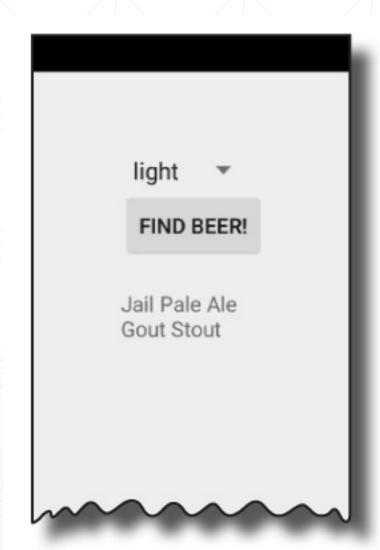
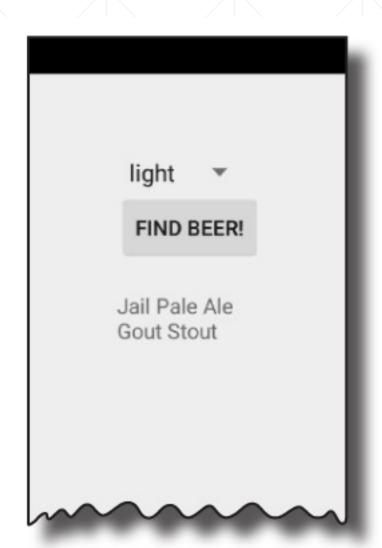
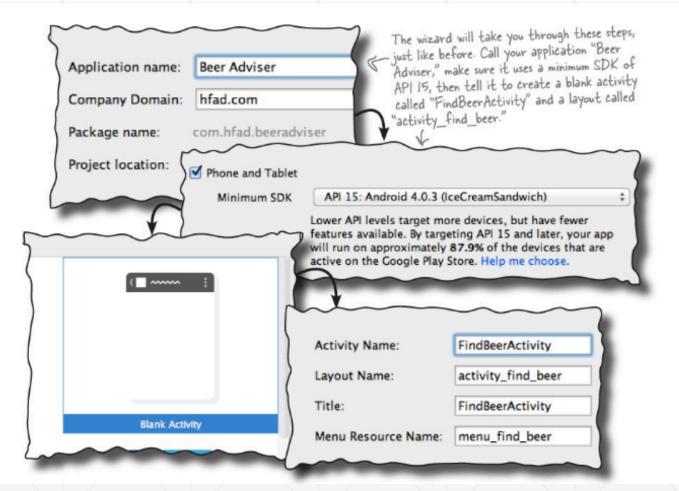
- Button & Spinner elements
- Array of string values
- String references
- onClick and clickMethod
- R.java
- findViewByld()
- setText()
- getSelectedItem()
- Adding new Java Class



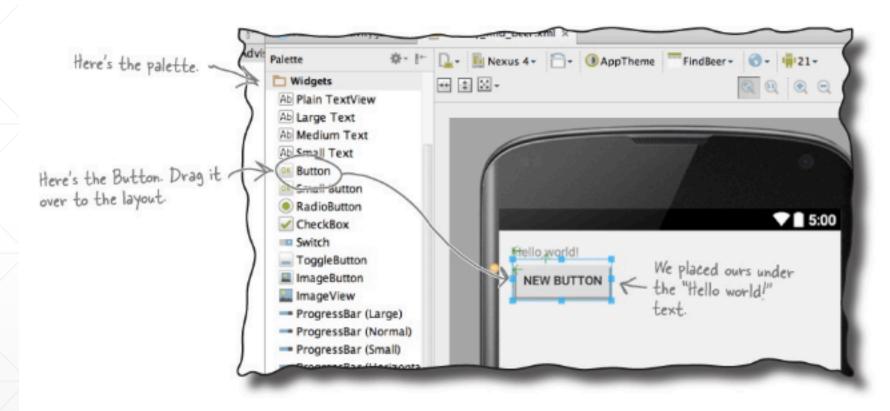
- Create Project
- Update layout
- Connect activity
- Write Application Logic



