Jimmy Ibarra

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| AndroidManifext.xml |
| <?xml version="1.0" encoding="utf-8"?>  <manifest xmlns:android="http://schemas.android.com/apk/res/android"  package="jimmyibarra.provincestatequiz">  <application  android:allowBackup="true"  android:icon="@mipmap/ic\_launcher"  android:label="@string/app\_name"  android:roundIcon="@mipmap/ic\_launcher\_round"  android:supportsRtl="true"  android:theme="@style/AppTheme">  <activity  android:name=".MainActivity"  android:label="@string/app\_name"  android:theme="@style/AppTheme.NoActionBar">  <intent-filter>  <action android:name="android.intent.action.MAIN" />  <category android:name="android.intent.category.LAUNCHER" />  </intent-filter>  </activity>  <activity  android:name=".SettingsActivity"  android:label="@string/title\_activity\_settings"  android:parentActivityName=".MainActivity"  android:theme="@style/AppTheme.NoActionBar">  <meta-data  android:name="android.support.PARENT\_ACTIVITY"  android:value="jimmyibarra.provincestatequiz.MainActivity" />  </activity>  <activity  android:name=".BonusActivity"  android:label="Bonus Question"  />  </application>  </manifest> |

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| BonusActivity.java |
| package jimmyibarra.provincestatequiz;  import android.app.Activity;  import android.content.Intent;  import android.graphics.Color;  import android.os.Bundle;  import android.os.CountDownTimer;  import android.support.v7.app.AppCompatActivity;  import android.util.Log;  import android.view.View;  import android.view.View.OnClickListener;  import android.widget.Button;  import android.widget.EditText;  import android.widget.TextView;  import java.io.DataInputStream;  import java.util.Scanner;  public class BonusActivity extends AppCompatActivity {  private String stateOrProvince = "";  private String capital = "";  TextView capitalAnswer;  Button submitButton;  EditText capitalEditText;  String points = "10";  @Override  public void onCreate(Bundle savedInstanceState){  super.onCreate(savedInstanceState);  setContentView(R.layout.bonus\_question);  stateOrProvince = getIntent().getStringExtra("provinceState");  TextView question = (TextView) findViewById(R.id.question);  question.setText("What is the capital of " + stateOrProvince + "?");  capital = getCapital(stateOrProvince);  capitalAnswer = findViewById(R.id.capitalAnswer);  submitButton = findViewById(R.id.submitButton);  capitalEditText = findViewById(R.id.capitalEditText);  submitButton.setOnClickListener(submitButtonListener);  Log.i("answer", capital);  }  private final OnClickListener submitButtonListener = new OnClickListener(){  @Override  public void onClick(View v) {  Button guessButton = ((Button) v);  String guess = capitalEditText.getText().toString();  if(guess.equalsIgnoreCase(capital.trim())){  capitalAnswer.setText(capital);  capitalAnswer.setTextColor(Color.parseColor("#00CC00"));  }else{  capitalAnswer.setText(capital);  capitalAnswer.setTextColor(Color.parseColor("#FF0000"));  points = "0";  }  new CountDownTimer(2000, 1000){  @Override  public void onTick(long l) {  }  public void onFinish(){  Intent returnIntent = new Intent();  returnIntent.putExtra("result", points);  setResult(Activity.RESULT\_OK, returnIntent);  finish();  }  }.start();  }  };  private String getCapital(String s){  String raw = "";  s = s.replaceAll("\\s", "");  Log.i("MYTAG", s);  try {  DataInputStream file = new DataInputStream(getAssets().open(String.format("capitals.txt")));  Scanner scan = new Scanner(file);  while(scan.hasNextLine()){  if(scan.next().equalsIgnoreCase(s)){  raw = scan.nextLine();  Log.i("MYTAG", raw);  break;  }  }  capital = raw.trim().substring(2);  Log.i("MYTAG", capital);  }catch(Exception e){  Log.i("ASDASDASD", "cannot find file");  }  return capital;  }  } |

