```java
 1: package com.delta.fragments;
 2:
 3: import android.app.Fragment;
 4: import android.os.Bundle;
 5: import android.view.LayoutInflater;
 6: import android.view.View;
 7: import android.view.ViewGroup;
 8: import android.widget.TextView;
 9:
10: /**
11:  * Created by learnovate on 3/30/14.
12:  */
13: public class ArticleFragment extends Fragment {
14:
15:     final static String ARG_POSITION = "position";
16:     private int currentPosition = -1;
17:
18:     @Override
19:     public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
20:
21:
22:         if(savedInstanceState != null){
23:             //if we recreated this Fragment (for instance from a screen rotate)
24:             //restore the previous article selection by getting it here
25:             currentPosition = savedInstanceState.getInt(ARG_POSITION);
26:         }
27:         //inflate the view for this fragment
28:         View myFragmentView = inflater.inflate(R.layout.article_fragment,container,false);
29:         return myFragmentView;
30:
31:     }
32:
33:     public void updateArticleView(int position){
34:         View v = getView();
35:         TextView article = (TextView) v.findViewById(R.id.article);
36:         String[] data = Ipsum.Articles;
37:         article.setText(data[position]);
38:         currentPosition = position;
39:     }
40:
41:     @Override
42:     public void onStart() {
43:         super.onStart();
44:
45:         //During startup, we should check if there are arguments (data)
46:         //passed to this Fragment. We know the layout has already been
47:         //applied to the Fragment so we can safely call the method that
48:         //sets the article text
```

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49:
50:            Bundle args = getArguments();
51:            if(args != null){
52:                //set the article based on the argument passed in
53:                updateArticleView(args.getInt(ARG_POSITION));
54:            }else if (currentPosition != -1){
55:                //set the article based on the saved instance state defined during onCreateView
56:                updateArticleView(currentPosition);
57:            }
58:        }
59:
60:        @Override
61:        public void onSaveInstanceState(Bundle outState) {
62:            super.onSaveInstanceState(outState);
63:            //Save the current selection for later recreation of this Fragment
64:            outState.putInt(ARG_POSITION, currentPosition);
65:        }
66: }
```

```java
 1: package com.delta.fragments;
 2:
 3: import android.app.Activity;
 4: import android.app.Fragment;
 5: import android.app.ListFragment;
 6: import android.os.Bundle;
 7: import android.view.View;
 8: import android.widget.ArrayAdapter;
 9: import android.widget.ListView;
10:
11: /**
12:  * Created by learnovate on 3/30/14.
13:  */
14: public class HeadlinesFragment extends ListFragment {
15:
16:     OnHeadlineSelectedListener callback;
17:
18:     public interface OnHeadlineSelectedListener{
19:         public void onArticleSelected(int position);
20:     }
21:
22:     @Override
23:     public void onAttach(Activity activity) {
24:         super.onAttach(activity);
25:
26:         //Make sure that the container Activity has implemented
27:         //the interface. if not, throw an exception so we can fix it
28:         try{
29:             callback = (OnHeadlineSelectedListener) activity;
30:         }catch(ClassCastException e ){
31:             throw new ClassCastException(activity.toString() + "must implement OnHeadlineSelectedListener");
32:         }
33:
34:     }
35:
36:     @Override
37:     public void onActivityCreated(Bundle savedInstanceState) {
38:         super.onActivityCreated(savedInstanceState);
39:
40:         int layout = android.R.layout.simple_list_item_activated_1;  //not not available before honeycomb
41:         String[] data = Ipsum.Headlines;
42:
43:         setListAdapter(new ArrayAdapter<String>(getActivity(),layout,data));
44:
45:     }
46:
47:     @Override
48:     public void onStart() {
```

```
49:            super.onStart();
50:
51:            //When in a two-pane layout, set the lightview to highlight the list item
52:            //instead of just simply blinking
53:
54:            Fragment f = getFragmentManager().findFragmentById(R.id.article_fragment);
55:            ListView v = getListView();
56:            if(f != null && v != null){
57:                v.setChoiceMode(ListView.CHOICE_MODE_SINGLE);
58:            }
59:        }
60:
61:        @Override
62:        public void onListItemClick(ListView l, View v, int position, long id) {
63:
64:            //Notify the parent of the selected item
65:            callback.onArticleSelected(position);
66:
67:            //again set the item to be highlighted in a two-pane layout
68:            l.setItemChecked(position,true);
69:
70:        }
71: }
```

