

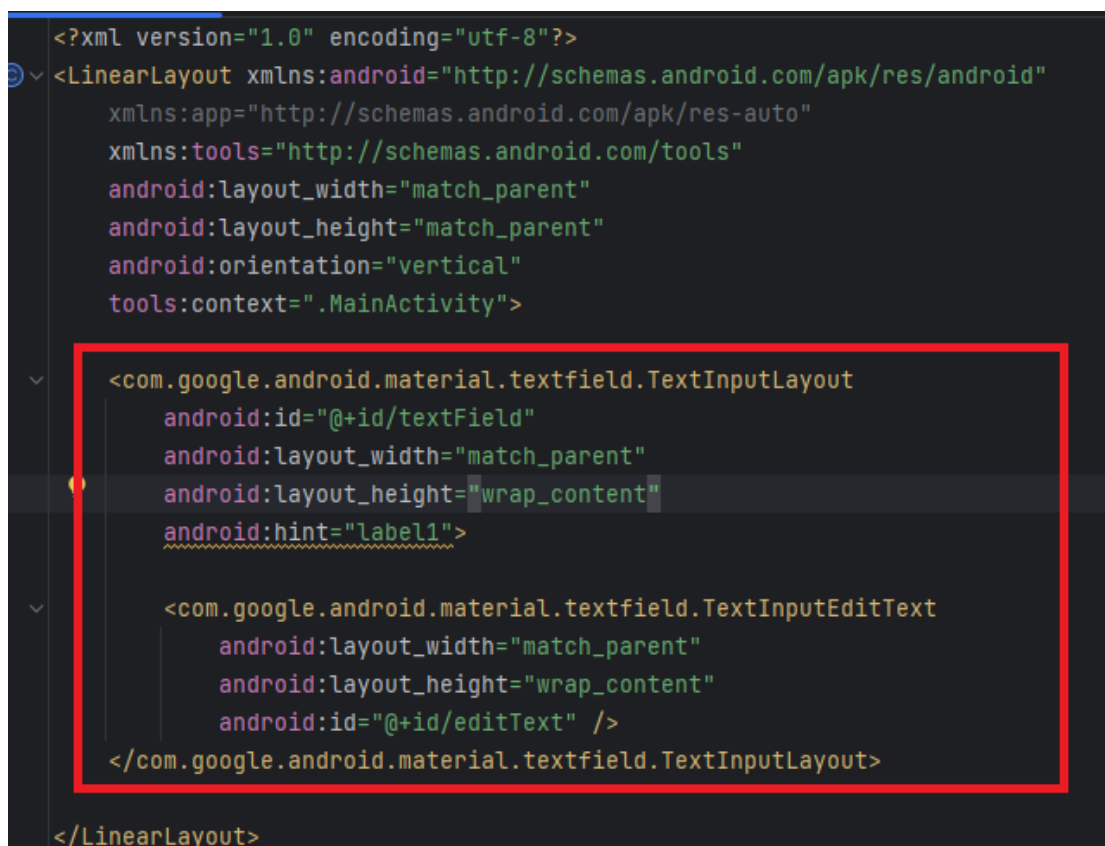
Source code address

[material-components-android/docs/components/TextField.md at master · material-components/material-components-android \(github.com\)](https://github.com/material-components/material-components-android/blob/master/docs/components/TextField.md)

Steps

TextField offers superior functionality and style compared to the traditional EditText and is easier to implement.

1. Simply copy the code into main_activity.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"
    tools:context=".MainActivity">

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/textField"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="label1">

        <com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText" />
    </com.google.android.material.textfield.TextInputLayout>

</LinearLayout>
```

2. Several commonly used attributes include:
 - 1) Leading icon.
 - 2) Trailing icon (which can clear the text field).
 - 3) Error prompt (text field changes color and displays error text).
 - 4) In TextInputEditText, the input type (such as password) can be set.

```

<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/textField"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Label1"
    app:startIconDrawable="@drawable/icon"
    app:endIconMode="clear_text"
    app:errorEnabled="true">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/editText"
        android:inputType="textPassword"/>

</com.google.android.material.textfield.TextInputLayout>

```

3. In Java code, instantiate `TextInputLayout` directly; it has a `getEditText()` method that can locate the `EditText`. As shown, when we enter "a" and click the button, the `TextFields` will turn red to indicate an error.

```

TextInputLayout txt = findViewById(R.id.textField);

Button btn = findViewById(R.id.button);
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String s = txt.getEditText().getText().toString();
        if(s.equals("a")){
            txt.setError("This is an error");
        }
    }
});
}

```