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| MainActivity.java |
| package jimmyibarra.provincestatequiz;  import android.content.Intent;  import android.content.SharedPreferences;  import android.content.SharedPreferences.OnSharedPreferenceChangeListener;  import android.content.pm.ActivityInfo;  import android.content.res.Configuration;  import android.os.Bundle;  import android.preference.PreferenceManager;  import android.support.v7.app.AppCompatActivity;  import android.support.v7.widget.Toolbar;  import android.view.Menu;  import android.view.MenuItem;  import android.widget.Toast;  import java.util.Set;  public class MainActivity extends AppCompatActivity {  //keys for reading data from SharedPreferences  public static final String CHOICES = "pref\_numberOfChoices";  public static final String REGIONS = "pref\_regionsToInclude";  private boolean phoneDevice = true;  private boolean preferencesChanged = true;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_main);  Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);  setSupportActionBar(toolbar);  //set default values in the app's SharedPreferences  PreferenceManager.setDefaultValues(this, R.xml.preferences, false);  PreferenceManager.getDefaultSharedPreferences(this).registerOnSharedPreferenceChangeListener(preferencesChangeListener);  //determine screen size  int screenSize = getResources().getConfiguration().screenLayout & Configuration.SCREENLAYOUT\_SIZE\_MASK;  //if device is a table, set phoneDevice to false  if(screenSize == Configuration.SCREENLAYOUT\_SIZE\_LARGE || screenSize == Configuration.SCREENLAYOUT\_SIZE\_XLARGE)  phoneDevice = false; //not a phone-sized device  if(phoneDevice)  setRequestedOrientation(ActivityInfo.SCREEN\_ORIENTATION\_PORTRAIT);  }  @Override  protected void onStart() {  super.onStart();  if(preferencesChanged){  //now that the default preferences have been set,  //initialize MainActivityFragment and start the quiz  MainActivityFragment quizFragment = (MainActivityFragment) getSupportFragmentManager().findFragmentById(R.id.quizFragment);  quizFragment.updateGuessRows(PreferenceManager.getDefaultSharedPreferences(this));  quizFragment.updateRegions(PreferenceManager.getDefaultSharedPreferences(this));  quizFragment.resetQuiz();  preferencesChanged = false;  }  }  @Override  public boolean onCreateOptionsMenu(Menu menu) {  //get the device's current orientation  int orientation = getResources().getConfiguration().orientation;  if(orientation == Configuration.ORIENTATION\_PORTRAIT){  //inflate the menu  getMenuInflater().inflate(R.menu.menu\_main, menu);  return true;  }else  return false;  }  @Override  public boolean onOptionsItemSelected(MenuItem item) {  Intent preferencesIntent = new Intent(this,SettingsActivity.class);  startActivity(preferencesIntent);  return super.onOptionsItemSelected(item);  }  //listener for changes to the app's SharedPreferences  private OnSharedPreferenceChangeListener preferencesChangeListener = new OnSharedPreferenceChangeListener() {  @Override  public void onSharedPreferenceChanged(SharedPreferences sharedPreferences, String key) {  preferencesChanged = true;  MainActivityFragment quizFragment = (MainActivityFragment) getSupportFragmentManager().findFragmentById(R.id.quizFragment);  if(key.equals(CHOICES)) { //# of choices to display changed  quizFragment.updateGuessRows(sharedPreferences);  quizFragment.resetQuiz();  }else if(key.equals(REGIONS)){ //regions to include changed  Set<String> regions = sharedPreferences.getStringSet(REGIONS, null);  if(regions != null && regions.size() > 0){  quizFragment.updateRegions(sharedPreferences);  quizFragment.resetQuiz();  }else{  //must select one region -- set North America as default  SharedPreferences.Editor editor = sharedPreferences.edit();  regions.add(getString(R.string.default\_region));  editor.putStringSet(REGIONS, regions);  editor.apply();  Toast.makeText(MainActivity.this, R.string.default\_region\_message, Toast.LENGTH\_SHORT).show();  }  }  Toast.makeText(MainActivity.this, R.string.restarting\_quiz, Toast.LENGTH\_SHORT).show();  }  //called when the user changes the app's preferences  };  } |

