

CS260 Intro to Java & Android 10. Android AdvUI (Part II)

Winter 2014

Creating TicTacToe for Android

 Now that we have TicTacToe displayed graphically on the screen, we need to provide game play

Android Size

- When a View's constructor is called, the size is unknown.
- View size is calculated during the layout stage (i.e. after the constructor but before the draw)
- Use onSizeChanged () to be notified when values are known or changed
- getWidth () and getHeight () can be used in onDraw

Game Play

- The drawing and game play will happen in the View; therefore, keep a reference to the Game class
- Note: The main activity is in TicTacToeGame.java private final TicTacToeGame mTicTacToeAndroid;

```
public CustomDrawableView (Context context)
{
    super (context);
    this.mTicTacToeAndroid = (TicTacToeGame) context;
    setFocusable (true);
    setFocusableInTouchMode (true);
}
```

What if View is changed?

In CustomDrawableView

Override onTouchEvent

- Write the Android code necessary to override the onTouchEvent so that:
 - The (x,y) coordinates are displayed in the LogCat window
 - The (xTile,yTile) of the TicTacToe game are displayed in the LogCat window

Hook up your TicTacToe Java

Get some piece of information from the TicTacToe
Java game and display the info in the LogCat
window after an onTouchEvent has occurred