```java
 1: package com.delta.fragments;
 2:
 3: /**
 4:  * Created by spawrks on 11/18/13.
 5:  */
 6:
 7: public class Ipsum {
 8:
 9:     static String[] Headlines = {
10:             "Article One",
11:             "Article Two"
12:     };
13:
14:     static String[] Articles = {
15:             "Article One\n\nExcepteur pour-over occaecat squid biodiesel umami gastropub, nulla laborum salvia dreamcatcher fanny pack. Ullamco culpa retro ea, trust fund excepteur eiusmod direct trade banksy nisi lo-fi cray messenger bag. Nesciunt esse carles selvage put a bird on it gluten-free, wes anderson ut trust fund twee occupy viral. Laboris small batch scenester pork belly, leggings ut farm-to-table aliquip yr nostrud iphone viral next level. Craft beer dreamcatcher pinterest truffaut ethnic, authentic brunch. Esse single-origin coffee banksy do next level tempor. Velit synth dreamcatcher, magna shoreditch in american apparel messenger bag narwhal PBR ennui farm-to-table.",
16:             "Article Two\n\nVinyl williamsburg non velit, master cleanse four loko banh mi. Enim kogi keytar trust fund pop-up portland gentrify. Non ea typewriter dolore deserunt Austin. Ad magna ethical kogi mixtape next level. Aliqua pork belly thundercats, ut pop-up tattooed dreamcatcher kogi accusamus photo booth irony portland. Semiotics brunch ut locavore irure, enim etsy laborum stumptown carles gentrify post-ironic cray. Butcher 3 wolf moon blog synth, vegan carles odd future."
17:     };
18: }
```

```java
 1: package com.delta.fragments;
 2:
 3: import android.app.Activity;
 4: import android.os.Bundle;
 5:
 6:
 7: public class MainActivity extends Activity implements HeadlinesFragment.OnHeadlineSelectedListener{
 8:
 9:     @Override
10:     protected void onCreate(Bundle savedInstanceState) {
11:         super.onCreate(savedInstanceState);
12:         setContentView(R.layout.activity_main);
13:
14:         //check if the activity is using the layout version
15:         //with the FrameLayout.  if so, we have to add the fragment
16:         //(it wont be done automatically )
17:         if(findViewById(R.id.container) != null){
18:
19:             //However if were being restored from a previous state,
20:             //then dont do anything
21:             if(savedInstanceState != null){
22:                 return;
23:             }
24:
25:             //Crate an instance of the Headline Fragment
26:             HeadlinesFragment headlinesFragment = new HeadlinesFragment();
27:
28:             //In the case this activity was started with special instructions from an Intent,
29:             //pass the Intent's extras to the fragment as arguments
30:             headlinesFragment.setArguments(getIntent().getExtras());
31:
32:             //Ask the Fragment manager to add it to the FrameLayout
33:             getFragmentManager().beginTransaction()
34:                     .add(R.id.container,headlinesFragment)
35:                     .commit();
36:
37:
38:         }
39:
40:     }
41:
42:     @Override
43:     public void onArticleSelected(int position) {
44:         //Capture the article fragment from the activity's dual-pane layout
45:         ArticleFragment articleFragment = (ArticleFragment) getFragmentManager().findFragmentById(R.id.article_fragment);
46:
47:         //if we dont find one, we must not be in two pane mode
48:         //lets swap the Fragments instead
```

```
49:              if(articleFragment != null){
50:
51:                  //we must be in two pane layout
52:                  articleFragment.updateArticleView(position);
53:
54:              }else{
55:                  //we must be in one pane layout
56:
57:                  //Create Fragment and give it an arguement for the selected article right away
58:                  ArticleFragment swapFragment = new ArticleFragment();
59:                  Bundle args = new Bundle();
60:                  args.putInt(ArticleFragment.ARG_POSITION,position);
61:                  swapFragment.setArguments(args);
62:
63:                  //now that the Fragment is prepared, swap it
64:
65:                  getFragmentManager().beginTransaction()
66:                          .replace(R.id.container, swapFragment)
67:                          .addToBackStack(null)
68:                          .commit();
69:
70:
71:              }
72:          }
73: }
```