```
package edu.seaaddicts.brockbutler.animation;
 2
 3
     import android.view.View;
     import android.view.animation.Animation;
 4
 5
     import android.view.animation.Transformation;
 6
     import android.widget.LinearLayout.LayoutParams;
 7
8
     public class ExpandAnimation extends Animation {
q
       public static final int ANIMATE_LONG = 500;
10
       public static final int ANIMATE_SHORT = 250;
11
12
         private View mAnimatedView;
13
         private LayoutParams mViewLayoutParams;
14
         private int mMarginStart, mMarginEnd;
15
         private boolean mIsVisibleAfter = false;
16
         private boolean mWasEndedAlready = false;
17
18
19
          * Initialize the animation
20
            @param view The layout we want to animate
21
          * @param duration The duration of the animation, in ms
22
         public ExpandAnimation(View view, int duration) {
23
24
2.5
             setDuration(duration);
26
             mAnimatedView = view;
27
             mViewLayoutParams = (LayoutParams) view.getLayoutParams();
2.8
29
             // decide to show or hide the view
30
             mIsVisibleAfter = (view.getVisibility() == View.VISIBLE);
31
32
             mMarginStart = mViewLayoutParams.bottomMargin;
33
             mMarginEnd = (mMarginStart == 0 ? (0- view.getHeight()) : 0);
34
35
             view.setVisibility(View.VISIBLE);
         }
36
37
38
         @Override
         protected void applyTransformation(float interpolatedTime, Transformation t) {
39
             super.applyTransformation(interpolatedTime, t);
40
41
             if (interpolatedTime < 1.0f) {</pre>
42
43
44
                 // Calculating the new bottom margin, and setting it
45
                 mViewLayoutParams.bottomMargin = mMarginStart
46
                          + (int) ((mMarginEnd - mMarginStart) * interpolatedTime);
47
48
                 // Invalidating the layout, making us seeing the changes we made
49
                 mAnimatedView.requestLayout();
50
51
             // Making sure we didn't run the ending before (it happens!)
52
             } else if (!mWasEndedAlready) {
53
                 mViewLayoutParams.bottomMargin = mMarginEnd;
54
                 mAnimatedView.requestLayout();
55
56
                 if (mIsVisibleAfter) {
                     mAnimatedView.setVisibility(View.GONE);
57
58
59
                 mWasEndedAlready = true;
60
             }
61
         }
62
     }
63
```