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| MainActivityFragment.java |
| package jimmyibarra.provincestatequiz;  import android.animation.Animator;  import android.animation.AnimatorListenerAdapter;  import android.app.Activity;  import android.app.AlertDialog;  import android.app.Dialog;  import android.content.DialogInterface;  import android.content.Intent;  import android.content.SharedPreferences;  import android.content.res.AssetManager;  import android.graphics.drawable.Drawable;  import android.os.Bundle;  import android.os.Handler;  import android.support.annotation.NonNull;  import android.support.v4.app.DialogFragment;  import android.support.v4.app.Fragment;  import android.util.Log;  import android.view.LayoutInflater;  import android.view.View;  import android.view.View.OnClickListener;  import android.view.ViewAnimationUtils;  import android.view.ViewGroup;  import android.view.animation.Animation;  import android.view.animation.AnimationUtils;  import android.widget.Button;  import android.widget.ImageView;  import android.widget.LinearLayout;  import android.widget.TextView;  import java.io.IOException;  import java.io.InputStream;  import java.security.SecureRandom;  import java.util.ArrayList;  import java.util.Collections;  import java.util.List;  import java.util.Set;  public class MainActivityFragment extends Fragment {  public static final int REQUEST\_CODE\_BONUS= 17;  //String used when logging error messages  private static final String TAG = "FlagQuiz Activity";  private static final int FLAGS\_IN\_QUIZ = 10;  private List<String> fileNameList; //flag file names  private List<String> quizCountriesList; //countries in current quiz  private Set<String> regionsSet;  private String correctAnswer;  private boolean isQuizFinish = false;  private boolean isFirstTry = true;  private int totalGuesses;  private int correctAnswers;  private int guessRows;  private SecureRandom random;  private Handler handler;  private Animation shakeAnimation;  private int totalPoints = 0;  private int points = 10;  private LinearLayout quizLinearLayout;  private TextView questionNumberTextView;  private ImageView imageView;  private LinearLayout[] guessLinearLayouts;  private TextView answerTextView;  public MainActivityFragment() {  }  @Override  public View onCreateView(LayoutInflater inflater, ViewGroup container,  Bundle savedInstanceState) {  super.onCreateView(inflater, container, savedInstanceState);  View view = inflater.inflate(R.layout.fragment\_main,container, false);  fileNameList = new ArrayList<>();  quizCountriesList = new ArrayList<>();  random = new SecureRandom();  handler = new Handler();  //load the shake animation that's used for incorrect answers  shakeAnimation = AnimationUtils.loadAnimation(getActivity(), R.anim.incorrect\_shake);  shakeAnimation.setRepeatCount(3);  //get references to GUI components  quizLinearLayout = view.findViewById(R.id.quizLinearLayout);  questionNumberTextView = view.findViewById(R.id.questionNumberTextView);  imageView = view.findViewById(R.id.imageView);  guessLinearLayouts = new LinearLayout[3];  guessLinearLayouts[0] = view.findViewById(R.id.row1LinearLayout);  guessLinearLayouts[1] = view.findViewById(R.id.row2LinearLayout);  guessLinearLayouts[2] = view.findViewById(R.id.row3LinearLayout);  answerTextView = view.findViewById(R.id.answerTextView);  //configure listeners for the guess buttons  for(LinearLayout row : guessLinearLayouts){  for(int column = 0 ; column < row.getChildCount(); column++){  Button button = (Button) row.getChildAt(column);  button.setOnClickListener(guessButtonListener);  }  }  questionNumberTextView.setText(getString(R.string.question,1,FLAGS\_IN\_QUIZ));  return view; //return the fragment's view for display  }  //update guessRpws based on value in SharedPreferences  public void updateGuessRows(SharedPreferences sharedPreferences){  //get the number of guess buttons that should be displayed  String choices = sharedPreferences.getString(MainActivity.CHOICES,null);  guessRows = (Integer.parseInt(choices)) / 2;  //hide all guess button LinearLayouts  for(LinearLayout layout : guessLinearLayouts)  layout.setVisibility(View.GONE);  //display appropriate guess button LinearLayouts  for(int row=0;row < guessRows; row++)  guessLinearLayouts[row].setVisibility(View.VISIBLE);  }  public void updateRegions(SharedPreferences sharedPreferences){  regionsSet = sharedPreferences.getStringSet(MainActivity.REGIONS, null);  }  public void resetQuiz(){  //use AssetManager to get image file names for enabled regions  AssetManager assets = getActivity().getAssets();  fileNameList.clear(); //empty list of image file names  try{  for(String region : regionsSet){  //get a list of all flag image files in this region  String[] paths = assets.list(region);  for(String path : paths)  fileNameList.add(path.replace(".JPG", ""));  }  }catch(IOException exception){  Log.e(TAG, "Error loading image file names", exception);  }  totalPoints = 0;  correctAnswers = 0;  totalGuesses = 0;  quizCountriesList.clear();  int flagCounter = 1;  int numberOfFlags = fileNameList.size();  //add FLAGS\_IN\_QUIZ  while(flagCounter <= FLAGS\_IN\_QUIZ){  int randomIndex = random.nextInt(numberOfFlags);  //get the random file name  String filename = fileNameList.get(randomIndex);  //if the region is enabled and it hasn't already been chosen  if(!quizCountriesList.contains(filename)){  quizCountriesList.add(filename);  ++flagCounter;  }  }  loadNextFlag();  }  private void loadNextFlag(){  //get filename of the next flag and remove it from the list  String nextImage = quizCountriesList.remove(0);  correctAnswer = nextImage;  answerTextView.setText("");  isFirstTry = true;  points = 10;  //display current question number  questionNumberTextView.setText(getString(R.string.question, (correctAnswers + 1), FLAGS\_IN\_QUIZ));  //extract the region from the next