tvDirList**.add(**"Alan Taylor"**);  
 }  
  
}

CustomRecycleAdapter

**public class** CustomRecyclerAdapter **extends** RecyclerView.Adapter<CustomRecyclerAdapter.ViewHolder> {  
  
 List<String> **itemList**;  
 List<Integer> **itemPicList**;  
 List<String> **itemDirList**;  
  
 **public class** ViewHolder **extends** RecyclerView.ViewHolder{  
 TextView **txtViewName**;  
 TextView **txtViewDir**;  
 ImageView **imgView**;  
 View **itemView**;  
  
 **public** ViewHolder(@NonNull View itemView) {  
 **super**(itemView);  
 **txtViewName** = (TextView)itemView.findViewById(R.id.***txtViewItemName***);  
 **imgView** = (ImageView)itemView.findViewById(R.id.***imgView***);  
 **txtViewDir** = (TextView)itemView.findViewById(R.id.***txtViewDir***);  
 **this**.**itemView** =itemView;  
  
*// txtViewName.setOnClickListener(new View.OnClickListener() {  
// @Override  
// public void onClick(View v) {  
// //change the color  
// // get current color if not red change color to red  
// changeColor();  
// }  
// });* **this**.**itemView**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 changeColor();  
 }  
 });  
 }  
  
 **private void** changeColor(){  
 **if**(**txtViewName**.getCurrentTextColor() != Color.***RED***){  
 **txtViewName**.setTextColor(Color.***RED***);  
 **txtViewDir**.setTextColor(Color.***RED***);  
 **itemView**.setBackgroundColor(Color.*parseColor*(**"#FDBCB4"**));  
 } **else** {  
 **txtViewName**.setTextColor(Color.***DKGRAY***);  
 **txtViewDir**.setTextColor(Color.***DKGRAY***);  
 **itemView**.setBackgroundColor(Color.***WHITE***);  
 }  
 }  
 }  
  
 **public** CustomRecyclerAdapter(List<String> anyList, List<Integer> anyPicList, List<String> anyDirList)  
 {  
 **this**.**itemList** = anyList;  
 **this**.**itemPicList** = anyPicList;  
 **this**.**itemDirList** = anyDirList;  
 }  
  
 **public void** changeItemList(List<String> anyList, List<Integer> anyPicList, List<String> anyDirList)  
 {  
 **this**.**itemList** = anyList;  
 **this**.**itemPicList** = anyPicList;  
 **this**.**itemDirList** = anyDirList;  
*// notifyDataSetChanged();* }  
  
 @Override  
 **public** ViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, **int** i) {  
 LayoutInflater layoutInflater = LayoutInflater.*from*(viewGroup.getContext());  
 View v = layoutInflater.inflate(R.layout.***layout\_item***,viewGroup,**false**);  
 ViewHolder vh = **new** ViewHolder(v);  
 **return** vh;  
 }  
  
 @Override  
 **public void** onBindViewHolder(@NonNull ViewHolder viewHolder, **int** i) {  
 viewHolder.**txtViewName**.setText(**itemList**.get(i));  
 viewHolder.**txtViewName**.setText(**itemDirList**.get(i));  
 viewHolder.**imgView**.setImageResource(**itemPicList**.get(i));  
 viewHolder.**txtViewDir**.setTextColor(Color.***DKGRAY***);  
 viewHolder.**txtViewDir**.setTextColor(Color.***DKGRAY***);  
 viewHolder.**itemView**.setBackgroundColor(Color.***WHITE***);  
 }  
  
 @Override  
 **public int** getItemCount() {  
 **return itemList**.size();  
 }  
}