User Interaction and Input

Types of User Input Available

* Text Fields
  + MANY MANY options
  + so many in order to reduce possible errors
  + also means if we have to put in any numbers (float, int, etc) they have to be converted from a String to the right type
    - Float.parseFloat(…)
    - Integer.parse Integer (…)
* Radio/Button/
  + covered already

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Setting up a Proper Icon

* Google, and for image size select icon
* save on desktop to find easily
* rename so ALL lowercase

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Interacting with Fields/Views & Variables

* in this example, there is only one main activity window
  + when a button is pressed, the TextViews show the result

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* Overall setup procedure
  + XML layout
    - make sure to follow component naming convention
      * (TextView) tvGood, tvGreat, tvPoor
  + In Java
    - creating Java components
    - Setting up the Button to start calculations
    - create ActionListener
      * really where most of your code will go!!

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| Main.java (Lupoli’s Tip Calculator) |
| import java.text.DecimalFormat;  // plus others!!  **public** **class** Main **extends** Activity {  Button btnCalc;  EditText etBill;  TextView tvGood, tvGreat, tvPoor;    @Override  **public** **void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_main*);    btnCalc =(Button) findViewById(R.id.*btnCalc*);  btnCalc.setOnClickListener(**new** ButtonListener());  }  **private** **class** ButtonListener **implements** OnClickListener  {  **public** **void** onClick(View V)  {  **if**(btnCalc.getId() == ((Button)V).getId())  {  etBill = (EditText) findViewById(R.id.*etBill*);  **float** bill = Float.*parseFloat*(etBill.getText().toString());    tvGreat = (TextView) findViewById(R.id.*tvGreat*);  tvGood = (TextView) findViewById(R.id.*tvGood*);  tvPoor = (TextView) findViewById(R.id.*tvPoor*);    DecimalFormat curreny = **new** DecimalFormat("$###,###.##");    tvGreat.setText( " " + curreny.format(bill \* .20));  tvGood.setText( " " + curreny.format(bill \* .15));  tvPoor.setText( " " + curreny.format(bill \* .10));  }  **else** {}  }  }  } |