image's name  String region = nextImage.substring(0, nextImage.indexOf('-'));  //use AssetManager to load ext image fro assets folder  AssetManager assets = getActivity().getAssets();  //get an InputStream, to the asset representing the next flag  //and try to use the InputStream  try(InputStream stream = assets.open(region + "/" + nextImage + ".JPG")){  //load the asset as a Drawable and display on the imageView  Drawable flag = Drawable.createFromStream(stream, nextImage);  imageView.setImageDrawable(flag);  animate(false);  }catch(IOException exception){  Log.e(TAG, "Error loading " + nextImage, exception);  }  Collections.shuffle(fileNameList);  //put the correct answer at the end of fileNameList  int correct = fileNameList.indexOf(correctAnswer);  fileNameList.add(fileNameList.remove(correct));  //add 2,4,6 or 8 guess Buttons based on the value of guessRows  for(int row = 0; row < guessRows; row++){  for(int column = 0; column < guessLinearLayouts[row].getChildCount(); column++){  //get reference to Button to configure  Button newGuessButton = (Button) guessLinearLayouts[row].getChildAt(column);  newGuessButton.setEnabled(true);  //get country name and set it as newGuessButton's text  String filename = fileNameList.get((row\*2) + column);  newGuessButton.setText(getCountryName(filename));  }  }  int row = random.nextInt(guessRows);  int column = random.nextInt(2);  LinearLayout randomRow = guessLinearLayouts[row];  String countryName = getCountryName(correctAnswer);  ((Button) randomRow.getChildAt(column)).setText(countryName);  }  private String getCountryName(String name){  return name.substring(name.indexOf('-') + 1).replace('\_', ' ');  }  private void animate(boolean animateOut){  //prevent animation into the UI for the first flag  if(correctAnswers == 0 ){  return;  }  //calculate center x and center y  int centerX = (quizLinearLayout.getLeft() + quizLinearLayout.getRight()) / 2;  int centerY = (quizLinearLayout.getTop() + quizLinearLayout.getBottom()) / 2;  //calculate radius  int radius = Math.max(quizLinearLayout.getWidth(), quizLinearLayout.getHeight());  Animator animator;  //if the quizLinearLayout should animate out rather than in  if(animateOut){  //create circular reveal animation  animator = ViewAnimationUtils.createCircularReveal(quizLinearLayout, centerX, centerY,radius,0);  animator.addListener(  new AnimatorListenerAdapter() {  @Override  public void onAnimationEnd(Animator animation) {  loadNextFlag();  }  }  );  }else{ //if the quizLinearLayout should animate in  animator = ViewAnimationUtils.createCircularReveal(quizLinearLayout, centerX, centerY, 0 , radius);  }  animator.setDuration(500);  animator.start();  }  private final OnClickListener guessButtonListener = new OnClickListener() {  @Override  public void onClick(View v) {  Button guessButton = ((Button) v);  String guess = guessButton.getText().toString();  String answer = getCountryName(correctAnswer);  ++totalGuesses;  if (guess.equals(answer)) {  if(isFirstTry){  Intent i= new Intent(v.getContext(), BonusActivity.class);  i.putExtra("provinceState", answer);  startActivityForResult(i, 1);  }  totalPoints += points;  Log.i("POINTS", totalPoints + "");  points = 10;  ++correctAnswers;  answerTextView.setText(answer + "!");  answerTextView.setTextColor(getResources().getColor(R.color.correct\_answer, getContext().getTheme()));  disableButtons();  if (correctAnswers == FLAGS\_IN\_QUIZ) {  if(!isFirstTry)  showDialog();  } else {  handler.postDelayed(new Runnable() {  @Override  public void run() {  animate(true);  }  }  , 2000);  }  } else {  points--;  imageView.startAnimation(shakeAnimation);  answerTextView.setText(R.string.incorrect\_answer);  answerTextView.setTextColor(getResources().getColor(R.color.incorrect\_answer, getContext().getTheme()));  guessButton.setEnabled(false);  isFirstTry = false;  }  }  };  private void disableButtons(){  for(int row = 0; row < guessRows; row++){  LinearLayout guessRow = guessLinearLayouts[row];  for(int i = 0; i < guessRow.getChildCount(); i++) {  guessRow.getChildAt(i).setEnabled(true);  }  }  }  public static class PopupDialog extends DialogFragment {  private buttonFunction buttonFunction;  public static PopupDialog newInstance(int totalGuesses, int points){  PopupDialog dialog = new PopupDialog();  //Hold new Arugments  Bundle args = new Bundle();  //Set argument for Total Guesses  args.putInt("TotalGuesses", totalGuesses);  args.putInt("Points", points);  dialog.setArguments(args);  return dialog;  }  @NonNull  @Override  public Dialog onCreateDialog(Bundle savedInstanceState) {  int totalGuesses = getArguments().getInt("TotalGuesses");  int totalPoints = getArguments().getInt("Points");  AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());  builder.setMessage(getString(R.string.results, totalGuesses, (1000/ (double) totalGuesses)) + "\nYou scored: " + totalPoints + "points");  builder.setPositiveButton(R.string.reset\_quiz,new DialogInterface.OnClickListener() {  @Override  public void onClick(DialogInterface dialogInterface, int i) {  if(buttonFunction != null)  buttonFunction.onButtonPress();  }  });  return builder.create();  }  public interface buttonFunction{  void onButtonPress();  }  }  @Override  public void onActivityResult(int requestCode, int resultCode, Intent data){  if(requestCode == 1){  if(resultCode == Activity.RESULT\_OK){  String result = data.getStringExtra("result");  totalPoints += Integer.parseInt(result);  if(correctAnswers == FLAGS\_IN\_QUIZ){  showDialog();  }  Log.i("ADDEDPOINTS",result.toString());  }  }  }  public void showDialog(){  PopupDialog quizResults = PopupDialog.newInstance(totalGuesses, totalPoints);  quizResults.buttonFunction = new PopupDialog.buttonFunction() {  @Override  public void onButtonPress() {  resetQuiz();  }  };  quizResults.setCancelable(false);  quizResults.show(getFragmentManager(),"quizResults");  }  } |