Chap 2 – Create Project

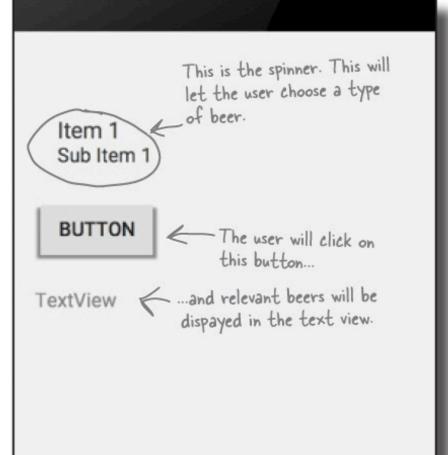


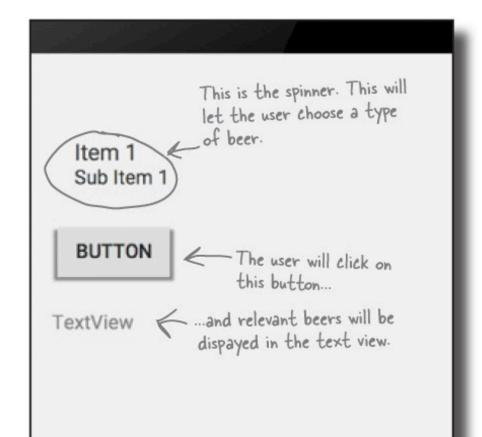
Chap 2 – Update Layout

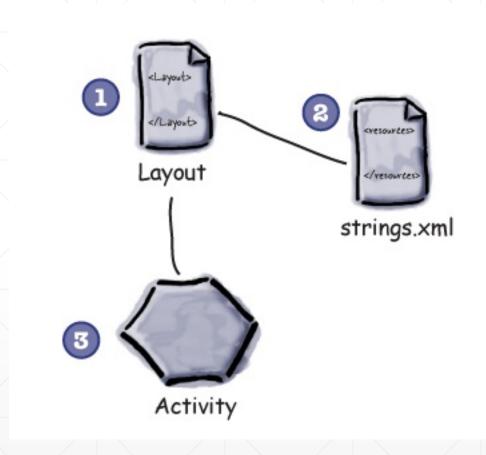


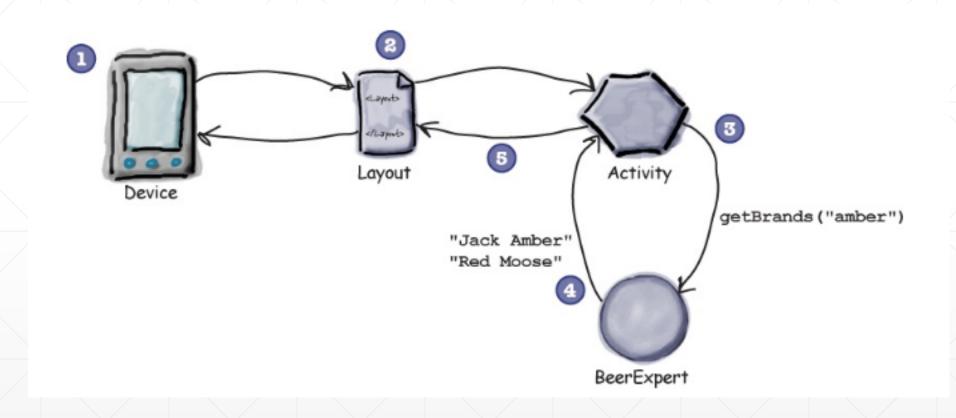
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout_height="match_parent"
   android:paddingBottom="16dp"
   android:paddingLeft="16dp"
   android:paddingRight="16dp"
   android:paddingTop="16dp"
    tools:context="edu.ltu.beeradviser.FindBeerActivity">
   <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:id="@+id/textView" />
   <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="New Button"
        android:id="@+id/button"
        android:layout_below="@+id/textView"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />
RelativeLayout>
```

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
                xmlns:tools="http://schemas.android.com/tools"
                android:layout width="match parent"
                android:layout_height="match_parent"
                android:paddingBottom="16dp"
                android:paddingLeft="16dp"
                android:paddingRight="16dp"
                android:paddingTop="16dp"
                tools:context=".FindBeerActivity" >
 <Spinner android:id="@+id/color"</pre>
           android:layout width="wrap content"
           android:layout_height="wrap_content"
           android:layout_alignParentTop="true"
           android:layout_centerHorizontal="true"
           android:layout_marginTop="37dp"
           android:entries="@array/beer_colors" />
 <Button android:id="@+id/find_beer"
          android:layout_width="wrap_content"
          android:layout_height="wrap_content"
          android:layout alignLeft="@+id/color"
          android:layout_below="@+id/color"
          android:text="Find Beer!"
          android:onClick="onClickFindBeer" />
 <TextView android:id="@+id/brands"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout_alignLeft="@+id/find_beer"
            android:layout below="@+id/find beer"
            android:layout marginTop="18dp"
            android:text="" />
</RelativeLayout>
```









```
Android:id="@+id/find_beer"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/color"
android:layout_below="@+id/color"
android:text="@string/find_beer"
android:onClick="onClickFindBeer" />
When the button is clicked,
call method onClickFindBeer()
in the activity. We'll create
the method in the activity
```

