How to set a button on the screen?

- Solution 1:
  - In the XML file, with the help of the design tool for a WYSIWYG effect
- Solution 2:

  In the Java code, for dynamic design
  - **`new Button(getApplicationContext())`**
  - Properties are set using methods such as `setText, setBackgroundColor…`
  - Layout parameters are defined with **`LayoutParams`** objects
  - *`theLayout.`***`addView`**`(theButton, theParams)`

How to attach action to a button?

- Solution 1:
  1. In the XML file: define the "**onClick**" property of the button to the name of the method to call ("*myMethod*" for instance)
  2. In the Java file: code the "**public void *myMethod*(View v)**"
     - *v* indicates the View which was clicked

- Solution 2:

  In the Java file:
  1. Retrieve a reference to the button defined in the XML file (use the **findViewById** method)
  2. Attach an **OnClickListener** to the button (method **setOnClickListener**)
  3. Define the **onClick(View v)** method for the class which implements the OnClickListener interface