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| SettingsActivity.java |
| package jimmyibarra.provincestatequiz;  import android.os.Bundle;  import android.support.v7.app.AppCompatActivity;  import android.support.v7.widget.Toolbar;  public class SettingsActivity extends AppCompatActivity {  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_settings);  Toolbar toolbar = findViewById(R.id.toolbar);  setSupportActionBar(toolbar);  getSupportActionBar().setDisplayHomeAsUpEnabled(true);  }  } |

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| SettingsActivityFragment.java |
| package jimmyibarra.provincestatequiz;  import android.os.Bundle;  import android.preference.PreferenceFragment;  /\*\*  \* A placeholder fragment containing a simple view.  \*/  public class SettingsActivityFragment extends PreferenceFragment {  @Override  public void onCreate(Bundle bundle){  super.onCreate(bundle);  addPreferencesFromResource(R.xml.preferences);  }  } |

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| ExampleInstrumentedTest.java |
| package jimmyibarra.provincestatequiz;  import android.content.Context;  import android.support.test.InstrumentationRegistry;  import android.support.test.runner.AndroidJUnit4;  import org.junit.Test;  import org.junit.runner.RunWith;  import static org.junit.Assert.\*;  /\*\*  \* Instrumented test, which will execute on an Android device.  \*  \* @see <a href="http://d.android.com/tools/testing">Testing documentation</a>  \*/  @RunWith(AndroidJUnit4.class)  public class ExampleInstrumentedTest {  @Test  public void useAppContext() {  // Context of the app under test.  Context appContext = InstrumentationRegistry.getTargetContext();  assertEquals("jimmyibarra.provincestatequiz", appContext.getPackageName());  }  } |

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| ExampleUnitTest.java |
| package jimmyibarra.provincestatequiz;  import org.junit.Test;  import static org.junit.Assert.\*;  /\*\*  \* Example local unit test, which will execute on the development machine (host).  \*  \* @see <a href="http://d.android.com/tools/testing">Testing documentation</a>  \*/  public class ExampleUnitTest {  @Test  public void addition\_isCorrect() {  assertEquals(4, 2 + 2);  }  } |

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| Capitals.txt |
| Alberta AB Edmonton  BritishColumbia BC Victoria  Manitoba MB Winnipeg  NewBruniswick NB Fredericton  NewfoundlandandLabrador NL St.John’s  NovaScotia NS Halifax  Ontario ON Toronto  PrinceEdwardIsland PE Charlottetown  Quebec QC Quebec city  Saskatchewan SK Regina  NorthwestTerritory NT Yellowknife  Nunavut NU Iqaluit  YukonTerritory YT Whitehorse  Alabama AL Montgomery  Alaska AK Juneau  Arizona AZ Phoenix  Arkansas AR Little Rock  California CA Sacramento  Colorado CO Denver  Connecticut CT Hartford  Delaware DE Dover  Florida FL Tallahassee  Georgia GA Atlanta  Hawaii HI Honolulu  Idaho ID Boise  Illinois IL Springfield  Indiana IN Indianapolis  Iowa IA Des Moines  Kansas KS Topeka  Kentucky KY Frankfort  Louisiana LA Baton Rouge  Maine ME Augusta  Maryland MD Annapolis  Massachusetts MA Boston  Michigan MI Lansing  Minnesota MN Saint Paul  Mississippi MS Jackson  Missouri MO Jefferson City  Montana MT Helena  Nebraska NE Lincoln  Nevada NV Carson City  NewHampshire NH Concord  NewJersey NJ Trenton  NewMexico NM Santa Fe  NewYork NY Albany  NorthCarolina NC Raleigh  NorthDakota ND Bismarck  Ohio OH Columbus  Oklahoma OK Oklahoma City  Oregon OR Salem  Pennsylvania PA Harrisburg  RhodeIsland RI Providence  SouthCarolina SC Columbia  SouthDakota SD Pierre  Tennessee TN Nashville  Texas TX Austin  Utah UT Salt Lake City  Vermont VT Montpelier  Virginia VA Richmond  Washington WA Olympia  WestVirginia WV Charleston  Wisconsin WI Madison  Wyoming WY Cheyenne  AmericanSamoa AS Pago Pago  Guam GU Hagatna  NorthernMarianaIslands MP Saipan  PuertoRico PR San Juan  USVirginIslands VI Charlotte Amalie |

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| Incorrect\_shake.xml |
| <?xml version="1.0" encoding="utf-8"?>  <set xmlns:android="http://schemas.android.com/apk/res/android"  android:interpolator="@android:anim/decelerate\_interpolator">  <translate android:duration="100" android:fromXDelta="0"  android:toXDelta="-5%p"/>  <translate android:duration="100" android:fromXDelta="-5%p"  android:toXDelta="-5%p"/>  <translate android:duration="100" android:fromXDelta="-5%p"  android:toXDelta="5%p" android:startOffset="100"/>  <translate android:duration="100" android:fromXDelta="5%p"  android:toXDelta="-5%p" android:startOffset="200"/>  </set> |

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| Button\_text\_color.xml |
| <?xml version="1.0" encoding="utf-8"?>  <selector xmlns:android="http://schemas.android.com/apk/res/android">  <item  android:color="@android:color/primary\_text\_dark"  android:state\_enabled="true"/>  <item  android:color="@android:color/darker\_gray"  android:state\_enabled="false"/>  </selector> |