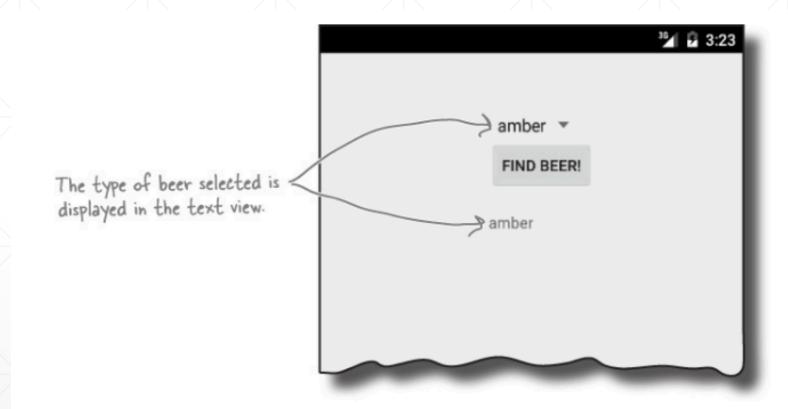
over the next few pages.

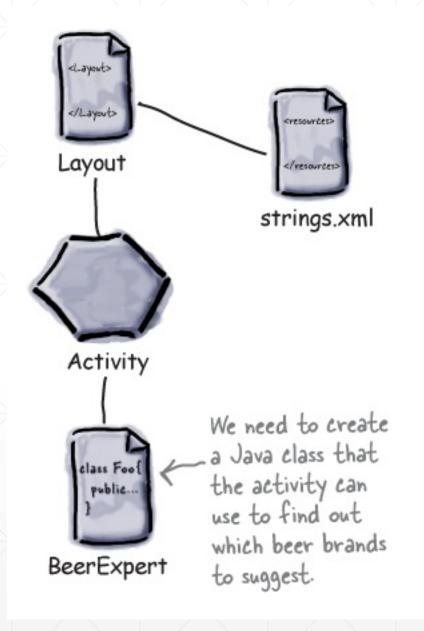
```
//Call when the button gets clicked
public void onClickFindBeer(View view) {
    //Get a reference to the TextView
    TextView brands = (TextView) findViewById(R.id.brands);

    //Get a reference to the Spinner
    Spinner color = (Spinner) findViewById(R.id.color);

    //Get the selected item in the Spinner
    String beerType = String.valueOf(color.getSelectedItem());

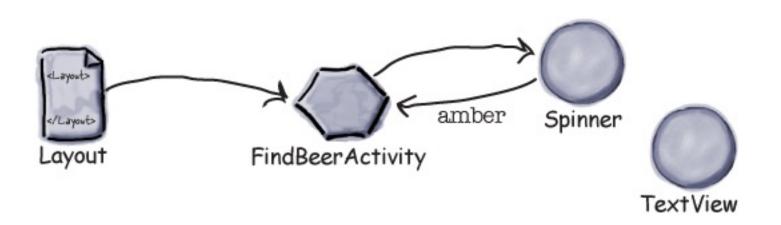
    //Display the beers
    brands.setText(beerType);
}
```



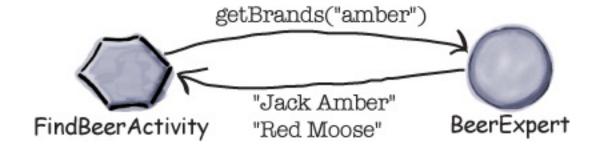


```
package com.hfad.beeradviser;
import java.util.ArrayList;
import java.util.List;
public class BeerExpert {
    List<String> getBrands(String color) {
        List<String> brands = new ArrayList<<>>();
        if (color.equals("amber")) {
            brands.add("Jack Amber");
            brands.add("Red Moose");
        } else {
            brands.add("Jail Pale Ale");
            brands.add("Gout Stout");
        return brands;
```

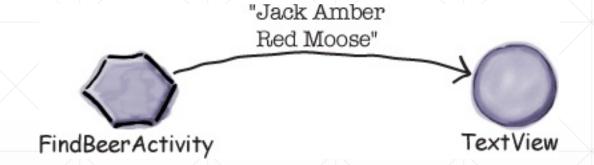
```
//Call when the button gets clicked
public void onClickFindBeer(View view) {
   //Get a reference to the TextView
   TextView brands = (TextView) findViewById(R.id.brands);
   //Get a reference to the Spinner
   Spinner color = (Spinner) findViewById(R.id.color);
   //Get the selected item in the Spinner
   String beerType = String.valueOf(color.getSelectedItem());
   //Get recommendations from the BeerExpert class
   List<String> brandsList = expert.getBrands(beerType);
    StringBuilder brandsFormatted = new StringBuilder();
    for (String brand : brandsList) {
       brandsFormatted.append(brand).append('\n');
   //Display the beers
    brands.setText(brandsFormatted);
```













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- Array of string values
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