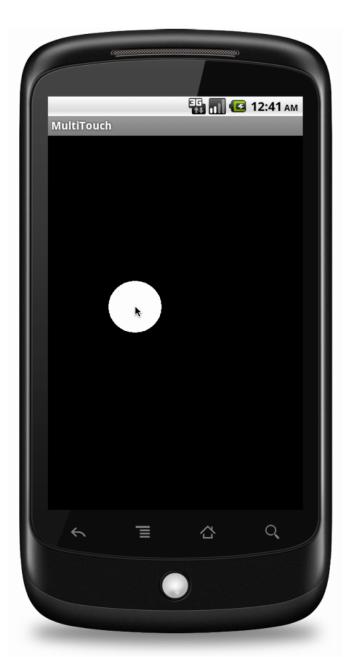
Android - MultiTouch

- Demonstrates multi-touch on Android devices
- A circle is shown where the finger touches
- If there are multiple touches, multiple circles are shown
- The circle follows the finger when the finger is dragged over
- An anonymous class derived from android.view.View is used
 - Override :
 - onDraw() to draw circle
 - onTouchEvent() to intercept touch events
- A list of active touch positions is maintained
 - O Used by onDraw() to draw circles
 - O Updated by onTouchEvent()

- onTouchEvent()
 - Called when new touch event occurs
- getAction()
 - Get the type of the motion event
 - Some of the events are:
 - MotionEvent.ACTION DOWN
 - A pressed gesture has started
 - MotionEvent.ACTION POINTER DOWN
 - User puts finger on screen
 - MotionEvent.ACTION MOVE
 - User moved a finger
 - MotionEvent.ACTION_UP
 - A pressed gesture has finished
 - MotionEvent.ACTION_POINTER_UP
 - User lifted a finger
- All the active touches are iterated over and added to the list except the event where user lifted his finger is ignored

- A white circle is drawn wherever the finger touches the screen
- The Android emulator can only simulate one touch
- Not all Android devices support multi-touch





References

- MotionEvent
- Point
- View

Exercise

 Change the application so that is draws *one* rectangle that is just large enough to include all active touches.
Use red as the filling color of this bounding box.