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| Ic\_launcher\_background.xml |
| <?xml version="1.0" encoding="utf-8"?>  <vector xmlns:android="http://schemas.android.com/apk/res/android"  android:width="108dp"  android:height="108dp"  android:viewportHeight="108"  android:viewportWidth="108">  <path  android:fillColor="#26A69A"  android:pathData="M0,0h108v108h-108z" />  <path  android:fillColor="#00000000"  android:pathData="M9,0L9,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,0L19,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M29,0L29,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M39,0L39,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M49,0L49,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M59,0L59,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M69,0L69,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M79,0L79,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M89,0L89,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M99,0L99,108"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,9L108,9"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,19L108,19"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,29L108,29"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,39L108,39"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,49L108,49"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,59L108,59"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,69L108,69"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,79L108,79"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,89L108,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M0,99L108,99"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,29L89,29"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,39L89,39"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,49L89,49"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,59L89,59"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,69L89,69"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M19,79L89,79"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M29,19L29,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M39,19L39,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M49,19L49,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M59,19L59,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M69,19L69,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  <path  android:fillColor="#00000000"  android:pathData="M79,19L79,89"  android:strokeColor="#33FFFFFF"  android:strokeWidth="0.8" />  </vector> |

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| V24\ic\_launcher\_foreground.xml |
| <vector xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:aapt="http://schemas.android.com/aapt"  android:width="108dp"  android:height="108dp"  android:viewportHeight="108"  android:viewportWidth="108">  <path  android:fillType="evenOdd"  android:pathData="M32,64C32,64 38.39,52.99 44.13,50.95C51.37,48.37 70.14,49.57 70.14,49.57L108.26,87.69L108,109.01L75.97,107.97L32,64Z"  android:strokeColor="#00000000"  android:strokeWidth="1">  <aapt:attr name="android:fillColor">  <gradient  android:endX="78.5885"  android:endY="90.9159"  android:startX="48.7653"  android:startY="61.0927"  android:type="linear">  <item  android:color="#44000000"  android:offset="0.0" />  <item  android:color="#00000000"  android:offset="1.0" />  </gradient>  </aapt:attr>  </path>  <path  android:fillColor="#FFFFFF"  android:fillType="nonZero"  android:pathData="M66.94,46.02L66.94,46.02C72.44,50.07 76,56.61 76,64L32,64C32,56.61 35.56,50.11 40.98,46.06L36.18,41.19C35.45,40.45 35.45,39.3 36.18,38.56C36.91,37.81 38.05,37.81 38.78,38.56L44.25,44.05C47.18,42.57 50.48,41.71 54,41.71C57.48,41.71 60.78,42.57 63.68,44.05L69.11,38.56C69.84,37.81 70.98,37.81 71.71,38.56C72.44,39.3 72.44,40.45 71.71,41.19L66.94,46.02ZM62.94,56.92C64.08,56.92 65,56.01 65,54.88C65,53.76 64.08,52.85 62.94,52.85C61.8,52.85 60.88,53.76 60.88,54.88C60.88,56.01 61.8,56.92 62.94,56.92ZM45.06,56.92C46.2,56.92 47.13,56.01 47.13,54.88C47.13,53.76 46.2,52.85 45.06,52.85C43.92,52.85 43,53.76 43,54.88C43,56.01 43.92,56.92 45.06,56.92Z"  android:strokeColor="#00000000"  android:strokeWidth="1" />  </vector> |

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| Ic\_settings\_applications\_black\_24dp.xml |
| <vector xmlns:android="http://schemas.android.com/apk/res/android"  android:width="24dp"  android:height="24dp"  android:viewportWidth="24.0"  android:viewportHeight="24.0">  <path  android:fillColor="@android:color/white"  android:pathData="M12,10c-1.1,0 -2,0.9 -2,2s0.9,2 2,2 2,-0.9 2,-2 -0.9,-2 -2,-2zM19,3L5,3c-1.11,0 -2,0.9 -2,2v14c0,1.1 0.89,2 2,2h14c1.11,0 2,-0.9 2,-2L21,5c0,-1.1 -0.89,-2 -2,-2zM17.25,12c0,0.23 -0.02,0.46 -0.05,0.68l1.48,1.16c0.13,0.11 0.17,0.3 0.08,0.45l-1.4,2.42c-0.09,0.15 -0.27,0.21 -0.43,0.15l-1.74,-0.7c-0.36,0.28 -0.76,0.51 -1.18,0.69l-0.26,1.85c-0.03,0.17 -0.18,0.3 -0.35,0.3h-2.8c-0.17,0 -0.32,-0.13 -0.35,-0.29l-0.26,-1.85c-0.43,-0.18 -0.82,-0.41 -1.18,-0.69l-1.74,0.7c-0.16,0.06 -0.34,0 -0.43,-0.15l-1.4,-2.42c-0.09,-0.15 -0.05,-0.34 0.08,-0.45l1.48,-1.16c-0.03,-0.23 -0.05,-0.46 -0.05,-0.69 0,-0.23 0.02,-0.46 0.05,-0.68l-1.48,-1.16c-0.13,-0.11 -0.17,-0.3 -0.08,-0.45l1.4,-2.42c0.09,-0.15 0.27,-0.21 0.43,-0.15l1.74,0.7c0.36,-0.28 0.76,-0.51 1.18,-0.69l0.26,-1.85c0.03,-0.17 0.18,-0.3 0.35,-0.3h2.8c0.17,0 0.32,0.13 0.35,0.29l0.26,1.85c0.43,0.18 0.82,0.41 1.18,0.69l1.74,-0.7c0.16,-0.06 0.34,0 0.43,0.15l1.4,2.42c0.09,0.15 0.05,0.34 -0.08,0.45l-1.48,1.16c0.03,0.23 0.05,0.46 0.05,0.69z"/>  </vector> |

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| Activity\_main.xml |
| <?xml version="1.0" encoding="utf-8"?>  <android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity">  <android.support.design.widget.AppBarLayout  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:theme="@style/AppTheme.AppBarOverlay">  <android.support.v7.widget.Toolbar  android:id="@+id/toolbar"  android:layout\_width="match\_parent"  android:layout\_height="?attr/actionBarSize"  android:background="?attr/colorPrimary"  app:popupTheme="@style/AppTheme.PopupOverlay" />  </android.support.design.widget.AppBarLayout>  <include layout="@layout/content\_main" />  </android.support.design.widget.CoordinatorLayout> |

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| Activity\_settings.xml |
| <android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".SettingsActivity">  <android.support.design.widget.AppBarLayout  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:theme="@style/AppTheme.AppBarOverlay">  <android.support.v7.widget.Toolbar  android:id="@+id/toolbar"  android:layout\_width="match\_parent"  android:layout\_height="?attr/actionBarSize"  android:background="?attr/colorPrimary"  app:popupTheme="@style/AppTheme.PopupOverlay" />  </android.support.design.widget.AppBarLayout>  <include layout="@layout/content\_settings" />  </android.support.design.widget.CoordinatorLayout> |

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| Bonux\_question.xml |
| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical">  <TextView  android:id="@+id/question"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="top|center\_horizontal"  android:layout\_marginStart="8dp"  android:layout\_marginTop="8dp"  android:layout\_marginEnd="8dp"  android:layout\_weight="0"  android:text="TextView"  android:textColor="@android:color/black"  android:textSize="20sp"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent" />  <EditText  android:id="@+id/capitalEditText"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_gravity="top"  android:layout\_weight="0"  android:ems="10"  android:hint="Enter the Capital Here"  android:inputType="textPersonName" />  <Button  android:id="@+id/submitButton"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_weight="0"  android:text="Submit" />  <TextView  android:id="@+id/capitalAnswer"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="0"  android:textSize="36sp" />  </LinearLayout> |

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| Content\_main.xml |
| <fragment xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:id="@+id/quizFragment"  android:name="jimmyibarra.provincestatequiz.MainActivityFragment"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  tools:layout="@layout/fragment\_main" /> |

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| Sw700dp-land\content\_main.xml |
| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout  xmlns:app="http://schemas.android.com/apk/res-auto"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:tools="http://schemas.android.com/tools"  android:orientation="vertical" android:layout\_width="match\_parent"  android:layout\_height="match\_parent">  <fragment  android:id="@+id/settingsActivityFragment"  android:name="jimmyibarra.provincestatequiz.SettingsActivityFragment"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  tools:ignore="Suspicious0dp" />  <fragment  android:id="@+id/quizFragment"  android:name="jimmyibarra.provincestatequiz.MainActivityFragment"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="2"  tools:ignore="Suspicious0dp" />  </LinearLayout> |

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| Content\_settings.xml |
| <fragment xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:id="@+id/fragment"  android:name="jimmyibarra.provincestatequiz.SettingsActivityFragment"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  tools:layout="@layout/fragment\_settings" /> |

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| Fragment\_main.xml |
| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:id="@+id/quizLinearLayout"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical"  tools:context=".MainActivityFragment"  tools:showIn="@layout/activity\_main">  <TextView  android:id="@+id/questionNumberTextView"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center"  android:layout\_marginBottom="@dimen/spacing"  android:text="@string/question" />  <ImageView  android:id="@+id/imageView"  android:layout\_width="match\_parent"  android:layout\_height="0dp"  android:layout\_gravity="center\_vertical|center\_horizontal"  android:layout\_marginLeft="@dimen/activity\_horizontal\_margin"  android:layout\_marginRight="@dimen/activity\_horizontal\_margin"  android:layout\_marginBottom="@dimen/spacing"  android:layout\_weight="1"  android:adjustViewBounds="true"  android:contentDescription="@string/image\_description"  android:scaleType="fitCenter" />  <TextView  android:id="@+id/guessCountryTextView"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center\_horizontal"  android:text="@string/guess\_province\_territory" />  <LinearLayout  android:id="@+id/row1LinearLayout"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:orientation="horizontal">  <Button  android:id="@+id/button2"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  <Button  android:id="@+id/button7"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  <Button  android:id="@+id/button8"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  </LinearLayout>  <LinearLayout  android:id="@+id/row2LinearLayout"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:orientation="horizontal">  <Button  android:id="@+id/button3"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  <Button  android:id="@+id/button4"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  </LinearLayout>  <LinearLayout  android:id="@+id/row3LinearLayout"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:orientation="horizontal">  <Button  android:id="@+id/button5"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  <Button  android:id="@+id/button6"  style="@android:style/Widget.Material.Button.Colored"  android:layout\_width="0dp"  android:layout\_height="match\_parent"  android:layout\_weight="1"  android:lines="2"  android:text="Button"  android:textColor="@color/button\_text\_color" />  </LinearLayout>  <TextView  android:id="@+id/answerTextView"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="bottom|center\_horizontal"  android:text="TextView"  android:textSize="@dimen/answer\_size" />  </LinearLayout> |

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| Fragment\_settings.xml |
| <?xml version="1.0" encoding="utf-8"?>  <android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".SettingsActivityFragment"  tools:showIn="@layout/activity\_settings">  </android.support.constraint.ConstraintLayout> |

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| Menu\_main.xml |
| <menu xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  tools:context="jimmyibarra.provincestatequiz.MainActivity">  <item  android:icon="@drawable/ic\_settings\_applications\_black\_24dp"  android:id="@+id/action\_settings"  android:orderInCategory="100"  android:title="@string/action\_settings"  app:showAsAction="always" />  </menu> |

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| Menu\_settings.xml |
| <menu xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  tools:context="jimmyibarra.provincestatequiz.SettingsActivity">  <item  android:id="@+id/action\_settings"  android:orderInCategory="100"  android:title="@string/action\_settings"  app:showAsAction="never" />  </menu> |

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| Anydpi-v26\ic\_launcher.xml |
| <?xml version="1.0" encoding="utf-8"?>  <adaptive-icon xmlns:android="http://schemas.android.com/apk/res/android">  <background android:drawable="@drawable/ic\_launcher\_background" />  <foreground android:drawable="@drawable/ic\_launcher\_foreground" />  </adaptive-icon> |

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| Arrays.xml |
| <?xml version="1.0" encoding="utf-8"?>  <resources>  <string-array name="regions\_list">  <item>Canada</item>  <item>USA</item>  </string-array>  <string-array name="regions\_list\_for\_settings">  <item>Canada</item>  <item>USA</item>  </string-array>  <string-array name="guesses\_list">  <item>3</item>  <item>5</item>  <item>7</item>  </string-array>  </resources> |

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| Colors.xml |
| <?xml version="1.0" encoding="utf-8"?>  <resources>  <color name="colorPrimary">#3F51B5</color>  <color name="colorPrimaryDark">#303F9F</color>  <color name="colorAccent">#448AFF</color>  <color name="correct\_answer">#00CC00</color>  <color name="incorrect\_answer">#FF0000</color>  </resources> |

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| Dimens.xml |
| <resources>  <dimen name="fab\_margin">16dp</dimen>  <dimen name="activity\_horizontal\_margin">16dp</dimen>  <dimen name="activity\_vertical\_margin">16dp</dimen>  <dimen name="spacing">8dp</dimen>  <dimen name="answer\_size">36sp</dimen>  </resources> |

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| Strings.xml |
| <resources>  <string name="app\_name">ProvinceStateQuiz</string>  <string name="action\_settings">Settings</string>  <string name="number\_of\_choices\_description">Display 3, 5 or 7 guess buttons</string>  <string name="number\_of\_choices">Number of Choices</string>  <string name="world\_regions">Regions</string>  <string name="world\_regions\_descriptions">Regions to include in the quiz</string>  <string name="guess\_state">Guess the state</string>  <string name="guess\_province\_territory">Guess the province or territory</string>  <string name="results">%1$d guesses, %2$.02f%%</string>  <string name="incorrect\_answer">Incorrect!</string>  <string name="default\_region\_message">One region must be selected. Setting Canada as the default region</string>  <string name="restarting\_quiz">Quiz will restart with user\'s new settings</string>  <string name="question">Question %1$d of %2$d</string>  <string name="reset\_quiz">Reset Quiz</string>  <string name="image\_description">Image of the current flag in the quiz</string>  <string name="default\_region">Canada</string>  <string name="title\_activity\_settings">Settings</string>  </resources> |

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| Styles.xml |
| <resources>  <!-- Base application theme. -->  <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">  <!-- Customize your theme here. -->  <item name="colorPrimary">@color/colorPrimary</item>  <item name="colorPrimaryDark">@color/colorPrimaryDark</item>  <item name="colorAccent">@color/colorAccent</item>  </style>  <style name="AppTheme.NoActionBar">  <item name="windowActionBar">false</item>  <item name="windowNoTitle">true</item>  </style>  <style name="AppTheme.AppBarOverlay" parent="ThemeOverlay.AppCompat.Dark.ActionBar" />  <style name="AppTheme.PopupOverlay" parent="ThemeOverlay.AppCompat.Light" />  </resources> |

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| Preferences.xml |
| <?xml version="1.0" encoding="utf-8"?>  <PreferenceScreen xmlns:android="http://schemas.android.com/apk/res/android">  <ListPreference  android:entries="@array/guesses\_list"  android:entryValues="@array/guesses\_list"  android:key="pref\_numberOfChoices"  android:title="@string/number\_of\_choices"  android:summary="@string/number\_of\_choices\_description"  android:persistent="true"  android:defaultValue="4" />  <MultiSelectListPreference  android:entries="@array/regions\_list\_for\_settings"  android:entryValues="@array/regions\_list"  android:key="pref\_regionsToInclude"  android:title="@string/world\_regions"  android:persistent="true"  android:defaultValue="@array/regions\_list"  />  </PreferenceScreen> |